

**Radio Shack®**

You've got questions. We've got answers.<sup>SM</sup>

**Answers™**

1 9 9 5 C A T A L O G

\$2.00

# We Take the *Mystery* Out of Electronics.

You're holding one of the most trusted resources in electronics—the Radio Shack catalog. This year, we've added more than new products, we've added a wealth of information about electronics. So you can rely on us for the right answers anytime, anywhere. The only thing better? A visit to one of our stores, of course! If you're like most of our 60 million customers, you probably see us as that "convenient, close-by store with everything in electronics." And you're right. But the fact is, we have 6,500 of those stores coast to coast, so we're always there when you need us. With a 74-year track record, we're rock solid. And with our new products and exciting new services we're more focused than ever before on serving your needs. All told, we have some 25,000 experts who are dedicated to seeing that you get the best values in electronics. The latest technology. The best quality. And always, the right answers.

## Any questions?



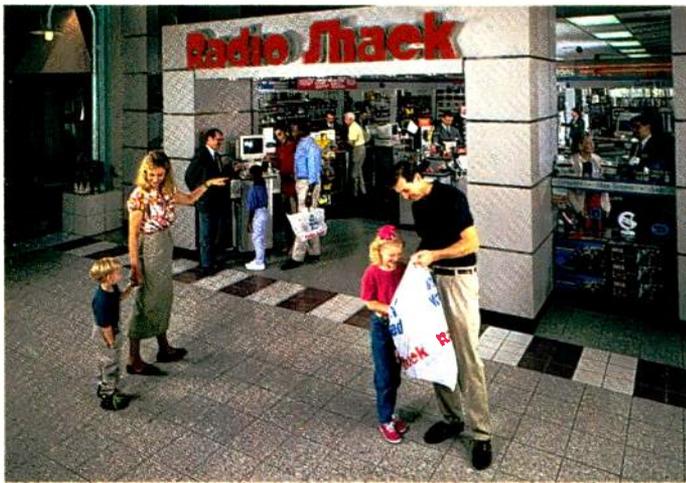
Thumb through this catalog and you'll find numerous expanded explanations of product features and details that can help you stay in the know.



Electronic terms got you baffled? Look for definitions throughout that will put you on the inside track.

But then again, you don't have to speak the lingo to enjoy shopping at Radio Shack. Making electronics easy to live with is what we're all about!

Shopping at Radio Shack has never been *easier*, more *versatile* or more *exciting*...even shop from home!



**Your neighborhood Radio Shack store** stocks nearly 3,000 items and offers some of the best values in electronics you'll find. Come into any of our 6,500 locations to hear, see and feel the quality of our products. Our friendly staff will help you make the most informed buying decisions. A quick glance through this catalog illustrates the great selection of products in stock, but **we go much further** in meeting your needs.

**Our stores are a lot bigger than they look!** In fact, there are **thousands and thousands of additional products** available from our special in-store catalogs. From movie favorites to the hottest video games, from computer software and TV wall mounts to electronic specialties, our selection is indeed staggering. Whether it's an unusual battery, a phono needle for just about any turntable, radio crystals, or a hard-to-find accessory, we'll help you find it and have it **delivered right to your door**. For more on our expanded product selection, see page 5.

**Need to send a gift?** Radio Shack Gift Express is the answer when your questions turn to gift-giving. Shop our stores or this catalog (almost all products can be delivered) to find the right gift for that special someone. For a nominal fee, **we wrap, pack, include a card and have your gift shipped anywhere in the U.S.** via Federal Express® delivery service. Come in today or call toll-free (**beginning Oct. 1, 1994**, see below) to take advantage of this convenient gift service. See page 3 for ordering information.

**Shop Radio Shack . . . right from your home!** Beginning Oct. 1, 1994, you can call 1-800-THE-SHACK<sup>SM</sup> and place your order for almost anything in this catalog and have it **sent directly to you**.

Shipping and handling charges and taxes for state of delivery are applicable.

**DIAL...**

# 1-800-THE-SHACK

**...FOR ANSWERS!**

With just one call, we'll give you the **location of your nearest Radio Shack!** This same toll-free number, 1-800-843-7422, is also your quick connection to **The Repair Shop at Radio Shack** (see page 4). And beginning Oct. 1, 1994, you can even place your **Radio Shack Gift Express** and **Radio Shack catalog orders** using this number and have your order delivered directly to your home.

## WELCOME, FRIENDS!

Turn through the pages of this year's catalog and you'll find thousands of electronics items to make life more entertaining, more productive, easier, safer and enjoyable.

But where do you turn if you're not quite sure how to use all of this wonderful technology?

Where else **but** Radio Shack!

There you'll find experienced, knowledgeable and trustworthy people who can simplify electronics for you. They're continually trained to know how things work—so you don't have to.

It's all part of our underlying mission to demystify technology and it's why we say "You've got questions. We've got answers."

But good advice isn't worth much without the products you need. Your nearby Radio Shack has both. That's why electronics enthusiasts, magazine editors—even other stores—recommend Radio Shack.

Now we've expanded our service to include Radio Shack Gift Express, an exciting new way to send an electronic gift—fast!

And we're rolling out The Repair Shop at Radio Shack—the most extensive and most convenient nationwide name-brand repair service for out-of-warranty electronics.

Whether it's offering the most innovative electronic products, explaining technology in understandable language, providing reliable repair service or simplifying the shopping experience, Radio Shack is there with the answers. Stop by soon. We'll do our best to make you feel right at home!



*Leonard Roberts*

Leonard Roberts  
President, Radio Shack

## Radio Shack Gift Express

**Good News!** Almost all of the products in this catalog are available through Radio Shack Gift Express. We wrap, pack, include a card, and have your gift shipped for you! This service, including an attractive gift pack and gift card with your personal message, is just \$4, plus shipping and handling. Sales tax will be added to your order according to the state of gift delivery.

**Satisfaction Guaranteed!** If for any reason your gift recipient is not satisfied, we will provide a replacement or full refund. The recipient simply returns the packing slip and gift item(s), along with all product packaging and any operating manuals, to the nearest Radio Shack store or participating dealer within 30 days of the shipping date.

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# Out of Whack? Out of Warranty?

**Put it in our hands for guaranteed major brand repairs with our new repair service—available all over the U.S. by January '95**

The Repair Shop at Radio Shack is the most extensive, most convenient nationwide name-brand repair service available for out-of-warranty electronics. With over 6,000 drop off points, most open 7 days a week, we bring reliable, convenient name-brand repair service to nearly every neighborhood in the U.S.

You can count on the Repair Shop at Radio Shack to fix it—and fix it right.

**Question:**  
*I've had all sorts of electronics go haywire. Which can you fix?*

**Q&A**

**Answer:**  
We repair most kinds of home electronics—from VCRs, stereo systems and components to personal computers, telephones, answering machines and portable TVs up to 13 inches.

**Question:**  
*Which brands of electronics do you fix?*

**Answer:**  
The Repair Shop at Radio Shack is a service center for more than 50 different major name brands. Most are listed at right.

**Question:**  
*What's worth fixing? What isn't worth fixing?*

**Answer:**  
The first thing to do is call us at 1-800-THE-SHACK. Describe the problem and give us the make and model of the item in need of repair. At no charge, we'll give you a general price range for the repair, so you can decide if it's worth fixing.



**Question:**  
*What do you charge for estimates?*

**Answer:**  
Again, there is no charge for a general price range quote. An itemized estimate is available for \$20. If you choose to authorize the repair, that \$20 is applied to the total repair cost.

**Question:**  
*How long do repairs take?*

**Answer:**  
You can pick up most repairs in 15 days or less.

**Question:**  
*What kind of replacement parts do you use?*

**Answer:**  
Our technicians use only high-quality parts that meet or exceed manufacturer's standards.

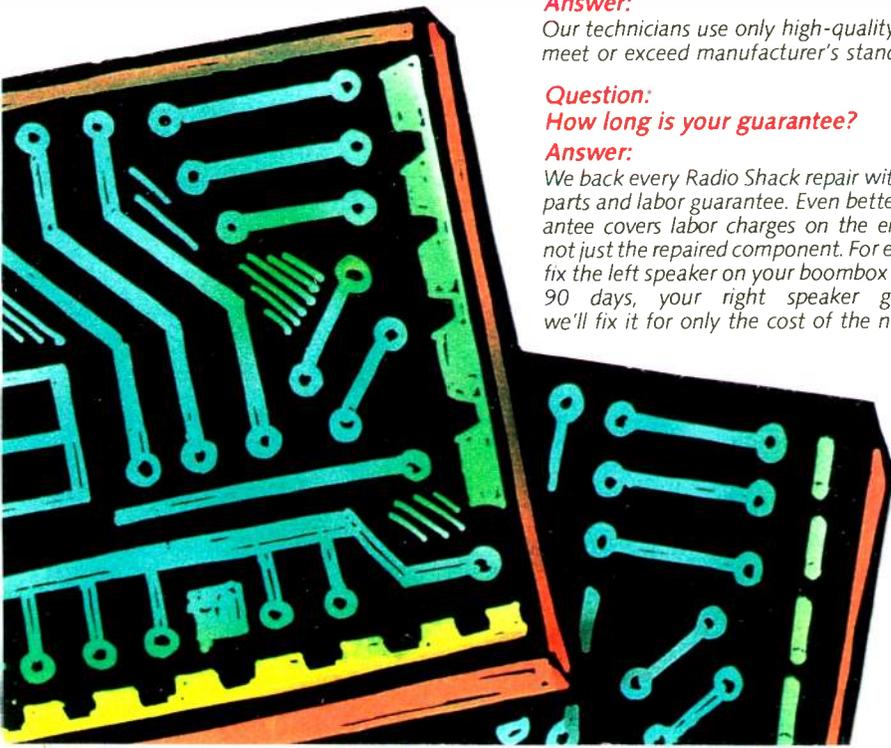
**Question:**  
*How long is your guarantee?*

**Answer:**  
We back every Radio Shack repair with a 90-day parts and labor guarantee. Even better, our guarantee covers labor charges on the entire unit—not just the repaired component. For example: we fix the left speaker on your boombox and, within 90 days, your right speaker goes out—we'll fix it for only the cost of the new parts.

- ACER
- AIWA
- APPLE
- AST
- AUDIOVOX
- BOSE
- CANON
- CASIO
- CERWIN-VEGA
- CITIZEN
- CLARION
- COMPAQ
- CRAIG
- EPSON
- FISHER
- GE
- GOLDSTAR
- HENRY
- HEWLETT-PACKARD
- HITACHI
- IBM
- JVC
- KENWOOD
- KODAK
- LASER
- MAGNAVOX
- MEMOREX
- MITSUBISHI
- OKIDATA
- OPTIMUS
- PACKARD BELL
- PANASONIC
- PHILIPS
- PIONEER
- RADIO SHACK
- RCA
- REALISTIC
- SAMSUNG
- SANSUI
- SANYO
- SHARP
- SHERWOOD
- SONY
- SYLVANIA
- TANDY
- TEAC
- TECHNICS
- TOSHIBA
- YAMAHA
- ZENITH
- ... AND MORE.

The Repair Shop at Radio Shack is a Service Center for These Out-of-Warranty Major Brands and Many More.

For Details Call:  
**1-800-THE-SHACK**



# EXPRESS ORDER

*It's Like Having a Superstore at Your Fingertips!*



## Computer software and hardware

Business, entertainment, education and more, we're adding new software to our collection regularly, for both PC compatibles and Macintosh® computers. And we have almost any computer peripheral or accessory you could imagine—from the best names in the industry (see page 192 for more details). From hard-to-find software titles to the latest state-of-the-art hardware, Express Order is THE source.

## Video games—the top names

Don't search all over town, or plunk down quarters at the arcade when the hottest games and equipment are available through Express Order. If it's for Nintendo®, SuperNES®, Sega Genesis®, GameBoy®, Game Gear® or other major manufacturers, count on us!

## Hard-to-find electronic equipment

Power adapters, chargers, even laser light pens! These are just a few examples of the hard-to-find parts you can find with Express Order. A glance at our in-store catalog's pages will show you hundreds of items that you never even knew you needed.

## Unusual/special-application batteries

If you know the battery you're looking for is going to be tough to find, don't sweat it! Express Order eliminates the hassle, and gets you powered up in no time.

## Music—digital compact cassettes and karaoke sing-along tapes

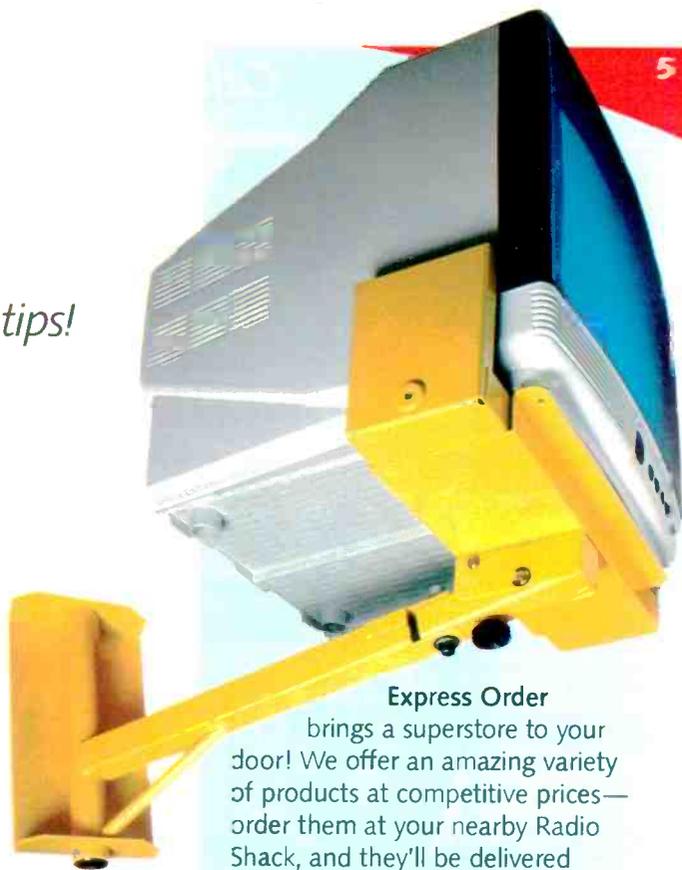
Express Order has hundreds of digital compact cassette and karaoke titles available! Whether you're into country or classical, rock or R&B, we'll help you get into the groove.

## Movies—Hollywood hits & cult classics

Catch your favorite stars—Express Order has a galaxy to choose from. If it's one of your favorite films, don't settle for a worn-out rental copy when you can own your own VHS tape.

## Sams Photofacts

Howard W. Sams & Co. provides the most timely and state-of-the-art technical data available, to help the service technician and the electronics hobbyist. Sams products and services include PHOTOFACT® service data, over 300 technical, computer, and special-interest book titles, custom technical publishing services, and catalog services. This information is used by engineers, technicians, students, hobbyists and teachers in virtually every electronic, industrial, and consumer market.



## Express Order

brings a superstore to your door! We offer an amazing variety of products at competitive prices—order them at your nearby Radio Shack, and they'll be delivered right to your home (or anywhere else in the U.S.\*). It's the ultimate in selection, the ultimate in convenience!

Visit our in-store display and see the choices Express Order has waiting for you—hundreds of new products are being added. You'll find the Express Order Catalog at participating Radio Shack stores and dealers. We'll help you find what you're looking for and place your order—it couldn't be easier!

\*Shipping procedures may vary at some dealer/franchise stores.



**CCT circuitry, 10 channels and 10-number memory**

**ET-507.** This top-quality cordless is loaded with "extras" you'll appreciate. It offers super-clear performance, thanks to static-cutting Advanced Super CCT circuitry and 10-channel operation that automatically seeks out the clearest channel. Digital security coding—a must for apartment dwellers—helps ensure that other cordless phone users in your area can't dial through your number. Other great features include 10-number memory, base-to-handset paging, redial and a flash button for use with services like Call Waiting and 3-Way Calling. Fits nicely on desktop or mounts on wall. There's also a backlit keypad for nighttime use, a volume-adjust button (normal/high), an LED low-battery indicator and a retractable rubber antenna. (TSP)

43-1012 ..... 129.99

**Upright with big buttons, CCT sound, 10 channels and 30-number memory**

**ET-493.** This space-saver features large keys and lighted keypad to make it easy to use—in the dark. Advanced Super CCT circuitry and 10-channel selector provide optimum sound quality. Handset volume control lets you adjust the volume to a personalized comfort level. Stands upright in charger. Flexible antenna resists breakage. We've also included base-to-handset paging, privacy button and LED low-battery indicator. (TSP)

43-575 ..... 129.99

# Radio Shack Cordless Telephones

All of our cordless telephones are designed and built to exacting specifications to make them better than the rest! Each is tested 40 different ways and must pass tough quality-control standards including temperature extremes, drop survival and "real-world" testing. Your satisfaction is guaranteed! In fact, we're so confident of our cordless phones that all are backed by a one-year limited warranty.



**Advanced Super CCT Circuitry.** Advanced Componder circuit that dramatically reduces static for sound that actually rivals many corded phones.

**Automatic Access-Protection Code.** An auto-set security code that helps prevent unauthorized access by other cordless phone users in your vicinity.

**10-Channel Operation.** Automatically seeks out the best of 10 different channels to deliver minimum interference and maximum performance.

**COM-LOK.** Ensures that other cordless phone users cannot use your phone line while the handset is on the base.

**Flash Button.** For easier use of phone company services like Call Waiting and 3-Way Calling.

**Cordless phone features reference chart**

Model	Cat. No.	Page No.	Style	Advanced Super CCT Circuitry	Multi-Channel Operation	Paging System	Low-Battery Indicator	Extended Battery Circuitry	Redial	Flash	Privacy	Memories	Ringer Volume Control	Handset Volume Control	Lighted Keypad	900 MHz	Intercom
ET-397	43-568	7	Trim	✓			✓	✓	✓	✓		9					
ET-441	43-573	7	Upright	✓	7	✓	✓	✓	✓	✓		20	✓				
ET-442	43-574	7	Upright	✓	10	✓	✓	✓	✓	✓		20	✓				
ET-474	43-569	8	Upright	✓			✓	✓	✓	✓	✓						
ET-493	43-575	6	Upright	✓	10	✓	✓	✓	✓	✓	✓	30	✓	✓			
ET-496	43-1001	7	Trim	✓			✓	✓	✓	✓			✓				
ET-497	43-1002	7	Trim	✓			✓	✓	✓	✓		10	✓				
ET-498	43-1003	7	Trim	✓	10	✓	✓	✓	✓	✓	✓	10	✓				
ET-501	43-1004	7	Upright	✓		✓	✓	✓	✓	✓							
ET-502	43-1005	7	Upright	✓		✓	✓	✓	✓	✓							
ET-504	43-1007	7	Trim	✓		✓	✓	✓	✓	✓	✓						
ET-505	43-1008	7	Trim	✓	10	✓	✓	✓	✓	✓	✓	3		✓			
ET-507	43-1012	6	Trim	✓	10	✓	✓	✓	✓	✓	✓	10		✓	✓	✓	
ET-900	43-1000	8	Trim	✓	60	✓	✓	✓	✓	✓	✓	10	✓	✓	✓	✓	✓
ET-904	43-1014	8	Upright	✓	100	✓	✓	✓	✓	✓	✓	2	✓	✓	✓	✓	✓
TAD-265	43-730	12	Upright	✓		✓	✓	✓	✓	✓	✓	11	✓	✓	✓		✓

Radio Shack cordless phones have standard modular plugs, are Touch-Tone/pulse dialing, and many include a wall-mountable base.



**NEW** CCT, 10 channels, 10-number memory

ET-498. Offers many of the latest advances in cordless phone technology. Advanced Super CCT circuitry and 10-channel operation combine to reduce noisy static and improve reception. There's also base-to-handset paging and auto-connect, which lets you answer a call without pressing any buttons. Also features last-number redial, flash button,

COM-LOK security coding. Hearing aid compatible. (TSP) 43-1003 . . . . 119.99



**NEW** CCT sound, fashion styling

ET-504. The elegant styling of the ET-504 really sets it apart from other cordless telephones. But its beauty isn't just skin-deep: it offers a full complement of features, including Advanced

Super CCT circuitry for super clarity, base-to-handset paging, plus last-number redial, flash and privacy buttons. (TSP) 43-1007 . . . . . 99.99



**NEW** CCT, 10 channels, 3-number memory

ET-505. An outstanding value, with Advanced Super CCT circuitry for static reduction, 10-channel operation that enhances reception, base-to-handset paging and even a volume control. Stores your choice of up to three telephone numbers for quick, convenient auto-dialing. Also features last-number redial, a flash button, plus a flexible

rubber antenna on the handset. (TSP) 43-1008 . . . . . 99.99



**NEW** CCT sound, 10-number memory

ET-497. Advanced Super CCT circuitry for clear sound, plus 10-number auto-dialing. The Automatic Access-Protection Code blocks access to your line—the codes are virtually impossible to crack because they change every time the handset is placed on the base! Hearing aid compatible for use with hearing aids that have a "T" (telephone) switch. (TSP)

43-1002 . . . . . 89.99



CCT, 9-number memory

ET-397. Advanced Super CCT circuitry for improved sound quality and greater effective operating range. Nine-number memory quickly dials frequently called numbers, touch-redial automatically calls the last number you dialed, flash button lets you more easily use special phone company services. Flexible antenna, security code. LED charging and low-battery indicators. (TSP) 43-568 . . . . . 79.99



**Budget-priced cordless**

ET-496. Our budget cordless is sure to please—it comes with great features at a great price! You get one-touch redial of the last number you've called, a 65,000-combination security code, which prevents others from using your phone line without your knowledge or permission. With telescoping antenna. LED charging indicator tells you when the phone is charging. (TSP)

43-1001 . . . . . 59.99



CCT, 10 channels, 20-number memory

ET-442. The handset stores upright in the charger, which means this attractive, full-featured cordless takes up less space than non-upright models. Advanced Super CCT circuitry and 10-channel operation combine for extra-clear reception. Has 20-number speed dialing memory, 65,000-combination auto-set security code, redial, flash button and base-to-handset paging. (TSP) 43-574 . . . . . 119.99



CCT sound, 20-number memory

ET-441. Advanced Super CCT circuitry clears static for great sound. 20-number memory. Also features base-to-handset Paging, last-number redial, a flash button for use with phone company services, plus a flexible rubber antenna on the handset. Was 99.99 in 1994 Catalog. (TSP)

43-573, New Low Price! . . . . . 89.99

**NEW** Value-priced upright cordless

ET-501. Thanks to the upright handset, this very affordable cordless phone fits almost anywhere. It's especially useful for anyone who lives in an apartment—the 65,000-combination auto-set security code randomly changes to prevent other nearby cordless phones from accessing your line. Last-number redial calls back the last number you dialed at the touch of a button. There's also a flash button for use with special phone company services like Call-Waiting and 3-Way Calling. Flexible rubber antenna on handset. The ET-501 is also compatible with hearing aids that have a "T" (telephone) switch. (TSP)

43-1004 . . . . . 59.99

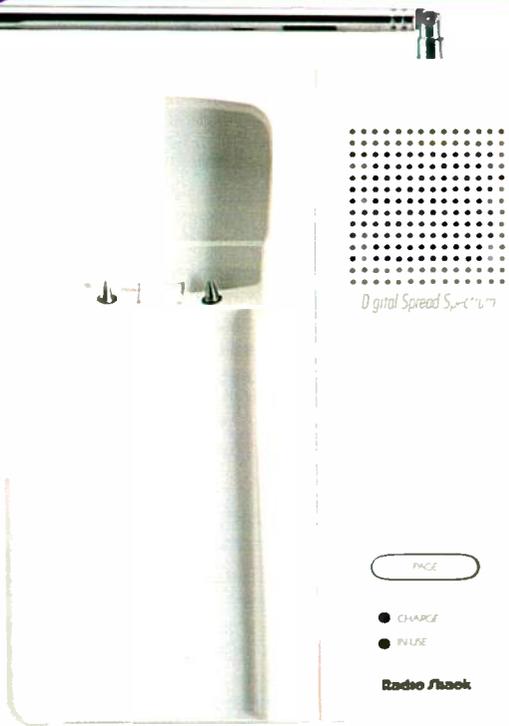


**NEW** CCT upright

ET-502. Our lowest-priced upright with Advanced Super CCT circuitry to reduce static and improve clarity. Digital Security Coding with 65,000 combinations. And it features base-to-handset paging, last-

number redial, a flash button for use with services like Call-Waiting and 3-Way Calling, plus a flexible rubber antenna on the handset. (TSP) 43-1005 . . . . . 79.99

# Our best cordless phones.



## **NEW** Digital Spread Spectrum

**ET-904.** This new 900-MHz cordless telephone features Digital Spread Spectrum—which gives exceptional sound and security. 900 MHz gives you increased clarity and greater range, 4 to 5 times that of conventional cordless phones. In fact, its range is so great that you can take the handset with you out of the house, working in the yard, visiting with neighbors. Now when you're expecting an important call, you're not tied to the phone, or even in the house waiting. A warning light will let you know when you have travelled too far from the base to receive calls. Even when you're far from the base, Digital Spread Spectrum ensures that you'll have interference-free conversations with no humming or buzzing. With automatic talk mode, answer a call just by picking up the phone from the base, no buttons to push. Other features include base-to-handset paging, redial, 2 memory buttons, 100 channels and total security, with 100,000 security code combinations. (TSP)

43-1014 ..... 299.99



## 900-MHz deluxe cordless

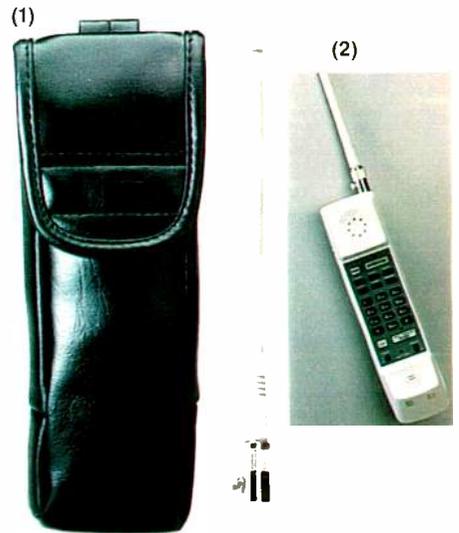
**ET-900.** Ultra-high-frequency 900-MHz band dramatically increases the range of the handset. Continuously scans 60 channels and selects the one with the least interference each time you make or receive a call. Advanced Super CCT circuitry and 900-MHz frequency deliver amazing sound quality over the extended range—it may actually sound *better* than your *corded* phones! The ET-900's 10-number speed-dialing memory lets you program frequently called numbers. Flash makes it easier to use special phone company services like Call Waiting and 3-Way Calling. Also with handset volume control, backlit keypad, 65,000-combination security code, tone/pulse dialing, ringer hi/lo/off control, in-use and low-battery LED indicators and base-to-handset paging and intercom. (TSP)  
43-1000 ..... 249.99



## Cordless headset phone

**ET-474.** Great for anywhere you need your hands while on the phone! You can answer and hang up from the ultra-lightweight headset with adjustable boom mike. Includes a new feature for '95: volume control. Handy belt clip gives you greater freedom of movement. Advanced Super CCT circuitry for sound that rivals corded phones. Also has convenient one-touch redial, flash button for use with special phone services, 64,000-combination auto-select security code and LED low-battery indicator. Hearing aid compatible. Tone/pulse dialing. (TSP) 43-569, 139.99

## Cordless phone accessories



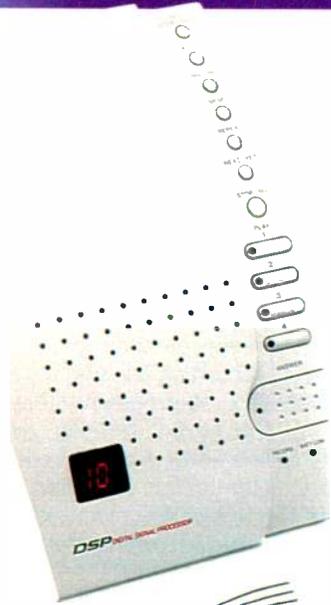
### Carrying case

(1) Added convenience for your cordless. Hooks on belt loop. Protects and provides hands-free carrying for most handsets. Soft black vinyl. 43-190 ..... 5.49

### Flexible antenna

(2) Replaces inconvenient, bent or broken telescoping antennas on most cordless handsets. No need to remove your existing antenna. 43-191 ..... 5.99

Radio Shack



**i Multi-user digital answerer**

**TAD-1000.** Perfect for roommates—lets up to four people receive and play back only their own messages. Or, specify different categories which callers can choose from. No tapes necessary, incoming and outgoing messages are recorded digitally, on a computer chip. Voice-assisted operation guides you through the set-up process. Each message receives a time/day stamp. Skip to the next message, or replay a message at the touch of a button. Remote operation offers full access to features from any Touch-Tone phone. Toll-saver helps cut long distance charges when retrieving messages. An LED indicator shows the number of messages received. Audio-output jack lets you transfer important messages to a tape recorder. Memory backup requires 4 "AA" batteries. (TSP)  
 43-740 ..... 119.99

# Hello, You've Reached Our Answering Machines!

*No more tapes! These digital answerers record both outgoing and incoming messages on a computer chip, ensuring super-clear sound quality. All Radio Shack answering machines offer outstanding quality and features—there's one that's right for you.*

Radio Shack



**i Digital answering machine**

**TAD-1001.** Completely digital—both outgoing and incoming messages are recorded on a computer chip. Voice assisted operation helps you program. With one touch, skip to the next message. Time/day voice stamp tells you when each message was received. Remote operation—a security code ensures that only you can retrieve your messages. Toll-saver saves on long distance charges when calling to retrieve messages. Memory backup requires 4 "AA" batteries. (TSP)  
 43-741 ..... 99.99



**i Low-cost digital answerer**

**TAD-1002.** All messages are recorded on computer chip in digital sound. The answerer automatically stops when any extension is picked up. Remote operation lets you call your machine to turn it on or off, change your outgoing message, retrieve messages and save or erase them from any Touch-Tone phone. With 2-way recording you can record a conversation. At the touch of a button, play, stop, fast-forward or repeat messages. Delete only selected or all recorded messages. 43-742 ..... 89.99

### Answering machine quick reference

Model	Cat. No.	Page	Remote Oper.	Toll Saver	Voice Time/Day Stamp	2-Way Record	Voice Assisted Oper	Auto-Reset	Announce-Only Mode	Memo	Digital Message Counter	LED Message Counter*	Room Monitor	Voice Mail	Call Screen/Monitor	Digital Outgoing Message	Digital Incoming Message	Models With Telephone				
																		Redial	Flash	Memory	Cordless	CCT
TAD-245	43-766	12	✓	✓										✓	✓				10			
TAD-253	43-763	12	✓	✓		✓		✓		✓	✓			✓	✓							
TAD-265	43-730	12	✓	✓		✓			✓	✓				✓	✓				10	✓	✓	✓
TAD-271	43-707	12	✓	✓	✓	✓		✓	✓	✓				✓	✓				20			
TAD-274	43-760	12	✓	✓	✓	✓			✓	✓			✓	✓	✓				20			✓
TAD-275	43-761	10	✓	✓				✓		✓	✓			✓	✓							
TAD-276	43-762	11	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓							
TAD-345	43-700	11	✓	✓		✓		✓	✓	✓				✓	✓							
TAD-346	43-703	11	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓							
TAD-510	43-750	10	ON					✓	✓	✓				✓	✓							
TAD-512	43-751	10	✓	✓				✓	✓	✓				✓	✓							
TAD-514	43-752	10	✓	✓					✓	✓				✓	✓							
TAD-515	43-753	10	✓	✓	✓				✓	✓				✓	✓							
TAD-516	43-754	10	✓	✓	✓	✓			✓	✓				✓	✓							
TAD-517	43-756	10	✓	✓					✓	✓				✓	✓							
TAD-539	43-765	12	✓	✓					✓	✓				✓	✓						✓	✓
TAD-1000	43-740	9	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓		✓					
TAD-1001	43-741	9	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓		✓					
TAD-1002	43-742	9	✓	✓		✓			✓	✓			✓	✓	✓		✓					

# Hold the phone—we've got more answerers.



**NEW** Touch-Tone remote control answerer

**TAD-516.** This slim, stylish answering system is packed with advanced features for ease of use. Beeperless remote operation lets you retrieve messages and control other functions from any Touch-Tone telephone. Digital voice technology lets you record your outgoing messages on a digital chip—no outgoing tape needed—for enhanced clarity of sound and detail. The time stamp uses the same digital sound to announce the time and day each incoming message was received. A memo feature lets you record and keep personal messages for future reference. Two-way recording lets you tape both sides of any phone conversation. A programmable security code helps prevent unauthorized remote operation. Call Screen-Plus lets callers enter a special code to alert you when it "answers". Monitor lets you listen to the sound of the room where the answerer is located from a remote location. Voice-activated recording stops the tape when the caller hangs up or after about 8 seconds of silence—helps you conserve tape space and avoid unnecessary time in playback. (TSP) 43-754 ..... 79.99



**NEW** Remote with digital message

**TAD-275.** This answerer's Touch-Tone remote operation lets you turn the machine on or off, retrieve, save or erase messages, or change your outgoing message from any Touch-Tone phone. Digital outgoing message ensures a clear recording of the message you leave for callers. Auto-reset stops recording and resets machine whenever you pick up the phone. Call screening lets you listen when a message is left. Also includes toll-saver. (TSP) 43-761, 59.99



Versatile dual-cassette answerer

**TAD-512.** Affordable and feature-packed! Remote operation announce-only mode for giving out information that doesn't require recording incoming messages. Toll-saver saves you long-distance fees by letting you hang up before the machine answers if you have no new messages. With programmable security code, dual-cassette operation, call monitor and auto-reset. (TSP) 43-751 ..... 69.99



Budget-priced dual-cassette

**TAD-510.** Enjoy convenient dual-cassette operation. Announce-only mode lets you set it to give out messages without recording incoming calls. Voice activation automatically stops the recording during silence to save on tape. Call screening lets you see who's on the line before you pick up the phone. Features auto-reset and remote turn-on. 60-second incoming message length. (TSP) 43-750 ..... 59.99



Micro answerer with remote

**TAD-514.** This small answerer is big on popular features! Remote control lets you use it from any tone phone. Toll-saver helps you save on long-distance fees. Call monitor lets you see who's calling before deciding to answer. Voice-activated recording stops taping after a few seconds of silence to conserve tape. Simple, single-microcassette operation, LED message counter. (TSP) 43-752 ..... 49.99



**NEW** Microcassette remote

**TAD-517.** Modern, compact design complements any decor. The remote-control feature lets you use most of the features from any Touch-Tone phone. Toll-saver helps save on long-distance charges. Functions include answer, rewind, play, fast-forward, memo, stop, erase and outgoing message record check. Call monitor lets you hear who's calling before answering. (TSP) 43-756 ..... 49.99



**NEW** Micro with day/time stamp

**TAD-515.** This single-microcassette system offers full-function remote control to let you operate the functions from any Touch-Tone phone. Toll-saver saves when you call long-distance to check your messages. Voice stamp announces the time and day each message was received. Voice-activated recording saves tape space and reduces blank spots. Call screening. (TSP) 43-753 ..... 59.99



**Dual-microcassette with voice mail**

**TAD-346.** Compact, feature-packed answerer lets you record an alternate message that can only be heard by using a special code—tell friends you'll be away from home without telling strangers. Dual microcassettes make it easy to save outgoing and incoming messages. Voice stamp feature announces the time and date that messages were received. Voice-activated recording saves tape space and eliminates blank spots on messages. Beeperless remote operation lets you call to hear your messages from any phone. A ring-select function lets you choose between immediate or delayed answering, and with the toll-saver feature, you can save when you check long-distance: delayed answering indicates there are no messages, immediate answering shows a message has been left. 2-way recording lets you record both sides of a conversation. Memo lets you record personal messages. Announce-only setting lets you send out announcements without recording a caller's message. (TSP) 43-703 ..... 99.99



**Dual-microcassette with beeperless remote**

**TAD-276.** Remote operation from a Touch-Tone phone when away from home or office. Remote answerer takes calls from another phone. Voice stamp announces time and date messages were received. Dual outgoing announcements—plays when incoming tape is full or lets you give information without recording messages. With call screening, toll-saver, room monitor, memo and 2-way recording. (TSP) 43-762 ..... 89.99



**Voice mail lets you leave special messages**

**TAD-345.** Records two announcements—a standard message, and a personal message only friends and family can hear by using a special code. Compact design uses dual microcassettes—voice activation saves tape by recording only when someone's speaking. Memo and 2-way recording for added versatility. Beeperless remote operation, toll-saver. Room and call monitors. (TSP) 43-700 ..... 79.99

**Message tapes**



**Blank incoming and outgoing tapes**

Size	Type	Recording Time	Cat. No	Each
Cassette	Announcement, Endless Loop	15 Seconds	43-403	4.99
Cassette	Announcement, Endless Loop	20 Seconds	43-401	4.99
Cassette	Announcement, Endless Loop	30 Seconds	43-402	4.99
Cassette	Announcement, Endless Loop	60 Seconds	43-406	4.99
Cassette	Announcement, Endless Loop	3 Minutes	43-407	4.99
Cassette*	Announcement, Endless Loop	20 Seconds	43-414	5.99
Cassette	Announcement, Leaderless	30 Sec./Side	43-435	2.99
Cassette	Announcement, Leaderless	90 Sec./Side	43-436	2.99
Cassette	Announcement, Leaderless	5 Min./Side	43-439	2.99
Message	Leaderless	30 Min./Side	43-410	2.39
Message	Leaderless	45 Min./Side	43-411	2.49
Micro	Announcement, Message	15 Min./Side	43-412	3.59
Micro	Announcement	7½ Min./Side	43-409	3.49

\*For use with PhoneMate only.



**Custom outgoing answer tapes**

**Musical Madness.** Memorable musical greetings like '50s pop, rap rhyme, western song, holiday greetings, more. 43-423 ..... 5.99  
**NEW! Celebrity House Guest by Rich Little.** Let America's foremost impressionist answer your phone with 10 celebrity voices, including Madonna, Bart Simpson, Clint Eastwood and Elvis! 43-424 ..... 5.99  
**NEW! Professional Receptionist.** Delivers 10 professional messages for business and offices. Includes voice mail, "after hours", "overwhelming response", "take the order", more 43-425, 5.99  
**NEW! Radio Shack Phonies: Comedy II Edition.** Here's a great series of 10 "gag answers", including a Senate Hearing, car mechanic, the "house computer", and others. 43-426 ..... 5.99



**Demagnetizer/cleaner**

Keeps outgoing and incoming messages crisp and clear for years. Comes with demagnetizer cassette, probe, mirror, solution. 44-1167 ..... 5.99



**Microcassette cleaner**

Cleaning kit helps keep your microcassette-type answerer operating like new. Includes cleaner, probe, mirror and solution. 44-1168 ..... 5.99

# Combination phone/answerers.



## Our best combination cordless

**TAD-265.** Deluxe cordless phone and feature-packed answering machine in one! It's a high-quality cordless with advanced noise-reduction system, 10-number memory, last-number redial, base-to-headset paging, intercom and charge indicator. Answerer has remote operation capabilities, toll-saver, call monitor, call screening, memo and two-way conversation recording. VOX operation helps conserve tape. You can even operate the answerer from the phone handset. Auto-call dials a telephone or pager number of your choice to let you know that you have received a message. (TSP) Enjoy hands-free with optional headset, (43-731), available through Special order (CMC).  
**43-730 ..... 199.99**

# Space Saving

*These quality telephone/answerer combination units offer everything you need—all in one neat package.*

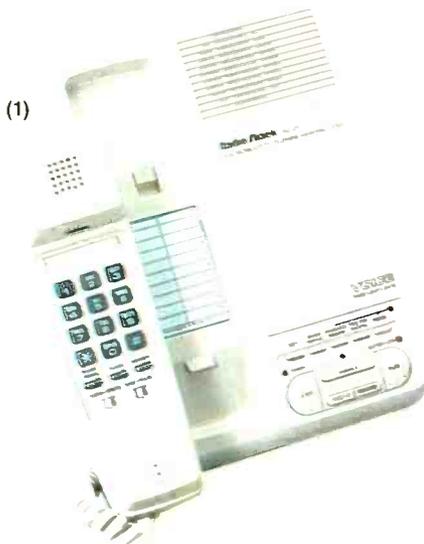
*Radio Shack answering machines offer outstanding quality and features. And with so many to choose from, all with a wide range of built-in functions, you're sure to find one that's right for you—at home or the office!*

*Find yourself getting tangled in a jungle of cords? Phone/answerer combos eliminate the need for two separate machines.*

## Deluxe answerers with time/day voice stamp and built-in phone

**(1) TAD-271.** Phone has 20-number memory, flash and redial. Time/day/date voice stamp tells you when each message was received. Toll-saver saves on long-distance charges when retrieving messages. The TAD-271 also has call monitor, memo recording, announcement-only mode, auto-reset and two-way conversation recording. (TSP)  
**43-707 ..... 129.99**

**(2) TAD-274.** Compact and convenient. Answerer records your outgoing message on a computer chip. Also features time/day voice stamp, voice-activation to save tape, plus memo and two-way recording. Phone has 20-number memory, redial, hold and flash, for use with special services like Call Waiting and 3-Way Calling. (TSP) **43-760 ..... 119.99**



**NEW** **TAD-253.** Digital outgoing message, recorded on a computer chip. Phone features redial, flash, tone/pulse dialing and more. Answerer with message counter, memo, toll-saver, and voice-activated recording. Remote message retrieval from any Touch-Tone phone. (TSP) **43-763 ..... 89.99**

**NEW** **TAD-245.** Outgoing message recorded on a digital chip. Telephone's memory stores up to 10 numbers for speed dialing. Answerer has remote operation, call monitor and auto message save. A flashing LED lets you know when you have received calls. (TSP) **43-766 ..... 89.99**

**NEW** **TAD-539.** Trim Euro-style system uses a single outgoing/incoming message microcassette. LED indicates the number of messages. Voice activation saves tape—stops recording when caller stops speaking. Remote operation, call screening and one-touch playback. (TSP) **43-765 ..... 69.99**

(1)



**NEW** Phones with built-in Caller ID

(1) **Caller ID 1000.** If you subscribe to Calling Number Delivery service from your phone company, this phone can tell you who is calling you before you even answer the call. Multi-function Caller ID display will show one of the following: the name of the caller, the phone number of the caller or the reason for the absence of one of these messages, such as "out of area". The phone has three memory buttons for frequently called numbers and a clock built in. The long distance Caller ID redial function stores up to 32 digits. Local Call Back automatically dials last seven digits of a local number in Caller ID mode. Requires 4 "AA" batteries. (TSP) 43-965 ..... 79.99

(2) **Caller ID 660.** This multifeature phone is loaded! You get speakerphone, redial, flash and on-hook dialing. It stores up to 22 phone numbers for fast dialing and is equipped with Caller ID display with recall, clock and call timer. The Caller ID memory stores up to 99 incoming phone numbers or 47 incoming names and numbers. Requires 4 "AA" batteries. (TSP) 43-955 ..... 99.99

(2)



**NEW** Caller ID System 320

If you subscribe to Caller ID service from your phone company, you can simply connect this display device to any phone. When you receive a phone call, the display will tell you the number from which the call originates, or in some areas the number and the name of the caller. The memory stores up to 99 number-only calls or 75 name and number IDs. Requires 4 "AAA" batteries. (TSP) 43-957 ..... 69.99



**NEW** Caller ID System 50 with clock

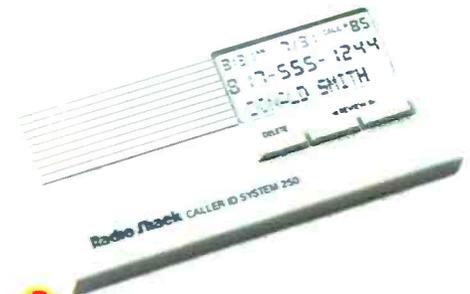
Low-cost solution to annoying calls. After the first ring, the 10-character display on this Caller ID system will show the number or name and number of the person calling. When you've been out of the house, you will be able to see who called you last, and what time they called. Great for extension phones. Requires 4 "AAA" batteries. (TSP) 43-960 ..... 39.99

**Question:** What is Caller ID?

**Answer:** It is a service which identifies where all calls to your phone number originate. Caller ID devices allow you to read this information, so you can tell who's calling before even picking up the phone.

**Question:** How do I get Caller ID?

**Answer:** In order to use Caller ID devices, you must subscribe to Calling Number Delivery service, available in most areas through your local telephone company. With Calling Number Delivery service from the phone company and a Caller ID device, you can see the phone number and/or the name of the person calling, without even picking up the phone. If a call originates in an area where Calling Number Delivery service is not yet available, the screen will read "OUT OF AREA". Depending on the type of local service available, the display will show the caller's name, number or both.



**NEW** Caller ID System 250

The extra-large 3-line display gives you lots of information, including callers' names and numbers and the time and day they called. Also indicates when a new call has been received or when a call comes from an area without Calling Number Delivery service. Stores up to 85 number or name and number call IDs. You can review the list at any time. Requires 9V battery. (TSP) 43-956 ..... 89.99



**NEW** Caller ID System 40

Protect your family's privacy. The system is quick and easy—installs in seconds. Simply plug into your phone and the wall jack and it's ready to go to work. 10-digit display. Press the scroll button to see more information. Stores ID information from the last call to your line. Put one on every phone in the house! Requires 4 "AAA" batteries. (TSP) 43-961 ..... 39.99

Caller ID Device Features

Unit	Memory			Indicators			
	Single	Multiple	Scroll	New Call	Out of Area	Private Call	Total Call Count
System 40 43-961	1	1	yes	no	yes	yes	no
System 50 43-960	1	1	auto	no	yes	yes	no
System 250 43-956	85	85	no	yes	yes	yes	no
System 320 43-957	99	75	yes	yes	yes	yes	yes
Caller ID 1000 43-965 (built-in phone)	1	1	yes	no	yes	yes	no
Caller ID 660 43-955 (built-in phone)	99	47	yes	yes	yes	yes	yes

Calling Number Delivery service not available in all areas, check with your phone company or your local Radio Shack.

# Feature-packed phones from Radio Shack.



**NEW** It's more than just a telephone—it's a personal assistant!

ET-210 200-memory speakerphone with name and number directory. You won't find a telephone with such incredible versatility at such a low price! It's an important communication tool for business or home use. Seven-digit LCD screen shows the name and number dialed of the person called. And it's also a handy desk clock with easy-to-read digital readout. Three instant-dial direct-memory numbers are invaluable for storing emergency or your most-frequently dialed numbers. Plus, there's a huge memory that stores 197 other names and numbers with up to 32 digits each. Full-alphabet keypad for easy telephone programming and extra-fast data entry. Hands-free speakerphone lets you type, take notes or do household chores while you talk on the telephone. Plus the speakerphone has a volume control for adjusting to comfortable conversation levels. "Privacy" button allows you to confer with other parties in the room or make "aside" comments during conference calls. Auto-redial recalls the last number dialed up to ten times if the line is busy or the telephone is not answered. Flash button for use with Call Waiting or other special features. Includes a built-in battery test with low-battery LED indicator. Requires 2 "AA" batteries. (TSP)

43-623 ..... 99.99



Seven-digit display shows the name of the person called, the number that was dialed and the present time.



**NEW** LCD screen shows call length

ET-189. 90-memory speakerphone designed for the modern home or business. Ten-digit LCD screen shows the number dialed, time of day and call duration on its easy-to-read digital display. 30 instant-dial direct-memory numbers are perfect for storing frequently called numbers. And there's memory storage for 60 additional numbers with up to 31 digits each. Handy pull-out tray for easy name/number reference. Built-in timer documents call length for record-keeping purposes. Hands-free speakerphone with volume control to adjust for comfortable conversation levels. "Privacy" button allows local conference or "aside" comments during calls. Auto-redial recalls the last number dialed up to ten times if the line is busy or unanswered. Flash for Call Waiting or other phone company services. Built-in battery test with low-battery LED indicator. Requires 2 "AA" batteries. (TSP) 43-619 ..... 79.99



**20-number speed dialer**

Radio Shack 148. You'll wonder how you ever lived without the convenience of programmable speed dialing! 20-memory speed-dialing speakerphone features a convenient name and number directory located right on top of the base. The perfect addition for busy homes. Hands-free speakerphone lets you take notes or do household chores while you talk on the telephone. With the "privacy" button you can make discreet "aside" comments during calls. One-touch last-number redial. Selectable pause/flash lets you insert a pause for speed-dialing, using long-distance services or for services like Call Waiting. Off/lo/hi ringer lets you adjust the ringer volume to a desired level—great during baby's nap time. Hearing-aid compatible. Mounts easily on wall. Built-in battery test with low-battery LED indicator. Requires 2 "AAA" batteries. (TSP) 43-612 ..... 69.99



**20-number voice dialing**

Radio Shack 600. Advanced voice-recognition circuitry makes it easy to call up to 20 different people—just by speaking their name! Plus, it has an additional directory for speed-dialing 50 additional numbers. Three single-touch memory keys are invaluable for storing emergency numbers. Security "locks" protect privacy of your directory and prevent outgoing calls (except for the three emergency numbers). Easy-to-read, four-position adjustable LCD shows the time, date and elapsed time of call. Display option buttons help with telephone programming, finding numbers fast and data entry. Adjustable ringer volume. Microphone mute button allows discreet conversation. Redial recalls the last number dialed if it was busy or unanswered. Telephone line status indicator. Flash/hold feature for use with Call Waiting. Desk/wall mount. Requires 4 "AAA" batteries. (TSP) 43-650 ..... 139.99

## Our best 4-line phone

**System 412.** Handles four incoming lines and expands to ten stations. Line-usage LEDs tell you which lines are free, in-use, ringing or on hold. Built-in two-way intercom lets you call or page a station—through built-in speakers. Do Not Disturb button prevents untimely interruptions. Line-lock button for privacy. Individual line-ringer controls at each station. "Extras" include 20-number redial with handy slide-out reference tray. Automatic redial functions. Requires "9V" battery. (TSP)

43-460 . . . . . Per Phone 179.99

## 4-line expandable phone

**System 411.** Why pay rent when you can own it? Economy-minded four-line business phone expands to twelve stations, plus full Centrex/PABX compatibility. Line-usage LEDs show status of each line. Built-in two-way intercom with paging speaker lets you call or page a station without additional wiring. Do Not Disturb button for privacy. Individual line-ringer controls for each station. Flash for special services like Call-Waiting. With hold and last-number redial. Desk or wall mount. Requires "9V" battery. (TSP)

43-456 . . . . . Per Phone 129.99

## 2-line with intercom

**System 208.** Handles two incoming telephone lines and expands to five stations. Each line has individual ring tones and ring-volume control. Two-way intercom lets you page one or every compatible station at once. Line-usage LEDs tell you which lines are free, in-use, ringing or on hold. Also features last-number redial, 20-number memory storage with basetop reference list. Temporary Touch-Tone dialing allows you to use tone-access services like banking or reservation services from a rotary line. Requires 2 "AAA" batteries. (TSP) 43-616 . . . . Per Phone 99.99

## 2-line speakerphone

**System 209.** Hands-free speakerphone with two incoming phone-line capability. Expands to five stations. Speakerphone lets you perform other tasks while you talk. Two-way intercom lets you page one or every compatible station at once. Line-usage LEDs indicate lines in use, on hold or free. Last-number redial, plus speed-dialing of up to 20 numbers stored in memory with battery backup. Basetop reference list. Hearing-aid compatible. Requires 2 "AAA" batteries. (TSP) 43-617 . . . Per Phone 119.99

## BUZZ WORDS

**MULTIPHONE SYSTEM.** A system of several phones with compatible features for line indicator status and intercom. Our affordable "system" phones are perfect for growing businesses.

**AUTO-REDIAL.** Redials a busy or unanswered number 10 times or until answered.

**CONFERENCE CALLING.** Allows you to call two different numbers for a 3-way conversation.

**INTERCOM.** Lets you talk with someone at an extension telephone.

**LINE-STATUS LEDS.** Lights that indicate when telephone lines are in use, ringing or on hold.

**SPEAKERPHONE.** Built-in speaker for hands-free 2-way conversations and "whole family" calls.

### Phone system compatibility chart

Model	System 208	System 209	System 411	System 412
System 208	✓	✓	✓	NC
System 209	✓	✓	✓	NC
System 411	✓	✓	✓	NC
System 412	NC	NC	NC	✓

✓ = Line Status indicators and Intercom features are compatible  
NC = Not Compatible

## Lighted keypad 2-line

**ET-293 Trim-Fone®.** Compact phone has large lighted buttons for easy dialing in low-light/no-light situations. Handset has built-in amplifier with rotary volume control right where you need it. Plus conference call feature, hold button, separate hold and ring LEDs, and separate hi/lo/off ringer controls for each incoming line. Last-number redial. Desk or wall. (TSP) 43-622 . . . . . 59.99

## 2-line speed dialer

**ET-142.** Two incoming-lines and speed-dialing convenience for 20-numbers. Big buttons for easy use. Has hold, LED ring and hold indicators, distinctive ringer tones and hi/lo/off ringer control for each line. One-touch, last-number redial. 20-memory index card. Hearing-aid compatible. Requires 2 "AAA" batteries. (TSP) 43-640 . . . . . 69.99

## Traditional-style

**ET-181.** Standard desk phone with two-line capability. Status LEDs show lines in-use, free, holding or ringing. Each line has specific ring tone and hi/lo/off control. Last-number redial. Hearing-aid compatible. (TSP)

43-470 . . . . . 49.99

# The basics: features, selection, reliability.



(1)

**NEW** **Amplified receiver and built-in adjustable equalizer**

(1) ET-145. A 4-band equalizer (EQ) and Digital Signal Processor make this special phone incredibly adaptable to a wide range of individual hearing needs! Four adjustable EQ controls let you customize sound, from high to low tones, to suit your hearing. When others use the phone, an on/off button makes it easy to cancel and return to EQ mode. Booster cleanly amplifies handset volume by up to 20 dB. Low-tone ringer is easy to hear for people with high-frequency hearing loss. Visual ringer indicator lights up when phone rings. Has 3-number speed-dial memory, last-number redial, low battery LED for booster backup. Ringer volume hi/lo/off. (TSP) 43-598 ..... 99.99



(2)

**Speed-dialer for desk or wall**

(2) ET-143. A smart choice for busy homes or offices. 20-number speed-dialing memory and personal directory help save time. Hold button with LED indicator, flash button for Call Waiting and 3-Way Calling, one-touch last-number redial. (TSP) 43-596 ..... 49.99



(3)

**NEW** **Desktop in almond or beige**

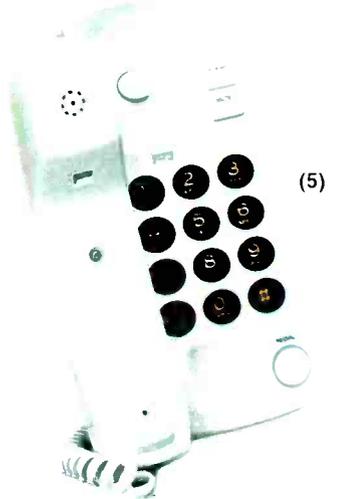
(3) ET-182. This sturdy tone/pulse desktop telephone comes with last-number redial, hold ringer hi/lo/off. (TSP) Beige, 43-471. Almond, 43-472 ..... Each 39.99



(4)

**NEW** **Classic-look desk phone**

(4) ET-165. This rugged, dependable model comes with last-number redial, top-mounted pulse/tone selector and adjustable volume for its distinctive double-gong bell. (TSP) Available Oct. 30, 1994. White, 43-843. Black, 43-846 ... 49.99



(5)

**Attractive, popular Slim-Fone®**

(5) ET-177. Sleek-looking and space-saving on a desk; can be wall-mounted, too. Flash button for use with Call Waiting and 3-Way Calling Services, last-number redial, mute button for privacy. Hi/lo/off ringer. (TSP) 43-583, 29.99



(6)

**NEW** **Tough, standard wall-mount**

(6) ET-195. Designed for the wall, this phone's ample cradle holds handset securely and makes it easy to hang up. Last-number redial, tone/pulse switch and volume control for its single-gong bell. (TSP) Available Oct. 30, 1994. White, 43-842. Almond, 43-841, Each 49.99



(7)

**NEW** **Stylish compact for desk, wall**

(7) ET-274. Won't crowd your desk and looks great on a wall. Oversize buttons make dialing easy. Has flash for use with Call Waiting or 3-Way Calling services. In-use LED indicator, redial, ringer hi/lo/off. (TSP) 43-594, 29.99



(8)

**Compact with 20-number memory**

(8) ET-144. We've packed a lot into this one! Features three one-touch priority numbers, plus a 17-number memory. Also has redial of a busy number, hold, flash. Ringer hi/lo/off. Desk or wall. (TSP) 43-597 ..... 39.99



(1)

**Sleek big-button phone has a fun look with colorful accents**

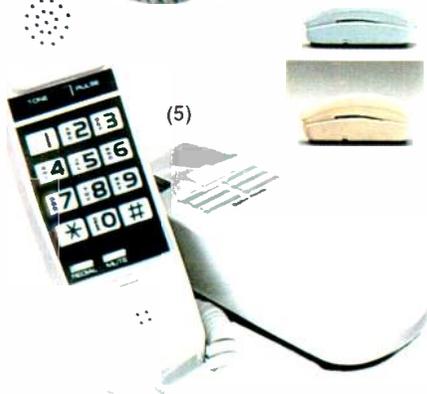
(1) ET-208. This easy-dialer includes colored buttons for flash, hold and last-number redial. LED hold indicator, ringer on/off control. Desk or wall. (TSP) 43-807 ..... 34.99



(3)

**Bold styling in black or white**

(2) ET-205. Pick the one that works best with your decor. Buttons for flash, last-number redial and hold. Has LED hold indicator, ringer hi/lo control. Desk or wall. (TSP) White, 43-802. **NEW!** Black, 43-812 ..... Each 39.99



(5)

**Amplified handset & convenient 13-number speed-dial memory**

(3) ET-206. We've combined the convenience of one-touch priority dialing of three numbers, plus 10-number memory and amplified handset with adjustable volume. Last-number redial and hold with LED. Desk or wall. (TSP) 43-804 ..... 49.99

**Amplified handset and volume control for easy listening**

(4) ET-207. Set the sound level to suit you—it's ideal for noisy places or people with hearing difficulty. Hold with LED indicator last-number redial, ringer hi/lo/off. Desk or wall. (TSP) 43-806 ..... 44.99



(2)



(4)

**Big-button Slim-Fone**

(5) ET-303. We've packed easy-dialing big buttons into this little phone, as well as other popular features. Has one-touch last-number redial, mute button for privacy, handset hang-up button. Ringer hi/lo/off. Desk or wall. (TSP) White, 43-908. Almond, 43-909. Blue-gray, 43-910 ..... Each 15.99



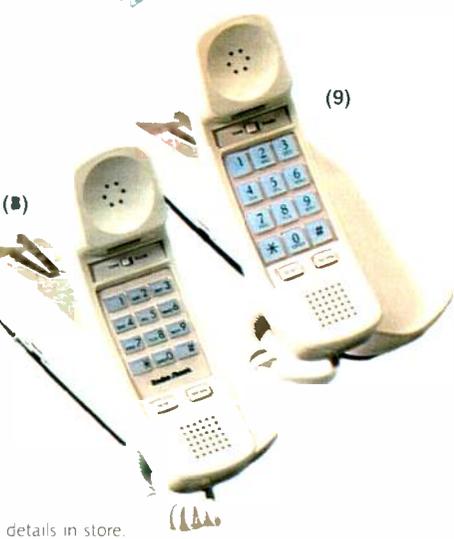
(6)

**Trim-Fone® with oversize buttons**

(6) ET-273. A style favorite. Buttons are a bit bigger for easier dialing. Last-number redial flash button, ringer on/off. Desk or wall. (TSP) White, 43-591. Almond, 43-592. Black, 43-593. Blue-gray, 43-599 ... Each 24.99

**20-number speed-dialing & more**

(7) ET-283. Loaded with extra features. Memory stores up to 20 numbers for time-saving speed-dialing. Keypad is lightec for easy dialing in low or no light. Last-number redial, flash button. Ringer on/off switch. Desk or wall. (TSP) White, 43-588. Almond, 43-589 ..... Each 34.99



(9)

**Basic Trim-Fone in 3 colors**

(8) ET-290. This popular model has lightec keypad, last-number touch-redial, bell on/off. Desk or wall. (TSP) White, 43-585. Almond 43-586. Gray, 43-587. **NEW!** Ultra-White, 43-584 ... Each 29.99

**Amplified-handset Trim-Fone**

(9) ET-501. Handset amplifier has adjustable volume control. Features a lighted keypad. touch-redial of last number called. Desk or wall. (TSP) 43-805 ..... 39.99



(7)

# Phones that look as good as they perform.



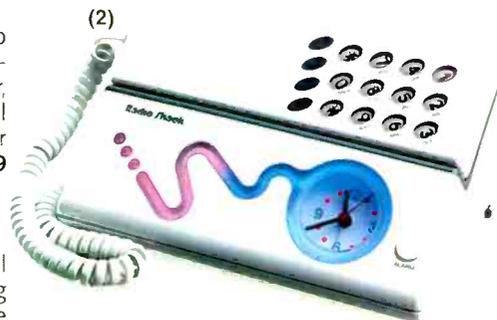
(1)

### Starship Hemisphere™

(1) Futuristic design makes this a fun phone to have in your home. It's loaded with convenient features such as hold with LED indicator, flash button for use with services like Call Waiting, last-number redial and mute. Ringer hi/lo/off switch. (TSP) 43-832 ..... 39.99

### NEW Neon Squiggle phone

(2) Fashionable desktop phone with colorful neon accent surrounding a built-in analog alarm clock. Features on-hook dialing, mute button, last-number redial and flash button for use with special phone services like Call Waiting. (TSP) 43-834 ..... 59.99



(2)

### Contempra™ II phone

(3) One-piece vertical design saves space on your desk or nightstand. Features one-touch last-number redial, flash button for use with special phone company services, and mute button. Lighted keypad is easy to dial in the dark. Ringer on/off. (TSP) 43-827 ... 29.99



(3)

### Seashell™ decorator phone

(4) A distinctive alternative to the "usual" phone. Compact fold-up design takes up less space on counter or desk than a paperback book. Kids especially love it. Has a mute button and one-touch redial of last number called. (TSP) 43-830 ..... 24.99



(4)

### NEW Monte Carlo phone

(5) Uniquely styled round phone will look great on any desk. Black with contrasting burgundy handset and buttons. Features flash button for use with special phone services, mute button and last-number redial. Ringer hi/lo/off control. (TSP) 43-836 ..... 39.99



(5)

### Tudor™ phone

(6) Great looks, practical features and low-profile design combine to make this a very popular phone. Has a flash button for use with special services, LED ring indicator and one-touch redial of last number called. Ringer on/off switch. (TSP) 43-818 ..... 27.99



(6)

### NEW Fairmont™ phone

(7) A stylish phone that will add a touch of class to your desk. Has a flash button for use with Call Waiting, 3-Way Calling or other special services. Also features last-number redial and hold indicator. Ringer on/off. (TSP) Hunter green, 43-839 Available Sep. 30, 1994. Ash, 43-840 Available Oct. 30, 1994. .... 39.99



(7)

### NEW Samantha™ phone

(8) Mounted on a wall or sitting on a desk, this is one attractive phone with plenty of features. Has last-number redial, flash button for use with special phone services and mute button. Also features a lighted keypad for easy dialing. Ringer hi/lo/off switch. (TSP) Available Oct. 30, 1994. 43-849 ..... 34.99



(8)

(1)



### Diana™ phone

(1) Tasteful, granite-look finish adds a distinctive, modern touch. And we've built in all the most-wanted features: flash button, hold with LED indicator, last-number redial and ringer hi/lo/off control. (TSP) 43-384 . . . . 34.99

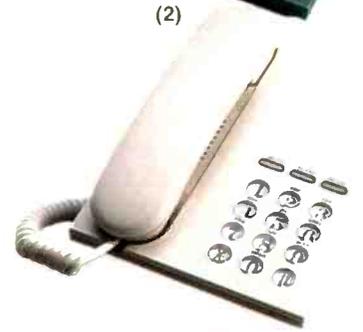
### Signature™ phone

(2) Elegant phone is sleek and only 7/8" thin. Looks good on desk or wall. Flash button for use with special phone services, mute button and last-number redial. Ringer on/off. (TSP) Black, 43-822. Eggshell, 43-823, Each 39.99

(2)



(2)



(3)



### NEW Utopia™ phone

(3) A dramatically styled phone for a touch of excitement. Features a flash button for use with Call Waiting and 3-Way Calling, mute button, one-touch redial of last number called. On/off ringer control. (TSP) 43-833 . . . 34.99

### North Park™ phone

(4) A big-button phone with colorful accents that make it really stand out. Hold button with LED indicator, flash button for use with special phone services, last-number redial, mute button. Ringer hi/lo/off. (TSP) 43-831 . . . . 39.99

(4)



(5)



### NEW Midnight II™ phone

(5) Dramatic black design. Features three one-touch priority dialing memories plus speed-dialing of 10 additional numbers. Hold button with LED, one-touch redial, flash button, mute button. Ringer hi/lo/off. (TSP) 43-829, 39.99

(6)



### NEW Worthington phone

(6) Black finish with bright green numbers under clear acrylic buttons. Features flash button for use with special services, mute button, last-number redial, hold button with LED indicator. Ringer hi/lo/off. (TSP) 43-844, 39.99

(7)



### High Park™ phone

(7) Sleek, low-profile design and big buttons that are easy to see and dial. Hold button with LED indicator, flash button for use with services like Call Waiting, mute button, one-touch last-number redial. (TSP) 43-828 . . . . 39.99

### Clear Mini-Fone

See the quality! A compact one-piece phone with colorful components and a light that flashes when it rings. It's a unique conversation piece. Set it on desk or mount it on wall. Ringer on/off switch. (TSP) 43-817, 17.99



### NEW Dial-Talk™ talking phone

Says the numbers out loud as you dial. Ideal aid for people who are vision impaired. Helps small children dial in an emergency. Features a flash button, and last-number redial. Talking on/off and ringer on/off buttons. (TSP) 43-838, 49.99



### NEW Nova Scotia

Classic styling combined with modern features. LED flashes when phone rings. Mute button, one-touch redial, flash button and hold button with LED. (TSP) 43-835, 39.99





## Cordless headset phone

**ET-474.** Super convenience—you can answer and hang up the phone from the ultra-lightweight headset. With

volume control, redial, flash, privacy button and handy belt clip. Advanced Super CCT circuitry gives you great sound quality. (TSP) 43-569 ..... 139.99

## On-the-ear headset

This device makes any phone more flexible—lets you keep working while you talk. Maintains the same clarity and sound quality as your regular phone handset, and even includes a feature to help reduce background noise and volume mute button. Does not disable the handset. (TSP)

43-182 ..... 79.99



## Headset phone

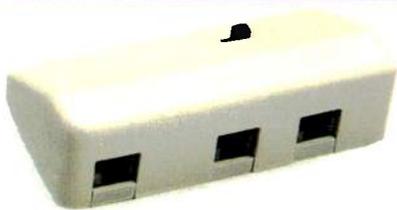
It is a complete phone, with feather-light headset, hold button with LED reminder, redial and ringer control. The earpiece can be worn on either ear

and has an incoming volume control. You can temporarily disconnect from the line without removing the headset. (TSP) 43-590 ..... 49.99

## Hands-free headset

Attach to any telephone for easy, hands-free operation. Lets you use all of the features of the phone, plus has its own volume control and mute

button. Designed for maximum comfort—adjustable headband, flexible boom mike and lapel clip. Requires 4 "AA" batteries. (TSP) 43-192 ..... 49.99



## Two-way telephone line switch

Let you connect two different phone devices to the same telephone line and easily switch between them. Let your phone and fax or phone and a modem share a line. Installs easily in a matter of seconds—simply plug it in. 43-432 ..... 12.99



## Handset amplifier

Fits all phones with modular handset cords. Boosts incoming sound. Volume control. Requires "9V" battery.

43-237 ..... 19.99



## Portable listener

Boosts incoming voice so others can hear the conversation. Requires "9V" battery or AC adapter.

43-231 ..... 9.99



## Shoulder rest

Frees your hands. Easy to install on most handsets. Padded and adjustable for comfort. 43-119 ..... 5.49



## Phone amp

This two-way phone amplifier turns any regular phone into a hands-free speakerphone for family and conference calls. Phone-line powered, no batteries necessary.

43-200 ..... 29.99



## Snap-on amp

Snap onto any handset to boost incoming sound. It's compact enough to carry with you everywhere. Requires "N" battery.

43-229 ..... 10.99



## In-use indicator

Instantly lets you know when a phone line is in use. Helps eliminate needless conversation interruptions. Requires "9V" battery. 43-108, 12.99



## Fone Flasher 2

See your phone ring! Activates a built-in strobe light and ringer when the phone rings. Selectable ringer, flasher and combo modes. Plugs into a modular jack. UL listed AC.

43-178 ..... 29.99



## Fone Flasher

You'll never miss a call again! This device actually turns a lamp on and off when the phone rings. Can handle incandescent lamps up to 300W. Easy plug-in hook-up. UL listed AC.

43-177 ..... 14.99



## Mini Fone Flasher

The perfect solution for offices and other areas with numerous telephones. A light flashes to show which phone is ringing—no more confusion. Phone-line powered. 43-179 ..... 8.99



## Voice-activated tape recorder control

Plugs into a modular jack and into the jacks of most cassette recorders. Requires 4 "AA" batteries. 43-263 .... 34.99



## Single-phone tape control

Plugs into a modular jack and into a tape recorder. Tapes both sides of a phone conversation. Keep an accurate record of calls. Perfect for interviewing over the phone. 43-228 .... 19.99



## Multi-phone tape control

Attaches to one phone and recorder, but is activated when the receiver of any extension phone on the line is used. Starts recording automatically when the receiver is picked up. 43-236 ..... 24.99



## Remote bell

Replaces a phone's built-in electronic ringer. Also can serve as remote bell, letting you know when the phone is ringing.

43-175 ..... 14.99



## Extra-loud bell

Plugs easily into a modular jack. Volume control lets you adjust just how loud it is. 43-173 .. 21.99



## Outdoor bell

Put this weather-resistant bell on the porch, patio, garage so you can still catch calls while working or relaxing outside. 43-174 ..... 29.99



## Chime/ringer

Indoor/outdoor selectable chime or conventional telephone ringer. For use indoors or out. Plugs into modular phone jack. 43-180 ..... 39.99



# Get the Fax Straight!

These days, no office (or home office) is complete without a fax machine. Let Radio Shack help get you set up today.

## Fax/phone combo with time and date stamp

**TFX-1030.** An outstanding value. Simply connect this affordable personal facsimile machine to a telephone line, and you're ready to send and receive documents. Built-in phone includes ten-number memory, last-number redial, tone/pulse switch, on-hook dial and more. Fax adjusts for fine and standard resolution. The terminal ID number and the time and date are automatically stamped on each transmission. (TSP) 43-1202 ..... 299.99

## Automatic fax switch



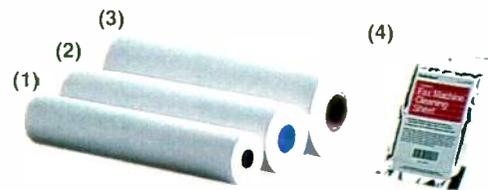
**AFX-160.** This handy device is a real money-saver! Makes it easy to share a phone line with your fax machine or fax/modem.

When a call is made to your line, you may answer it, or let your answering machine answer it. If a fax signal is detected, the call is automatically routed to your fax or fax/modem. Does not interfere with regular calls. (TSP) 43-1241 ..... 79.99

## Ring detector fax switch



**AFX-200.** Lets you use the "Distinctive Ringing" service, now available from many phone companies, to have two phone numbers on one line. Calls coming in on one number are automatically routed to your fax machine. Calls on the other number ring through to be answered by you, your answering machine, modem or other device. (TSP) 43-1243 ..... 119.99



## Thermal fax paper

- (1) White. 8 1/2" x 49-ft. roll. Package of two. 43-1264 ..... 6.79
- (2) White. 8 1/2" x 98-ft. roll. 43-1260, 5.49
- (3) White. Big 8 1/2" x 164-ft. roll. 43-1265, 6.79
- (4) Fax Clean Sheet. Removes dust and oily film from internal components. 43-1251 ... 2.19



## Telephone cassette recorder

**TCR-100.** This all-in-one recorder is designed to let you easily tape telephone conversations, but you can use it as a regular tape recorder, too. It connects to the handset to let you record directly from the phone. Plus, there's a built-in microphone for normal recording. The voice-activation feature helps save tape by stopping when no one is talking. There's a tape counter, so you can make a note of exactly where on the tape to find specific parts of the conversation recorded. Automatically stops at the end of a tape, so you'll know when it's time to turn a tape over or pop in a new one. Plug in an earphone (optional) to play back recordings in private. Requires 4 "AA" batteries or AC adapter (sold separately). (TSP) 43-273 ..... 99.99



## Professional full-duplex speakerphone

Perfect for an office conference table. Connects quickly and easily between a phone and a modular phone jack. This advanced speakerphone provides technology that provides unsurpassed convenience and audio quality. Full-duplex operation—technology found in units costing hundreds of dollars more—lets both parties speak freely, without cutting each other off. It's just like being there! Two digital signal processors minimize echo and feedback. A privacy button lets you talk to people at your location without those on the phone hearing. Great for business conference calls, or when you just have your hands full. To make a call, simply dial your phone—when someone answers, press SPEAKER and hang up the handset. To answer calls on the speakerphone, just press SPEAKER when the phone rings. (TSP) 43-243 ..... 149.99

## 33-memory pocket tone dialer



Lets you use computer-based services from any phone, even rotary- and pulse-dialing phones. This dialer features three priority memories for frequently-called numbers, plus 30 standard memories that store and speed-dial numbers. Requires 3 "AAA" batteries. 43-146 ..... 24.99

## Pocket tone dialer



This tone dialer is small enough to take everywhere you go. It lets you use computer-based phone services that require tone signals from rotary- and pulse-dial phones. You can use it to control answering machines requiring Dual-Tone Multi-Frequency (DTMF) signaling. Requires 3 "AAA" batteries. 43-145 ... 16.99

## (1) (2) Wall plates

(1) Round modular wall plate. Attractive wall plate with a standard modular (RJ11/14) phone jack. 279-392 ..... 3.99  
**NEW!** White round modular wall plate. 279-492 ..... 3.99

(2) Surface-mount wall phone plate. For a modular wall phone. Mounts on wall, does not require electrical box. 279-382 ..... 5.99  
**Surface-mount wall phone plate. White. 279-482 ..... 5.99**

(3) **NEW!** Sealed modular wall plate. Rotating cover. Moisture-inhibiting compound in contact area. 279-387 ..... 5.99

(4) **Rectangular modular wall plate.** Mounts in a standard empty electrical box. 279-352 ..... 3.99

(5) **Dual wall plate.** Can be used for up to four phone lines, for two phones with the same phone number, or as a hookup point for a phone and an accessory such as an answerer, fax, auto dialer or computer modem. 279-350 ..... 5.99  
**NEW!** White dual wall plate. 279-450 ..... 5.99

(6) **White modular wall plate.** For one or two-line installations. Mounts in standard empty electrical box. 279-204 ..... 3.99

## Phone jacks

(7) **Modular quick-connect jack.** Installs over standard screw terminal-type wiring block and converts it to accept a modular phone plug. Color-coded leads with spade terminals. 279-355 ..... 2.19  
**NEW!** White modular quick-connect jack. 279-455 ..... 2.19

(8) **Modular jack.** Like Fig. 7, but has snap-on clips in place of spade terminals. 279-386 ..... 2.99  
**Modular jack with wiring block. 279-349 ..... 3.99**

(9) **Surface-mount modular jack.** Ideal for mounting on baseboard. 279-353 ..... 3.99

(10) **NEW!** **Surface-mount duplex jack.** Can be used for up to four phone lines, for two phones with the same number, or as a hookup point for a phone and accessory. 279-448 ..... 4.99  
**NEW!** Ivory surface-mount duplex jack. 279-348 ..... 4.99

(11) **Modular duplex jack.** Converts one modular jack to two jacks so you can connect two devices. 279-357 ..... 3.99

(12) **White surface-mount modular jack.** Ideal for baseboard. 279-202 ..... 3.99

(13) **White modular jack with wiring block.** With mounting screws. 279-203 ..... 3.99

(14) **Six-wire surface-mount modular jack.** 3-line jack (RJ25C). 279-420 ..... 4.49  
**NEW!** White six-wire surface-mount modular jack. 279-419 ..... 4.49

(15) **Dual modular jack with AC wall plate.** Mounts by replacing wall plate on standard AC outlet. Can be used to provide two jacks for the same number or up to four separate phone lines. 279-415 ..... 6.99

(16) **NEW!** 8-pin modular wall jack. 279-443 ..... 7.99

(17) **NEW!** 8-pin surface mount jack. 279-442 ..... 4.99

(18) **NEW!** **Sealed surface-mount jack.** Rotating cover. Moisture inhibitor in contact area. 279-331 ..... 9.99

(19) **Quick-connect modular plug.** With insulation-piercing connectors. Fast hookup. 279-383 ..... 3.99

(20) **Plug adapter.** Simply plug in to convert older 4-prong plug to fit modular jack. 279-393 ..... 3.49

(21) **Modular quick-plug.** Adapts a phone cord with spade plugs to a modular plug. 279-375 ..... 2.99

(22) **Quick connect handset plug.** Fits smaller phone handset or handset outlet on phone. 279-298 ..... 4.99

(23) **Quick-connect eight-pin plug.** For 8-wire phone cable. Quick and easy to install. Position wire, close cover. 279-440 ..... 6.39

(24) **Four-prong plug.** Fits a 4-prong jack. 279-366 ..... 2.79

(25) **NEW!** **Modular triplex wall adapter.** Installs between wall phone and wall jack for adding two phone accessories. 279-469 ..... 12.99

(26) **Cord adapter.** Converts a modular plug to fit an older 4-prong phone jack. 279-351 ..... 2.99

(27) **Modular duplex wall phone adapter.** Installs between wall phone and existing modular jack. Adds an extra outlet for adding an answerer or other accessory. 279-359 ..... 9.99

(28) **Inline coupler.** Connects two 4-wire modular phone cords. 279-358 ..... 2.49

(29) **6-wire inline coupler.** 279-423 ..... 2.99

(30) **Five-outlet modular adapter.** Converts one standard modular jack to five modular jacks. 279-410 ..... 9.99

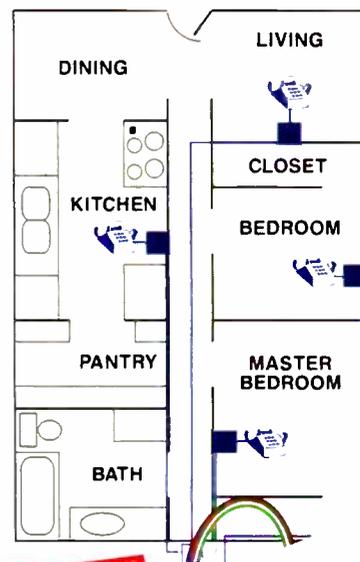
Attention installers! Quantity discounts are available at participating Radio Shack stores and dealers—see page 219.

# You Can Do It All With Radio Shack

Radio Shack has everything you need to add extension phones, update older jacks and phones to modular, and add extra jacks for a modem, fax machine, answerer or a second phone line.

Our phone jacks and wall plates are color-coded to match wiring. You simply connect the four wires used in most homes to the proper terminals.

Get the book and/or video shown below, do the job yourself and save money.



Do it by **OUR** book and do it right

**Installing telephones.** Clear, concise illustrated instructions and trouble-shooting tips for quick, easy and reliable installation. Easy-to-follow diagrams. 80 pages. 62-1060, 3.99



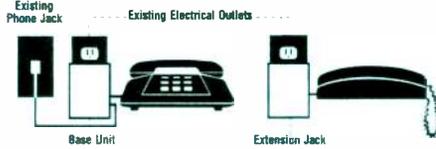
**Installation instructional video**

**Installing your own telephone.** See the correct way to install jacks, cords, wiring, phones and accessories yourself. VHS. 62-2430 ..... 5.99

## Instantly add a phone jack with our wireless phone jack system

Just plug it into any electrical outlet—no drilling, wiring or tools needed. No expensive hook-up fees and no waiting for a phone installer to show up. Add a phone wherever you need it—moves easily from room to room. Has call hold, call transfer and built-in surge suppression.

Complete wireless kit. Base unit, extension jack and 6-ft. phone cord. (TSP) 43-160, 99.99  
 Extension jack. Add unlimited extensions. For use with 43-160. 43-161 ..... 49.99



### Your home is already wired

Plug the base unit into any outlet near an existing phone jack and connect phone jack to base unit. Then plug the extension jack into any other outlet to add another phone.

### Coiled handset cords for modular phones

- 25 feet standard cords
- Blue-gray. 279-314 ..... 5.99
- White. 279-301 ..... 5.99
- Almond. 279-302 ..... 5.99
- Beige. 279-303 ..... 5.99
- Gray. 279-300 ..... 5.99
- Black. 279-305 ..... 5.99
- NEW!** Ivory. 279-316 ..... 5.99
- 12 feet standard cords
- Blue-gray. 279-313 ..... 4.99
- White. 279-306 ..... 4.99
- Almond. 279-307 ..... 4.99
- Beige. 279-308 ..... 4.99
- Brown. 279-309 ..... 4.99
- Gray. 279-311 ..... 4.99
- Black. 279-312 ..... 4.99
- NEW!** Ivory. 279-315 ..... 4.99
- 25 feet heavy-duty cords
- White. 279-290 ..... 7.99
- Almond. 279-291 ..... 7.99
- Beige. 279-292 ..... 7.99
- Brown. 279-293 ..... 7.99
- Gray. 279-294 ..... 7.99
- Black. 279-295 ..... 7.99
- NEW!** Ivory. 279-289 ..... 7.99
- NEW!** Blue-gray. 279-296 ..... 7.99

Other colors available—see store for details

### UL listed modular line cords

Fig.	Length	Description	Cat. No.	Each
1	18 Ft.	White, Coiled, Modular-to-Modular	279-396	5.99
1	18 Ft.	Almond, Coiled, Modular-to-Mod.	279-398	5.99
2	12 Ft.	Modular-to-Modular	279-374	4.99
2	25 Ft.	Modular-to-Modular	279-356	6.19
2	5 1/4"	Modular-to-Modular	279-390	.99
2	25 Ft.	6-Conductor Modular-to-Modular	279-422	7.99
2	25 Ft.	6-Cond. Modular-to-Spade Lugs	279-364	6.19
3	1 Ft.	Modular-to-Spade Lugs	279-391	1.99
3	12 Ft.	Modular-to-Spade Lugs	279-310	4.99

(4) Two-line coupler. Combines two single phone lines (from separate RJ11 jacks) into a 2-line (RJ14) jack. Ideal for use with 2-line phones. 279-401, 6.99

(5) Two-line, three-way jack. Adds two single-line jacks to a 2-line jack. Allows you to connect an answerer or fax to either phone line. 279-402 .. 6.99

(6) 42A wiring block. Industry-standard 4-terminal, wall-mounting wiring block accepts spade lugs and wires. 279-389 ..... 2.19

(7) Entrance bridge. Screw terminals provide connecting point for the phone company wiring and your phone wiring. 279-394 ..... 5.99

### Extension cords

- (8) Modular plug at one end and two standard modular jacks (RJ11/14) at the other end.
- 12-foot. 279-373 ..... 5.49
- 25-foot. 279-363 ..... 6.49

### Modular plug

- (9) 4-wire modular plug kit. Type RJ11/14. 279-384 ..... Pkg. of 10/2.99
- 6-wire modular phone plug. Type RJ11/14. 279-421 ..... Pkg. of 10/3.99

### Wiring tools and phone cable

Fig.	Description	Cat. No.	Price
10	Crimping Tool	279-388	8.99
11	Phone Connector Crimping Tool	64-410	7.99
12	Insulation-Piercing Spade Lugs	64-3070	24/1.39
13	50-Foot, 4-Wire Cable	278-872	6.49
..	100-Foot, 4-Wire Cable	278-873	12.99
..	4-Wire Bulk Cable	278-1310	.13/Ft.
14	50-Ft., 4-Wire Modular Cable	278-365	6.99
..	100-Ft., 4-Wire Modular Cable	278-366	13.99
15	Weather-Sealed Splice Connectors	64-3080	4/1.99
16	Weather-Sealed Tap Connectors	64-3081	4/1.99
17	Insulated Butt Connectors	64-3073	24/1.39
18	250-Ft. Outdoor 4-Wire Cable	278-386	34.99

### Outdoor phone wiring box

Put a phone outside. This sturdy molded enclosure features a hinged door with a weather-sealed lip. Four terminals. 279-343 ..... 6.99

### Line tester

Quick and easy problem solver! For single-line and 2-line jacks. Just plug in and LEDs show you if the jack is wired correctly, wired in reverse or not operational. 43-104 ..... 5.99

### Voice/data guard

Stops answerer's outgoing message when you pick up phone or an extension. Also prevents interruption of fax or modem transmission if someone picks up extension. Just plug it in. 43-107 ..... 9.99

### Phone-line spike protector

Helps prevent damage to modems, phones, fax and answering machines due to voltage spikes on phone line. Just plug into modular jack and a grounded AC outlet. 43-102 ..... 12.99

### Handset cord untangler®

Ends the nuisance of tangled cords! Plug-in swivel connector prevents knotting of handset cord and extends its life. Plugs into handset or base of phone with detachable modular handset cord. 279-299 ..... 4.99

### Stick-on pen

No more searching for a pen when you're on the phone. Attach this pen with holder to a phone so it's always where you need it. 43-110 ..... 99c

WEIGHS ONLY 7 OZ.  
2" W x 5 3/4" L x 3/4" Thin



**Handheld portable cellular**

**CT-350.** Less than 1 1/2" thin and 11.1 oz.—with battery! Menu-driven illuminated display is easy to use and see. Lets you store 48 phone numbers—up to 32 digits each—and names—up to 16 digits. Call stored numbers by entering a two-digit code or the name. One-touch last number redial, call timer, signal and battery strength indicators. Dual-NAM operation lets you subscribe to two different cellular phone services and use two different telephone numbers—saves on roaming charges. 600-milliwatt output. Includes built-in antenna, rechargeable battery, charger and carry case. Was 249.99 in 1994 Catalog. (TSP) **17-1060, New Low Price! . . . 99.99\***

**Go Cellular!**

**Question:** Activation, service commitments, airtime charges—cellular pricing is so confusing! How do I find the right plan for me?



**Answer:**

Radio Shack and our cellular telephone carriers across the country work to keep cellular telephone prices as affordable as possible. In most cases, your new activation and minimum service commitment will result in substantial savings over the unactivated price. However, cellular carriers may require activation fees and service deposits that are beyond our control.

Prices are subject to change and may vary depending on carrier participation, market conditions, the service plan selected, and changes in federal, state or local laws as they affect the cellular telephone industry. Some carriers offer limited-usage plans that provide a lower monthly service charge, but with a higher airtime charge.

Discuss your cellular calling needs with one of our professionals to determine the best service plan for you.

Model	Cat No.	With Activation	Without Activation	California With Activation	California Without Activation
CT-350	17-1060	99.99	399.99	174.99	199.99*
CT-352	17-1062	249.99	549.99	324.99	349.99*
CT-105	17-1079	49.99	349.99	124.99	149.99*
CT-1050	17-1021	99.99	399.99	174.99	199.99*
CT-1055	17-1007	149.99	449.99	224.99	249.99*

\*Price includes \$25 activation incentive. Minimum service commitment required. Activation is available nationwide through Radio Shack but not required in California. This statement and pricing are as of catalog printing date. For complete details, visit any participating Radio Shack store or dealer.

**NEW Multifeatured mini handheld cellular telephone**

**CT-352.** Four one-touch programmable keys let you quickly call emergency or other numbers. Memory dialing lets you program up to 99 phone numbers, each containing up to 30 digits. Dial using the stored name tag or a two-digit code. You can automatically redial any of the last five numbers called. The unique "scratchpad" memory allows you to temporarily store a number and/or name during a call, which can then be dialed or stored in memory. Any-key answer makes it possible to answer an incoming call by pressing any key—you won't have to search for the "talk" button. Backlit controls provide easy operation at night. Tone service compatibility lets you use special Touch-Tone services. (TSP) **17-1062 . . . . . 249.99\***



**CT-350 accessories**

- (1) Rapid battery charger and discharger. Quickly recharge batteries to full power. (CMC) 17-615 . . . . . 59.99
- (2) Mobile adapter. Save battery power. (CMC) 17-616 . . . . . 39.99
- (3) Extra rechargeable battery. You can charge one battery while using the other—you'll never run out of power! 17-608 . . . . . 49.99
- (4) Slim-line rechargeable battery. Extra-slim and lightweight for easy portability. (CMC) 17-609 . . . . . 59.99

**CT-352 accessories**

- (2) Mobile adapter. (CMC) 17-616 . . . 39.99
- (5) **NEW!** Basic car kit. Includes in-car holder and DC charger. (CMC) 17-736 . . . . . 39.99
- (6) **NEW!** Desktop charger. Charges phone and spare battery. (CMC) 17-737 . . . . . 99.99
- (7) **NEW!** Handsfree speakerphone kit. Mike, holder and DC adapter. (CMC) 17-735, 179.99
- (8) **NEW!** Standard battery kit. Extra-slim battery. 17-738 . . . . . 49.99
- (9) **NEW!** Extended-life battery kit. Extra long-life battery. (CMC) 17-739 . . . . . 69.99

\*Requires new activation and minimum service commitment with Radio Shack cellular phone carrier except where prohibited by law. See above for our cellular pricing policy. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.

## Mobile/transmobile/portable cellular telephones

Choose the cellular that fits your needs—mobile, transmobile or transportable—all include the following features. Handsfree operation to let you make and take calls without lifting the handset. 50-number memory speed dial with alphanumeric memory scan. Memory name tag lets you enter a name to identify each phone number. With the any-key answer function, you can answer incoming calls with the touch of ANY button—no searching for the "talk" key. A programmable timer auto-redials busy or unanswered calls. Also with scratchpad memory, call timers, digital displays and backlit keypads.

**NEW** CT-105. Installs easily under the dash or seat. Includes handsfree microphone, power cable, mounting bracket and handset holder with mount. (TSP) 17-1079 ..... **49.99\***

**NEW** CT-1050 transmobile. No installation required! Just strap it in, plug into the cigarette lighter and you're ready to make calls. Easily moves from one vehicle to another. Multiple-telephone number operation lets you subscribe to up to four different phone services and have a local telephone number in each—saves on roaming charges. Comes with DC adapter, antenna and carrying case. (TSP) 17-1021 ..... **99.99\***

**NEW** CT-1055 transportable. Take it anywhere you go! Plug it in while in the car, or use battery power for use on the go. Features multiple-telephone number operation. Antenna, battery, vehicle battery adapter, AC charger and DC adapter all included. Everything fits conveniently in the included carrying bag. (TSP) 17-1007 ..... **149.99\***



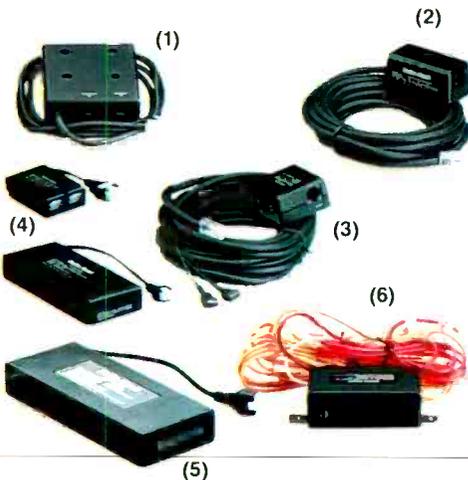
CT-105



CT-1050

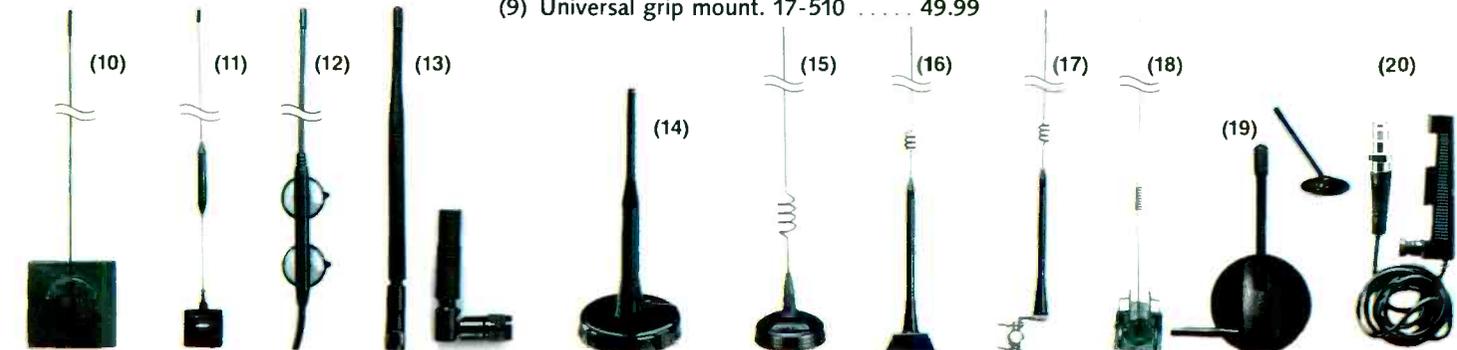
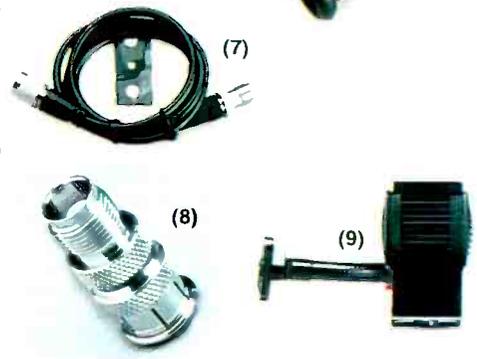


CT-1055



### Auto cellular accessories

- (1) **NEW!** Data transfer box. For CT-105/1050/1055. (CMC) 17-720 ..... **59.99**
- (2) **NEW!** Handset extension cable. For CT-105/1050/1055. (CMC) 17-722 ..... **24.99**
- (3) **NEW!** Wiring harness. For CT-1050. (CMC) 17-721 ..... **39.99**
- (4) **NEW!** Transportable kit. For CT-1050. (CMC) 17-724 ..... **89.99**
- (5) **NEW!** Battery. For CT-1055. (CMC) 17-725 ..... **59.99**
- (6) **NEW!** Horn alert. For CT-105/1050/1055. (CMC) 17-723 ..... **39.99**
- (7) 3' cellular phone extension. 278-976, **4.99**
- (8) TNC push-on adapter. 278-133 ..... **3.99**
- (9) Universal grip mount. 17-510 ..... **49.99**



### Check out our selection of cellular antennas—there's one for every need

- (10) Glass-mount. A popular choice. 3 dB gain. 17-309 ..... **29.99**
- (11) Encapsulated glass-mount. Improved performance in fringe areas. 5 dB gain. 17-320 ..... **39.99**
- (12) Suction cup. Attaches to glass. Use with portable phones. 17-314 ..... **24.99**
- (13) Adjustable angle. Pivots 45° to 90°. 3 dB gain. 17-317 ..... **19.99**
- (14) Magnet-mount. Small, yet powerful. Only 5" tall. 3 dB gain. 17-322 ..... **26.99**
- (15) Magnet-mount. Slim styling. Attaches to metal roof or trunk. 3 dB gain. 17-318 ..... **24.99**
- (16) No-hole trunk-mount. Elevated feed design installs on trunk lid. 3 dB gain. 17-311 ..... **39.99**
- (17) Mirror-mount. 3 dB gain. 17-312 ..... **39.99**
- (18) Clip-on glass-mount. Easy to install on car's side window—ideal for rental cars. 17-315 ..... **44.99**
- (19) **NEW!** Mini glass-mount. 17-325 ..... **24.99**
- (20) **NEW!** Clip-on. For handheld. (CMC) 17-326 ..... **14.99**

\*Requires new activation and minimum service commitment with Radio Shack cellular phone carrier except where prohibited by law. CMC items are available through Radio Shack Consumer Mail Center. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.

# Local and nationwide pagers.



### Local, with time stamp

**PGL-300.** Stores up to 30 phone numbers with handy alphabetical "tags". This pager tells you when the messages

came in. It also displays the current time. Selectable tone or silent vibrating alert. Forward and reverse keys let you scroll through stored messages. Display backlight. **17-8001 . . . . . 119.99\***



### Nationwide, alphanumeric

**PGN-400.** Large memory and a 4-line alphanumeric display allow callers to leave detailed messages. Reduces the return calls you need to make. Stores and time-stamps up to 40 messages. Has time/date

display and handy alarm clock function. You can select tone, vibrating or visual alert and switch on the backlight for night viewing. **17-9001, 249.99\***



### Local pager with time stamp, time display and choice of colors

**PGL-200.** A dependable, compact pager featuring selectable tone or silent vibrating alert, 12-digit numeric display with switchable backlight and a 16-message memory. This pager time-stamps messages so you know when they came in. It also shows accurate time of day so you don't have to wear a watch. Message lock lets you save important numbers and the memory retains stored numbers when pager is turned off. Only 2 1/16" high.

**Black. 17-7001 . . . . . 99.99\***  
**Teal. 17-7004 . . . . . 99.99\***

Other colors are available through Radio Shack's fast special order service. See store for details.



### Nationwide, with time stamp, silent alert

**PGN-201.** Clients and family can reach you wherever you are—across town or across the country—by dialing a toll-free 800 number. Memory stores up to 16 phone numbers and it time-stamps them so you know when they came in. Has selectable tone or silent vibrating alert, switchable backlight, and message lock to save important phone numbers.

**17-7011 . . . . . 99.99\***



**Fashion safety chains.** Six styles. Available through special order (CMC).

# Keep in Touch With Family and Business

*When you need to stay in touch, but can't stay by the phone, an affordable Radio Shack pager is the answer. Great for business use and active families, a pager helps you save time and avoid unnecessary trips. You can always be available for your customers, friends, family members, even the babysitter.*

*Radio Shack offers local, regional and nationwide paging service. Message saver, voice mail, personalized name and greeting, service protection plan are just a few of the services you can choose depending on individual pager restrictions.*



### Budget-priced local pager with tone or silent alert

**Budget.** Great for business people on the go, and for keeping in touch with busy family members. Slim and attractively styled, it features easy one-button operation. Stores and displays up to 10 phone numbers. Provides selectable musical tone or a silent vibrating alert, and has a backlight for easier night viewing. **17-6001 . . . . . 79.99\***



**No service fees to pay! Now you can own a paging system with a range of two miles or more**

**Wireless Paging System.** Think of it: Your own dependable, easy-to-use paging system with no fees to pay—ever. Great for small businesses, warehouses, construction sites. Saves time, eliminates unneeded trips, provides faster service for your customers. Affordable and also ideal for family use. Push a button to call the kids home from play. So simple to operate that even a child can send a message in an emergency. The powerful 7-watt transmitter provides up to 2 mile range with the included indoor antenna. Add an outdoor CB antenna, available at Radio Shack, for even wider coverage. System allows up to 100 receivers and provides 10 message codes. The receiver features an LED display, message code memory and a low-battery indicator. One pocket-size receiver included. (TSP) **17-6020 . . . . 99.99**  
**Extra Receivers. 17-6021 . . . . . Each 39.99**

### Check the handy features of Radio Shack local and nationwide pagers

Model No.	Cat. No.	Local Paging	Nation-wide Paging	Message Memory	Alert	Alpha Message Tag	Time Stamp	Colors	Message Format	Batteries Required	Lighted Display
Budget	17-6001	✓		10	Tone/Silent				Numeric	2 "AAA"	✓
Wireless Paging System	17-6020	✓		8	Tone				Numeric	2 "AA"	✓
PGL-200	17-7001	✓		16	Tone/Silent		✓	✓	Numeric	1 "AA"	✓
PGN-201	17-7011	✓	✓	16	Tone/Silent		✓		Numeric	1 "AA"	✓
PGL-300	17-8001	✓		30	Tone/Silent	✓	✓		Text/Numeric	1 "AAA"	✓
PGN-400	17-9001	✓	✓	40	Tone/Silent/Visual		✓		Text/Numeric	1 "AAA"	✓

\*Processing and paging service fees required. Local pagers are not available in all areas. See store for details. Service provided by MobileComm® or one of its associated carriers. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE SHACK for details.



### Preprogrammed, 800 MHz, home/mobile

**PRO-2038.** Compact, 50-channel scanner with 800-MHz and VHF-air band coverage comes to you pre-programmed. It zeros in on the local action right out of the box. Simply touch buttons to rapidly explore the 2193 preset frequencies for police, fire/emergency, aircraft, marine and weather. When you find a frequency you want to keep, you can store it in a

50-channel memory. Features include HyperScan high-speed scanning and search, 2-second scan delay to prevent missed replies, individual lockouts to temporarily bypass channels while scanning others and memory backup. Enclosure has flip-down foot for desk use. (TSP) **20-413 . . . . 199.99**

Mobile mounting bracket (20-028) and 12VDC power cord (20-029). Available through our fast special-order service (CMC).

Coverage: 29-54, 108-136.975, 137-174 MHz, 406-512 MHz, 806-823.9375, 851-868.9375, 896.1125-956 MHz. Power: UL listed AC adapter (or 12VDC cord, extra). Jacks: ext. speaker, antenna (BNC), power. Size: 1<sup>1</sup>/<sub>16</sub> x 5<sup>3</sup>/<sub>16</sub> x 7". Includes: Detachable indoor antenna.

## Hear Local News While It Happens

*Radio Shack scanner radios bring you the most exciting listening of all—your local police and fire departments at work, security services, ambulances, railroads, Ham radio, weather and more. A scanner lets you monitor behind-the-scenes activity at car races, athletic events, concerts or air shows. Many of our scanners receive commercial, private and military aircraft communications.*

*Radio Shack scanner radios are famous for reliability and easy operation. Beginners love them and experts prefer them. Maybe that's why nobody else sells more! Get a Radio Shack scanner and get tuned in today to the exciting real-life action around you.*



### 100 channels, 800 MHz, service search, mobile

**PRO-2026.** Superb performance with 800-MHz and VHF-air coverage in a size easy to install under dash. This scanner can search factory preprogrammed frequencies by service: police, fire, aircraft, marine, weather. Finds exciting local action

wherever you drive! Standard search function, priority, scan delay, individual channel lockouts, 14-day memory backup. (TSP) **20-148, 229.99**

Coverage: 29-54, 108-136.975, 137-174 MHz, 406-512 MHz, 806-823.9375, 851-868.9375, 896.1125-956 MHz. Power: 12VDC neg. gnd. or AC adapter (extra). Jacks: external speaker, antenna (BNC), power. Size: 1<sup>5</sup>/<sub>8</sub> x 6<sup>5</sup>/<sub>16</sub> x 7<sup>3</sup>/<sub>8</sub>".



### Handheld, 20 channels, search

**PRO-50.** New smaller size is easy to take along. Search mode lets you find active frequencies wherever you go. Separate monitor memory stores a frequency found during search for easy transfer to main memory. Has individual channel lockouts for temporarily bypassing channels and selectable scan delay so you hear replies to calls. Keyboard lock button. Low-battery indicator. One-hour memory backup. (TSP) **20-307 . . . . . 139.99**

Coverage: 30-54, 137-174 MHz, 380-512 MHz. Power: Requires 6 "AA" alkaline or rechargeable batteries, or AC or DC adapter. Jacks: external speaker/headphone, antenna (BNC), external power, charger. Size: 6<sup>5</sup>/<sub>16</sub> x 2<sup>3</sup>/<sub>8</sub> x 1<sup>1</sup>/<sub>4</sub>". Includes: Detachable belt clip and flexible antenna.



### Our most affordable handheld

**PRO-49.** This 10-channel scanner offers a rugged, compact housing and convenient one-touch access to NOAA Weather. Automatic scan delay holds channels for two seconds so you hear replies to calls. Individual channel lockouts temporarily bypass channels while scanning others. Keyboard lock prevents accidental entries as you move about. Other features include audible low-battery alert and 30-minute memory backup. (TSP) **20-306 . . . . . 119.99**

Coverage: 29-54, 137-174 MHz, 406-512 MHz. Power: Requires 4 "AA" alkaline or rechargeable batteries, or AC or DC adapter. Jacks: external speaker/ headphone, antenna (BNC), external power, charger. Size: 6<sup>5</sup>/<sub>16</sub> x 2<sup>3</sup>/<sub>16</sub> x 1<sup>1</sup>/<sub>8</sub>". Includes: Detachable belt clip and flexible antenna.

## Eight models! Radio Shack has a handheld scanner with the features and coverage you want.

Handheld Scanner Model No.	Cat. No.	Page No.	Memory Channels	Conversion	Frequency Coverage						Weather Search	Service Search	Search	Scan Rate(s)	Search Rate(s)	Priority Channel	Scan Delay	LCD Display Digits
					800 MHz	UHF	200-400 MHz	VHF Hi	VHF Air	VHF Lo								
PRO-23	20-504	28	50	Double	✓	✓		✓	✓			✓	12	16	✓	Auto	9	
PRO-24	20-503	28	16	Double	✓	✓		✓		✓		✓	10			Auto	2	
PRO-25	20-505	28	100	Double	✓	✓		✓	✓	✓		✓	50	100	✓	✓	10	
PRO-43	20-300	29	200	Triple	✓	✓	✓	✓	✓	✓		✓	25	50	✓	✓	10	
PRO-49	20-306	27	10	Double		✓		✓		✓	✓	✓	10			Auto	2	
PRO-50	20-307	27	20	Double		✓		✓		✓		✓	16	16		✓	8	
PRO-51	20-308	29	200	Double	✓	✓		✓	✓	✓	✓	✓	50	100	✓	✓	10	
PRO-62	20-560	29	200	Triple	✓	✓		✓	✓	✓		✓	25	50	✓	✓	10	

Mobile use of scanners may be unlawful in some areas or may require a permit—check with local authorities.

## Handheld scanners with 800 MHz coverage.



### **NEW** 100 channels, VHF-air coverage, HyperScan™ high-speed scan and search

(3) PRO-25. An especially good choice for the radio hobbyist who wants to monitor communications at special events and while traveling.

**High-speed search**—HyperScan 100-channel-per-second search quickly finds frequencies in use at car races, air shows and sports events. When you travel, you can search for local police and "action" frequencies. At home, you can find new and unlisted frequencies. A separate 10-channel memory holds search findings for transfer to regular memory.

**Weather search**—Provides one-touch access to the local NOAA Weather Radio frequency.

**High-speed scanning**—Fast 50-channel-per-second scanning speed helps follow 800 MHz trunked radio systems now used by many fire and police departments.

**Priority mode**—While scanning, the scanner also checks for activity on your favorite channel so you don't miss calls on it.

**Banks**—The scanner's memory is divided into 10 banks of ten channels each. This lets you group frequencies by service or area for selective scanning. Memory backup.

**Ultracompact**—6 1/8" high. Selectable scan delay. Backlight. Key-lock. (TSP) Available Nov. 15, 1994. **20-505 . . . 249.99**

Coverage: 29-54, 108-136.975, 137-174, 406-512, 806-823.9375, 851-868.9375, 896.1125-956 MHz. Jacks: Earphone, external antenna (BNC), external DC power, charger. Power: Requires 4 "AA" alkaline or rechargeable batteries, AC or DC adapter. Size: 6 1/8 x 2 3/8 x 1 1/16".

### **NEW** Our most affordable handheld scanner with 800 MHz coverage

(1) PRO-24. This rugged 16-channel scanner gives you 800 MHz coverage, outstanding performance and all the basic scanner functions. Weather search provides one-touch access to NOAA Weather Radio. Automatic scan delay holds channels for three seconds after a message ends so you hear replies. Lockouts, selectable for each channel, allow you to skip one or more channels while you scan others. For example, when you want to monitor police communications only, you can lock out the other channels that you've programmed in. The locked-out channels remain in memory and are available for manual selection. You can unlock any of them for scanning with the touch of a button. The key-lock feature prevents

accidental keyboard entries as you move about. LCD channel-number display has indicators for Weather search mode, key lock and channel lockout status. Programmed frequencies are displayed one digit at a time when you push the review button. On-top jack for adding an earphone, our lapel-clip speaker or external speaker. Low-battery alert and backup system preserve memory contents when you change batteries. (TSP) Available Nov. 1, 1994. **20-503 . . . 179.99**

Coverage: 29-54, 137-174, 406-512, 806-823.9375, 851-868.9375 and 896.1125-956 MHz. Jacks: Antenna (BNC), earphone, external DC power, charger. Power: Requires 4 "AA" alkaline or rechargeable batteries or AC or DC adapter. Size: 6 3/8 x 2 11/16 x 1 9/16".

### **NEW** 50 channels, search, priority, 800 MHz and VHF-air band coverage

(2) PRO-23. Sensational value! This handheld scanner has search and priority, plus extra-large scan and manual pushbuttons for easy operation. Search mode automatically finds new and unlisted frequencies. It's really handy when you travel or attend special events such as car races and air shows. A special monitor memory lets you temporarily store up to five frequencies found during search for easy transfer to regular memory. This scanner also has weather search for one-touch access to NOAA Weather Radio. Priority lets you choose a favorite channel. In priority mode, the scanner checks this channel every two seconds so you

don't miss calls on it. Automatic scan delay holds channels for two seconds after messages end so you hear the replies. Lockouts, selectable for each channel, let you bypass channels while scanning others. Memory is divided into five banks of 10 channels each. Ultracompact, only 6 1/8" high. Backlight. Key lock button. Audible low-battery alert. Memory backup. (TSP) **20-504 . . . 199.99**

Coverage: 108-136.975, 137-174, 406-512, 806-823.9375, 851-868.9375 and 896.1125-956 MHz. Jacks: Earphone, external antenna (BNC), external DC power, charger. Power: Requires 4 "AA" alkaline or rechargeable batteries, AC or DC adapter. Size: 6 1/8 x 2 3/8 x 1 11/16".





## Triple conversion, 200 channels, wide coverage including UHF military air band

(3) PRO-43. Get in on all the action with this wide-coverage, high-performance scanner. Its triple-conversion circuit virtually eliminates image interference, making it ideal for use in RF-crowded metro areas. HyperScan provides 50-channel-per-second search and 25-channel-per-second scan. High-speed search finds new and unlisted frequencies in a flash. High-speed scanning helps you follow 800-MHz trunked radio systems used by many police and fire departments. The 200-channel memory is divided into 10 banks of 20 channels each, allowing you to group frequencies by service or area and scan them selectively. A separate 10-channel bank holds frequencies found during search for easy transfer to regular memory. Priority mode checks your favorite channel every two seconds so you never miss calls on it. Has auto and manual AM/FM mode selection, lockouts, battery saver, pushbutton backlight, audible low battery indicator, and memory backup. (TSP) 20-300 . . . . . **349.99**

Coverage: 30-54, 118-136.975, 137-174, 220-225, 225.0125-400, 400.0125-512, 806-823.9375, 851-868.9375 and 896-999.9875 MHz. Power: Requires 6 "AA" alkaline or rechargeable batteries or AC or DC adapter. Jacks: Earphone, antenna (BNC), external power, charger. Size: 6 1/8 x 2 3/4 x 1 3/4"

## **NEW** Our fastest handheld! 200 channels, VHF-air, weather and band search, priority mode

(1) PRO-51. HyperScan system gives you 50-channel-per-second scanning and incredible 100-channel-per-second search. High-speed scanning helps you follow 800-MHz trunked radio systems now used by many police and fire departments. This scanner provides standard direct and limit search, plus handy one-touch Band search for pre-programmed aircraft, VHF-marine, fire and weather frequencies. The memory is divided into ten 20-channel banks, which allows you to group frequencies and scan selectively. A separate 10-channel bank holds frequencies you find during search. Priority mode checks your favorite channel every two seconds so you never miss calls on it. Other features include individual channel lockouts, pushbutton display backlight, key lock button, and memory backup. (TSP) 20-308 . . . **299.99**

Coverage: 29-54, 108-136.975, 137-174, 406-512, 806-823.9375, 851-868.9375 and 896.1125-956 MHz. Power: Requires 4 "AA" alkaline or rechargeable Ni-Cd batteries or AC or DC adapter. Jacks: Earphone/external speaker, antenna (BNC), external power, charger. Size: 5 7/16 x 2 7/16 x 1 11/16"

## **NEW** High-performance triple conversion circuit, 200 channels, VHF-air, high-speed scan and search

(2) PRO-62. Like the finest full-size receivers, this scanner uses a triple-conversion circuit to virtually eliminate image interference that occurs in RF-crowded areas. HyperScan provides 50-channel-per-second search and 25-channel-per-second scanning. High-speed scanning helps you follow 800-MHz trunked systems used by many police and fire departments. High-speed search finds new and unlisted frequencies fast. Memory has ten banks of 20 channels each to allow selective scanning. A separate 10-channel bank holds search findings. Also has auto and manual AM/FM mode selection, priority, key lock, backlight, low-battery indicator, memory backup. (TSP) 20-560 . . . . . **299.99**

Coverage: 30-54, 118-136.975, 137-174, 380-512, 806-823.9875, 849.0125-868.9875 and 894.0125-960 MHz. Power: Requires 6 "AA" alkaline or Ni-Cd batteries or AC or DC adapter. Jacks: Earphone, antenna (BNC), external power, charger. Size: 6 1/8 x 2 1/2 x 1 3/4"



# Home scanners with 800 MHz and VHF-air.



**NEW** Our finest! 1000 channels, triple conversion, coverage to 1300 MHz, HyperScan, rotary tuning

**PRO-2035.** Wide coverage with selectable narrow FM, wide FM, and AM modes expands your listening—tune CB, FM, TV sound and military aircraft bands. Triple conversion rejects image interference. HyperScan™ selectable 50 or 13-channel-per-second scanning and search. High-speed scanning helps you follow 800-MHz trunked radio systems. Rotary tuning lets you explore bands manually. Memory has ten banks of 100 channels, plus a separate 100-channel bank for search findings. Auto-programming puts frequencies into specified banks. Sound squelch prevents lockups on unmodulated carriers (active frequencies without sound). Priority, Weather search. (TSP) 20-460 ..... 449.99

Coverage: 25-520, 760-823.945, 849.005-868.995, 894.005-1300 MHz Power: UL listed AC operation or 12VDC. Jacks: External antenna (BNC), external DC power, tape-out, external speaker, headphone. Includes: Detachable indoor antenna. Size: 3 3/16 x 9 1/8 x 7 7/8".

**NEW** Our fastest! 200 channels, HyperScan 100 channel-per-second scan and search, rotary tuning

**PRO-2036.** High performance and exciting new features. Selectable 100 or 20-channel-per-second scan and search. High-speed scan helps you follow 800-MHz trunked radio systems. High-speed search finds new and unlisted frequencies fast. Auto-program stores active frequencies into specified channel banks. Auto-sort speeds up scanning by grouping nearby frequencies. Auto-record starts and stops most recorders. 10 priority channels. Weather search for one-touch access to NOAA Weather. Weather alarm. (TSP) 20-412 ..... 319.99

Coverage: 29-54, 108-136.975, 137-174, 380-512, 806-823.9375, 851-868.9375, 896-956 MHz. Power: Includes UL listed AC adapter. Jacks: Antenna (BNC), aux. power, line, headphone/external speaker. Includes: Detachable indoor antenna. Size: 4 x 10 1/2 x 7 1/2".



**NEW** 200 channels, HyperScan high-speed scanning and search, interference-fighting triple conversion

**PRO-2037.** Triple-conversion circuit rejects image interference—really performs in RF-dense urban areas. HyperScan lets you choose 25 or 8-channel-per-second scanning and 50 or 8-channel-per-second search. High-speed scan helps you follow 800-MHz trunked radio systems. High-speed search finds new and unlisted channels fast. Has ten 20-channel memory banks. A separate 10-channel bank stores search findings for easy transfer to regular memory. Priority can be set to any one channel so you never miss calls on it. (TSP) 20-461, 299.99

Coverage: 30-54, 108-136.975, 137-174, 380-512, 806-823.9375, 851-868.9375, 896-960 MHz. Power: UL listed AC or 12VDC. Jacks: Antenna (BNC), DC input, headphone. Includes: Detachable indoor antenna. Size: 3 3/8 x 8 3/8 x 6 3/8".



**80 channels, HyperScan high-speed scanning and search, one-touch weather, priority channel**

**PRO-2030.** Outstanding value! More than 32,000 frequencies are at your fingertips. HyperScan system lets you select 50 or 12-channel-per-second scanning and search. High-speed scan helps you follow 800-MHz trunked radio systems. High-speed search finds active new and unlisted frequencies fast. Weather search for one-touch access to NOAA Weather Radio. Priority can be set to any channel so you never miss calls on it. Memory backup keeps frequencies in memory up to three days without power. Backlight display. (TSP) 20-407, 199.99

Coverage: 29-54, 108-136.975, 137-174, 380-512, 806-823.9375, 851-868.9375 and 896-956 MHz. Power: Includes UL listed AC adapter. Jacks: Antenna (BNC), power, headphone. Includes: Detachable indoor antenna. Size: 2 3/4 x 7 1/8 x 7 1/2".



**NEW** 100 channels, HyperScan 2-speed scan/search, priority

**PRO-2039.** HyperScan system lets you scan at 25 or 8 channels per second and search at 50 or 8 channels per second. High-speed scanning helps you follow 800-MHz trunked radio systems used by many police and fire departments. High-speed search finds new and unlisted active frequencies in a flash. In priority mode, the scanner constantly checks your favorite channel for activity so you never miss calls on it. Scan delay, selectable for each channel, holds frequency for two seconds after message ends so you hear a reply. Lockouts let you skip channels while scanning. For example, you can lock out NOAA Weather so the scanner doesn't stop on it while scanning. Weather stays in memory for manual selection. Memory backup protects stored frequencies in case of AC power failure or when you move the scanner. (TSP) 20-462 ... 229.99

Coverage: 30-54, 108-136.975, 137-174, 380-512, 806-823.9375, 851-868.9375, 896-960 MHz. Power: UL listed AC. Jacks: External antenna (BNC), headphone. Includes: Detachable indoor antenna. Size: 3 1/8 x 8 1/4 x 6 1/2".



**NEW** Hear news firsthand on this easy-to-use 60-channel scanner with search function and VHF-air band coverage

**PRO-2034.** Tune in the local action! Listen to police and fire calls, trains, ambulances, aircraft and airport towers, security services, VHF marine, Hams, NOAA Weather Radio and much more. Search mode finds new and unlisted channels automatically. The 60-channel memory is divided into 10 banks so you can group channels by service or area and scan them selectively. For example, you can put police frequencies in one bank and fire or railroad frequencies in another. A separate 10-channel monitor bank temporarily stores the frequencies you find during search, and makes it easy to transfer them to regular memory. Priority mode lets you choose a favorite channel—then, every two seconds the scanner checks this channel so you don't miss calls on it. Weather Search provides one-touch access to NOAA Weather Radio. Scan delay, selectable for each channel, holds the channel for two seconds after a message ends so you can hear a reply. Memory backup preserves stored frequencies in case of AC power failure and lets you move the scanner to another AC outlet. (TSP) **20-411 . . . . . 159.99**  
 Coverage: 29-54, 108-136.975, 137-174, 406-512 MHz. Power: Includes UL listed AC adapter. Jacks: External antenna (Motorola-type jack), headphone/external speaker. Includes: Detachable indoor antenna. Size: 2<sup>3</sup>/<sub>16</sub> x 9<sup>9</sup>/<sub>16</sub> x 6<sup>15</sup>/<sub>16</sub>"



**NEW** Our lowest priced home scanner has 10 channels and one-touch access to NOAA Weather Radio

**PRO-2033.** Excellent performance at a terrific price! Simple to use, it makes a great second scanner and a wonderful gift, ideal for someone just starting in the scanning hobby. Features automatic scan delay to prevent missed replies, lockouts to skip over channels when desired, and memory backup. (TSP) **20-410 . . . . . 109.99**  
 Frequency Coverage: 137-174 MHz and 406-512 MHz. Power: Includes UL listed AC adapter. Jacks: External antenna (Motorola-type jack), headphone/external speaker. Includes: Detachable indoor antenna. Size: 2<sup>7</sup>/<sub>8</sub> x 9<sup>2</sup>/<sub>16</sub> x 6<sup>3</sup>/<sub>8</sub>"



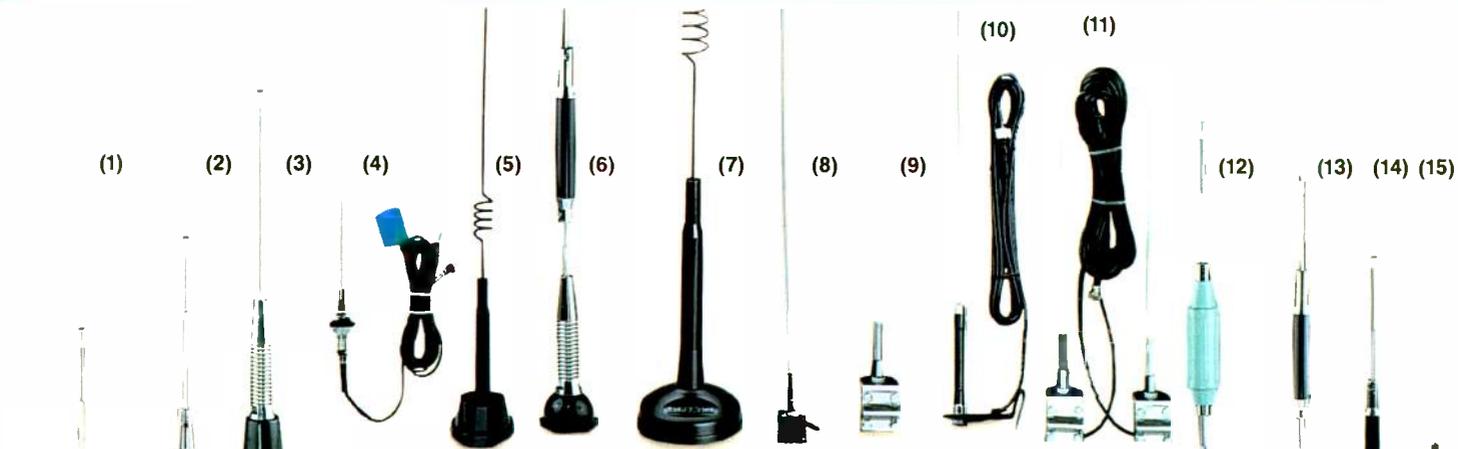
**NEW** Our smallest home scanner has 20 channels and search mode to find new and unlisted frequencies

**PRO-508.** Features search mode to find active frequencies automatically, and 30-54 MHz VHF-Lo band coverage. Scans and searches at 16 channels per second. Scan delay, selectable for each channel, holds channels for two seconds after a message ends so you hear replies. Memory backup. (TSP) **20-408 . . . . . 139.99**  
 Frequency Coverage: 30-54 MHz, 137-174 MHz and 380-512 MHz. Power: Includes UL listed AC adapter. Jacks: External antenna (Motorola-type jack). Includes: Detachable indoor antenna. Size: 2<sup>7</sup>/<sub>16</sub> x 8<sup>7</sup>/<sub>16</sub> x 6<sup>7</sup>/<sub>8</sub>"

Scanner Model No.	Cat. No.	Page No.	Type	Memory Channels	IF Conversion	Rotary Tuning	Frequency Coverage						Weather Search	Service Search	Search	Scan Rate(s)	Search Rate(s)	Priority Channel	Scan Delay	LCD Digits
							800 MHz	UHF	200-400 MHz	VHF Hi	VHF Air	VHF Lo								
PRO-508	20-408	31	Home	20	Double			✓		✓		✓		✓	16	16		✓	8	
PRO-2026	20-148	27	Mobile	100	Double		✓	✓		✓	✓	✓	✓	✓	14	19	✓	✓	10	
PRO-2030	20-407	30	Home	80	Double		✓	✓		✓	✓	✓	✓	✓	50/12	50/12	✓	✓	9	
PRO-2033	20-410	31	Home	10	Double			✓		✓		✓		12			Auto	8		
PRO-2034	20-411	31	Home	60	Double			✓		✓	✓	✓	✓	12	16	✓	✓	9		
PRO-2035	20-460	30	Home*	1000	Triple	✓	✓	✓	✓	✓	✓	✓	✓	50/13	50/13	✓	✓	12		
PRO-2036	20-412	30	Home	200	Double	✓	✓	✓		✓	✓	✓	✓	100/20	100/20	✓	✓	10		
PRO-2037	20-461	30	Home*	200	Triple		✓	✓		✓	✓	✓	✓	25/8	50/8	✓	✓	10		
PRO-2038	20-413	27	Home*	50	Double		✓	✓		✓	✓	✓	✓	30	30		Auto	7		
PRO-2039	20-462	30	Home	200	Double		✓	✓		✓	✓	✓	✓	25/8	50/8	✓	✓	10		

\*Also operates from 12VDC mobile or emergency power using optional 12VDC cord.

Come in and hear them! Our experts will help you select the scanner that receives the exciting local "action" radio services you want to monitor.

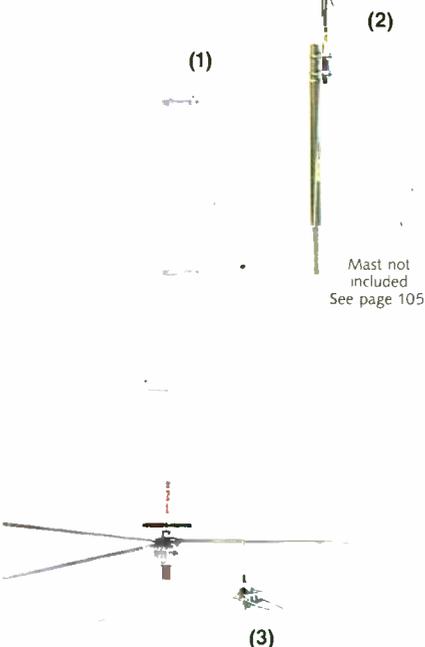


## Mobile CB antennas are prewired and ready to mount

- (1) **Deluxe magnet-mount\* antenna.** No holes to drill. Adheres to any flat magnet-holding surface. Features a 54" stainless steel whip, prewired 16-foot cable and CB connector. **21-960 . . . . . 37.99**
- (2) **CB/Ham magnet-mount\* antenna.** Holds to any flat magnet-holding surface. Stainless steel whip and spring. About 49" high, overall. Can be shortened for use on 10-meter Ham band. Includes 16-foot cable and connector. **21-940, 26.99**
- (3) **No-hole trunk-mount antenna.** Secures to trunk lid. Steel shock spring. About 47" high, overall. Includes 16-foot cable and connector. **21-908 . . . . . 26.99**
- (4) **CB/AM/FM disguise antenna.** Looks like a car radio antenna and fits standard car radio antenna hole. Features 32" stainless steel whip, prewired 8 1/2-foot cable, splitter, and prewired connectors for CB and car radio or stereo. **21-990 . . . . . 29.99**
- (5) **Trunk-mount "cellular look-alike" antenna.** Mounts on trunk lid edge—no holes to drill. About 19" high, overall. 16-foot cable and connector. **21-991 . . . . . 29.99**
- (6) **"Shorty" snap-in roof-mount.** Mounts in 3/8" hole. Stainless steel whip and spring. About 29" high, overall. 16-foot cable and connector. **21-906, 23.99**
- (7) **Magnet-mount\* "cellular look-alike" CB/Ham antenna.** About 21" high, overall. For 10-meter Ham, too. With 16-ft. cable, connector. **21-993, 29.99**
- (8) **"No ground" antenna for boat, RV, van.** For wood or fiber glass vehicles and boats—metal ground plane not needed. 48" fiber glass whip. Mounts on boat rail, luggage rack or truck mirror. With 16-foot cable and connector. **21-977 . . . . . 39.99**
- (9) **Fiber glass single trucker antenna.** 48" whip. Mounts on truck mirror. With 10-foot cable, connector. **21-939 . . . . . 26.99**
- (10) **"No-ground" window antenna.** Fits any roll-up window. Metal ground plane not needed. Ideal for GM vans, fiber-body vehicles. About 34" high, overall. Includes cable and connector. **21-983 . . . 29.99**
- (11) **Fiber glass twin trucker.** Dual 48" whips mount on mirrors. With tuned cables. **21-945 . . . . . 44.99**
- (12) **Single trucker II antenna.** Heavy-duty. Mounts on truck mirror. About 58" high, overall. With 10-foot cable and connector. **21-941 . . . . . 25.99**
- (13) **Gutter-clamp antenna.** No holes to drill. Mounts on vehicle rain gutter. Steel whip. About 37" overall. With 10-ft. cable, connector. **21-909, 21.99**
- (14) **Fold-down gutter-mount antenna.** Mounts on rain gutter. Foldable when not needed. About 38" high. 10-ft. cable, connector. **21-947, 27.99**
- (15) **CROSSBOW® base-station CB antenna.** Omnidirectional 16-foot, 1/2-wave fiber glass radiator. Fits masts up to 1 1/8" diameter. Accepts PL-259 connector. Cable extra—see next page. **21-967 . . . . . 79.99**

Base station  
CB antenna

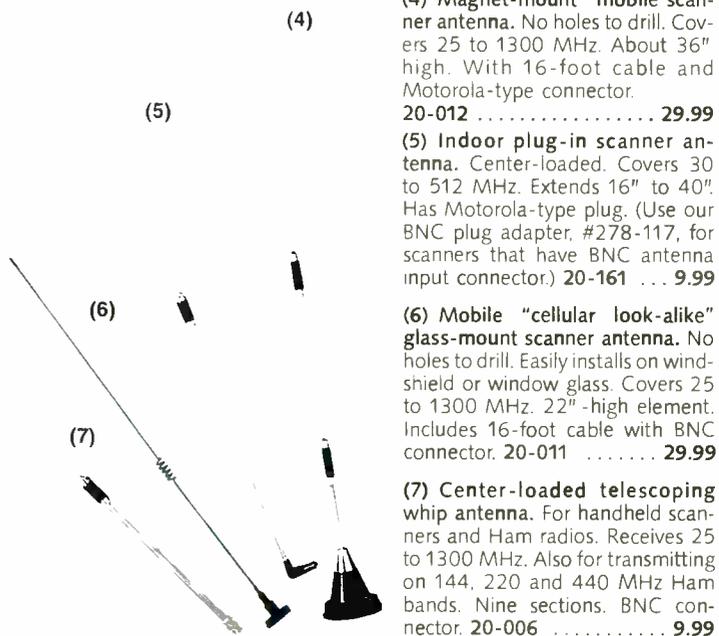
## Outdoor antennas for scanners



- (1) **All-band ground plane antenna.** This high-performance antenna has three vertical elements for wide frequency coverage, 30 to 1300 MHz. About 6 feet high. Accepts PL-259 connector. **20-014 . . . . . 29.99**
- (2) **Discone scanner/Ham antenna.** An omnidirectional antenna with wide 25-1300 MHz coverage. Great for scanners, it is also useful for transmitting on 144, 220, 440 and 1296 MHz Ham bands. Has eight 33" lower elements and eight 11" upper elements. Fits masts up to 1 1/2" diameter. Accepts PL-259 connector. **20-013 . . . . . 59.99**
- (3) **VHF-Hi/UHF scanner antenna.** Chrome-plated brass vertical element. Covers 108 to 1300 MHz with peak performance in 152-470 MHz range. Fits masts to 1 1/2" dia. About 20" high. Accepts PL-259 connector. **20-176 . . . . . 17.99**

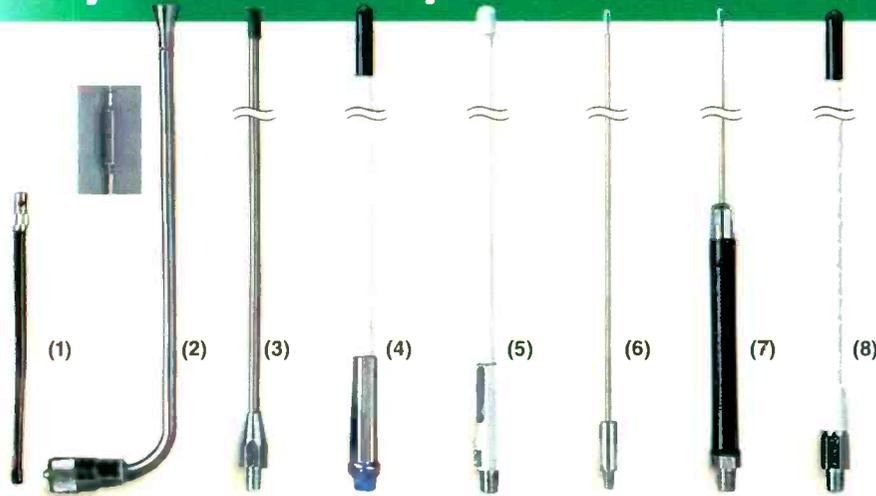
Mast not included  
See page 105

## Mobile and portable antennas for scanners



- (4) **Magnet-mount\* mobile scanner antenna.** No holes to drill. Covers 25 to 1300 MHz. About 36" high. With 16-foot cable and Motorola-type connector. **20-012 . . . . . 29.99**
- (5) **Indoor plug-in scanner antenna.** Center-loaded. Covers 30 to 512 MHz. Extends 16" to 40". Has Motorola-type plug. (Use our BNC plug adapter, #278-117, for scanners that have BNC antenna input connector.) **20-161 . . . 9.99**
- (6) **Mobile "cellular look-alike" glass-mount scanner antenna.** No holes to drill. Easily installs on windshield or window glass. Covers 25 to 1300 MHz. 22" -high element. Includes 16-foot cable with BNC connector. **20-011 . . . . . 29.99**
- (7) **Center-loaded telescoping whip antenna.** For handheld scanners and Ham radios. Receives 25 to 1300 MHz. Also for transmitting on 144, 220 and 440 MHz Ham bands. Nine sections. BNC connector. **20-006 . . . . . 9.99**

\*Magnetic-mount antennas stay in place on flat, metal surfaces at highway speeds (55 mph). Not recommended for use on vinyl roofs. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details



## CB whips for replacement use . . . or your own custom antenna design

- (1) Flexible "rubber ducky" antenna. Fits most walkie-talkies. Clamps on. 21-980 . . . . . 9.99
- (2) Back-of-set CB antenna. Right-angle design. Connects directly to CB. 21-921 . . . . . 7.99
- (3) 102" stainless steel whip. For replacement or building your own antenna using coil and mounts below. Standard 3/8" -24 thread. 21-903 . . . . . 14.99
- (4) 102" fiber glass whip. With standard 3/8" - 24 thread. 21-905 . . . . . 14.99
- (5) 48" fiber glass whip. With standard 3/8" - 24 thread. 21-934 . . . . . 12.99
- (6) 39" stainless steel whip with adapter. Replacement whip for use with our #21-904, #21-908 and #21-940 mobile CB antennas and many others. 21-952 . . . . . 6.99

- (7) **NEW!** "All-terrain" whip. Extra-rugged 66" base-loaded steel whip. Really built to last! Great for replacement or custom use. 21-988 . . . 16.99
- (8) **NEW!** CB whip with weather band. Excellent VHF weather reception without compromising CB. Fiberglass. 49" long. (CMC) 21-986 . . . . . 16.99

## Coax cable assemblies

Ready to use. For mobile and home. With PL-259 plug at each end except #278-966\*: PL-259 to spade lugs.



Length	Cable	Cat. No.	Each
5 ft.	RG-8	278-969	7.99
20 ft.	RG-58	278-966*	7.99
50 ft.	RG-8	278-980	34.99
50 ft.	RG-58	278-971	14.99
2 ft.	RG-58	278-968	4.99

## Antenna accessories



- (1) Chromed spring. Removable 3/8" stud. 21-1118, 9.99
- (2) Slim spring. Removable 3/8" stud. 21-962 . . . . . 8.99
- (3) Ball mount. For mobile antennas. Chromed finish. Accepts springs above. 21-1115 . . . . . 11.99
- (4) Clip-on ducky mount. Clips to window. Lets you mount your scanner or talkie's flexible antenna outside the vehicle. Has 6-foot cord with BNC plug. 20-023 . . . . . 11.99



- (5) Glass ducky mount. Suction cups hold scanner or talkie's flexible antenna to inside of glass. Great for vehicle, home, travel. 6-ft. cord with BNC plug. 20-022 . . . . . 10.99
- (6) Bumper mount. Sturdy mobile antenna mount with dual chains and protective vinyl covers. 21-910 . . . . . 12.99



- (7) Antenna mount for rain gutter. 21-911, 5.99
- (8) Antenna mount for mirror or luggage rack. 21-937 . . . . . 9.99
- (9) Antenna hold-down clip. 21-917 . . . . . 1.99
- (10) Feedthru/adaptor. SO-239 to standard 3/8" thread. 21-961 . . . . . 4.99
- (11) Antenna feed-through. Lugs to standard 3/8" thread. 21-950 . . . . . 4.99

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## Communications helpers



Lapel speaker. Clips to collar or lapel. Makes it easier to hear belt-carried scanner or talkie. Coiled cord, 1/8" plug. 20-009 . . . 9.99

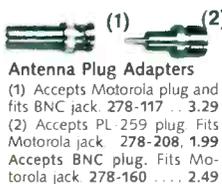
4" extension speaker. Quality sound. Mounting bracket 10-ft. cord, 1/8" plug. 21-549 . . . . . 14.99

Amplified speaker. As above but has 7.5W amp for extra volume from mobile scanners, CBs, Ham rigs, car phones. 12VDC neg. gnd. 21-541 . . 24.99



Communications headset. Mono headset for CB, scanner, SW, Ham, 1/4" and 1/8" plugs. 20-210 . . . . . 9.99

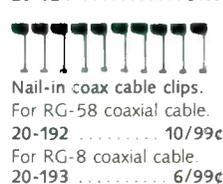
AC adapter/charger. For Radio Shack scanner models PRO-23, 25, 43, 46, 50, 51, 62. 20-188 . . . . . 6.99



Antenna Plug Adapters  
 (1) Accepts Motorola plug and fits BNC jack. 278-117 . . 3.29  
 (2) Accepts PL-259 plug. Fits Motorola jack. 278-208, 1.99  
 Accepts BNC plug. Fits Motorola jack. 278-160 . . . . 2.49



Carry case. Protects scanner, talkie or cellular phone. Padded vinyl. Heavy-duty belt loop. Adjustable strap. 20-024 . . . . . 9.99



Nail-in coax cable clips. For RG-58 coaxial cable. 20-192 . . . . . 10/99¢  
 For RG-8 coaxial cable. 20-193 . . . . . 6/99¢

# Improve Your CB or Scanner

Your nearby Radio Shack store stocks antennas, external speakers, cables and those hard-to-find replacement items for CBs and scanner radios. Our experts will answer your questions and help you get the best possible performance.



## Aeronautical frequency guide

Lists HF, VHF and UHF aviation frequencies used in USA, alphabetically by community. Allocation charts, designations. More than 400 pages. (CMC special order). 62-1030 . . 21.99

## Marine frequency guide

Covers HF, VHF and UHF frequencies used by Navy, Coast Guard and more. More than 400 pages. (CMC special order). 62-1031 . . 24.99

## Beyond Police Call

Lists frequencies used by security firms and theme parks, hotels, casinos, racing crews, movie and broadcast organizations, resorts, newspapers and lots more. 432 pages. 62-1040 . . . . . 9.99



## Police Call frequency guides

Regional editions list frequencies and call letters for police, fire, emergency services. Each 9.99

Volume	States Covered	Cat. No.
1	CT, ME, MA, NH, NY, RI, VT	62-1041
2	DE, MD, NJ, PA	62-1042
3	MI, OH	62-1043
4	IL, IN, KY, WI	62-1044
5	IA, KS, MN, MO, NE, ND, SD	62-1045
6	DC, FL, GA, NC, SC, VA, WV	62-1046
7	AL, AR, LA, MS, OK, TN, TX	62-1047
8	AZ, CO, ID, MT, NM, NV, WY	62-1048
9	CA, OR, WA	62-1049

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## Radio Shack is #1 in CB Radio Across the USA!

We have the best selection of Citizens Band 2-way radios and accessories around—nobody else even comes close.

We carry 40-channel mobile CBs, base station and single-sideband models, complete road-emergency CB radio systems, plus a comprehensive line of CB walkie-talkies. Whether you're looking for a full-power mobile CB, a performance-boosting antenna, or new Digital Signal Processor, you'll find it at Radio Shack. Even if you're just looking for answers to your CB questions, that's okay—we've got those too.



### Personal 2-way radio at its finest! 40-channel mobile CB with digital signal processing for virtually noise-free reception

TRC-493. Advanced Digital Signal Processor electronically "cleans up" the sound to virtually eliminate annoying whistles and whines that can spoil CB reception. DSP can be switched in or out as needed. You also get a full-time Automatic noise limiter plus RF gain, squelch and tone controls to further enhance your

reception. A priority switch instantly selects Channel 9—really helpful in an emergency. Has easy-to-read LED channel indicator and a 4-step LED signal/power meter. Jacks for adding external and public address speakers. With mike, fused DC cord and mounting hardware. 1<sup>3</sup>/<sub>4</sub> × 5<sup>1</sup>/<sub>2</sub> × 8". (TSP) 21-1590 . . . . . 149.99

### Drive with peace of mind! You'll never be out of touch with our road-emergency CB with built-in weather-band receiver

(1) TRC-460. This road-emergency CB is especially designed to be easy to operate for adults and children. Sets up in seconds—just plug CB power cord into lighter socket, put the antenna on any magnet-holding surface like your car's roof, turn it on, and talk. There's even a battery pack to use if your car's battery is dead. Travel directions and emergency road assistance are only a CB call away. Channel 9 priority switch gives you immediate access to the CB emergency channel. You can even tune in to local weather broadcasts 24 hours a day to avoid unsafe driving conditions. Talk/listen on all 40 CB channels. Digital channel-number display makes it easy to read which channel you select. Includes antenna, DC cord and 10<sup>3</sup>/<sub>4</sub> × 4<sup>1</sup>/<sub>8</sub> × 3<sup>3</sup>/<sub>4</sub>" storage case. Battery pack requires 8 "AA" batteries. No FCC license required. (TSP) 21-1559 . . . . . 89.99

### Put one under your car seat—emergency road assistance and travel directions will never be more than a CB call away!

(2) TRC-463. Don't take chances! Keep this road-emergency CB 2-way radio in your car for highway help, information on road conditions, or just for on-the-road conversations. The TRC-463 was designed to be easy for anyone to set up and use, even children. Just plug it into your vehicle's cigarette lighter socket, place the magnetic-mount antenna on your vehicle's roof (or any magnetic surface), turn the radio on, and talk. Pressing the Channel 9 priority button immediately switches the radio to the universal emergency channel. Talk/listen on all 40 CB channels. Up/down channel selector, LED channel indicator. Everything you need fits in a sturdy carrying case that can slip under a car seat. Includes magnet-mount antenna, DC power cord and compact 10<sup>3</sup>/<sub>4</sub> × 4<sup>5</sup>/<sub>8</sub> × 2<sup>1</sup>/<sub>4</sub>" case. No FCC license required. (TSP) 21-1558 . . . . . 69.99



Model No.	Channel Changer	Auto Noise Limiter	Receive Power Meter	Transmit Power Meter	Ceramic Filter	PA	External Speaker Jack	Weather Band Channels	DSP	SSB
TRC-438	Rotary	✓	Bar	Bar	2		✓			
TRC-460	Up/Down	✓			1			3		
TRC-463	Up/Down	✓			2					
TRC-464	Up/Down	✓			2					
TRC-465	Rotary	✓	Bar	Bar	2	✓	✓			✓
TRC-479	Rotary	✓	✓	✓	2		✓			
TRC-481	U/D + Mic U/D	✓	✓	✓	2	✓	✓			
TRC-483	Rotary	✓	Bar	Bar	2	✓	✓	10		
TRC-492	Rotary	✓	Bar	Bar	2		✓			
TRC-493	Rotary	✓	Bar	Bar	2	✓	✓		✓	



### Dual-power base/mobile

**TRC-492.** Delivers superior reliability and clarity thanks to ANL and noise blanker circuits. "Electronic rotary-type" channel selector plus emergency Channel 9 and Channel 19 priority buttons. RF gain. Jacks for adding external speaker and headphones. Home AC or 12VDC neg./pos. ground. 2<sup>15</sup>/<sub>16</sub> x 11<sup>1</sup>/<sub>8</sub> x 8<sup>1</sup>/<sub>4</sub>" (TSP) 21-1549 ..... 149.99



### CB with 4-step S/RF meter

**TRC-438.** Dual ceramic filters virtually eliminate next-channel interference for clearer reception. Built-in automatic modulation circuit provides the best possible transmission signal. Automatic noise limiter, 4-step LED signal-strength and RF power-output meter, remote speaker jack. 1<sup>3</sup>/<sub>8</sub> x 4<sup>1</sup>/<sub>2</sub> x 7". (TSP) 21-1552 ..... 69.99



### Mini size, mini price

**TRC-479.** Our lowest priced mini transceiver mounts easily under dash to provide extra security and convenience on the road. Automatic noise limiter, dual ceramic filters, LED channel display. Jack for adding external speaker. 1<sup>3</sup>/<sub>8</sub> x 4<sup>1</sup>/<sub>2</sub> x 6<sup>1</sup>/<sub>2</sub>". (TSP) 21-1519 ..... 49.99



### **NEW** Mini CB—a great value

**TRC-464.** Features two ceramic filters for best clarity. Automatic noise limiter, digital channel display, transmit/receive LEDs. Backlit display and controls. Jack for remote speaker. Only 1<sup>3</sup>/<sub>16</sub> x 4<sup>1</sup>/<sub>4</sub> x 7" (TSP) 21-1554 ..... 59.99



### Our best mobile—AM/SSB

**TRC-465.** Provides 40 AM plus 80 single-sideband channels. Use sideband mode to talk to other sideband stations when range is a problem! Noise blanker and ANL. RF gain for greater receiver range. Jacks for external and PA speakers. 2 x 6<sup>1</sup>/<sub>8</sub> x 6<sup>1</sup>/<sub>8</sub>". (TSP) 21-1567, 169.99



### **NEW** CB with weather-band

**TRC-483.** Tune in to 24-hour weather broadcasts to learn about unsafe driving conditions or marine weather—receives all 7 U.S. and 3 International weather channels. Channel 9 priority switch, jacks for adding external and PA speakers. 1<sup>3</sup>/<sub>4</sub> x 5<sup>7</sup>/<sub>8</sub> x 8". (TSP) 21-1557 .. 99.99



### On-mike channel selector

**TRC-481.** Channel switches are located on both the front panel and mike—makes channel selection really convenient. Emergency Channel 9 priority switch for help in a hurry. Jacks for PA, remote speaker. Only 1<sup>3</sup>/<sub>8</sub> x 5<sup>1</sup>/<sub>4</sub> x 6<sup>1</sup>/<sub>4</sub>". (TSP) 21-1550, 79.99

# The Ideal Traveling Companion!

A Citizens Band radio is the easy way for you or your family to get road assistance or highway directions. But, it can be fun, too! You can talk or just listen to pass time while you're on the road. There are millions of CB'ers on the highways, and Radio Shack is America's #1 CB store. We have a CB radio with the features and price you're looking for.



### Regulated power supply lets you use your mobile CB radio at home

Plug it into 120VAC house current and power your mobile CB radio and other car accessories that use 12VDC. The tightly regulated voltage output (less than 20 millivolt ripple) makes it safe to use with mobile CBs, Ham radios, CD players, tape players or anything you would power with a vehicle's DC electrical system. Electronic experimenters and technicians find it very handy as a bench power supply. Push-to-reset circuit breaker, LED "on" indicator, massive heat sink for cool operation. Rated 2.5 amps continuous. UL listed. 22-120 ..... 39.99



### **NEW** Noise reduction system

Computer-controlled Digital Signal Processor with a built-in audio amplifier and speaker. Dramatically cuts annoying heterodyne tones and reduces background noise in all communication radios—Ham, shortwave, CB and HF-marine equipment. Selectable low-pass filter, 5-watt audio amplifier, Morse code (CW) filters, SSB bandpass filters and DSP indicator (shows you the optimum input audio level). 1/8" jack for connecting remote speaker. With installation instructions and mounting hardware. (TSP) 1<sup>15</sup>/<sub>16</sub> x 4<sup>9</sup>/<sub>16</sub> x 7<sup>1</sup>/<sub>16</sub>". 21-543 ..... 79.99

## For Work or Play!

No License Required

Stay in touch with walkie-talkies from Radio Shack—the first name in CB radios. Our lineup of handheld walkie-talkies includes models that receive the entire 40-channel Citizens Band, 1-channel budget models, plus 3-channel models ready to use on CB channel 14, with provisions for adding two more channels anytime. If you need reliable 2-way communications for work or play, see us first.



**40 channels, full legal power, hi/lo power saver switch, LED display**

(1) TRC-222. Big features, small price. Ceramic filter, automatic noise limiter, squelch. Center-loaded antenna, jacks for adding external antenna, AC charger and DC power. 7<sup>7</sup>/<sub>8</sub> × 2<sup>3</sup>/<sub>4</sub> × 2<sup>1</sup>/<sub>2</sub>". 5 watts input. Requires 8 "AA" alkaline or 10 rechargeable batteries or DC adapter. (TSP) 21-1646 ... 79.99

**NEW 40 channels, full legal power, hi/lo power, flexible antenna**

(2) TRC-225. Power miser! Saves power by dimming display after showing channel. Ceramic filter, automatic noise limiter, squelch. External antenna, charger and power jacks. 8 × 2<sup>7</sup>/<sub>8</sub> × 2<sup>1</sup>/<sub>8</sub>". 5 watts input. Requires 8 "AA" alkaline or 10 rechargeable batteries or DC adapter. (TSP) 21-1647 ... 99.99

**NEW 40 channels, full legal power, power saver, spare battery case**

(3) TRC-227. With illuminated LCD display, Ni-Cd and alkaline battery packs. Ceramic filter, ANL, adjustable squelch. External antenna, mike, speaker, charger and power jacks. 7 × 2<sup>3</sup>/<sub>8</sub> × 1<sup>1</sup>/<sub>4</sub>". 5 watts input. Requires 8 "AA" alkaline or 10 rechargeable batteries or DC adapter. (TSP) 21-1675 ... 149.99



**Three channels, two watts and ceramic filter**

TRC-223. Ceramic filter and automatic noise limiter for clear signal. Adjustable squelch. Separate speaker and mike, low-battery LED. Jacks for external antenna, AC charger and DC power. With Channel 14 crystals plus slots for adding two more. 7<sup>1</sup>/<sub>2</sub> × 2<sup>1</sup>/<sub>2</sub> × 2". Requires 8 alkaline or 10 "AA" rechargeable batteries. (TSP) 21-1641 ... 49.99



**Three channels, 300 mW, battery test button**

TRC-91. Has separate speaker and microphone for the best transmission and reception clarity. Battery test button with LED indicator, telescoping antenna. Includes Channel 14 crystals and provides space for adding two more channels when you want them. 7<sup>1</sup>/<sub>4</sub> × 3 × 1<sup>1</sup>/<sub>5</sub>". Requires 6 "AA" batteries. 21-1613 ... 29.99

**Handy accessories for use with most CB walkie-talkies**

**Protective carrying case.** Shields CBs, scanners and other portables from dust and water, helps prevent damage from minor scuffs and knocks. Heavy-duty belt loop for hands-free carrying. 20-004 ... 9.99

**Flexible "rubber ducky" antenna.** Safer and more convenient than conventional telescoping antennas—less likely to snag on objects and break, and easier to use in a confined space. 21-980 ... 9.99

**Ni-Cd battery charger.** Save money over the life of your radio by using rechargeable Ni-Cd batteries. Just plug into CB's charging jack for convenient recharging. 21-516 ... 6.99

**12VDC Cord.** Power your CB or other portable from your car, RV or boat's 12-volt battery. 8-ft. long. For portables with DC power jack. 270-1533 ... 3.99



**Three channels, three watts, Range Boost**

TRC-224. Range Boost system and center-loaded antenna to extend reach. Squelch, ANL, separate speaker and mike, low-battery LED. External antenna, AC charger and DC jacks. With Ch. 14 crystals, slots for two more. 7<sup>1</sup>/<sub>2</sub> × 2<sup>1</sup>/<sub>2</sub> × 2". Requires 8 alkaline or 10 rechargeable "AA" batteries. (TSP) 21-1642 ... 59.99



**With Channel 14 crystals, 100 mW, value priced**

TRC-90. Reliable two-way communications to fit anyone's budget. Combination 2-way speaker/microphone makes this transceiver lightweight and easily packed. Sturdy built-in telescoping antenna. With Channel 14 crystals and handy wrist strap. 7<sup>1</sup>/<sub>4</sub> × 3 × 1<sup>1</sup>/<sub>5</sub>". Requires 9V battery. 21-1612 ... 19.99

**Add a channel! CB walkie-talkie transmit and receive crystals**

If your crystals aren't listed below, our special-order service can get them, fast to your Radio Shack (not including synthesizer-type). Ask for details.

Channel	Cat. No.	Pair
5	21-1205	4.99
9	21-1202	4.99
11	21-1207	4.99
19	21-1219	4.99
30	21-1230	4.99
35	21-1235	4.99



### Hands-free "audionic" in-ear

**TRC-508.** Hearing-aid quality earpiece becomes a high-quality mike when you speak—reduces background noise when transmitting. Voice activated—transmits when you talk, receives when you listen. Belt clip. Up to 1/8-mile range. 2 1/2 x 4 15/16 x 1". Each requires 9V battery. 21-408 . . . . . Pair 89.99



### Five-channel hands-free headset

**TRC-507.** Five channels let you talk to the neighborhood or your whole work crew. Voice-activated or manual operation. Dual-conversion superhet receiver, volume and VOX sensitivity controls. Belt clip. Up to 1/4-mile range. 5 1/2 x 2 15/16 x 1 5/16". Requires 9V battery. (TSP) 21-407 . . . Each 49.99



### Amplified speaker

7.5-watt output. For CBs, scanners, cellular phones and Ham radios. 1/8" jack. With 4-ft. cable, hardware, bracket. 8 ohms. 12VDC neg. gnd. 21-541 . . . 24.99



### Extension speaker

Easy to install for use with CB, scanner, cellular phone and more. Includes 10-foot cable with 1/8" plug. Handles 5 watts. 8 ohms. 21-549 . . . . . 14.99



### Slide mount

Low-cost protection! CB slides off bracket to help prevent theft. Includes under-dash mounting hardware. Easy to install yourself. 21-566 . . . . . 19.99



### One-channel hands-free headsets

**TRC-506.** Selectable voice-activated or manual operation. Dual-conversion superhet receiver, volume and VOX controls. Headset and belt clip. Up to 1/4-mile range. 4 9/16 x 2 1/2 x 1 5/16". Each requires 9V battery. (TSP) 21-406 . . . . . Pair 69.99



### Compact 5-channel handheld

**(1) TRC-1000.** Pocket size! Only 6 7/8 x 2 5/8 x 1 1/16". Five channels for multi-unit use. Superhet circuit for low-noise. Call button sends alert-tone signal. Low battery LED. Telescoping antenna. Up to 1/4-mile range. Requires 9V battery 21-412 . . . Each 39.99

### Mini-size 1-channel handheld

**(2) TRC-509.** For work or play. Superhet circuitry for low noise. 2" speaker. Low-battery LED. Up to 1/4-mile range. Just 4 3/4 x 2 5/8 x 1 1/32". Requires 9V battery. 21-409 . . . . . Each 24.99



### Mike holder

Easy to mount and convenient to use—lets you hang up your CB microphone within easy reach. Magnet keeps holder in place. 21-1130 . . . . . 1.99



### Microphone clip

Hang up your CB mike within easy reach. Holder mounts conveniently on vehicle dash. With mounting hardware for secure fastening. 21-923 . . . . . 99c



### Hump mount

Flexible platform rests on floorboard, holds your CB at an easy-viewing angle. No installation—moves easily from one vehicle to another. 21-540 . . . . . 19.99



### 12VDC power cord

Replacement 3-pin power cable with plug. Fits most CBs. Fuse holder, color-coded wires. 48" long. Requires 2-amp fuse. 21-550 . . . . . 4.99



### Field strength/SWR testers

For tuning CB and HF Ham radio antenna to maximum efficiency. Low-insertion loss—can be mounted permanently into line. Covers 3-30 MHz.

**(1) Field strength/SWR tester.** Measures signal transmitted. Handles up to 1000 watts. 21-523 . . . 19.99  
**(2) SWR/power meter.** Measures peak/average power. Handles 2000 watts. 21-524 . . . . . 29.99



### DSP noise reduction system

Computer-controlled Digital Signal Processor eliminates annoying tones (heterodynes) and reduces background noise. Use with all communication receivers including Ham, shortwave, HF-marine and CBs. 5-watt amp, speaker. SSB and CW bandpass filters. Jacks for ext. speaker and AC adapter. 12VDC neg. gnd. (or AC adapter, extra). (TSP) 21-543, 79.99



### Amplified CB mike

Noise-cancelling design makes it ideal for mobile use. Coiled cord with DIN-type plug. Requires RS#23-1503 7V battery. 21-1175 . . . . . 29.99



### Dynamic CB mike

Standard mike includes coiled cord with 5-pin DIN connector that fits most CBs. With hanger and mounting hardware. 21-1172 . . . . . 19.99

## Personal 2-Way Radio at Its Finest!

Keep in touch at work or around your home. Radio Shack can help you keep the lines of communication open and make sure you come in loud and clear every time.

### VHF-FM business transceiver

(1) BTX-120. Rugged, rechargeable 2-way radio is ideal for construction, security, factories, schools, hospitals and more. Easy operation. One-watt transmitter provides range up to several miles and has a hi/lo power switch to save batteries during short-range use. Includes crystals for 154.600 MHz. Add crystals for your assigned frequency in the 151.250-156.255 MHz band. With squelch control to cut noise between calls, and jacks for adding our speaker/mike (#19-310) or earphone (#33-175). Includes battery pack, AC charger, case, belt clip and detachable antenna.  $6 \times 2\frac{1}{2} \times 1\frac{1}{2}$ " (TSP) 19-1202 . . . . Each 149.99  
 Extra battery pack. (CMC) 19-301 . . . 39.99  
 Quick-charge battery. (CMC) 19-307 . . . . . 49.99  
 Desktop quick-charger. (CMC) 19-308 . . . . . 69.99  
 IMPORTANT: An FCC license is required for operation. Application is included.



### UHF-FM personal transceiver

(2) PRS-100. Personal 2-way radio with professional sound quality and dependability! Delivers crystal-clear sound and quiet reception with range up to several miles. Perfect for family members around the home or when you travel, hike, camp, fish, even when you shop. 2-channel radio operates on 462.7125 and 462.6375 MHz. Squelch control keeps receiver silent until a call comes in. Includes rechargeable battery pack, UL listed AC charger, detachable antenna and belt clip. Jacks let you add our speaker/mike (#19-310 on page 39).  $5\frac{3}{4} \times 2\frac{1}{2} \times 1$ " (TSP) 19-900 . . . . . Each 229.99  
 IMPORTANT: This radio is for the General Mobile Radio Service (GMRS). An FCC license is required for operation. There is no test, but there is a fee (\$35 as of this catalog printing date). A license application, instructions and sample application are included.



Radio Shack  
VHF FM TRANSCEIVER

### NEW Quarter-wave magnet-mount antenna

A  $\frac{1}{4}$  wavelength on 2 meters, but the stainless-steel whip section can be easily trimmed (chart included) for operation up to 500 MHz. Mounts almost anywhere on vehicle—the strong magnet-mount base has “no-scratch” surface for protection. Rated 200 watts and comes ready to go with

12 feet of coaxial cable and BNC connector. Just detach “duck” antenna from business, personal or Ham transceiver and connect. (CMC) 19-341 . . . . . 19.99



(1)

## 2-meter FM Ham transceiver

(1) HTX-202. Proven performer! Selective 2-meter (not wideband) receiver fights interference. True FM transmit provides excellent voice clarity and efficiency on packet. You get a high-capacity Ni-Cd pack, subaudible tone (CTSS) encoder and decoder, Touch-Tone (DTMF) dialer and five memories for autopatch, DTMF decoder, multifunction scanning, hi/lo power switch, 16 frequency memories, jack for 12VDC operation (5W output). Tunes 144-148 MHz. Includes AC charger and pack for "AA" alkaline batteries.  $6\frac{9}{16} \times 2\frac{9}{16} \times 1\frac{7}{8}$ ".

(TSP) 19-1120 ..... 259.99

## 440-MHz FM Ham transceiver

(2) HTX-404. All the features of radios costing much more. Selective receiver cuts interference even in crowded downtown RF environments. True FM modulation delivers superior clarity on transmit. Provides 2.5-watt output with included 7.2V Ni-Cd pack, up to 5W on 12VDC. Has built-in subaudible tone (CTCSS) encoder and tone squelch, Touch-Tone (DTMF) encoder and nine memories for autopatch, a DTMF decoder for Touch-Tone page, high/low power button, 16 frequency memories, multifunction scanning. Tunes 440-450 MHz FM. With AC charger, "AA" alkaline battery pack.  $6\frac{9}{16} \times 2\frac{9}{16} \times 1\frac{7}{8}$ ".

(TSP) 19-1140 ..... 299.99

IMPORTANT: You Must Have an FCC Amateur Radio License of Technician Class or Higher to Transmit with the HTX-404 or HTX-202. Expertly prepared manuals make these radios easy to use by beginning or more experienced Hams.



(2)

## Accessories to help you get the most out of your handheld radio.



Radio Shack stocks an excellent study guide for the no-code Technician class amateur radio exam, as well as guides for the Novice, Tech Plus, General and Advanced class. We also offer a complete Morse Code course on cassettes and a Ham radio logbook with a handy reference section. See page 210.

### No-code Ham radio software

Learn to be a Ham radio operator with this program for your personal computer. Prepares you for the FCC novice and technician amateur radio license exams. Lets you review every possible exam question, with clear explanations and correct answers. You can print out sample tests or take exams at your PC keyboard. Requires a PC-compatible computer. 25-1950, 29.99

### Magnetic-mount mobile antenna

This  $\frac{3}{8}$ -wave magnetic-mount, 2-meter Ham radio antenna holds securely to any flat magnetic-metal surface, even at normal highway speeds. It has a steel loading coil, and you can easily adjust the tapered stainless-steel whip to get the lowest SWR (standing-wave ratio) and the maximum RF radiation. 19-210 ..... 39.99



### 2-meter power amplifier perfect for mobile use

Here's a way to boost your signal and get clearer, crisper reception when you're operating your 2-meter radio in your car. Power amplifier features a helical receive filter and compensating-receive preamplifier to help cut intermodulation interference—it's ideal for RF-crowded urban areas. Operates on 2-meter VHF band (144-148 MHz), FM only. 30 watts of output power, accepts 0.5 to 5.0 watts input. Requires 13.8VDC.  $1\frac{3}{8} \times 3\frac{15}{16} \times 6\frac{1}{8}$ ". (TSP) 19-1122 ..... 119.99



### Handheld speaker/microphone

Keep your talkie on your belt for even easier hand-held use. Designed for use with HTX-202/404 plus many ICOM, Standard and Yaesu handhelds. 19-310 ... 19.99

See page 150 and 151 for AC and DC power adapters.

Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE SHACK for details.

# Worldband radios with precise digital tuning.



### Dual-time display, BFO for SSB/CW reception

**DX-390.** Full-size portable radio brings you complete worldband shortwave coverage plus AM, FM and longwave. Its 4" speaker delivers excellent sound and you can enjoy FM in stereo through the headphone jack. Digital tuning system is easy to use and versatile. Scan up/down, use rotary tuning, enter frequencies on the keyboard, or store 45 stations for instant recall. BFO with pitch control lets you tune in single-sideband voice and CW (code) from Hams and

others. A dual-time clock displays local and a second time zone, both in military 24-hour format. Sleep timer turns radio off after 60 minutes. Alarm turns radio on at the time you set or sounds a crescendo buzzer. Controls include FM mono/stereo, AM wide/narrow, RF gain. Dual-conversion circuit, multifunction LCD display, jacks for adding headphone, external antenna and power. Handy desk stand. 7 1/2 x 11 7/8 x 2 7/8". Requires 3 "AA" and 4 "D" batteries or AC or DC adapter. (TSP) **20-214 . . . . . 219.99**



### Our finest ever! Built-in cassette, auto-recording

**DX-392.** Brings you the excellent performance, wide coverage and versatility of the DX-390, above, plus a built-in recorder and easy-to-use digital timer. You can set this receiver to record a program automatically so you can hear it at a more convenient time. You can also tape memos and notes using the built-in electret mike, and play prerecorded tapes. Tape deck has audible cue/review to help you find desired material, auto-stop, and a

chrome/normal selector. Precise digital tuning system has up/down, rotary, direct-entry, and presets for 45 stations. BFO with pitch control receives single-sideband and CW (code). RF gain, wide/narrow selectivity and tone controls. Dual-time display (24-hour format). Sleep timer. Radio or crescendo buzzer alarm. Dual-conversion circuit. Jacks for adding headphone, external antenna and power. Desk stand. 7 1/2 x 11 7/8 x 2 7/8". Requires 3 "AA" and 4 "D" batteries or AC or DC adapter. (TSP) **20-219 . . . . . 259.99**

# A World of Radio at Your Fingertips

*Radio Shack's easy-to-use shortwave radios let you travel far and near without leaving home. What can you hear?*

*The detailed news from the BBC and the Voice of America are among the most popular programs. Often, you'll hear about events first on shortwave, and you'll always hear a variety of opinions. Dozens of special-interest, musical and religious programs are available every day.*

*Shortwave is a link home for people who travel and serve overseas. It's a great tool for students and teachers of foreign languages. A word for beginners: Reception can vary on shortwave and you don't always get every station every day. This challenge is just another reason why shortwave listening is interesting and exciting.*

Model No.	Cat. No.	Frequency Coverage
DX-350	20-209	LW, AM, FM, SW: (MHz) 5.85-6.20 (49m), 7.05-7.45 (41m), 9.45-9.90 (31m), 11.60-12.00 (25m), 13.55-13.85 (21m), 15.10-15.60 (19m), 17.45-18.00 (16m), 21.45-21.95 (13m), 25.67-26.15 (11m), AM mode.
DX-351	20-215	LW, AM, FM, FM stereo*. SW: (MHz) 4.57-5.05 (60m), 5.9-6.2 (49m), 7.05-7.65 (41m), 9.45-9.9 (31m), 11.45-12.05 (25m), 13.35-14.05 (21m), 15.10-15.60 (19m), 17.5-18.15 (16m), 21.5-21.95 (13m), AM mode.
DX-375	20-212	AM, FM, FM stereo*. SW: 2.3-6.25 MHz and 7.1-21.85 MHz, AM mode.
DX-390	20-214	LW, AM, FM, FM stereo*. SW: continuous from 1.711 to 29.999 MHz, AM or SSB-CW mode.
DX-392	20-219	LW, AM, FM, FM stereo*. SW: continuous from 1.711 to 29.999 MHz, AM or SSB-CW mode.

\*FM stereo requires stereo headphones. LW = longwave, SW = shortwave, M = meters. Worldbands (international broadcast bands) are designated in meters: 60m, 49m, 41m, etc.

## Hear forecasts and alerts with a Weatheradio®

A **Weatheradio** is your "hotline" to the NOAA Weather Radio station in your area. These stations transmit local forecasts and storm warnings from more than 380 locations nationwide. Recently the National Weather Service announced plans to build more stations to cover many more areas.

**Radio Shack Weatheradios** are simple to use. They are available in compact desktop and portable models shown on these two pages. We also offer mobile CBs with weather receivers built in. (See page 34).

**Radio Shack introduced** its Weatheradio receivers in 1968. Since then, they have brought peace of mind and extra safety to families at home, outdoor workers, hunters, campers, boaters and travelers. Today, there are well over a million satisfied owners of Radio Shack Weatheradios across the USA.



### Weatheradio with automatic alert

Standard push-and-play operation plus alert. When the Weather Radio station sends an alert signal, the radio sounds an alarm to warn you of bad weather. Touch the play button for details. Backup system operates alert feature and radio if power fails. Crystal controlled. Receives Weather Radio stations up to 50 miles away. 2 x 6 x 4 1/8". UL listed AC. Backup requires 9V battery. **12-240 . . . . . 39.99**

Receives Weather Radio on 162.400, 162.475 and 162.550 MHz.



### Desktop 7-channel Weatheradio

This compact receiver tunes the three main Weather Radio frequencies, plus four others used in selected areas. It operates on a 9V battery so you can stay informed if AC power fails. You can add our AC adapter #273-1650 to conserve the battery. Crystal-controlled. Receives Weather Radio stations up to 50 miles away. 1 1/8 x 5 3/4 x 4 1/8". **12-243 . . . . . 39.99**

Receives Weather Radio stations on 162.400, 162.425, 162.450, 162.475, 162.500, 162.525 and 162.550 MHz.



### Our smallest shortwave portable

**DX-351.** Only 3 1/8 x 5 1/2 x 1 1/8", ideal for travel. Tuning dial is designed for easy reading. It has 12 separate scales, one each for LW, AM, FM and 9 international shortwave broadcast bands. LED tuning indicator, slide-action band selector, 2" speaker, jacks for adding headphone and external power. Requires 2 "AA" batteries or AC or DC adapter. (TSP) **20-215 . . . . . 49.99**

### Compact, 12 bands, superb value

**DX-350.** Dial has 12 separate, easy-to-read scales for LW, AM, FM and 9 international shortwave broadcast bands. Has slide-action band selectors, separate on/off and volume controls, LED tuning indicator, 2 1/2" speaker, jacks for adding a headphone and external power. 4 x 7 x 1 1/2". Requires 4 "AA" batteries or AC or DC adapter. (TSP) **20-209 . . . 59.99**

### Digital tuning, 30 presets, search

**DX-375.** Our most affordable portable shortwave radio with digital tuning. Has pushbutton up/down and search tuning, presets for 30 stations, and memory scan. 60-minute sleep timer. Tone control, 3" speaker, jacks for adding stereo headphone and external power. 7 1/4 x 4 3/4 x 1 3/8". Requires 2 "C" batteries or AC or DC adapter. (TSP) **20-212 . . . 99.99**

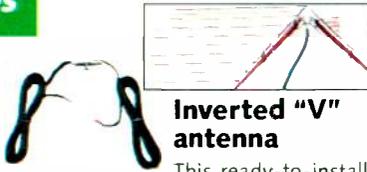
Portable Shortwave Receiver Model	Cat. No.	Tuning System	Shortwave Coverage	LW Band	AM Band	FM Band	Tuning Presets	BFO for SSB/CW	Clock	Timer
DX-350	20-209	Analog	9 world bands, 49-11 meters	✓	✓	✓				
DX-351	20-215	Analog	9 world bands, 60-13 meters	✓	✓	✓				
DX-375	20-212	Digital	2.3-6.25 and 7.1-21.85 MHz	✓	✓	✓	10 AM, 10 FM, 10 SW			Sleep
DX-390	20-214	Digital	Continuous, 1.711-29.999 MHz	✓	✓	✓	9 LW, 9 AM, 9 FM, 18 SW	✓	Dual time	Sleep, Auto-on
DX-392	20-219	Digital	Continuous, 1.711-29.999 MHz	✓	✓	✓	9 LW, 9 AM, 9 FM, 18 SW	✓	Dual time	Sleep, Auto-on

## Shortwave Accessories



### Shortwave book and audio tape

**Listening to Shortwave Radio.** By Ken Winters. Fact-filled 64-page book and accompanying cassette get you started in the exciting hobby of worldband listening. Learn about radios and antennas, times to listen, and much more. **62-1021, 6.99**



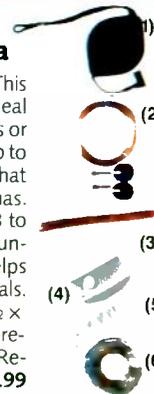
### Inverted "V" antenna

This ready-to-install multi-element dipole antenna delivers truly outstanding reception on shortwave frequencies. Can be mounted on a single mast, on or under roof eaves, or in attic. Overall length: 65 feet. Accepts PL-259 coax connector. Requires coax (page 33). Was 39.99 in 1994 Catalog. **20-181 . . . . . New Low Price 29.99**



### Amplified indoor antenna

Praised by experts! This compact antenna is ideal for apartment dwellers or travelers. It delivers up to 20 dB gain for reception that rivals most outdoor antennas. A preselector peaks signals in the 3 to 30-MHz range and helps reject unwanted signals. A gain control helps prevent overloading by strong signals. 29" telescoping whip antenna. 4 1/2 x 4 x 1 1/2" body. Jack allows use as preselector with external antenna. Requires 9V battery. **20-280 . . . 29.99**



### Antennas, more

- (1) Portable shortwave antenna. 23-foot wire element stores on compact reel when not in use. **278-1374 . . . . . 8.99**
- (2) Antenna kit. 70-ft. wire, 50-ft. lead-in, window feedthrough, insulators. **278-758 . . . . . 9.99**
- (3) Antenna wire. 75 feet of super-strong 14-gauge, 7-strand bare copper. **278-1329, 6.99**
- (4) Mini-egg insulators. Strong. **278-1335 . . . . . Pkg. of 2/3.99**
- (5) "Dogbone" insulator. 3 1/2" long. **278-1336 . . . . . 2.99**
- (6) Outdoor RF connector sealant. Seals out moisture. 60" roll. **278-1645 . . . . . 2.99**

## Weatheradios



### Desktop Weatheradio®

Adjust volume to a level you like. From then on, just touch a button. Crystal-controlled circuit. Receives Weather Radio stations up to 50 miles away. 1 1/8 x 5 3/4 x 3 1/2". Requires 9V battery or AC adapter. **12-241 . . . . . 21.99**  
Receives 162,400, 162,475 and 162,550 MHz



### Pocket Weatheradio

Perfect for hunters, hikers, golfers, bikers, boaters, travelers, outdoor workers. Crystal-controlled circuit brings in NOAA Weather Radio stations up to 40 miles away. 4 1/4 x 2 5/8 x 7/8". Requires 9V battery. **12-242 . . . . . 19.99**  
Receives 162,400, 162,475 and 162,550 MHz



### Pocket Weatheradio Alert

Alarm sounds when the weather station transmits a special alert signal. Flip a switch to hear warning. Alert lock and alert test functions. Crystal controlled. 50-mile range. 4 3/4 x 2 5/8 x 1". Requires 3 "AA" batteries. **12-143 . . . . . 29.99**  
Receives 162,400, 162,475 and 162,550 MHz



### 7-channel Weatheradio

Cube style is ideal for desktop or bedside table. Receives the three main weather frequencies plus four more used in some areas. Up to 40-mile range. 3" square. Requires 9V battery. **12-239, 19.99**  
Receives 162,400, 162,425, 162,450, 162,475, 162,500, 162,525 and 162,550 MHz



**Digital-tuning AM/FM stereo receiver with LCD display**

**STEREO-MATE®.** Looking for the best in an AM/FM stereo pocket receiver? This one features pushbutton digital tuning with six FM and six AM presets for quick access to your favorite stations. Extended Bass for rich lows, LCD display, built-in monaural speaker and jack for stereo headphones. Belt clip. Requires 2 "AAA" batteries. (TSP) 12-169 ..... 49.99



**Digital-tuning AM/FM stereo receiver with TV sound**

**PortaVision®.** Keep up with TV news, sports and entertainment anywhere! Convenient pushbutton digital tuning with 19 presets locks in FM stereo, AM and channel 2-13 TV audio. LCD display. Auto shutoff. Built-in monaural speaker and stereo headphone jack. Requires 2 "AA" batteries. (TSP) 12-174 ..... 69.99

# Portable Radios for Your Active Lifestyle

Choose your next AM/FM personal stereo receiver, headset or pocket radio from Radio Shack, the leader in U.S. radio sales. Whether you're looking for a handheld to take to the game or a headset for working out, our wide selection will make it easy to find the right radio at the right price.



**NEW** Lightweight AM/FM stereo headset with Extended Bass

This lightweight AM/FM stereo offers easy-to-use rotary controls and Extended Bass for deep, rich sound. Designed with comfort in mind and weighing only 8 ounces, it's ideal for jogging, gardening or anytime you need your hands free. Requires 2 "AAA" batteries. 12-920 ..... 39.99



**NEW** Stereo headset with precise digital tuning

Enjoy pushbutton digital tuning with 10 FM and 10 AM presets plus Extended Bass for deep, rich sound. You also get automatic FM stereo/mono switching for best reception plus battery-saving auto power-off. Requires 2 "AAA" batteries. (TSP) 12-105 ..... 69.99



**Ultralight AM/FM stereo headset**

Weighs a mere two ounces, yet delivers sensational stereo sound. Folding design lets you carry the headset easily in gym bag or coat pocket. Extended Bass boosts lows for rich sound. Requires "AAA" battery. 12-103 ..... 39.99



**Light and sturdy AM/FM stereo headset**

This durable performer weighs just six ounces with batteries installed. Features FM-AFC to lock in stations plus built-in AM and FM antennas. Balance control. Adjustable band. Requires 2 "AAA" batteries. 12-104 ..... 34.99



**NEW** AM/FM stereo headset

Extended Bass, light comfortable design and a great low price make this a real value. Weighs only 5 oz. with battery. Cushioned earpads. Rotary tuning control. Requires 1 "AA" battery. 12-921 ..... 24.99



**Fun, colorful, totally delicious Flavoradio®**

These colorful pocket AM radios are kids' favorites. Built-in monaural speaker, and we include an earphone for private listening. Each requires 2 "AA" batteries. Blackberry, 12-201. Blueberry, 12-202. Strawberry, 12-203 ..... Each 6.99



**AM/FM FunMate® pocket radios**

A choice of three colors and a great-looking design make FunMate the perfect AM/FM fashion radio for youngsters. Telescoping antenna. Handy wrist strap. Built-in speaker. Includes earphone. Pink, 12-730. Green, 12-734. Gray, 12-735 ..... Each 9.99



Personal stereo receivers feature a 1/8" jack for adding lightweight stereo headphones—see page 78 for selection.



**NEW** AM/FM/TV sound/air/weather

Get MORE from your radio. This multiband portable receives AM, FM, National Weather Service reports and forecasts plus VHF for aircraft communications between pilots and control towers. It also tunes in channel 2-13 TV sound so you can keep up with your favorite shows when you're away from the TV. Requires 4 "AA" batteries. 12-456 ..... 39.99



**NEW** AM/FM water-resistant radio

If you enjoy singing in the shower, you'll love performing with backup music from this water-resistant AM/FM radio. It features a large hook and cord for hanging in the shower or by the pool and easy-to-turn volume and tuning controls. Built-in FM antenna. 3" monaural speaker. Requires 2 "AA" batteries. 12-787 ..... 14.99



**NEW** Deluxe AM/FM pocket radio

Take this exceptional AM/FM pocket radio to the beach or ballpark and you'll see just how big a difference its little "extras" make. Features hi/lo tone control for best sound on voice or music broadcasts, FM-AFC to lock in stations, rotary tuning control and wrist strap for carrying. Earphone for private listening. Requires 3 "AA" batteries. 12-454 ..... 14.99



AM/FM travel clock radio

This radio's easy-to-read LCD display, station-search feature and 10 memory presets make finding and storing your favorite stations a snap. Digital tuning locks in stations for drift-free reception. Built-in clock with alarm. Monaural speaker. Requires 4 "AA" batteries or DC adapter. 12-626 ..... 39.99



Floating AM/FM radio

SWIMMATE. There's no need to worry about getting this radio wet at the pool or beach. It floats and resists water so you can take it in with you! Nylon strap. Requires 4 "AA" batteries. 12-204 ..... 19.99



AM/FM portable radio with AFC

Enjoy clear, rich sound at home, in the park, on the beach—you name it! Features switchable FM-AFC to provide better reception of weak stations adjacent to strong ones. Adjustable tone control, slide-rule tuning. Has full-range 4" monaural speaker and earphone for private listening. UL listed AC (or 4 "C" batteries, extra). 12-639 ..... 39.99



Hear TV sound or aircraft

Pocket PortaVision®. Hear TV channels 2-13 plus FM and AM. Requires 3 "AA" batteries or AC adapter. 12-614 ..... 29.99  
Jetstream® AM/VHF-Air. Hear aviation communications on 108-135 MHz band. With earphone for private listening. Requires 9V battery. 12-601 ..... 19.99



Rugged AM/FM portable radio

This hardworking portable consistently delivers excellent sound. It features an FM ceramic filter for best possible reception, FM-AFC to lock in stations, and a hi/lo tone switch for best sound on voice or music. Telescoping FM antenna and built-in AM antenna. Slide-rule tuning. Large 3" speaker, earphone. UL listed AC (or 4 "C" batteries, extra). 12-726 ..... 24.99



Slim AM/FM pocket radio

This low-priced portable slips easily into a pocket for terrific sound at the ballgame, on the lake, around the campfire or at home in the back yard. Has built-in monaural speaker, includes earphone and wrist strap. An excellent value—sure to please for years. Requires 2 "AA" batteries. 12-727 ..... 12.99



AM/FM and AM/FM/TV portables

AM/FM. FM-AFC locks in stations while Bass-Boost enhances lows. Full-range speaker. Earphone. UL listed AC (or 4 "C" batteries, extra). 12-686 ..... 29.99  
TV-sound. As above plus VHF-TV audio on channels 2-13. Listen to music, news, weather, and keep up with all your favorite soaps. 12-687 ..... 39.99



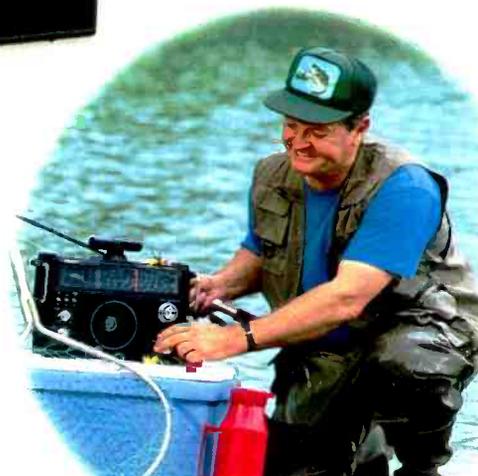
Mini AM/FM stereo portable

This little receiver is ideal for small offices or travel. Left/right volume and balance controls. Requires 4 "AA" batteries or AC or DC adapter. 12-722 ..... 29.99



"Everything" portable receiver tunes CB, SW, TV, VHF, AM, FM

This rugged multiband receiver does it all! Take it with you to enjoy local FM and AM stations, international shortwave broadcasts, channel 2-13 TV sound, VHF aircraft and Citizens Band communications. And when you add a microphone, it's a portable PA system! Big 4" speaker delivers excellent sound. Includes earphone for private listening. Shoulder strap. UL listed AC (or 4 "D" batteries or DC adapter, extra). (TSP) 12-649 ..... 99.99





**NEW** Designer style with compact disc player

**Chronomatic®-303.** Now you can begin and end your days to the sound of pure digital stereo and enjoy your favorite CDs throughout. At bedtime, set the sleep timer and drift off to CDs, FM stereo or AM—music shuts off automatically after 58 minutes. In the morning, wake to music or to a pleasant alarm that gradually increases in volume to gently rouse you. Clock features snooze button and red LED display with high/low dimmer. Radio has FM-AFC for best possible reception, dual 3 1/2" speakers and a 1/8" jack for adding headphones. (Battery Backup only.) (TSP) 12-1603 ..... 129.99

**Stereo cassette with dual alarms**



**Chronomatic-276.** Combines the big sound of a stereo boombox with a full-featured digital alarm clock. Dual alarms let you set separate wakeup times, then rise 'n shine to stereo cassettes, FM stereo, AM radio or alarm. You can record direct from the radio—even tape a program while you're away—or "live" with the built-in mike (handy for recording those brilliant ideas that occur in the middle of the night!). End-of-tape auto-stop protects tapes and player's mechanism. Clock has convenient forward/reverse and fast/slow controls to make time-setting easy, sleep timer for drifting off to music, snooze button for an extra "40 winks" and an easy-to-read lighted dial. Dual 3" speakers, 1/8" stereo headphone jack. (TSP) 12-1584 ..... 79.99

## Wake Up to the Day a New Way

**QUESTION:** If power goes out, how can I be sure to wake on time?



**ANSWER:** Our AC-powered clock radios feature automatic **Battery Backup** to keep the clock running up to eight hours, without the time display, in the event of an AC outage. The backup battery also preserves your alarm settings and operates the alarm at the preset time, ensuring that you don't oversleep or miss an important appointment. Another benefit: with **Battery Backup**, you can move your radio to another room without having to reset the clock or alarm.



Unlike many other clock radios, ours also feature the **Battery Sentinel®** system, which automatically tests the backup battery daily to ensure that you'll always stay on time. The red LED lights up to warn you if the backup battery needs replacing.



All Radio Shack clock radios include these two important features, except where noted.



**Dual alarms and easy-to-read fluorescent display**

**Chronomatic-295.** Dual alarms make this a nice choice for working couples or for anyone who keeps different weekday/weekend schedules. Time and alarm-setting is a breeze—forward/reverse and fast/slow buttons are located right on top. Set the sleep timer for up to 59 minutes of listening enjoyment when you retire for the evening, then wake to the radio or alarm in the morning. Up late last night? Just tap the snooze button to bag a few extra "Zs" before you're off to work or school. The large blue fluorescent display features a high/low dimmer for easy viewing in daylight or a darkened room. Built-in 3" speaker, 1/8" earphone jack for private listening. (TSP) 12-1595, 39.99



**Dual alarms and soothing green LED display**

**Chronomatic-281.** What's on your nightstand? A lamp, a phone, a pair of eyeglasses, maybe a book or two, but you probably don't want two alarm clocks there. Then you'll appreciate a clock radio with dual alarms. You'll find that time and alarm-setting is simple, thanks to forward/reverse and fast/slow controls located conveniently on top. Set the sleep timer to play the radio up to 59 minutes before it automatically shuts off, and quiet the radio or alarm for a few extra minutes of sleep in the morning with a tap of the snooze button. Time display has a high/low dimmer for daytime/nighttime viewing. 2 1/4" speaker. (TSP) 12-1589 ..... 27.99



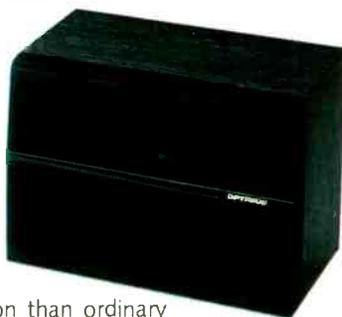
**Stylish waker-upper is packed with value**

**Chronomatic-280.** Feature-packed, priced right and just as reliable as it is stylish. Wake to morning news, music or talk on your favorite FM or AM station, or roll out to the buzzer alarm. Pushbutton controls are located conveniently on top to make time and alarm-setting easy. The programmable sleep timer lets you nod off to the radio while napping or when retiring for the night, and you can tap the snooze button to wake at your own pace in the morning. The bright red LED display is easy to read from across a room, and its high/low dimmer lets you set brightness for daylight or nighttime viewing. 2 1/2" speaker. 12-1588 ..... 24.99

### Stereo with detachable speaker



**Chronomatic-296.** This high-performance AM/FM stereo features a detachable speaker to provide greater stereo separation than ordinary stereo models. Plus, it has an aux input so you can add a portable CD or cassette player. Set the sleep timer to drift off to music, then wake to FM stereo, AM or alarm. Pushbutton time and alarm-set controls, LCD display, rotary tuning with lighted dial, tone control, FM stereo/mono switch. Dual 4 1/2" speakers, stereo headphone jack. (No Battery Backup.) (TSP) 12-1596 ... 99.99



### Stereo with cassette player

**Chronomatic-293.** Wake to FM stereo, AM or cassette tape. Has sleep timer, snooze button and green LED display with high/low dimmer. Dual 3" speakers, 1/8" stereo headphone jack. (TSP) 12-1593 ... 49.99

### Kids' waker-upper with nightlight



**Rise 'n Shine®.** Children can wake to a favorite FM or AM station or one of three electronic melodies. Fun-shaped control buttons. (Battery Backup only.) 12-1599, 29.99

### Compact pastel cube radio

**Chronomatic-294.** A fun design with all the features you need. Has sleep timer, snooze button, 0.6" red LED display with alarm and p.m. indicators. 2 1/2" speaker, 1/8" earphone jack. 12-1594 ... 24.99



### Digital tuning with memory

**Chronomatic-292.** Enjoy precise pushbutton digital tuning and store up to 10 FM/10 AM stations in memory for instant recall. Sleep timer, snooze button. LCD display. 3" speaker, 1/8" earphone jack. (TSP) 12-1592 ... 49.99

### Built-in Touch-Tone telephone

**Chronomatic-300.** What a combo! Phone has one-touch redial and can be set to mute radio when you lift the handset. Sleep, snooze, high/low dimmer. 2 1/2" speaker, 1/8" headphone jack. (TSP) 12-1602 ... 49.99



### Stereo with large LED display

**Chronomatic-297.** Wake to rich FM stereo, AM or alarm with variable volume control. Sleep timer, snooze button, 0.9" red display. Dual 2 1/2" speakers, 1/8" stereo headphone jack. 12-1597 ... 39.99

### Jumbo 1.8" LED time display

**Chronomatic-302.** A real eye-catcher—easy to read across a room. Wakes you to radio or alarm, has sleep timer, snooze button and high/low display dimmer. 2 1/4" speaker. (Available Nov. 1994.) 12-1600 ... 29.99

### Space saving slim design

**Chronomatic-278.** Has sleep, snooze, large 0.6" LED display with high/low dimmer. 3" speaker. 12-1586 ... 24.99



### Soft green LED display

**Chronomatic-274.** The soothing 0.6" display is easy on sleepy eyes. Wake to FM, AM or alarm. Time-set buttons, snooze and sleep controls are conveniently located on top. 3" speaker, earphone jack. 12-1582 ... 24.99

### Dependability on a budget

**Chronomatic-291.** Even at this low price, you get accurate timekeeping you can depend on. Wake to FM, AM or alarm. Snooze and sleep controls, LED display with high/low dimmer. 2 1/4" speaker. 12-1591 ... 19.99



### Our smallest and lowest priced

**Chronomatic-290.** Ultracompact yet big in performance. On-top controls include time and alarm-set pushbuttons, sleep timer and snooze button. The bright LED display is easy to read. (Battery Backup only.) 12-1590 ... 14.99

### Classic tabletop AM/FM radio

**MTA-15.** Perfect for office or reception area as well as home. Lighted slide-rule dial makes tuning simple; FM-AFC ensures drift-free reception. The 4 1/8" speaker pours out rich, room-filling sound. 12-695 ... 39.99



# Personal AM/FM stereo cassette players.



**NEW** Digital tuning, auto-reverse and built-in LCD clock

SCP-62. Everything you need in a personal stereo—packed with features for great sound and real convenience. Ten FM and ten AM presets store your favorite stations for easy selection. Cassette has auto-reverse, Dolby® B NR to reduce tape hiss, and metal/normal tape selector for best sound from all tape types. Extended Bass system enhances low-frequency response for “home stereo” sound. LCD alarm clock helps you stay on time when you’re out and about. Belt clip for easy carrying. Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1202 ..... 89.99



**NEW** Digital tuning, auto-reverse

SCP-60. Pushbutton digital tuning locks in stations precisely; 10 AM/FM memory presets store your favorites. You get convenient auto-reverse on cassette, a stereo/mono switch to improve reception of weak signals and distant stations, even an LCD alarm clock. Handy belt clip. (TSP) Requires 2 “AA” batteries or AC or DC adapter.

14-1200 ..... 69.99



**3-band equalizer**

SCP-55. Enjoy many popular features, including a 3-band frequency equalizer for “customizing” sound. You get a metal/normal tape selector and Dolby B NR for best sound on cassettes. Extended Bass enhances low frequencies. Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1095 ..... 69.99



**Auto reverse and Dolby B NR**

SCP-64. Auto-reverse plays both tape sides with no need for you to flip the tape. You get a metal/normal tape selector and

Extended Bass for extra low-frequency “punch.” Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1204 .. 59.99



**Digital tuning and Extended Bass**

SCP-65. Look at all you get: digital tuning with 10 FM and 10 AM presets, a stereo/mono switch, Extended Bass, end-of-tape

auto-stop and an LCD alarm clock. Belt clip. Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1206 ..... 49.99



**All-weather design**

SCP-59. Take it to the beach, poolside, camping or working out. Protective gaskets keep out sand, dust and moisture. Extended Bass delivers deep, rich lows. Auto-stop prevents damage to cassette mechanism and tapes. Belt clip.

Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1099 .. 29.99



**Auto reverse and Extended Bass**

SCP-53. Our lowest priced personal stereo with auto-reverse for continuous listening and Extended Bass for an extra low-frequency boost. With belt clip for easy carrying. Requires 2 “AA” batteries or AC or DC adapter.

14-1093 ..... 39.99



**Value packed**

SCP-47. Affordable, yes, but “stripped down”? No way! Clip it on your belt or slip it in a purse or gym bag for music on-

the-go. Separate left and right volume controls, stereo/mono switch for improved reception. Requires 2 “AA” batteries or AC or DC adapter. (TSP)

14-1087, 29.99



**Extended Bass system**

SCP-57. Carry it along and enjoy the deep, rich “home stereo” sound. Extended Bass delivers! Has metal/normal tape selector, auto-stop at end of tape, LED low-battery indicator and handy belt clip. Requires 2 “AA” batteries or AC or DC adapter.

14-1097 ..... 39.99



**Low-priced radio/cassette**

SCP-66. Even at this low price you get the great sound of Extended Bass for an extra low-frequency kick whenever you want it. End-of-tape auto-stop protects player and tapes. Belt clip for easy portability. Requires 2 “AA” batteries or AC adapter.

14-1207 ..... 24.99

Model No.	Cat. No.	Auto Reverse	Auto Stop	Dolby NR	Extended Bass	AM/FM Tuner	FM Stereo/Mono	Digital Tuning	LCD Display	Tape Selector	3-Band EQ	L/R Volume	Weatherproof	Clock
SCP-18	14-1065		✓									✓		
SCP-22	14-1063		✓							✓	✓			
SCP-47	14-1087		✓			✓	✓					✓		
SCP-51	14-1091	✓	✓		✓									
SCP-52	14-1092	✓			✓									
SCP-53	14-1093	✓			✓	✓	✓							
SCP-54	14-1094		✓			✓	✓						✓	
SCP-55	14-1095	✓		✓	✓	✓	✓				✓			
SCP-56	14-1096	✓		✓	✓	✓	✓							
SCP-57	14-1097		✓		✓	✓	✓			✓				
SCP-59	14-1099		✓		✓	✓	✓						✓	
SCP-60	14-1200	✓			✓	✓	✓	✓	✓	✓				✓
SCP-62	14-1202	✓		✓	✓	✓	✓	✓	✓	✓				✓
SCP-63	14-1203		✓		✓					✓				
SCP-64	14-1204	✓		✓	✓	✓	✓							
SCP-65	14-1206		✓		✓	✓	✓	✓	✓					✓
SCP-66	14-1207		✓		✓	✓	✓							✓

Personal receivers and cassettes require stereo headphones with 1/8" plug for stereo listening. See our selection on page 78.



**Auto-reverse, E-Bass and Dolby B NR**

SCP-56. Loaded with features to enhance your listening enjoyment. You get auto-reverse to play both tape sides continuously, Dolby® B NR to reduce tape hiss, and metal/normal tape selector for best sound from all tape types. Extended Bass system enhances low-frequency response. Belt clip. Requires 2 "AA" batteries or AC or DC adapter. 14-1096 ..... 39.99



**Auto-reverse and E-Bass at a great low price**

SCP-51. Here's a great value in a cassette player—it's big on the most-wanted features and low-priced to boot! Auto-reverse plays both sides of a cassette continuously, with no need for you to flip the tape. Extended Bass adds an extra "punch" to music by enhancing low-frequency response. Belt clip. Requires 2 "AA" batteries. 14-1091 ..... 29.99



**Auto-reverse and Extended Bass**

SCP-52. Clips to a belt and slips easily in purse or gym bag so you can enjoy stereo cassettes at home or on the move. Auto-reverse plays both sides of a cassette with no need for you to flip it over. Extended Bass adds low-frequency boost for headphone audio with "home-stereo sound." Requires 2 "AA" batteries or AC or DC adapter. 14-1092 ..... 39.99



**With left/right volume controls**

SCP-18. Separate left and right volume controls let you balance stereo sound for just the right mix of music to your ears. Auto-stop shuts off motor at the end of a tape side to save batteries and prevent wear on the player's mechanism. Handy belt clip. Requires 2 "AA" batteries or AC or DC adapter. 14-1065 ..... 19.99



**3-band frequency equalizer**

SCP-22. Use the 3-band equalizer to customize bass, midrange and treble frequencies to your taste or to the music. Metal/normal tape selector lets you enjoy excellent sound from all types of cassettes. End-of-tape auto-stop. Belt clip for easy portability. Requires 2 "AA" batteries or AC or DC adapter. 14-1063 ..... 29.99



**Our lowest priced stereo cassette**

SCP-63. Take this economical entertainer along to listen to stereo cassettes at the office, while working out, in the yard or garden—just about anywhere. It delivers rich, full-range sound, with excellent low-frequency sound thanks to Extended Bass. End-of-tape auto-stop. Belt clip. Requires 2 "AA" batteries or AC or DC adapter. 14-1203 ..... 14.99

## Personal receivers for stereo on-the-go



**AM/FM stereo with built-in speaker**

Listen through the built-in monaural speaker or add stereo headphones for private listening enjoyment. This receiver slips easily into a pocket—take it out to the ballgame or listen to music, news and sports while hiking or fishing. FM-AFC locks in stations for best possible reception. Rotary tuning and volume controls. Requires 2 "AAA" batteries. 12-451 ..... 24.99



**Super-thin AM/FM stereo receiver**

Just 9/16" thin, this performer slips comfortably into a pocket or purse for stereo entertainment on-the-go. It features FM-AFC to lock in stations, plus a stereo/mono switch for improved reception of weak signals and distant stations. Rotary tuning and volume controls. FM stereo LED indicator. Belt clip. Requires 2 "AAA" batteries. 12-189 ..... 24.99



**Ultracompact FM stereo with in-ear 'phones**

Hard to believe such a small receiver could sound so good! This tiny 3 3/8 x 1 1/2 x 5/8" receiver delivers superb FM stereo sound. And it's easy to carry, making it ideal for active people. FM/stereo mono switch for best reception. Includes in-ear stereo 'phones and belt clip. Requires "AAA" battery. (Tunes FM only.) 12-210 ..... 24.99



**AM/FM stereo with in-ear stereo 'phones**

Ideal when exercising or for listening on the run—clips securely to a belt or waistband to keep your hands free. Has stereo/mono switch for best reception and an FM stereo LED indicator. Slide-act on volume and rotary tuning controls. Includes comfortable in-ear stereo 'phones. Requires 2 "AAA" batteries. 12-182 ..... 19.99



**Compact AM/FM stereo with speaker**

Exceptional sound in a tiny package—great for people that are going places. Listen through the built-in monaural speaker or add stereo headphones for personal listening enjoyment. Has FM-AFC to lock in stations and stereo/mono switch for best reception. FM stereo LED indicator. Requires 2 "AAA" batteries. 12-102 ..... 19.99

## All-weather receivers



**AM/FM/cassette**

SCP-54. Perfect for active people on the go. The sealed cassette housing shrugs off dust, sand and water spray—take it along when camping, canoeing, biking and on the beach. Stereo/mono switch, rotary volume control, LED FM stereo indicator. Belt clip for easy carrying. Requires 2 "AA" batteries. 14-1094 ..... 39.99



**AM/FM with armband**

This lil' sport is really rugged and likes to play outdoors! Its case is designed to help keep out sand, dust and moisture, and its 1/8" headphone jack has a protective rubber plug to ward off the elements. Includes armband and belt clip. Requires "AA" battery. 12-452 ..... 17.99



**FM stereo with in-ear stereo 'phones**

The ideal workout companion—it even likes wet weather. Comes with head and arm bands so you can wear it where it's most comfortable for you. And, it includes lightweight, comfortable in-ear stereo 'phones. Requires "AAA" battery. 12-138 ..... 19.99

## Take It, Tape It Anywhere

*Portable recorders to suit your needs and budget*

*Whether you're recording classroom lectures, business conferences, personal memos, talking letters or dictation, our knowledgeable sales professionals can help find the right recorder . . . at the right price, too!*



**VOICE ACTIVATION (VOX).** Saves tape and playback time by recording only when someone is speaking.

**AUTOMATIC LEVEL CONTROL.** Ensures a consistent volume level on recordings every time.

**CUE/REVIEW.** Lets you hear playback in fast-forward and rewind modes so you can find selections quickly.



### AC/battery with voice activation and auto-level

**CTR-69.** Voice activation makes recordings of meetings and lectures "hands-free" and saves tape and playback time. You can switch auto-level on for consistent volume on speech recordings, or off for wider dynamic range on music. Cue/review and tape counter make it easy to find a selected passage. End-of-tape auto-stop prevents tape stretching and damage to recorder's mechanism. LED recording indicator. Built-in microphone, jacks for external mike and earphone. UL listed AC (or 4 "C" batteries or DC adapter, extra). (TSP) 14-1154 . . . 69.99

### Auto-level recording and cue/review

**CTR-62.** Auto-level makes recording at the correct volume guess-free. With cue/review, you can hear a portion of a tape at high speed to find a selected passage quickly. Auto-stop. Built-in microphone, jack for external mike. With earphone. Requires 4 "C" batteries or AC or DC adapter. 14-1150, 29.99



### AC/battery, auto-level and cue/review

**CTR-66.** Identical to CTR-62 recorder at left, but does *double duty*—includes an AC cord so you can plug it in while at the office or dorm room to save batteries. UL listed AC (or 4 "C" batteries or DC adapter, extra). 14-1151 . . . 39.99



### AC/battery, auto-level and tone control

**CTR-73.** Tone control adjusts for best sound on speech or music. Cue/review, tape counter, auto-stop, built-in mike, external-mike jack, earphone. UL listed AC (or 4 "C" batteries or DC adapter, extra). 14-1053 . . . 49.99



### Voice activation and auto-level

**CTR-67.** You get the two most wanted features plus cue/review, auto-stop, built-in mike and jacks for external mike and earphone. Requires 4 "C" batteries or AC or DC adapter. 14-1152 . . . 49.99



### Our lowest priced compact recorder

**CTR-88.** Even at this low price you'll enjoy perfect-volume recordings thanks to the automatic level control. You also get end-of-tape auto-stop, a built-in microphone, earphone jack and a wrist strap for easy carrying. Requires 2 "AA" batteries or AC or DC adapter. 14-1103 . . . 29.99



### VOX recording on a budget

**CTR-89.** Low-priced hands-free recorder has auto-level, auto-stop, tape counter, built-in mike, earphone jack, wrist strap. Requires 2 "AA" batteries or AC or DC adapter. 14-1104 . . . 39.99



### Voice activation and cue marker

**CTR-96.** Press the cue marker while recording to insert an audible tone on tape. Later, in cue/review, you can listen for the tone to find your marked passage. Tape counter. Pop-up mike, external-mike jack. With earphone and wrist strap. Requires 2 "AA" batteries or AC or DC adapter. (TSP) 14-1105 . . . 59.99



### VOX, auto-level and cue/review

**CTR-76.** This easy-to-carry notetaker gives you all the most wanted features. You get hands-free recording with adjustable high/low VOX sensitivity and automatic level control. The pause control lets you edit as you record. Cue/review and a 3-digit tape counter make it easy to find desired passages during playback. You also get end-of-tape auto-stop, an external-mike jack and an earphone for private listening. Requires 4 "AA" batteries or AC or DC adapter. 14-1156 . . . 49.99.



### Voice activation and Variable Speech Control™

**VSC-2002.** Ideal for reviewing lengthy lectures and transcribing dictation. Variable Speech Control lets you vary tape speed and pitch independently for understandable playback at up to twice normal speed. You get VOX and auto-level, cue/review, tape counter, built-in mike, external-mike jack, earphone and wrist strap. Requires 2 "AA" batteries or AC or DC adapter. (TSP) 14-1158, 79.99  
™Variable Speech Control Co.



Prices apply at participating Radio Shack stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability).



### Our finest micro electronic "notetaker" is packed with professional features

**Micro-26.** Designed to meet the everyday demands of journalists, interviewers, business travelers or anyone who wants the best in a pocketable recorder. Voice activation and auto-level team up for hands-free, worry-free recording. Two speeds let you record up to three hours on one MC-90 cassette. With quick-record, you can shift instantly from playback to record mode without stopping the tape. Use the pause control to edit as you record, and easily find passages during playback with cue/review. Tape counter, end-of-tape auto-stop. Built-in microphone, jack for external mike. With earphone and carry case. Requires 2 "AAA" batteries or AC or DC adapter. (TSP) 14-1043 ..... 149.99

### Auto-level and cue/review

**Micro-14.** Has auto-level for consistent volume, cue/review, tape counter, two speeds, quick-record and auto-stop. External-mike jack, earphone, wrist strap. Requires 2 "AA" batteries or AC or DC adapter. 14-1175 ..... 39.99



### VOX, auto-level and cue/review

**Micro-16.** Gives you the conveniences of Micro-14 at left, plus hands-free voice activation to save tape and playback time. External-mike jack, earphone, wrist strap. Requires 2 "AA" batteries or AC or DC adapter. 14-1176 ..... 49.99



### Voice activation and index tone

**Micro-29.** Record hands-free and mark beginnings of passages with an index tone for easy location during cue/review. Two speeds, quick-record, pause, auto-stop, external-mike jack, earphone, wrist strap and case. Requires 2 "AA" batteries or AC or DC adapter. (TSP) 14-1059 ..... 89.99



### VOX and fast playback

**Micro-17.** Fast-play mode increases playback speed while keeping voices understandable. Two speeds, pause, cue/review, tape counter, auto-stop. Built-in mike, external-mike jack, earphone, wrist strap. Requires 2 "AA" batteries or AC or DC adapter. (TSP) 14-1178 ..... 69.99



### Recording and fast playback

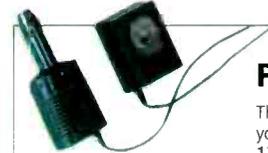
**Micro-21.** Controls are arranged for easy one-hand operation. You get two speeds for up to three hours recording on one MC-90 cassette, quick-record, pause, fast-play, cue/review and auto-stop. Built-in mike, earphone jack. Requires 2 "AA" batteries or AC or DC adapter. 14-1159, 39.99



### Personal stereo cassette recorder



**SCR-59.** Record "live" in stereo on standard cassettes with the built-in mikes, and play tapes back through your stereo headphones or the monaural speaker. Tone control, cue/review, tape counter, jacks for external mikes. Requires 2 "AA" batteries or AC or DC adapter. (TSP) 14-1205 ..... 79.99



### Power up!

These adapters will power your portable recorder from 120VAC house current or 12VDC vehicle power.

Recorder Cat. No.	AC Adapter	Each	DC Adapter	Each
14-535	*	*	22-132	99.99
14-536	*	*	22-132	99.99
14-537	*	*	22-132	99.99
14-538	*	*	22-132	99.99
14-706	*	*	14-844	6.99
14-707	*	*	14-844	6.99
14-709	*	*	14-844	6.99
14-725	*	*	14-844	6.99
14-726	273-1650	12.99	14-844	6.99
14-731	*	*	14-844	6.99
14-745	*	*	14-844	6.99
14-749	*	*	14-844	6.99
14-856	273-1651	10.99	270-1562	16.99
14-861	*	*	14-844	6.99
14-862	273-1650	12.99	270-1560	12.99
14-863	273-1454	7.99	270-1562	16.99
14-1043	273-1654	13.99	270-1560	12.99
14-1053	*	*	14-844	6.99
14-1059	273-1456	6.99	270-1560	12.99
14-1063	273-1654	13.99	270-1560	12.99
14-1065	273-1456	6.99	270-1560	12.99
14-1087	273-1654	13.99	270-1560	12.99
14-1092	273-1654	13.99	270-1560	12.99
14-1093	273-1654	13.99	270-1560	12.99
14-1095	273-1654	13.99	270-1560	12.99
14-1096	273-1654	13.99	270-1560	12.99
14-1097	273-1654	13.99	270-1560	12.99
14-1099	273-1654	13.99	270-1560	12.99
14-1103	273-1654	13.99	270-1560	12.99
14-1104	273-1456	6.99	270-1560	12.99
14-1105	273-1654	13.99	270-1560	12.99
14-1150	273-1650	12.99	14-844	6.99
14-1151	*	*	14-844	6.99
14-1152	273-1454	7.99	14-844	6.99
14-1154	*	*	14-844	6.99
14-1156	273-1454	7.99	14-844	6.99
14-1158	273-1659†	17.99	270-1562	16.99
14-1159	273-1560	12.99	270-1560	12.99
14-1175	273-1435	6.99	270-1560	12.99
14-1176	273-1435	13.99	270-1560	12.99
14-1178	273-1654	13.99	270-1560	12.99
14-1190	273-1435	6.99	270-1560	12.99
14-1200	273-1654	13.99	270-1560	12.99
14-1202	273-1654	13.99	270-1560	12.99
14-1204	273-1654	13.99	270-1560	12.99
14-1205	273-1654	13.99	270-1560	12.99
14-1206	273-1654	13.99	270-1560	12.99



### Microcassettes and mini cassette

Type	Total Time	Cat. No.	Each	3-Up
MC-60	Up to two hours	44-640	2.99	2.59
MC-60	3-pack/six hours	44-647	6.99	5.99
MC-90	Up to three hours	44-644	6.99	5.99

Mini 30. Up to 30 minutes total recording time  
44-633. 1-9 ..... Each, 3.29 10-Up ..... Each, 2.79



### Cleaner kit

Restores voice clarity to recordings. With micro-size cleaning cassette, probe, mirror and cleaning solution. 44-1168 ..... 5.99



### Head cleaner

Loads like an ordinary microcassette to gently clean tape path and restore voice clarity. Non-abrasive tape. 14-1166 ..... 2.99

† Available on special order

# Get a Handle on Great Sound

Indoors and out, at home and on the go, you can enjoy sensational sound with one of our feature-packed portables.

More than ordinary boomboxes, these portable music systems deliver high-energy sound wherever good times are happening. CD-equipped entertainers provide superb digital stereo-to-go, while AM/FM/cassettes bring out the best from radio and tapes. Whatever you're doing, wherever you're going, we'll help you get a handle on great sound.



## Extended Bass System and detachable 2-way speakers

**CD-3310.** Sure, it's portable—but this system's huge sound makes it an ideal choice for home or office, too. You can program its top-loading compact disc player to perform up to 20 tracks in any sequence, making it easy to record your own "best of" tapes with the built-in stereo cassette recorder. And you can replay programmed tracks, an entire disc or a single selection with 3-way CD repeat. The cassette also dubs from the AM/FM stereo receiver and features a microphone mixing input for "live" recordings. End-of-tape auto-stop prevents damage to cassettes and wear on the player.

With the CD-3310 you'll enjoy superb sound that rivals large stereo systems. Its vented 2-way speakers incorporate a 3" woofer and 1/2" tweeter that combine to pour on the sound. They're detachable, too, so you can spread 'em out for greater stereo separation. The Extended Bass System enhances low frequencies at the touch of a button to add impact to all your favorite music. And for private listening enjoyment, just plug a pair of our personal stereo 'phones into the 1/8" headphone jack. UL listed AC (or 8 "D" batteries, extra). (TSP) 14-535 ..... 159.99



## High-speed dubbing cassettes and 3-band frequency equalizer

**CD-3311.** Enjoy big sound at home or on the go, tailored just the way you like it with the built-in 3-band EQ. The 20-track-programmable CD player features track and disc-repeat functions plus random play to "shuffle" tracks for a different concert every time. This is the perfect portable for cassette collectors, too—the high-speed dubbing cassettes make custom tape-editing and personal cassette-copying quick and easy. Plus, you can dub from the AM/FM stereo receiver or add a mike for "live" recordings. And all your music will sound sensational thanks to a 3-band equalizer that lets you adjust tonal preferences to your taste or room acoustics. Dual 4" speakers pump out powerful sound, and you can add personal stereo headphones for private listening. UL listed AC (or 8 "D" batteries, extra). (TSP) 14-536 ..... 169.99



## Portable party machine with all the conveniences

**CD-3312.** For clean, powerful sound and real ease of use, it's hard to beat this versatile performer. Its CD player offers 16-track-programmable memory, track/disc repeat, random play to shuffle selections, and intro scan for a short "preview" of each track. CD-to-tape synchro-dubbing copies a disc to cassette with just a touch of a button, so you can enjoy favorite CD selections on your car stereo and personal cassette player, too. And you can dub from FM stereo or AM as well. The soft-eject system is gentle on your cassettes, and end-of-tape auto-stop protects tapes and the player's mechanism. Crank up the volume and enjoy fat sound from the dual 4" speakers, or plug in personal stereo 'phones for music to your ears. UL listed AC (or 6 "D" batteries, extra). (TSP) 14-537 ..... 139.99



## Enjoy rich CD stereo sound at a remarkably low price

**CD-3314.** Even our lowest priced portable CD system delivers the most wanted features. Its 16-track-programmable compact disc player has track/disc repeat, random play and intro scan plus one-touch CD-to-tape dubbing. And like all the disc players here, it includes forward/reverse automatic music search to help you find the next selection quickly. The cassette features automatic level control for perfect-volume recordings plus gentle soft-eject and end-of-tape auto-stop. The AM/FM stereo receiver has an FM-mono switch to help pull in weak signals and distant stations. Dual 4" speakers provide full-range sound to pump up your parties, and a headphone jack lets you plug in stereo 'phones for personal listening. UL listed AC (or 6 "D" batteries, extra). (TSP) 14-538 ..... 119.99



**NEW Auto-reverse dual-cassette with 3-band equalizer**

**SCR-54.** Enjoy extended listening thanks to auto-reverse, plus high-speed synchro-dubbing. Customize sound with the built-in EQ and switch in Extended Bass for extra "punch". Stereo-Wide® circuit expands the audio soundstage for greater realism. AM/FM stereo tuner, built-in mike, dual 3½" speakers, headphone jack. UL listed AC (or 6 "C" batteries or DC adapter, extra). (TSP) 14-745 ..... 99.99



**Dual-cassette with Extended Bass and Stereo-Wide**

**SCR-55.** Dual cassettes and synchro-dubbing make it easy to custom-edit and copy tapes. You can also record direct from FM stereo and AM, or "live" with the built-in mike. Extended Bass enhances low-frequency response and Stereo-Wide delivers room-filling sound. Dual 3½" speakers, headphone jack. UL listed AC (or 6 "C" batteries or DC adapter, extra). (TSP) 14-731 ..... 79.99



**NEW Dual-cassette with Extended Bass control**

**SCR-62.** Copy personal tapes with ease thanks to high-speed synchro-dubbing, and record direct from the AM/FM stereo tuner or "live" with the built-in mike. You'll enjoy excellent sound, and you can switch in Extended Bass for impact. Dual 3½" speakers, headphone jack. UL listed AC (or 5 "D" batteries, extra). (TSP) 14-709 ..... 69.99



**NEW Auto-reverse cassette with Extended Bass**

**SCR-60.** With auto-reverse, you can listen to both sides of a tape without having to turn it over. Extended Bass delivers lows you might expect only from a home stereo. Record direct from FM stereo, AM or "live" with the built-in mike. Dual 3" speakers, headphone jack. UL listed AC (or 6 "D" batteries, extra). (TSP) 14-707 ..... 79.99



**Full-size sound to carry around**

**SCR-53.** Enjoy stereo cassettes plus your favorite FM stereo and AM stations. Record direct from FM stereo, AM or "live" with the built-in mike. End-of-tape auto-stop. Requires 6 "C" batteries (or AC or DC adapter, extra). (TSP) 14-749 ..... 59.99



**NEW Listen to your music with style**

**SCR-50.** Records from AM/FM stereo or "live" with the built-in mike. Has auto-level, auto-stop, high/low tone switch, dual 3" speakers and headphone jack. With shoulder strap. UL listed AC (or 6 "AA" batteries or DC adapter, extra). (TSP) 14-706 ..... 49.99



**NEW Rich sound at a budget price**

**SCR-58.** Listen to cassettes, FM stereo and AM stations, and record off the air or "live" with the built-in mike. High/low tone switch, end-of-tape auto-stop. Dual 3" speakers, headphone jack. Requires 4 "C" batteries (or AC or DC adapter, extra). 14-725 ... 39.99



**NEW Big sound, big value**

**CTR-83.** This monaural AM/FM cassette records off the air or "live" with the built-in mike, with auto-level for best volume. A 3½" speaker delivers big sound. UL listed AC (or 4 "C" batteries or DC adapter, extra). 14-861 ..... 39.99



**NEW Colorful choice for music/voice**

**CTR-95.** This monaural AM/FM cassette records from radio or with the built-in mike. Auto-level, auto-stop, 3" speaker, earphone jack. UL listed AC (or 4 "C" batteries, extra). 14-727 ..... 34.99



**NEW Our lowest priced portable**

**CTR-94.** Monaural AM/FM cassette features one-touch auto-level recording, auto-stop, built-in mike, 3" speaker, earphone jack. Requires 4 "C" batteries. 14-726 ..... 29.99

# Sound Ideas for Any Room

Audition our wide selection of Optimus® music systems. Each is designed to deliver magnificent sound and room-enhancing appearance, with useful features for easy operation. Add it all up and the result is extraordinary value.



## 150 watts per channel, 5-disc CD changer, 15" woofers and remote

**Optimus System 719.** With this system's CD carousel, you can enjoy up to five CDs, program up to 32 selections to play in any sequence, or select random play for variety. Reserve play lets you store up to a 10-selection sequence for each of up to 15 CDs. The changer remembers the sequence you've stored—the next time you play one of those 15 CDs, you hear the selections you want, automatically. The digital AM/FM stereo tuner provides 30 presets for one-touch selection by remote control. The dual-cassette deck has synchro-start high-speed dubbing,

sequential play, Dolby B noise reduction to minimize tape "hiss", record-level controls and meters. You also get a motor-driven volume control, Extended Bass control, 20-LED power meter, 1/4" headphone jack, outputs for adding remote and surround-sound speakers, and three aux inputs. Each 40" -high speaker has a 15" woofer, 4" midrange and 3" tweeter. Deluxe rack has a tempered glass door and walnut wood finish. (TSP) 13-1266 . . . . . 999.99

150 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz with no more than 0.9% total harmonic distortion



**DIGITAL TUNING.** Easy, accurate and totally drift free, thanks to a precise quartz crystal frequency reference in the tuner.

**SYNCHRO-START DUBBING.** Starts both cassettes at the touch of one button.

**EQUALIZER.** Individual tone controls for selected audio frequency bands. Used to adjust frequency response to suit tastes, program material and room acoustics.



## 3-disc CD changer, dual cassettes and remote

**Optimus System 1037.** Top-loading carousel changer lets you load two CDs while you listen to a third. You can program up to 32 selections to play in any sequence, or use random mode for variety. A 3-band equalizer lets you adjust frequency response, and Extended Bass enhances low frequencies. Dual-cassette copies tapes at normal or high speed and plays two tapes in sequence. You also get an AM/FM tuner, 1/8" headphone jack, and a remote with CD functions. Aux input for adding turntable or VCR audio. Each 33 1/4" -high speaker has a 6 1/2" woofer and 2 1/2" tweeter. (TSP) 13-1259 . . . . . 449.99



## CD player, dual cassettes and remote control

**Optimus System 1036.** Beautiful woodgrain-finish cabinet provides storage for CDs and tapes. System delivers rich sound from CDs, tapes, FM stereo and AM. Top-loading CD player has 20-selection programming and can be controlled by remote. Dual-cassette has synchro-start for easy normal or high-speed dubbing. It can play two tapes in sequence and record directly from CDs or radio. Also features 3-band equalizer and Extended Bass control, 1/8" headphone jack, and aux input for adding a turntable or VCR audio. Each 33" -high speaker has a 5 1/2" woofer and a 2" tweeter. (TSP) 13-1258 . . . . . 349.99



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### 3-disc changer, dual cassettes, surround output

**Optimus System 710.** Our best mini system—powerful, versatile and feature-packed! CD carousel has 20-track memory, random play, and auto-edit for easy CD-to-tape dubbing. Auto-reverse on both decks lets you hear both sides of two tapes or record both sides of a tape without ejecting. Dolby B NR, high-speed dubbing. Digital tuning, 30 auto-storing presets. 7-band EQ with preset and programmable response curves. Two E-Bass settings. Deluxe remote. Clock, timer. Inputs for turntable, VCR sound, outputs for adding surround speakers. Each 15<sup>3</sup>/<sub>8</sub>"-high 3-way speaker has a 6<sup>1</sup>/<sub>2</sub>" woofer. (TSP) 13-1253, 699.99  
40 watts/channel, minimum rms into 8 ohms from 60-20,000 Hz, no more than 0.5% total harmonic distortion



### 100 watts, 5-CD changer, timer, dual deck, remote

**Optimus System 720.** Super power in a system less than 15" high! Drawer-type changer has 32-selection memory, random play and intro-scan. Dual-cassette has high-speed synchro-dubbing, auto-reverse playback, continuous play, Dolby B NR and auto tape selector. Digital AM/FM tuning with 30 presets. On-off timer and timer recording, 5-band equalizer, multifunction remote and motor-driven volume control. Aux and phono inputs, 1/4" headphone jack. Each 14<sup>15</sup>/<sub>16</sub>"-high 2-way speaker has an 8" woofer for deep bass. (TSP) 13-1267 ..... 599.99  
100 watts/channel, min. rms, 8 ohms, 40-20,000 Hz, no more than 0.9% total harmonic distortion



### 3-disc changer, karaoke, dual cassettes

**Optimus System 726.** Great music system and more! Plug in a mike and use karaoke sound-mixing to sing along or record your performance. Voice canceller minimizes existing vocals and brings your voice "out front". Digital AM/FM tuner with 32 presets. Carousel changer has 30-selection memory and random play, plus synchro-start and auto-edit for easy CD-to-tape dubbing. Clock has wake and shutoff timers. Copies tapes at high speed, plays two in sequence. EQ has five music-style presets. Extended Bass. Remote volume, CD, tuning functions. Motor-driven volume control. Aux input, 1/8" mike jack, 1/4" headphone jack. Speakers are 17" high and have long-throw 8" woofers. (TSP) 13-1273, 499.99  
18 watts per channel, min. rms, 6 ohms, 65-15,000 Hz, no more than 1% total harmonic distortion



### 3-CD changer, karaoke, dual deck, mini size

**Optimus System 727.** Powerful sound from components less than a foot high. Plug in a mike and use karaoke to sing along, even tape your performance. Voice canceller minimizes vocals to bring out your voice. Digital AM/FM tuning, 32 presets. CD changer has 30-selection memory and random play, plus synchro-start and auto-edit for easy CD-to-tape dubbing. Copies tapes at high speed, plays two in sequence. Clock, timers. EQ with 3 style presets. Extended Bass. Remote has volume, CD and tuning functions. Motorized volume control. 1/8" mike jack, 1/4" headphone jack. Each 11<sup>7</sup>/<sub>8</sub>"-high 3-way speaker has a 5" woofer. (TSP) 13-1274, 499.99  
16 watts per channel, min. rms, 6 ohms, 65-15,000 Hz, no more than 1 total harmonic distortion

Optimus Model	Cat. No.	Page No.	CD	Cassette Deck(s)	Auto-Reverse	AM/FM Tuner	Tuner Presets	Remote Control	Timer	Extended Bass	Aux Input	Speaker Height	Special Feature(s)
System 710	13-1253	53	3-disc changer	Dual	✓	Digital	30	✓	✓	✓	✓	15 <sup>3</sup> / <sub>8</sub> "	40 watts per channel*
System 712	13-1257	54		Dual		✓					✓	29 <sup>1</sup> / <sub>8</sub> "	Space-saving swing-out speakers
System 713	13-1260	54	Single	Dual		✓					✓	12 <sup>1</sup> / <sub>4</sub> "	Microphone jack
System 714	13-1261	54	Single	Dual		Digital	20	✓		✓	✓	16 <sup>1</sup> / <sub>2</sub> "	5-band equalizer
System 715	13-1262	54	Single	Single		Digital	20	✓			✓	10 <sup>13</sup> / <sub>16</sub> "	Micro size
System 719	13-1266	52	5-disc changer	Dual		Digital	30	✓		✓	✓	40"	15" woofers. 150 watts/channel*
System 720	13-1267	53	5-disc changer	Dual	✓	Digital	30	✓	✓	✓	✓	14 <sup>15</sup> / <sub>16</sub> "	100 watts per channel*
System 721	13-1268	54	Single	Single		✓		✓		✓	✓	10 <sup>7</sup> / <sub>8</sub> "	Ultracompact. 5 <sup>3</sup> / <sub>8</sub> " wide
System 723	13-1270	54	Single	Dual		✓		✓		✓	✓	13 <sup>3</sup> / <sub>4</sub> "	3-band equalizer
System 724	13-1271	54		Dual		✓		✓		✓	✓	11 <sup>1</sup> / <sub>2</sub> "	Great for kids' room, office
System 725	13-1272	54	3-disc changer	Dual		Digital	20	✓	✓	✓	✓	14 <sup>3</sup> / <sub>4</sub> "	Microphone jack
System 726	13-1273	53	3-disc changer	Dual		Digital	32	✓	✓	✓	✓	17"	Karaoke. 18 watts per channel*
System 727	13-1274	53	3-disc changer	Dual		Digital	32	✓	✓	✓	✓	11 <sup>7</sup> / <sub>8</sub> "	Karaoke. 16 watts per channel*
System 1036	13-1258	52	Single	Dual		✓		✓		✓	✓	33"	Rack with storage for recordings
System 1037	13-1259	52	3-disc changer	Dual		✓		✓		✓	✓	33 <sup>1</sup> / <sub>4</sub> "	Rack with storage for recordings

Music systems are UL listed AC and do not include CDs and cassettes shown. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details. \*Rated per FTC rules.

# Space-saving mini stereo systems.



**3-disc CD changer, EQ and dual cassette**

**Optimus® System 725.** Just over a foot high, this system stacks up nicely against much larger ones. Its 3-CD drawer changer is 32-track programmable and has music calendar display, search, skip, random and repeat. You also get a 3-band EQ with independent left and right channel controls, Extended Bass to boost lows, digital tuner with LCD clock/frequency display, station search and 10 AM/10 FM presets. Make quick copies of your tapes with the high-speed dubbing deck. The 9-button remote will help you relax, too. 14<sup>3</sup>/<sub>4</sub>" -high speakers each have 5" woofer and 2" piezo tweeter. (TSP) 13-1272 ..... **349.99**



**Mini stereo packs a punch in small spaces**

**Optimus System 714.** Here's a great system for a dorm room, apartment or office. We haven't sacrificed features for size either . . . you get a 24-track programmable CD player that's 3" -CD compatible and has repeat and search. You can adjust sound precisely with the 5-band equalizer to suit your ear or your room's acoustics. Digital stereo tuner has presets for 10 AM/10 FM stations and auto-scan. Dual-cassette deck copies tapes at normal or high speed and will automatically play two tapes in sequence. Extended Bass switch and remote. (TSP) 13-1261 ..... **299.99**



**Hi-speed dubbing, CD and EQ**

**Optimus System 723.** High affordability! Compact system is topped off with a top-loading CD player with 20-track programmability, random and repeat functions. Adjust sound to your liking with the 3-band EQ, and punch up the lows with the Extended Bass control. Synchro-start high-speed dubbing makes it a snap to copy your tapes. 13<sup>3</sup>/<sub>4</sub>" -high speakers each have 5" woofer and 2" tweeter. Eight-button remote. (TSP) 13-1270 ..... **249.99**



**Our popular "mighty mini"**

**Optimus System 713.** The features we've packed into this little system and its low price have made it a favorite. The 16-track programmable CD player is 3" -CD compatible and includes repeat, random, skip and search capabilities. You also get a 5-band equalizer to adjust sound the way you like it, dual cassette decks with normal or high-speed dubbing and auto-stop, aux input and 12<sup>1</sup>/<sub>4</sub>" -high 2-way speakers. (TSP) 13-1260 ..... **249.99**



**Micro with CD and digital tuner**

**Optimus System 715.** So small we couldn't even call it a mini! Our micro system has a digital tuner with 10 AM/10 FM stereo station presets, and a top-loading, programmable CD player that'll store up to 21 tracks and includes search and repeat functions. Cassette deck features one-touch recording and auto-stop. Backlit LCDs for time/track on CD and tuning display. Phono/aux input, 10<sup>1</sup>/<sub>8</sub>" -high speakers, remote. (TSP) 13-1262 ..... **229.99**



**Slim micro with the "works"**

**Optimus System 721.** We've squeezed a lot of entertainment into this one. Start with a top-loading 21-track programmable CD player with 2-way skip, random play and repeat. Then there's a cassette deck with auto-stop, an AM/FM stereo tuner, 3-band equalizer and Extended Bass control...all in a single unit that's just 5<sup>5</sup>/<sub>8</sub>" wide. 10<sup>7</sup>/<sub>8</sub>" -high speakers. Nine-button remote. (TSP) 13-1268 ..... **199.99**



**Dual cassettes and 3-band EQ**

**Optimus System 724.** Here's an alternative system for those who aren't looking for a CD player. Makes a great second system for bedroom or kid's room, too. High-speed-dubbing dual-cassette deck has auto-stop to protect tapes. Three-band equalizer and Extended Bass give you custom control of sound characteristics. Speakers are less than 11<sup>1</sup>/<sub>2</sub>" high. Five-button remote. (TSP) 13-1271 ..... **99.99**



**Floor system with unique hide-away speakers**

**Optimus System 712.** Now you see 'em, now you don't! Just swing out the wood-grain speaker cabinets to fill the room with great sound, then swing 'em back in to conserve space when not in use. AM/FM stereo tuner, high-speed synchro-dubbing cassettes with continuous play, 3-band equalizer, phono/aux input. 29<sup>1</sup>/<sub>8</sub>" high. (TSP) 13-1257 ..... **199.99**

Prices apply at participating Radio Shack stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability). Music systems UL listed AC. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.



# KARAOKE

## Calling All Stars: Step Up to the Microphone... It's Party Time!

The sing-along fun sensation is sweeping the nation . . . and everyone's getting into the act. Are you ready to face the music? We have everything you need.



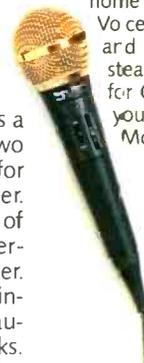
### Portable audio/video Karaoke machine with microphone

Add your prerecorded background music or video tape and you're ready to turn any party into an event! Combines amp, speaker and dual cassettes into a versatile sound system that's built for fun. Dual tape decks with continuous playback let you perform long sets, record a mix of your voice and music from deck 1, or dub personal cassettes. Music/voice fader and tape/voice balance control help you get a perfect blend when recording. Has echo control for added effect, and mike volume control. With 1/4" inputs for two mikes and aux input for singing along with sound from your VCR. Includes microphone, one audio and one video tape. For more sing-along titles, see below. UL listed AC adapter (or 8 "D" batteries, extra). (TSP) 32-1151, 129.99



### Voice-cancelling Karaoke adapter with 2-mike mixer

Adc Karaoke fun to the CD or tape player on your home stereo. Plug in and mix up to two mikes—Voice Cancelling reduces vocals on most CDs and tapes so you can add your voice(s) instead. Variable digital echo control. Has input for CD or tape audio, output to connect to your stereo's aux jack. Two 1/4" mike jacks. Monaural output. (TSP)32-1153 . . . 79.99



### Karaoke echo microphone

This deluxe mike has adjustable echo effect control. Omnidirectional pickup pattern lets you move with the music and allows others to gather 'round the mike. 15-foot cord. Requires "AA" battery. 33-3006 . . . 49.99



### Portable stereo Karaoke music system with microphone

This deluxe entertainment system features a powerful 12-watt amplifier\*, 8" woofer, two 2" tweeters, ported enclosure and jacks for adding an external (right-channel) speaker. Make "pro" quality recordings with the help of fader, mike-volume, auto-voice and master-volume controls, echo and 5-band equalizer. Dual-cassette dubbing deck features continuous play. Includes microphone and one audio cassette. Aux in/out, two 1/4" mike jacks. 18 3/8" high. UL listed AC (or 8 "D" batteries or DC adapter, extra). (TSP) 32-1155 . . . 169.99

### Karaoke audio cassettes

- Garth Brooks. With Friends in Low Places, Papa Loved Mama, Rodeo, 5 more. 32-3024, 9.99
- 1992, Volume 4. Achy Breaky Heart, Boot Scootin' Boogie, Aces, 5 more. 33-3025 . . . 9.99
- Whitney Houston. With I'm Every Woman, I Will Always Love You, How Will I Know, 5 more. 33-3026 . . . 9.99
- Frat Rock. Louie Louie, Good Lovin', Woolly Bully, Mony Mony, 4 more. 33-3027 . . . 9.99
- Elvis Presley, Volume 2. With Burning Love, Return to Sender, Surrender, 5 more. 33-3028 . . . 9.99



### Karaoke "to go" music system with microphone

Efficient 6 1/2" speaker makes this a great-sounding system for use anywhere. Includes separate controls for fader, master volume, mike volume, auto-voice and echo. Built-in 5-band equalizer. Dual dubbing cassette deck features continuous play. Includes mike and one Karaoke audio cassette. Aux in/out, two 1/4" mike jacks. 16 1/2" high. UL listed AC (or 8 "D" batteries or DC adapter, extra). (TSP) 32-1154 . . . 139.99

Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details. \*Power per channel, rated per FTC rules.

## Discover the ultimate home improvement for the '90s

Imagine catapulting off the deck of an aircraft carrier, jet engines screaming behind you . . . conducting a world-class orchestra through Tchaikovsky's *1812 Overture*, cannons booming all around . . . or standing amid 100,000 roaring fans at an international soccer match. Thanks to the audio-for-video revolution known as **home theater**, you can experience this excitement in your own living room.

In recent years, more than 4000 movies have been recorded in multichannel **surround sound**, a technology that places theatergoers in the middle of the action and envelops them with incredibly lifelike sonic effects. As these movies are released on video tapes and discs, the same wrap-around listening experience becomes available to the home viewer. What's more, network and cable TV now broadcast a growing number of surround sound-encoded movies and entertainment programs, even live sports!

From its beginning, the promise of the home theater has been "movie-theater sound at home." But the truth is that home theater can be *better* than a commercial theater. Why? Because in the sheer volume of sound required to fill a commercial theater, dynamic subtlety and localization of sound are often lost. Home theater surround sound is more intimate, more lifelike, more enjoyable . . . and you are in control.

### You may already be halfway there

A home theater can be easy and affordable when built around your existing TV and stereo system, with future spending planned around the components you desire most. In fact, if you have a stereo TV or Hi-Fi VCR, plus a home stereo system, you have the beginnings of a sensational home theater. Putting it all together is as simple as one-two-three. One: connect your TV or VCR to your stereo system (we can show you how). Two: add our low-cost Dolby® Pro Logic decoder/amplifier (page 99), or upgrade your receiver to one of our Optimus® Professional Series A/V models (pages 57 and 58). Three: complement your existing stereo speakers with center and rear-channel speakers from our big selection (see page 64 for more information).

With the right audio components and speakers properly positioned, your living room or den can become a virtual cinema, concert hall or coliseum. We can show you how.

### A typical home theater

Think you need an expensive projection TV for enjoyable home theater? Think again! Though you'll certainly want a good picture, the home-theater experience is primarily about **sound**. And depending on the size of the room, your 27", 25", even 20" TV will be perfectly suitable. Along with the TV, a typical home theater system will include:

**1** **An A/V receiver with Dolby Pro Logic decoder.** The Dolby Pro Logic decoder "unlocks" the surround-sound information on video and balances and steers sounds to their proper position in the sound stage.

**2** **A Hi-Fi Stereo VCR.** Delivers the surround-sound information which the receiver decodes as center and rear-channel sound. Alternately, the video sound source may be a laser disc player, stereo satellite TV system or cable-TV box.

**3** **Paired stereo speakers.** The main speakers in a home stereo system also serve as the left and right front-channel speakers in a home theater, delivering primary directional sounds.

**5**

**4** **A center-channel speaker.** Delivers the center dialogue channel in Dolby Pro Logic surround sound. Placed directly above, below or beside the TV, it should be magnetically shielded to prevent video distortion.

**5** **Two rear-channel speakers.** Deliver time-delayed environmental cues and sonic effects that result in greater perceived spatial depth. Located to the side or rear of the viewer.

**6** **Optionally, a subwoofer.** Delivers the very low-frequency effects or movie soundtracks that are beyond the capabilities of speakers designed solely for music reproduction. May be conveniently positioned anywhere in a room.

## The Best Seat in the House

Get ready for a truly "three-dimensional" listening experience with audio-for-video components from Radio Shack. We have everything you need to put together a complete home theater system, whether you're adding to existing components or starting from scratch. Stop in today and discover how easy, affordable and enjoyable home theater can be.





**Our finest stereo A/V receiver:  
the heart of a home theater**

**Optimus STAV-3450.** The masterwork of the Optimus Professional Series brings stunning realism to movie sound and concert-like presence to music. It delivers 110 watts per channel in stereo, or 75 watts each to the front and center channels and 20 watts each to the rear channels in Dolby Pro Logic surround mode. You can also select Dolby 3-Channel Logic when rear speakers are not used, and tailor the surround effect to room acoustics with adjustable digital delay. Four Digital Signal Processing modes—Jazz, Hall, Dance and Pro Logic theater—create realistic sonic environments for your favorite types of music or theatrical sound. You get digital tuning with direct access, 30 presets and memory scan. Auto Source Control lets you power up your A/V system and begin playing either of two selected sources at one touch. The multiroom-capable remote can control other Pro Series components and even learn commands for other manufacturers' equipment. Motorized volume control. Remote requires 2 "AAA" batteries. 31-3031 ..... **499.99**



**Inputs:** CD, phono, tape 1/VCR, tape 2/monitor, laserdisc.  
**Outputs:** video, center-channel preamplifier.  
Switched AC outlet.  
**Main Amplifier:** 110 watts per channel, minimum rms into 8 ohms from 20-20,000 Hz, no more than 0.09% total harmonic distortion



# More Power to You!

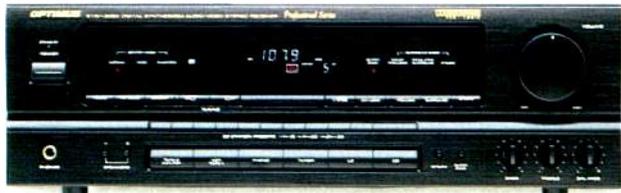
Optimus receivers deliver outstanding sound and value—the perfect A/V “control centers” for home theater and home stereo systems.

## 100-watt receiver with Dolby Pro Logic® and system remote

**Optimus STAV-3350.** With this versatile receiver you can custom-configure sound for theater-like impact, concert-hall ambience, even simulated surround effects plus simulated stereo from monaural sources. It delivers 100 watts per channel in stereo, or 60 watts each to the front and center channels and 20 watts each to the rear channels in Dolby Pro Logic Surround mode. You can also select Dolby 3-Channel Logic for accurate imaging when rear speakers are not used. Adjustable digital delay tailors surround effects to room acoustics, and you can enhance low frequencies with Extended Bass.

Along with sensational sound, you get real convenience. Choose direct-access or up/down digital tuning, store up to 30 AM/FM stations and scan your presets anytime. The system remote is compatible with other Professional Series components, is multiroom capable, and has a 30/60/90-minute sleep timer. Rotary bass, treble and balance controls, motorized volume control. Inputs: CD, phono, tape 1/VCR, tape 2/monitor, laserdisc. Outputs: video, center-channel preamplifier. Switched AC outlet. Remote requires 2 “AAA” batteries. (TSP) 31-3030 ..... 349.99

Main Amplifier: 100 watts per channel, minimum rms into 8 ohms from 20-20,000 Hz, no more than 0.09% total harmonic distortion



## 60 watts, Dolby Pro Logic, system remote

**Optimus STAV-3280.** Enjoy dramatic, cinematic sound, tailored to your room with adjustable digital delay. This receiver delivers 60 watts per channel in

stereo, or 40 watts each to the front and center channels and 20 watts each to the rear channels in Dolby Pro Logic Surround mode. And, it offers Dolby 3-Channel Logic plus studio/simulated surround and simulated stereo. Extended Bass. Digital tuning with direct access, 30 presets and memory scan. Professional Series-compatible remote with sleep timer. Rotary bass, treble and balance controls, motorized volume control. Inputs: CD, phono, tape 1/VCR, tape 2/monitor, laserdisc. Outputs: video, center-channel preamp. Switched AC outlet. Remote requires 2 “AAA” batteries. (TSP) 31-3029, 299.99

Main Amplifier: 60 watts per channel, min. rms into 8 ohms from 20-20,000 Hz, no more than 0.09% total harmonic distortion

*BUZZ*  
WORDS

**DOLBY PRO LOGIC SURROUND.** System that balances and steers sounds to their proper position in the sound stage—directional sounds to the left and right front channels, dialogue to the center, and time-delayed environmental cues and effects to the rear. The result is a sense of great spatial depth, with sound that seems to move around the listener.

**ADJUSTABLE DIGITAL DELAY.** Regulates sound delay to rear-channel speakers to match room acoustics or source material.

**DIGITAL TUNING.** Locks the selected frequency to a quartz-crystal reference for clear reception. **Direct access** allows entry of frequencies by numeric keys. **Memory presets** store frequencies for instant recall. **Memory scan** provides a “preview” of each stored station.

**EXTENDED BASS.** Switch on for greater bass impact or to boost low frequencies normally less audible at low volume.

Receiver Model No.	Cat. No.	Page No.	Dolby Pro Logic Surround	Digital Signal Processing	Power Per Channel (Stereo)	Power Per Channel (Front/Rear Surround)	Digital Tuning	Direct Access	Memory Presets	Memory Scan	Extended Bass	Remote Control
STA-7500	31-2107	59			70		✓		30	✓		System
STA-5500	31-2106	59			50		✓		30	✓		System
STAV-3450	31-3031	57	✓	✓	110	75/20	✓	✓	30	✓		Preprogrammed Learning
STAV-3350	31-3030	58	✓		100	60/20	✓	✓	30	✓	✓	System
STAV-3280	31-3029	58	✓		60	40/20	✓	✓	30	✓	✓	System
STA-3190	31-3028	59			100		✓	✓	30	✓	✓	System
STA-3180	31-3027	59			70		✓	✓	30	✓	✓	System
STA-795	31-2101	59			50		✓		18			
STA-300	31-2101	59			15		✓		18			
STA-20	31-1979	59			5							



**Professional Series  
100-watt receiver**

**Optimus STA-3190.** This powerhouse provides the inputs you need for a full audio system (video sound, too), plus a Professional Series-compatible remote to control it all.

Along with 100 watts per channel, you get two pairs of speaker outputs—one for your living room, one for a second pair of speakers in the bedroom, patio or den. You also get digital tuning with direct access, 30 presets and memory scan, rotary bass, treble and balance controls, Extended Bass, and a motorized volume control. Sleep timer on remote. Inputs: CD, phono, tape 1, tape 2/monitor, laserdisc/VCR. Switched AC outlet. Remote requires 2 "AAA" batteries. (TSP) **31-3028 . . . . . 249.99**

100 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.8% total harmonic distortion



**Professional Series  
70-watt receiver**

**Optimus STA-3180.** Our lowest priced Professional Series receiver packs plenty of power plus "extras" for ease of use. You get 70 watts of clean power per channel plus Extended Bass for a low-frequency boost. Enjoy direct-access digital tuning, store up to 30 stations and review your presets with memory scan. The system remote is compatible with other Professional Series components and has a sleep timer. Rotary bass, treble and balance controls, motorized volume control. Inputs: CD, phono, tape 1, tape 2/monitor, laserdisc/VCR. Two pairs of speaker outputs. Switched AC outlet. Remote requires 2 "AAA" batteries. (TSP) **31-3027 . . . . . 219.99**

70 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.8% total harmonic distortion



**70-watt stereo receiver  
with system remote**

**Optimus STA-7500.** This performer's remote is designed to work with other Optimus 7500 and 5500-series equipment, providing control of compatible CD-player and cassette-deck functions as well as volume-up/down/mute and sleep timer. The receiver features digital tuning with 30 presets and memory scan, two pairs of speaker outputs and a 4-speaker surround control. It also has loudness, FM mono and tape monitor controls, and rotary controls for bass, treble and balance. Inputs: CD, phono, tape, aux audio, video sound. Two switched AC outlets. Remote requires 2 "AA" batteries. (TSP) **31-2107 . . . . . 229.99**

70 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.5% total harmonic distortion



**50-watt stereo receiver  
with system remote**

**Optimus STA-5500.** Provides ample power plus a system remote that's compatible with other Optimus 5500 and 7500-series components. Has digital tuning with 30 presets and memory scan, loudness, FM mono and tape monitor controls, rotary bass, treble and balance controls, and remote-controlled volume, mute and sleep-timer functions. Inputs: CD, phono, tape, aux audio, video sound. Two pairs of speaker outputs, two switched AC outlets. Remote requires 2 "AA" batteries. (TSP) **31-2106 . . . . . 199.99**

50 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.5% total harmonic distortion



**50-watt stereo receiver  
with precise digital tuning**

**Optimus STA-795.** Enjoy drift-free digital tuning with feather-touch controls and presets for up to 12 FM and six AM stations. You get separate rotary bass and treble controls for precise tonal adjustments, a loudness switch to boost low and high frequencies normally less audible at low volume levels, automatic FM muting to silence noise when tuning, tape monitor controls to make recording with a connected tape deck easy, and a 5-step LED output power meter. Inputs: CD/aux, phono, tape, video sound. (TSP) **31-2101 . . . . . 179.99**

50 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.5% total harmonic distortion



**Compact-size stereo receiver  
with precise digital tuning**

**Optimus STA-300.** Here's a nice choice for a second system in a bedroom, game room or den. Its 15 watts per channel put out plenty of sound when matched with mini speakers—see our selection on page 67. The digital tuner has feather-touch controls and stores up to 12 FM and six AM stations for instant recall anytime. Separate rotary bass and treble controls let you set personal tonal preferences, and you can boost bass and treble output with a touch of the loudness button. Multifunction LCD display. Inputs: CD/aux, phono, tape. (TSP) **31-1991 . . . . . 139.99**

15 watts per channel, minimum rms into 8 ohms from 40-20,000 Hz, with no more than 0.5% total harmonic distortion



**10-band equalizer with IMX™ Stereo Expander**

Boost/cut response up to 12 dB in each band. Expander electronically widens the soundstage to enhance stereo effect. 90-LED display. Tape control center, bypass and EQ/record buttons. (TSP) **31-2025, 119.99**



**Our smallest,  
lowest priced  
stereo receiver**

**Optimus STA-20.** Ideal for office or reception area. EQ circuit ensures uniform output for full, rich sound even from mini speakers. Phono and aux jacks, input for a CD portable. (TSP) **31-1979 . . . . . 99.99**



**Mini stereo amplifier is ideal for desktop or shelf**

**SA-155.** Design your own desktop or shelf system around this ultracompact power plant. It features a magnetic/ceramic phono input for use with all turntables, a stereo/mono button, tone control and 1/8" headphone jack. Just 2 1/2" x 9" x 6". UL listed AC. (TSP) **31-1957 . . . . . 59.99**



**Mini AM/FM stereo tuner with PLL circuitry**

**TM-155.** Perfect partner to the SA-155 amplifier at left. Phase-locked loop circuitry and Auto-Magic® FM tuning ensure best possible reception. FM mono button, built-in antennas, terminals for external FM antenna. UL listed AC. (TSP) **31-1958 . . . . . 59.99**

Receivers are UL listed AC and fully protected against overheating and overload. IMX is a trademark of Sci-coustics, Inc.

## Music Made Perfectly Clear

Optimus® compact disc changers and players make the most of digital stereo technology, delivering the full audio spectrum with richness and clarity. And, they offer the latest features to enhance your listening enjoyment.

*Butt*  
WORDS

### **NEW** Our finest 6-disc changer, system-compatible with Optimus Professional Series receivers

Optimus Professional Series CD-7300. Program up to 32 tracks from each CD or magazine, with programmed/deleted tracks remaining in Memory Hold as long as the magazine is loaded. Store one of six style names for each of up to 10 magazines. CD/Deck Synchro simplifies dubbing to a Professional Series cassette deck, while Automatic Digital Level Control equalizes volume of different CDs. Direct access, highlight scan, 3-way track/discs/program repeat, random play, delete, last-disc memory, auto-edit, digital fader, time-fade edit. Auto power-on and eject/auto-off. Fluorescent display. Headphone jack with volume control. Remote-controllable by Professional Series receivers. Remote requires 2 "AAA" batteries. (TSP) 42-5045 ..... 249.99

### Extra 6-disc magazine

Store and play discs by artist or music style. For 42-5045/5044/5043. 42-146 ..... 9.99



### **NEW** Pro Series system-compatible 6-disc changer with remote

Optimus Professional Series CD-7250. Just insert a magazine, press "Play", and relax to hours of uninterrupted music. Or, program your own concert. You get 32-step memory, Memory Hold, highlight scan to hear an excerpt from each selection on all six discs, 3-way repeat, random play and delete. Last-disc memory restarts play with the disc you heard last before power-off. Auto power-on and eject/auto-off. Fluorescent display. Remote-controllable by Professional Series receivers. Remote requires 2 "AAA" batteries. (TSP) Available Oct. 1994. 42-5044 ... 229.99



### **NEW** Pro Series system-compatible 6-disc changer

Optimus Professional Series CD-7200. An entire evening of listening enjoyment is at your command. Play discs in sequence, selections at random, or program a custom concert of up to 32 tracks in any order. Prompts on the fluorescent display make programming easy. Features memory Hold, highlight scan, 3-way repeat and last-disc memory. Changer powers up automatically when you insert a magazine, powers down when you eject it. Remote-controllable by Professional Series receivers. (TSP) Available Oct. 1994. 42-5043 ..... 199.99



### System-compatible 5-disc carousel changer with remote

Optimus CD-7500. Enjoy hours of uninterrupted digital stereo. Play discs in sequence, program up to 20 tracks, or choose random play for variety. Replay one or all discs, programmed selections, a single track or a disc segment with 5-way repeat. Features direct access, intro scan, auto edit and A-B repeat (great for memorizing lyrics or learning new "licks"), plus a 1/4" headphone jack with volume control. Fluorescent display. Remote-controllable by Optimus STA-7500 and STA-5500 receivers (see page 59). Remote requires 2 "AA" batteries. (TSP) 42-5038 ... 229.99



### **NEW** 5-disc carousel changer with remote

Optimus CD-6400. Delivers top performance and provides an array of outstanding features. You can play up to five discs in sequence, program up to 32 tracks in a custom concert order, or select random play for a different concert every time. Repeat a single disc, all discs or your programmed selections with 3-way repeat. And thanks to the convenient drawer-loading design, you can even add or remove up to two discs while another is playing. Fluorescent display. Remote requires 2 "AA" batteries. (TSP) Available Oct. 1994. 42-5048 ..... 199.99



### System-compatible single-disc player with remote

Optimus CD-5500. Program up to 20 selections to play in any order and view up to 15 selections on the fluorescent music calendar. Repeat your program, a single track or the entire disc, even replay a favorite disc segment with A-B repeat. Random play shuffles selections for variety; delete play bypasses tracks you don't care to hear. Has intro scan, auto edit, and a 1/4" headphone jack with volume control. Remote-controllable by Optimus STA-5500 and STA-7500 receivers. Remote requires 2 "AA" batteries. (TSP) 42-5036 ..... 179.99



### Amplified stereo speakers for CD portables and personal stereos



Share the music from your portable CD player or other personal stereo with our high-performance amplified speakers. Simply plug a pair into your portable's 1/8" stereo headphone jack to create a 3-piece music system. Many styles are available—see our complete selection on page 70.

Fig.	Model	Speaker(s) size	Cat. No.	Pair
1	AMX 12	4", 2"	40-1361	59.99
2	AMX 3	4"	40-1313	49.99
3	AMX 3	2 1/2"	40-1323	39.99
4	AMX 4	4"	40-1267	29.99

### Enjoy flawless digital stereo-to-go with Optimus® CD portables

Each Optimus CD portable has a 1/8" jack for stereo headphones, a line-out jack and stereo "Y" cable for connection to a home audio system, and a built-in circuit for charging Ni-Cd batteries in the player.

(1) **Optimus CD-3420 with DAS<sup>2</sup> anti-shock system.** Perfect for use in a vehicle—the Digital Anti-Shock System with 2.8-second memory buffer keeps music flowing smoothly, even when you're traveling bumpy roads. Features 22-track programmable memory, track/disc/program repeat, auto-search and battery-conserving automatic power-off. With soft carry pouch. Requires 2 "AA" batteries (or AC adapter/charger, extra). (TSP) 42-5039 ..... 199.99

(2) **NEW! Optimus CD-3450 with Extended Bass.** Just switch in Extended Bass for richness and depth to headphone audio that you'd expect only from large stereo speakers! Like CD-3420 above, this very affordable performer features 8-times oversampling, a 1-bit D/A converter and 3-beam laser pickup for flawless sound. Conveniences include 20-track programmable memory, track/disc/program repeat, intro scan to "preview" selections, random play to shuffle track order and auto-search to find selections quickly. Requires 4 "AA" batteries (or AC adapter/charger, extra). (TSP) 42-5042 ..... 119.99



### Vehicle-mount CD bracket

Suspension system helps prevent skipping and mistracking. Universal swivel mount. Hardware, bracket. 42-3050 ..... 24.99

### NEW Bracket with DC adapter

Same as #42-3050 bracket, with a built-in DC power adapter compatible with most portable CD players. 42-3051 ..... 39.99



### Cassette adapter

Plugs into portable CD player's 1/8" headphone jack, loads like a tape to play CD sound through vehicle stereo system. 12-1951 ..... 19.99

### Our finest personal stereo headphones

**PRO-25.** Titanium-layered diaphragms, oxygen-free coils and neodymium magnets team up for pure, dynamic sound. 15-25,000 Hz response. 6-ft. cord with inline volume control 33-1022 .. 39.99





### The new sound of music is on Digital Compact Cassette!

**Optimus DCT-2000.** Enjoy the best of both worlds—record and play true digital stereo, and play your existing analog cassettes, too. Make perfect copies of your favorite CDs—indistinguishable from the originals—as well as superb recordings from LPs, analog tapes, any audio source. The drawer-loading DCT-2000 is simple to use. Program up to 20 selections for customized playback or select auto-reverse to play both sides of a tape once or continuously.

There's even a text display that shows titles and performers' names on prerecorded DCC tapes. Advanced 64-times oversampling ensures flawless playback of digital recordings, and Dolby B and C NR provide clean, dynamic playback of analog tapes. With optical and coaxial inputs, 1/4" headphone jack with volume control. Remote requires 2 "AA" batteries. Was \$699.99 in 1994 Catalog. (TSP) 14-675 . . . . . New Low Price! 499.99

### Professional Series dual auto-reverse deck with Auto NR and CSES

**Optimus Professional Series SCT-55.** Dual auto-reverse plays both sides of a tape at high or normal speed with one-touch synchro-start. This deck

is remote-controllable by Professional Series receivers, and CD/Deck Synchro makes dubbing from Pro Series CD players a snap, too. Its Auto Noise Reduction System detects, then selects the Dolby NR system a tape was recorded with and adjusts for best possible sound—even cuts hiss on tapes recorded without NR. Computerized Sound Enhancement System monitors and auto-adjusts the frequency-response spectrum to ensure balanced, brilliant sound, even from material recorded on inferior equipment or tape. Auto tape selector, Dolby B and C NR, Dolby HX Pro. Music search, blank skip, continuous play. Fluorescent display. 1/4" headphone jack. (TSP) 14-674 . . . 249.99

### Professional Series auto-reverse deck with Dolby B, C and HX Pro

**Optimus Professional Series SCT-54.** Excellent for extended listening and easy recording. You get auto-reverse on deck 2, continuous mode to auto-play tapes on both decks in sequence, high/normal-speed synchro-dubbing, and CD/Deck Synchro for use with Professional Series CD players. Plus, this deck is remote-controllable by Pro Series receivers. Auto metal-CrO<sub>2</sub>/normal tape selector sets proper bias and EQ, while Dolby B and C NR and HX Pro headroom

extension team up for clean, dynamic sound on playback. Locate selections quickly with music search and zip to the end of a tape with blank skip. Fluorescent display. (TSP) 14-673, 199.99

### Professional Series deck with high-speed synchro-dubbing

**Optimus Professional Series SCT-53.** Even at this low price you get excellent sound and remarkable ease of use. One-touch synchro-dubbing copies tapes at high or normal speed, while an automatic level control ensures perfect-volume recordings. You'll enjoy clear sound on playback thanks to Dolby B NR, and you can auto-play two tapes in sequence in continuous mode. The auto tape selector sets proper bias and EQ for any tape type, and auto-stop protects cassettes and the player's mechanism. (TSP) 14-672 . . . . . 129.99



extension team up for clean, dynamic sound on playback. Locate selections quickly with music search and zip to the end of a tape with blank skip. Fluorescent display. (TSP) 14-673, 199.99

## A New Deck is the Perfect Addition to Any Home

More people listen to cassettes than to any other type of recorded media, and Radio Shack sells more cassette equipment than any other retailer. For home-studio recording, for playing prerecorded cassettes, or for copying favorite CDs and treasured LPs to tape, there's an Optimus® stereo cassette deck with the features and performance you need.

### QUESTION: What are Dolby® systems?



### ANSWER:

Dolby B and C noise reduction systems work during recording and playback to cut tape hiss and background noise for improved sound. The Dolby HX Pro headroom extension system improves recordings by allowing more of the source signal to be captured on the tape without audible distortion. Dolby B and C must be switched in during playback to hear the enhancement on recordings made with these systems. The improved treble response resulting from Dolby HX Pro can be heard on any type of cassette player.

### Hear the digital difference

DCC records and plays the same pure digital stereo you hear on audio CDs and video laser discs. There's no tape hiss! It's a superb choice for recording enthusiasts or anyone who simply wants the best in audio tape.



### DCC digital recording tape

**SUPERTAPE® SD-90** cassette. Formulated for full-spectrum digital sound. 90 minutes.

44-975 . . . . . 9.99



### Prerecorded pop classics

**Digital Compact Classics.** Peter Nero and orchestra perform 16 popular music standards. 51-4161 . . . . . 14.99



### System-compatible dual-cassette deck

**Optimus® SCT-5500.** Here's a "user-friendly" deck that's packed with features for high-quality recordings. You get synchro-start dubbing for easy tape duplication at high or normal speed, plus Dolby B NR for pure sound on playback. The automatic tape selector sets the deck for optimum sound whether you use metal-CrO<sub>2</sub> or standard cassettes. Continuous mode auto-plays two tapes in sequence, and end-of-tape auto-stop protects tapes and the player's mechanism. Compatibility with Optimus STA-5500 and STA-7500 receiver remotes makes it a nice choice in a system. With dual recording-level meters, plus 1/4" jacks for mikes and headphones. (TSP) 14-667 ..... 149.99



### Compact auto-reverse player

**SCP-32.** Excellent choice for use in an office or retail-store PA system—auto-reverse is just the thing for background music, music-on-hold or uninterrupted entertainment. You get Dolby B NR for clean sound, metal-CrO<sub>2</sub>/normal tape selector for best performance from all types of tape, end-of-tape auto-stop and pause. (TSP) 14-600 ..... 99.99



### Compact recorder/player

**SCT-86.** The low-cost way to add a full-featured recording deck to any stereo system. Has Dolby B NR, end-of-tape auto-stop, dual recording-level controls and LED recording-level meters. Metal-CrO<sub>2</sub>/normal tape selector, pause control, tape counter, 1/4" jacks for adding microphones. (TSP) 14-654 ..... 89.99



### Compact cassette player

**SCP-31.** Just right for office, dorm or bedroom. The inexpensive way to add cassette playback to any existing stereo system with aux or tape-in jacks—pair it with our compact or mini components on page 59 for a space-saving system. With auto-stop, metal-CrO<sub>2</sub>/normal tape selector and pause control. (TSP) 14-647 ..... 49.99

## Optimus stereo cassette decks offer the features you need for quality recordings and playback

Model No	Cat No	Type	Cassettes	High-Speed Dubbing	Auto-Reverse	Continuous Play	Music Search	Blank Skip	Dolby System	Tape Selector	Headphone Jack	Mike Jacks
DCT-2000	14-675	Digital Recording	Digital, Analog		✓		✓	✓	B, C	Auto	✓	
SCT-55	14-674	Recording	Dual	✓	Dual	✓	✓	✓	B, C, HX Pro	Auto	✓	
SCT-54	14-673	Recording	Dual	✓	✓	✓	✓	✓	B, C, HX Pro	Auto		
SCT-53	14-672	Recording	Dual	✓					B	Auto		
SCT-5500	14-667	Recording	Dual	✓					B	Auto	✓	✓
SCT-86	14-654	Recording	Single						B	Manual		✓
SCP-32	14-600	Playback	Single		✓				B	Manual		
SCP-31	14-647	Playback	Single						B	Manual		



### Fully automatic, linear-tracking belt-drive turntable

**(1) Optimus LAB-2250.** The linear-tracking, straight-line tonearm plays records the way they were cut, while a microprocessor keeps the stylus precisely angled to minimize wear. Tracks at less than 2.5 grams. Features auto start/shutoff plus repeat-play to return tonearm to the beginning of the side in play. A brushless DC servomotor keeps speed precise to reduce wow. Belt drive absorbs vibration. 33 1/3/45-RPM selector. With dual-magnet cartridge. UL listed AC. (TSP) 42-2921 ..... 149.99



### Semi-automatic turntable

**(2) LAB-340.** Its switchable preamp matches ceramic phono, tape and aux inputs for use with any stereo amplifier/receiver. Features straight-line tonearm, automatic arm return/shutoff and 33 1/3/45-RPM selector. With dual-magnet cartridge. UL listed AC. (TSP) 42-2919 ..... 99.99



### 3-input, 3-output control center

Adds versatility to your home recording studio by letting you monitor, record and dub with up to three separate cassette decks. Ends the hassle of patch cord swapping, too. Connects to tape monitor jacks. (TSP) 42-2115 ..... 25.99



### Audio source control center

Add to your audio system and expand your amplifier or receiver's aux input to accept up to three stereo sources. (TSP) 42-2110 ..... 14.99



### The stereo pair: traditional speakers of the house

Paired stereo speakers are the "musical instruments" of an audio system, responsible for reproducing a wide range of frequencies with fullness and accuracy. They may also be used to deliver the left and right front-channel sound in a home theater system. When selecting stereo speakers, it's helpful to understand a few commonly used terms.

A **speaker system** consists of two or more speakers (also called "drivers") in an enclosure. Most systems have a **crossover** that directs a specific range of frequencies to the driver optimized for those frequencies. In a 2-way system, the crossover directs lower frequencies (such as a string bass or organ pedal) to a larger driver, called a **woofer**, and higher frequencies (such as a flute or violin) to a smaller driver, or **tweeter**. A 3-way system adds a **midrange** driver, to which the crossover directs a broad middle range (including most vocals).

Enclosure designs may be either of two types. An **acoustic-suspension** system uses a sealed enclosure and produces tight, low-distortion bass. A **bass-reflex** system adds a port (an opening or a tube that extends into the enclosure, tuned to a specific frequency) for deeper and greater efficiency.

Speaker enclosures vary in construction and finish. At Radio Shack you'll find traditional wood cabinets, die-cast aluminum and high-density molded designs, in finishes such as oiled walnut, white enamel and black ash.

### Bottom-line bass: the lowdown on subwoofers

With the rapid advances in digital audio and home theater, one type of speaker growing in popularity is the **subwoofer**, a component designed to reproduce the very low frequencies (below 150 Hz) that other speakers are incapable of delivering.

When teamed with paired stereo speakers, a subwoofer dramatically extends bass response for richness and depth previously unheard. It brings out the warm fundamental tones of acoustic instruments and the gut-level energy of electronic music. What's more, with a subwoofer the stereo speaker pair is freed to produce upper-bass and midrange frequencies more smoothly and cleanly than before. The combination of a subwoofer and "satellites" is a space-saving alternative to larger speakers. Where the subwoofer really takes center stage, though, is the home theater. With a

## We'd Like to Introduce You to Your Next Set of Speakers

Few decisions are as critical to the enjoyment of great sound as your choice of speakers. That's why Radio Shack gives you such a wide selection—from classic floor-standing systems to shelf-sized compacts . . . from powerful subwoofers to high-performance satellites. Each is engineered to excel in the reproduction of sound, and each must pass strict quality controls.



### Speaking of surround sound: it's a wrap

Most of today's video movies and numerous stereo-TV broadcasts feature Dolby Pro Logic® surround sound encoded on the soundtrack. In a home theater system, the rear surround channel carries time-delayed ambient sounds and sonic effects to speakers positioned beside or behind the viewer. The result is a sense of great spatial depth, in which sound seems to *wrap around* the viewer. To experience this effect, you'll need a pair of quality surround speakers. The compact speakers on page 67 are perfect for this use.

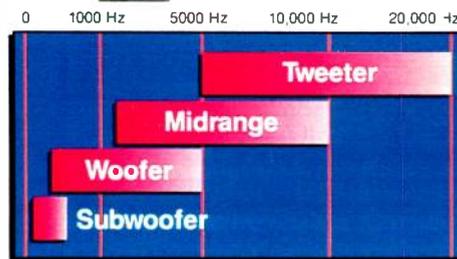
### The center-channel speaker: it's what's up front that counts

In a home theater system with Dolby Pro Logic surround sound, a front center channel carries movie dialogue and up-front action to a speaker placed directly above, below or beside the TV.



Because of its placement, the center-channel speaker must be magnetically shielded to prevent distortion of the TV picture.

At Radio Shack you'll find several speakers that are ideal for center-channel use, including the PRO CS-1 two-way speaker and the PRO CS-2 multispeaker system, both designed specifically for this purpose. See page 65.



Speaker drivers and the typical frequency ranges they are designed to reproduce include the **subwoofer** (25-250 Hz), **woofer** (50-5,000 Hz), **midrange** (1,500-10,000 Hz) and **tweeter** (5,000-20,000 Hz).

subwoofer, you can *feel* the impact of motion picture sound effects. You'll experience the awesome rumble of an earthquake, the bone-jarring percussion of a cannon, and more.

Because very low frequencies are nondirectional, you can place a subwoofer nearly anywhere in a room—even behind draperies or a couch, or under a table. All the sound will seem to flow from the main speakers, regardless of where the subwoofer is hidden. Our subwoofers are featured on pages 65 and 67.

### The Optimus® 30-day audition

We're confident you can't buy a better-sounding speaker than our Optimus brand, even at twice the price! Purchase a pair of Optimus speakers and audition them in your home for up to 30 days. If they're not music to your ears, bring 'em back. You can trade up . . . or get a full refund. Sound good? You bet they do! Stop by your nearby Radio Shack for details.



### Audio/video satellites with 10" subwoofer

**Optimus® PRO SWS-500.** This space-saving system brings you bass you can feel plus smoothness and clarity across the audio spectrum. A ported 11<sup>3</sup>/<sub>8</sub>"-high cabinet houses a 10" bottom-firing subwoofer that delivers low-frequency response down to 40 Hz. And because it features dual voice coils, you get maximum

bass output from *both* stereo channels. Each 7<sup>1</sup>/<sub>2</sub>"-high satellite—magnetically shielded for placement next to a TV—incorporates a 3" woofer, 4" passive radiator and 1/2" dome tweeter that combine for lifelike, dynamic sound up to 18,000 Hz. System handles 100 watts rms, 200 watts max. 40-4055 . . . System 299.99



### "Swivel" satellites with 12" subwoofer

**Optimus PRO SWS-501.** This well-designed system offers sensational sound and maximum flexibility in placement. Hide the 12<sup>5</sup>/<sub>8</sub>"-high, bottom-firing subwoofer in a corner, behind furniture, even use it as a magazine table or plant stand. It features a 12" dual-voice-coil driver for powerful bass extending

down to 35 Hz. Place the 8<sup>3</sup>/<sub>16</sub>"-high satellites on a shelf or mantel—each has a 3" woofer plus a 1/2" soft-dome tweeter in a separate enclosure that swivels so you can adjust it for best stereo imaging. Each delivers pure, smooth sound up to 20,000 Hz and handles 40 watts rms, 80 watts max. Subwoofer handles 100 watts rms, 200 watts max. 40-4056 . . . . . System 249.99

## Design a complete home theater or add to your existing system with these speakers.



### Complete center and rear-channel surround speaker system

**Optimus PRO CS-2.** Here's the easy way to add center and rear-channel sound to a home theater having a Dolby Pro Logic® surround-equipped receiver. The magnetically shielded, 6"-high x 16"-wide center-channel speaker has dual 4<sup>1</sup>/<sub>2</sub>" woofers and a 2" tweeter for clear movie dialogue and action. It handles 35 watts rms, 70 watts max. Each 6"-high surround speaker has a full-range 4<sup>1</sup>/<sub>2</sub>" driver that makes special sound effects come to life. Each handles 25 watts rms, 50 watts max. Spring terminals make hookup easy. Black vinyl finish. 40-4058 . . . . . System 129.99



### Beauties and the bass

**NEW! Optimus PRO X7.** Use as main speaker, for surround, or add to subwoofer below. Combines a 4" woofer and ferrofluid-cooled 1" soft-dome tweeter in a sealed die-cast enclosure, and handles 50 watts rms, 100 watts max. Response, 120-20,000 Hz. Stone gray finish. 40-2071 . . . . . Each 69.99

**Optimus PRO SW-12.** This subwoofer's ported 12<sup>5</sup>/<sub>8</sub>"-high cabinet houses a bottom-firing, dual-voice-coil 12" driver that delivers 35-250 Hz deep-bass response. 100 watts rms, 200 watts max. Black woodgrain finish. 40-4051 . . . . . 149.99



### Enjoy well-centered sound

**Optimus PRO CS-1.** Brings out the best from video center channel. Magnetically shielded. Dual 5" woofers, 1/2" dome tweeter. Handles 35 watts rms, 70 watts max. Response, 100-20,000 Hz. 6<sup>1</sup>/<sub>8</sub>" x 17<sup>1</sup>/<sub>2</sub>" x 6<sup>1</sup>/<sub>2</sub>". 40-4057 . . . . . 79.99



### Die-cast 2-way speaker

**Optimus PRO 77.** Versatile—use as a main speaker, a satellite or for surround sound. It teams a long-throw 5" woofer with a 1" soft-dome tweeter in a ported die-cast enclosure just 9<sup>1</sup>/<sub>4</sub>" high. Hanger slot. Handles 70 watts rms, 140 watts max. Response, 50-20,000 Hz. Black, 40-2057. White, 40-2058 . . . . . Each 79.99



### Magnetically shielded die-cast A/V speaker

**Optimus PRO 7 AV.** This 7<sup>1</sup>/<sub>16</sub>"-high mini speaker is perfect near or even on top of a TV set. It features a long-throw 4" woofer and ferrofluid-cooled 1" soft-dome tweeter in a sealed die-cast metal enclosure. Spring terminals, hanger slot. Handles 40 watts rms, 80 watts max. Response, 120-20,000 Hz. Black, 40-2048. **NEW!** White, 40-2059 . . . . . Each 69.99



### Swivel cube speakers

**Optimus XTS 8.** Superb as satellites, sensational for surround sound. Each 8<sup>1</sup>/<sub>2</sub>"-high stack has a 3<sup>1</sup>/<sub>4</sub>" woofer plus a 2<sup>1</sup>/<sub>2</sub>" tweeter in an enclosure that swivels so you can position it for best stereo imaging. Molded design. Each handles 30 watts rms, 60 watts max. Response, 220-20,000 Hz. 40-2064 . . . . . PAIR 79.99



### Full-range speaker

**Optimus XTS 22.** Fine choice for the rear surround channel in a home theater or as an extension speaker in a stereo system. It features a 4" driver for excellent sound from 100-18,000 Hz and handles 20 watts rms, 40 watts max. The 9<sup>3</sup>/<sub>8</sub>"-high sealed enclosure has a black woodgrain finish. 40-229 . . . . . Each 29.99



### Budget A/V speaker

**Optimus XTS 40.** This very affordable full-range speaker is magnetically shielded, making it ideal for center-channel surround sound (great for rear channel, too) or as a PC speaker. A 4" driver provides good sound from 150-18,000 Hz. Handles 20 watts rms, 40 watts max. The 5"-square sealed enclosure has a black woodgrain finish. 40-1991 . . . . . Each 19.99

### 30"-high mini-speaker stands look good, make speakers sound great!

Ideal when shelf placement or wall-mounting of mini speakers isn't practical—great for left/right front or rear-channel speakers in a home theater. Black. (Speakers not included.) 40-1351, PAIR 79.99  
30"-high white speaker stands. (CMC) 40-1353 . . . . . PAIR 79.99

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## Speakers for the 21st Century

Designed exclusively for Radio Shack by Linaeum Corporation, this trio of shelf-size speaker systems pushes sound reproduction to the absolute limit—you've never heard anything like it!

**Question:**  
"What are Linaeum-design speaker systems?"



**Answer:**

The latest advances in sound waveform and psychoacoustics research have led to the development of the amazing Linaeum True Line-Source Driver™ tweeter. Employing a highly flexible diaphragm rather than a conventional cone driver, this extra-efficient tweeter covers an expanded frequency range. Instead of "pushing" sound at you, it radiates a crystal-clear sonic image that seems to actually envelop you. Think of how a guitar or violin string vibrates and you begin to get an idea of how it works. But nothing takes the place of listening to it yourself—visit Radio Shack and hear the sound of the future today.

### **NEW** Die-cast 2-way system with Linaeum dipole tweeter

Optimus® PRO LX5. Quite simply, you must hear it to believe it . . . close your eyes, and the music seems to come from everywhere! This Linaeum-design system combines a top-mounted dipole tweeter that delivers dramatic 360° sound dispersion with a long-throw 5" polypropylene woofer in a ported die-cast aluminum enclosure. The net result? Deep, smooth bass response seamlessly crossing over into the upper frequencies, soaring up to 25,000 Hz with

incredibly low distortion unmatched by any other tweeter design (see Q&A at right). The rugged 2 × 4" tweeter is ferrofluid cooled to handle high power levels and provide detailed, accurate response. A metal grille covers the tweeter; a removable cloth grille covers the woofer. Available Oct. 1994  
**40-4061 . . . . . Each 149.99**

Frequency Response: 70-25,000 Hz. Power Capacity: 50 watts rms, 100 watts max. Size: 10½ × 6¼ × 6½"  
Linaeum is a registered trademark of Linaeum Corporation.



### **NEW** Linaeum-design 2-way mini speaker system with 5" woofer and front-facing monopole tweeter

Optimus PRO X77. Linaeum line-source driver technology puts this superb system in select company. Like its "big brother", the PRO LX5 above, PRO X77 boasts pristine high-frequency response to 25,000 Hz. Linaeum engineers say their front-mounted 3 × 3½" monopole tweeter "works the way sound does," delivering an even, uncolored sonic image across a wide 180° area. A ported aluminum enclosure and 5" woofer team up for solid bass response. An elegantly simple crossover ensures smooth "channeling" of signal between tweeter and woofer for extended-range sound without the mid-frequency dropoffs often found in 2-way systems. Distinctive stone gray finish with removable cloth grille. Available Oct. 1994. **40-2072 . . . . . Each 129.99**  
Frequency Response: 90-25,000 Hz. Power Capacity: 55 watts rms, 110 watts max. Size: 8⅞ × 5⅞ × 5¾"



### **NEW** Walnut-enclosure Linaeum-design bookshelf speaker with 4" woofer and monopole tweeter

Optimus PRO LX4. Yes, the attractive oiled walnut finish is an eye-catcher, but the real story is this speaker's ear-catching abilities! Its front-mounted 3 × 3½" Linaeum-design, monopole tweeter sends highs to a lofty 25,000 Hz while covering the middle range with smoothness and clarity. Sound is dispersed across a full 180° listening area without a hint of distortion. The tweeter is ferrofluid-cooled to handle high-powered amplifiers and deliver clean, undistorted highs. Ported enclosure and 4" woofer with 9.6-ounce magnet work in concert to provide full-bodied bass response. A carefully engineered crossover assures even coverage of low, mid and high frequencies for an overall balanced sound. Available Oct. 1994. **40-4060 . . . . . Each 99.99**  
Frequency Response: 100-20,000 Hz. Power Capacity: 50 watts rms, 100 watts max. Size: 5⅞ × 9⅞ × 5¼"

Prices apply at participating Radio Shack stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability)



**NEW** High-performance die-cast 2-way mini bookshelf speaker

Optimus PRO X7. The latest version of our most popular design! This mini powerhouse teams a 4" woofer for solid bass and a 1" dome tweeter with ferrofluid cooling for high power handling and efficiency. Attractive stone gray finish, removable black cloth grille. Response, 100-20,000 Hz. Handles 50 watts rms, 100 watts max. 7<sup>15</sup>/<sub>16</sub> × 5<sup>1</sup>/<sub>4</sub> × 5<sup>1</sup>/<sub>4</sub>". Available Oct. 1994. 40-2071 . . . . . Each 69.99



**NEW** Low-priced die-cast 2-way mini bookshelf speaker

Optimus PRO X5. Here's proof that a small speaker doesn't have to sacrifice superb sound. This "little brother" of the PRO X7 (left) features a 3" woofer plus a 1" ferrofluid-cooled tweeter that delivers optimum response from lower-powered amps. Response, 150-20,000 Hz. Handles 20 watts rms, 40 watts max. 6<sup>9</sup>/<sub>16</sub> × 3<sup>15</sup>/<sub>16</sub> × 4<sup>1</sup>/<sub>3</sub>". 40-2070 . . . . . Each 39.99



**NEW** Thunderous bass! Affordable 120-watt powered subwoofer

Optimus PRO SW-10P. The ported cabinet's 10" high-compliance woofer pumps out incredible lows, while an advanced motion-sensing design corrects deviations from signal for clean, undistorted sound. Auto power-on sensor, adjustable 25-200 Hz high-cut filter, high and low-level inputs. Response, 25-250 Hz. 13<sup>3</sup>/<sub>4</sub> × 13<sup>1</sup>/<sub>4</sub> × 15<sup>3</sup>/<sub>4</sub>". 40-4070 . . . 399.99  
Amplifier: 120 watts rms at 4 ohms, with no more than 1% THD.



**2-way pair with wall mounting brackets**

Optimus XTS 9. These space-saving speakers sound much larger than they look. Bass-reflex design teams a 5<sup>1</sup>/<sub>4</sub>" woofer and 1<sup>1</sup>/<sub>4</sub>" dome tweeter in a molded enclosure with metal grille. Steel brackets. Response, 110-20,000 Hz. Handles 50 watts rms, 100 watts max. 9<sup>1</sup>/<sub>4</sub> × 6 × 6<sup>1</sup>/<sub>4</sub>". 40-2056 . . . . . Pair 129.99



**Die-cast mini speakers with great bass and power**

Optimus PRO 77. Great for surround sound, small stereo systems, even extension and mobile use with brackets (shown below). Ported die-cast metal enclosure, 5" woofer, 1" soft-dome tweeter. Response, 90-20,000 Hz. Handles 70 watts rms, 140 watts max. 9<sup>1</sup>/<sub>4</sub> × 5<sup>15</sup>/<sub>16</sub> × 4<sup>3</sup>/<sub>8</sub>". Black, 40-2057. White, 40-2058 . . . . . Each 79.99



**Swiveling cube speakers for a superb mix of sound**

Optimus XTS 8. Perfect as satellites or for rear-channel surround sound. Each has a 3<sup>1</sup>/<sub>4</sub>" woofer plus a 2<sup>1</sup>/<sub>2</sub>" tweeter in an enclosure that swivels for a smooth mix of direct and reflected sound. Response, 220-20,000 Hz. Handles 30 watts rms, 60 watts max. Each 8<sup>1</sup>/<sub>2</sub> × 4<sup>1</sup>/<sub>8</sub> × 5<sup>7</sup>/<sub>8</sub>". 40-2064 . . . . . Pair 79.99



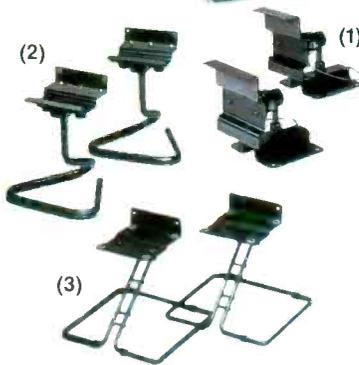
**Shielded die-cast 2-way speaker for video**

Optimus PRO 7AV. Magnetic shielding makes it ideal for use near a PC or TV—a fine choice for center-channel sound in a home theater. Has a 4" woofer and 1" tweeter in a die-cast enclosure. Response, 120-20,000 Hz. Handles 40 watts rms, 80 watts max. 7<sup>1</sup>/<sub>16</sub> × 4<sup>7</sup>/<sub>16</sub> × 5<sup>5</sup>/<sub>16</sub>". Black, 40-2048. **NEW!** White, 40-2059, Each 69.99



**Our famous, best-selling die-cast mini speaker**

Optimus PRO 7. Small in size but not in sound—in an acclaimed design! A high-compliance 4" woofer delivers taut, true bass, while a 1" dome tweeter produces detailed highs. Hanger slot for wall mounting. (See right for brackets and stands.) Response, 100-20,000 Hz. Handles 50 watts rms, 100 watts max. 7<sup>1</sup>/<sub>16</sub> × 4<sup>7</sup>/<sub>16</sub> × 4<sup>5</sup>/<sub>16</sub>". Black, 40-2066. White, 40-2065 . . . Each 59.99



**Speaker brackets & stands**

For all above except XTS 9 & subwoofer. (1) Wall bracket. Swivels and locks. 40-2067 . . . . . Pair 39.99 (2) Table/desk stand. Raises base of speaker to 4<sup>3</sup>/<sub>4</sub>" above table or desk surface for improved sound. 40-2068 . . . . . Pair 19.99 (3) Table/desk stand. Raises base of speaker for better looks and sound. 40-2069 . . . . . Pair 29.99 PRO 7/7AV bracket. Not shown. 40-2031 . . . . . Pair 17.99 PRO 77 car bracket. Not shown. (CMC) 40-2053 . . . . . Pair 19.99



## Eloquent Speakers

Discover what millions of satisfied listeners know—for sound value, the place to buy speakers is Radio Shack. Our classic floor-standing models bring you full-bodied, live-concert sound. And our compact shelf speakers deliver in a big way. For home stereo or home theater, there's one we're sure you'll like.

**QUESTION:**  
How do I choose the speakers that are right for me?



**ANSWER:**

Choosing the right speakers depends on your typical listening habits and the power of your amplifier or stereo receiver.

If you typically listen to music at high volume levels, choose speakers with an "rms" rating matching the "rms" rating of your amplifier or receiver for best sound quality and safe operation. If you typically listen at low to medium volume (for example, to background music), matching the "rms" rating of the speakers to your amplifier or receiver is not as critical.

A speaker's "rms" power-capacity rating is defined as the continuous power input the speaker can safely handle. Normally, this is equal to the "rms" power rating of an amplifier or receiver playing at full volume. A speaker's "max" rating is the peak, short-term power the speaker can handle without damage.

With these tips and the information on pages 56 and 64 as a guide, choose the speakers that sound best to you.

### Enjoy full-range music & movie sound with our best 3-way system

**Optimus® PRO 4000.** Experience concert-like sound—a magnificent blend of rich bass, smooth midrange and crisp, clean treble. An awesome 320 watts maximum power capacity makes this the ideal speaker for high-power digital audio systems, or for left and right front channels in a home-theater system. A high-compliance 15" woofer and tuned-port, bass-reflex design team up for bass you can actually feel. The 5" midrange and 1<sup>5</sup>/<sub>8</sub> × 2<sup>3</sup>/<sub>4</sub>" wide-dispersion horn tweeter are ferrofluid-cooled to handle high power without adding distortion. The result: true-to-life sound with three-dimensional imaging. The furniture-grade oiled walnut wood finish adds a handsome accent to any room. Acoustically transparent removable cloth grille. **40-4040 . . . . . Each 299.99**  
Frequency Response: 35-20,000 Hz. Power Capacity: 160 watts rms, 320 watts max. Size: 31<sup>1</sup>/<sub>2</sub> × 17<sup>3</sup>/<sub>8</sub> × 11<sup>1</sup>/<sub>16</sub>".

### Powerful 2-way system with big 15" woofer, horn tweeter

**Optimus 990.** This superbly engineered bass-reflex system combines a high-compliance 15" woofer with a precisely tuned port for deep bass response with a powerful punch. The wide-dispersion 3 × 15" piezo horn tweeter brings out detailed highs. And, this speaker's great sound is complemented by its good looks—you get a genuine oiled-walnut wood finish and removable cloth grille. **40-1125 . . . . . Each 149.99**  
Frequency Response: 50-20,000 Hz. Power Capacity: 100 watts rms, 200 watts max. Size: 23<sup>1</sup>/<sub>4</sub> × 19<sup>1</sup>/<sub>2</sub> × 11<sup>1</sup>/<sub>4</sub>".



### 3-way system with 12" woofer in elegant gloss black

**Optimus STS 1000.** Enjoy sound and style for the '90s and beyond. This strikingly attractive speaker's long-throw 12" woofer, tuned port, 5" dynamic driver and 3<sup>3</sup>/<sub>4</sub>" dome tweeter work in concert for authoritative sound with natural musicality. Wood-grain black vinyl finish. Removable cloth grille. **40-4045 . . . . . Each 129.99**  
Response: 40-20,000 Hz. Power Capacity: 100 watts rms, 200 watts max. Size: 23 × 14 × 10<sup>7</sup>/<sub>8</sub>".  
Adjustable stands. Raise speakers for better projection and truer sound. **40-1266 . . . . . PAIR 34.99**

**2-way system with 10" woofer in handsome walnut**

**Optimus PRO 300.** Here's an exceptional low-priced speaker for high-powered digital audio. The high-compliance, long-throw 10" woofer and tuned-port design combine for excellent low-frequency response, while the wide-dispersion 3" tweeter provides crisp detail and accurate imaging. Genuine walnut wood finish. Removable cloth grille.

**40-4044 . . . Each 99.99**  
 Response: 60-20,000 Hz.  
 Power Capacity: 100 watts rms, 200 watts max.  
 Size: 22<sup>3</sup>/<sub>8</sub> × 12<sup>3</sup>/<sub>16</sub> × 8<sup>1</sup>/<sub>16</sub>"

**2-way walnut-finish floor/shelf system with 8" woofer**

**Optimus PRO 200.** This good-looking speaker is a fine addition to any home stereo or home theater system—it's naturally musical and excellent for surround-sound use. Ported bass-reflex design features a long-throw 8" woofer for full-bodied bass and midrange, plus a wide-dispersion 2<sup>1</sup>/<sub>2</sub>" tweeter for clean highs. Oiled walnut wood finish, removable cloth grille.

**40-4041 . . . Each 79.99**  
 Response: 65-20,000 Hz.  
 Power Capacity: 60 watts rms, 120 watts max.  
 Size: 18<sup>7</sup>/<sub>8</sub> × 9<sup>1</sup>/<sub>16</sub> × 7"

**Shelf-size 2-way speaker system**

**(1) Optimus PRO 127.** Just right for a dorm or apartment—perfect anywhere there's a little extra space. The rear-ported enclosure teams a long-throw 5" woofer and 1<sup>1</sup>/<sub>4</sub>" tweeter for smooth sound. Walnut finish. Removable cloth grille. **40-227 . . . . . Each 69.99**  
 Response: 85-20,000 Hz. Power Capacity: 50 watts rms, 100 watts max. Size: 11<sup>3</sup>/<sub>16</sub> × 8<sup>1</sup>/<sub>2</sub> × 6<sup>1</sup>/<sub>2</sub>"

**Compact 2-way speaker system**

**(2) Optimus STS 50.** Sealed enclosure houses a long-throw 5" cone woofer for taut, true bass and a 2<sup>1</sup>/<sub>2</sub>" cone tweeter for clean highs. Walnut vinyl finish. Cloth grille. **40-230 . . . . . Each 39.99**  
 Response: 90-20,000 Hz. Power Capacity: 40 watts rms, 80 watts max. Size: 11 × 6<sup>3</sup>/<sub>4</sub> × 5<sup>3</sup>/<sub>4</sub>"



**Five-Year Limited Warranty**

**Included at No Extra Cost**

Optimus home speaker systems are warranted against defects for five years from the date of purchase. Within this period Radio Shack will repair the equipment without charge for parts and labor. Simply bring in your sales slip as proof of purchase date to your Radio Shack store. Warranty does not cover equipment subjected to misuse or accidental damage. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

**3-way speaker system with 8" woofer**

**Optimus STS 100.** Ideal for a larger shelf or for floor placement with optional pedestal stand (below). A high-compliance 8" woofer, 4" midrange and a 3<sup>3</sup>/<sub>8</sub>" dome tweeter team up for better sound than you would expect from a speaker its size. The sealed enclosure features a black woodgrain vinyl finish and removable cloth grille.

**40-4046 . . . Each 79.99**  
 Response: 75-20,000 Hz.  
 Power Capacity: 50 watts rms, 100 watts max.  
 Size: 16<sup>7</sup>/<sub>8</sub> × 10<sup>11</sup>/<sub>16</sub> × 12<sup>3</sup>/<sub>16</sub>"

**17" pedestal stands. 40-1327 . . . . . Pair 39.99**



**900-MHz wireless amplified stereo speakers**

**Optimus AMX 20.** Enjoy stereo up to 150 ft. from your system without running speaker wire. Transmitter connects to line-out jacks or 1/4" or 1/8" headphone jack of stereo and sends clear 900-MHz signals through walls/floors to speakers plugged into AC outlets. Each 8<sup>7</sup>/<sub>8</sub>"-high 2-way speaker has a built-in 10-watt amp and on/off switch, plus controls for left/right/mono channel, fine-tuning, volume and Extended Bass. Response, 150-15,000 Hz. With connecting cable and UL listed AC adapters. **40-1364 . . . . . System 249.99**



### Our finest amplified speakers are magnetically shielded—ideal for use near a computer or TV screen

**AMX 16.** These 9" -high speakers can really do a lot. Plug in your portable CD or tape player to enjoy rich, room-filling sound—or connect them to your PC and bring extra depth and clarity to multimedia programs, games and voice prompts. Carefully designed magnetic shielding allows placement close to a computer monitor or TV screen without causing picture distortion. The features include balance control, a power "on" LED, and headphone jack. Response: 120-20,000 Hz. Deliver 5 watts per channel. AC powered with the included UL listed AC adapter. Each has a 4" driver and is 9<sup>1</sup>/<sub>16</sub> × 4<sup>15</sup>/<sub>16</sub> × 5<sup>7</sup>/<sub>16</sub>". Fawn gray color matches Tandy® and other personal computer systems. **40-1363 ... PAIR 119.99**

**AMX 15.** Above in black. **40-1362 ... PAIR 119.99**

### 5-watt/channel amplified stereo speakers

**AMX 11.** Great looks—and wait until you hear them! Their tuned-port design brings you satisfying bass from an enclosure only 9<sup>1</sup>/<sub>8</sub>" high. These speakers connect to any portable CD or tape player that has a 1/8" headphone jack. They are AC powered and you can add our car DC cord #270-1534 for use in a vehicle. Response: 100-10,000 Hz. Each has 3" driver and is 9<sup>1</sup>/<sub>8</sub> × 4<sup>3</sup>/<sub>4</sub> × 4<sup>1</sup>/<sub>2</sub>". **40-1324, PAIR 69.99**

### Amplified stereo speakers with Bass Boost

**AMX 8.** Amplifies a portable CD or tape player so you can share the music. Bass Boost control enhances low frequencies. Power: 2W/channel. Auto power-off saves batteries. Bypass lets you use them as nonamplified speakers. Each has a 2 × 4" driver and is 6<sup>3</sup>/<sub>4</sub> × 2<sup>7</sup>/<sub>8</sub> × 5<sup>1</sup>/<sub>8</sub>". Requires 8 "C" batteries, or Y cable #273-1649 and AC adapter #273-1655 or DC adapter #14-844. **40-1313 ... PAIR 49.99**



### Shielded amplified speakers

**AMX 2.** This stereo speaker pair includes brackets for mounting on the sides of a computer monitor. They deliver 2 watts per channel to add exciting realism to multimedia programs and computer games. Each is 5<sup>1</sup>/<sub>2</sub> × 3<sup>3</sup>/<sub>8</sub> × 3<sup>3</sup>/<sub>8</sub>". Requires 4 "AA" batteries or our AC adapter #273-1655. **40-1359 ... PAIR 29.99**



### Shielded 2-way amplified stereo speakers

**AMX 12.** Add a portable CD or cassette player to these battery-powered speakers and you have a take-anywhere entertainment system. Magnetic shield for use near PC or TV. Bass Boost and surround-effect controls. 3.5W/channel. 150-20,000 Hz. Each has a 4" woofer, 2" tweeter and is 7<sup>13</sup>/<sub>16</sub> × 4<sup>9</sup>/<sub>16</sub> × 4<sup>7</sup>/<sub>8</sub>". Requires 8 "C" batteries or AC adapter #273-1652 or DC cord #270-1528. **40-1361, PAIR 59.99**



### Amplified stereo speakers with carrying case

**AMX 9.** Terrific value! The included case with shoulder strap makes it easy to take 'em along with your portable CD or cassette player. Features auto power-off to help save on batteries and LED "on" indicator. Power output: 2 watts per channel. Each has full-range 2<sup>1</sup>/<sub>2</sub>" driver and is 5<sup>5</sup>/<sub>8</sub> × 3<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub>". Requires 8 "C" batteries, or Y cable #273-1649 and AC adapter #273-1655. **40-1323 ... PAIR 39.99**



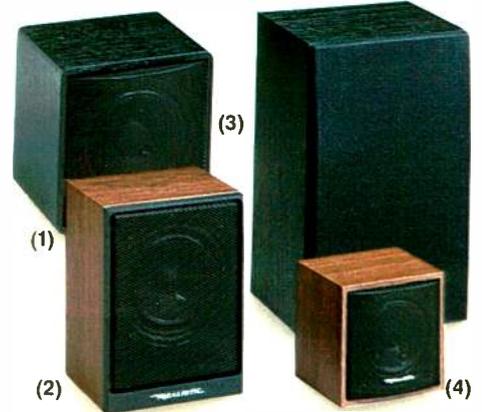
### Interlocking amplified speakers

**AMX 4.** This stereo speaker pair locks together for easy carrying with the included shoulder strap. They unlock so you can position them for the best stereo effect. Bass and treble boost controls. 4" drivers. 5 × 4<sup>3</sup>/<sub>4</sub> × 2<sup>1</sup>/<sub>2</sub>" each. Requires 4 "C" batteries or AC adapter #273-1651. **40-1267 ... PAIR 29.99**

See pages 150-151 for AC and DC power adapters.

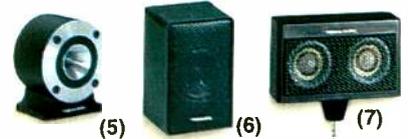
## Big Values in Little Speakers

... for home and portable stereos, PC sound and video surround.



### A/V and extension speakers

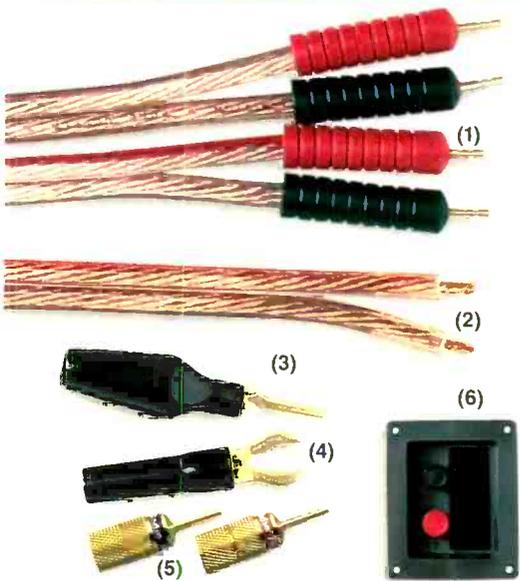
- (1) **NEW! XTS 40** Audio/Video Speaker. Magnetically shielded for use near TV or PC. 4" driver. 150-18,000 Hz. Handles 20 watts rms, 40W max. 5 × 5 × 4<sup>1</sup>/<sub>2</sub>". **40-1991, Each 19.99**
- (2) **XTS 25.** Magnetically shielded. 4" driver. 130-18,000 Hz. Handles 10 watts rms, 20W max. 6<sup>5</sup>/<sub>8</sub> × 4<sup>7</sup>/<sub>8</sub> × 4<sup>1</sup>/<sub>8</sub>". **40-1999, Each 19.99**
- (3) **NEW! XTS 22.** 4" driver. 100-18,000 Hz. Handles 20 watts rms, 40W max. 9<sup>3</sup>/<sub>8</sub> × 5<sup>5</sup>/<sub>8</sub> × 4<sup>3</sup>/<sub>4</sub>". **40-229 ... Each 29.99**
- (4) **XTS 30.** 3" driver. 240-20k Hz. 7W rms, 14W max. 4 × 4 × 3<sup>3</sup>/<sub>8</sub>". **40-1250, Each 15.99**



- (5) **Add-on super tweeter.** Extends response to 40,000 Hz. Crossover. Handles 50W rms, 100W max. 3<sup>7</sup>/<sub>8</sub>" dia. **40-1310, Each 24.99**
  - (6) **XTS 35.** Molded enclosure with 3" driver. 150-20,000 Hz. Handles 15 watts rms, 30W max. 5<sup>5</sup>/<sub>8</sub> × 3<sup>9</sup>/<sub>16</sub> × 3<sup>3</sup>/<sub>8</sub>". **40-1996, Each 24.99**
- Mounting brackets for fig. 6.** Available on fast special order (CMC). **40-1997 ... PAIR 11.99**
- (7) **Personal speaker.** Plugs into portable's 1/8" stereo headphone jack. **40-155 ... Each 9.99**

### In-wall and ceiling-mount speakers

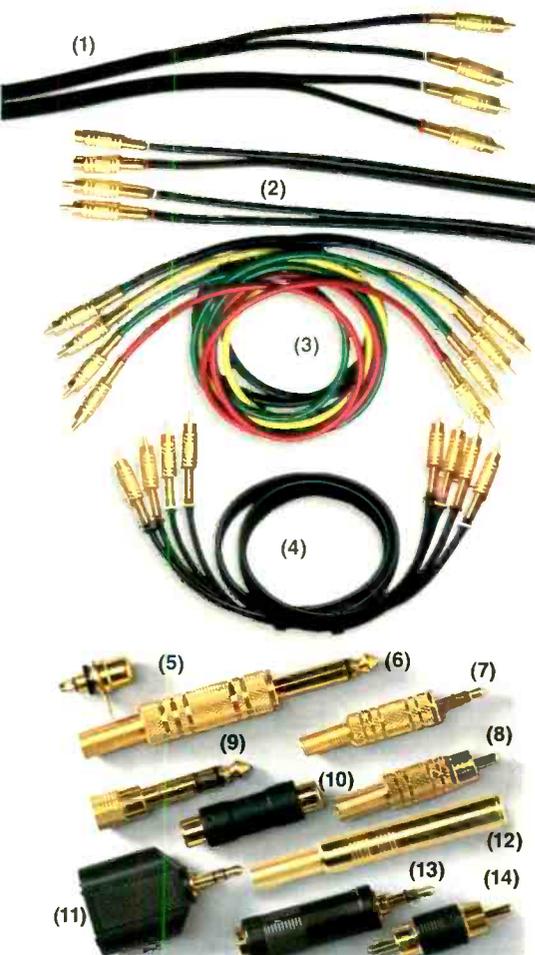
- (1) **NEW! 6<sup>1</sup>/<sub>2</sub>" 2-way.** Features 6<sup>1</sup>/<sub>2</sub>" woofer, 1" tweeter. 50-20,000 Hz. 50W rms, 100W max. Includes deluxe grille. **40-1368, Ea. 69.99**
- (2) **5<sup>1</sup>/<sub>4</sub>" 2-way.** 5<sup>1</sup>/<sub>4</sub>" woofer, 1" tweeter. 60-20 kHz. 30W rms, 60 watts max. **40-1365, Each 49.99**
- (3) **5<sup>1</sup>/<sub>4</sub>" 2-way.** 60-18kHz. 30W rms, 60W max. **40-1367, Ea. 39.99**
- (4) **8" 2-way.** 8" woofer, 1" tweeter. 40-20K Hz. 50 watts rms, 100W max. **40-1366, Each 99.99**



- (1) **NEW!** Pair of 12-foot Megacable 12-gauge speaker cables. Ready to use with color-coded 24-karat gold-plated pin connectors at each end. Quality you can see and hear! 42-1004, PAIR 29.99 As above but 18 feet long. 42-1005 . . . . . 39.99
- (2) Megacable speaker wire. Massive 12-gauge rope-strand pure copper conductors in tough, clear plastic insulation. Embedded stripe for easy polarity identification.  $\frac{3}{16}$ " wide. 278-1268, Per Foot 99¢ 16-gauge Megacable. 278-1270, 50-ft. roll 16.99
- (3) Flat-pin connectors. 24K gold-plated. For Megacable and 10-12 ga. cables. 278-310, Set of 4/2.99 16-gauge version of above. 278-317, Set of 4/2.99
- (4) Snap-spade connectors. 24-karat gold-plated. For Megacable, other 10 to 12-gauge cables and  $\frac{1}{4}$ " binding posts. 278-311 . . . . . Pkg. of 8/4.99 16-ga. version of above. 278-316, Pkg. of 8/4.99
- (5) **NEW!** Deluxe pin connectors. 24-karat gold plated. For 12-gauge Megacable. 278-309, Pkg. of 4/9.99 16-ga. version of above. 278-320, Pkg. of 4/9.99
- (6) Speaker plate for Megacable. Recessed terminals accept large speaker wires. 274-630 . . . 2.99

## The Gold Connection

Many of our audio connectors and adapters are available in gold-plated versions. Corrosion-resistant gold plating assures a secure hookup and superior signal transfer, resulting in high dependability and the best possible sound.



### Premium gold-plated patch cords

Our best. Their superior construction and heavy shielding make them your best choice for connecting your CD player, tape deck, stereo components and the audio connections on a VCR. All are color-coded and have gold-plated phono (RCA) connectors at each end with deluxe coiled strain-relief bushings.

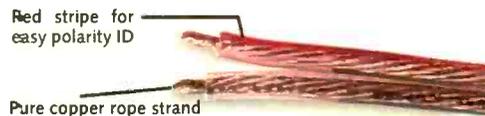
- (1) 3-foot "gold" premium stereo patch cord. Two phono plugs at each end. 42-2601 . . . . . 9.99 As above but 6 feet long. 42-2605 . . . . . 11.99 As above but 12 feet long. 42-2606 . . . . . 14.99
- (2) 3-foot "gold" premium patch extension. Two phono plugs at one end and two inline phono jacks at the other end. 42-2602 . . . . . 9.99
- (3) 3-foot "gold" premium cable set. Set of four color-coded cables with phono plugs at each end. 42-2603 . . . . . 16.99
- (4) 3-foot "gold" premium ribbon. Cable assembly with four phono plugs at each end. Ideal for connecting a tape deck, equalizer or Hi-Fi VCR to your stereo receiver or amplifier. 42-2604 . . . . . 16.99

### Gold-plated plugs, jacks, adapters

- (5) Panel-mount phono jacks. Mount in  $\frac{1}{4}$ " - diameter holes. 274-852 . . . . . Pkg. of 2/2.59
- (6) Two-conductor (monaural)  $\frac{1}{4}$ " (6.35mm) phone plug. Coil strain relief. 274-855 . . . . . 3.59
- (7) Three-conductor (stereo)  $\frac{1}{8}$ " (3.5mm) phone plug. 274-858 . . . . . 3.59
- (8) Phono plug. Extra heavy duty. Coil strain relief helps prevent damage to plug as well as the cable and jack that it is used with. 274-850 . . . . . 2.59
- (9) Accepts  $\frac{1}{8}$ " stereo plug and plugs into  $\frac{1}{4}$ " stereo jack. Lets you connect mini stereo headphones with an  $\frac{1}{8}$ " plug into a  $\frac{1}{4}$ " stereo headphone jack. 274-876 . . . . . 2.99
- (10) Phono plug coupler. Connects two phono plugs. 274-874 . . . . . 1.99
- (11) Dual headphone adapter. Share the music! Connects two  $\frac{1}{8}$ " stereo headphone plugs to a  $\frac{1}{8}$ " stereo headphone jack. 274-879 . . . . . 3.99
- (12) 3-conductor  $\frac{1}{4}$ " inline phone jack. Coil strain relief. 274-859 . . . . . 3.99
- (13) Accepts  $\frac{1}{4}$ " stereo plug and plugs into  $\frac{1}{8}$ " stereo jack. Connect full-size stereo headphones to a  $\frac{1}{8}$ " stereo headphone jack. 274-875 . . . . . 2.99
- (14) Phono jack coupler. Connects two phono jacks. 274-873 . . . . . 1.99

## Megacable<sup>®</sup> Makes a Difference!

Thanks to tighter, more uniform stranding, Radio Shack's Megacable has over five percent more copper by weight per foot than another leading brand. This higher copper content reduces resistance and power loss, which improves signal transfer. In other words, more music "flows" through Megacable. Rope-strand design provides more flexibility than standard braided wire, too. You get top quality at lower cost!



**QUESTION:**  
What's the difference between audio plugs?



**ANSWER:**

**Phone plugs** are used primarily on headphone and mike cords. They come in  $\frac{1}{4}$ " (6.35mm),  $\frac{1}{8}$ " (3.5mm) and  $\frac{3}{32}$ " (2.5 mm) sizes. We stock stereo (3-conductor) and mono (2-cond.) types and the matching sockets, called jacks.

**Phono (RCA) plugs** are used primarily for "line-level" audio or video hookups. For example, a shielded cable with phono plugs is used to connect a CD player to a stereo receiver.

**XLR connectors** are used to connect mikes to PA systems. These hookups are balanced, which helps cut noise and hum pickup. Our XLR transformer (Fig. 18, below) adapts a mike with a  $\frac{1}{4}$ " plug to a PA amp or mixer that has an XLR input jack. Fig. 17, below, adapts a "pro" mike with an XLR plug to an amp or mixer with a  $\frac{1}{4}$ " input jack.

- (15) XLR plug. 274-010 . . . . . 3.59
- (16) Inline socket. 274-011 . . . . . 3.59
- XLR panel socket. 274-013 . . . . . 3.99
- (17) Adapter/Transformer. Accepts XLR plug. Fits  $\frac{1}{4}$ " jack. 274-016 . . . . . 13.99
- (18) Adapter/Transformer. Accepts  $\frac{1}{4}$ " plug. Fits XLR jack. 274-017 . . . . . 13.99
- 8-pin Ham radio mike plug. 274-025 . . . . . 2.39
- 4-pin mike plug. 274-001 . . . 1.99
- Socket. 274-002 . . . . . 1.59



## Audio patch cables

For connecting audio components such as CD players, equalizers, stereo receivers, tape decks and mixers. These cables are quality checked. All have phono (RCA) connectors and are fully shielded to prevent pickup of hum and electrical interference.

- (1) 12-foot stereo cable. 42-2356 ..... 6.99
- 6-foot stereo cable. 42-2352 ..... 4.99
- 3-foot stereo cable. 42-2351 ..... 3.99

(2) 3-foot patch extension cable. Two phono plugs at one end, two phono jacks at the other. 42-2353 ..... 3.99

(3) Audio cable set. Includes four separate 3-foot shielded audio cables. 42-2309 ..... Set 5.79

(4) Patch-cable ribbon. This four-cable assembly is ideal for connecting a tape deck, equalizer or Hi-Fi VCR audio to a stereo system, stereo receiver or amplifier.

- 6-ft. 42-2355 ..... 8.99
- 3-ft. 42-2354 ..... 6.99

### Shielded cables with 1/4" phone plug

Fig.	Description	Feet	Cat. No.	Each
5	1/4" Plug to Phono Jack	6	42-2377	2.99
6	1/4" Plug to 1/4" Plug	6	42-2381	3.49
7	1/4" Plug to Phono Plug	6	42-2373	3.29
8	1/4" Plug to 90° Phono Plug	6	42-2440	2.99
9	1/4" Plug to 1/8" Mini Plug	6	42-2433	2.99

### Shielded cables with 1/8" phone plug

Fig.	Description	Feet	Cat. No.	Each
10	1/8" Plug to 1/8" Plug	6	42-2420	2.49
11	1/8" Plug to 1/8" Jack	6	42-2472	3.29
12	1/8" Plug to Phono Plug	6	42-2444	2.29
13	1/8" Plug to Alligator Clips	6	42-2421	2.39
14	1/8" Plug to Stripped Ends	6	42-2434	2.39
15	1/8" Plug to Stereo 1/4" Plug	6	42-2157	3.99

### Shielded cables with phono connectors

Fig.	Description	Feet	Cat. No.	Each
16	Phono Jack to Phono Jack	6	42-2358	2.59
17	Phono Plug to Phono Jack	3	42	2.29
17	Phono Plug to Phono Jack	6	42	2.49
17	Phono Plug to Phono Jack	12	42-2363	3.49
18	Phono Plug to Phono Plug	1 1/2	42-2365	1.79
18	Phono Plug to Phono Plug	3	42-2366	1.99
18	Phono Plug to Phono Plug	6	42-2367	2.49
18	Phono Plug to Phono Plug	12	42-2368	3.49
19	Phono Plug to Tinned Wire	3	42-2370	1.69
19	Phono Plug to Tinned Wire	6	42-2371	1.99
19	Phono Plug to Tinned Wire	12	42-2372	2.29

### Shielded Y adapters

Fig.	Description	Cat. No.	Each
20	Two Phono Jacks to Mono 1/8" Plug	42-2154	2.29
21	Two Phono Plugs to Mono 1/8" Plug	42-2153	2.29
22	Two Phono Jacks to Stereo 1/4" Plug	42-2477	2.59
23	Two Phono Plugs to Stereo 1/4" Jack	42-2471	3.79
24	Two Phono Jacks to Mono 1/4" Plug	42-2150	2.29
25	Two 1/4" Plugs to 1/4" Jack	42-2156	3.59
26	Two Phono Plugs to Phono Jack	42-2435	2.79
27	Two 1/8" Plugs to 1/8" Jack	42-2158	2.99
28	Phono Plug to 2 Phono Jacks	42-2436	2.69
29	Two Phono Plugs to Phono Plug	42-2438	2.29

### Shielded mike cable extensions

- (30) Have 1/4" plug at one end and a 1/4" jack at the other. 25-ft. 42-2379 .. 5.99
- 12-ft. 42-2378 .. 4.29

### Shielded guitar/instrument cords

- (31) 1-foot effects patch. 1/4" plug to 1/4" plug. Ideal length for effects racks, processors. 42-2465 ..... 2.49
- (32) 12-ft. coiled. 90° 1/4" plugs. 42-978 ..... 4.99
- (33) 15-ft. coiled. Retracts to 3 feet. Straight 1/2" plug at one end, 90° 1/4" plug at the other. 42-2473 ... 6.99

# We'll Help You Hook It Up Right

When it comes to connecting stereo or video equipment, America comes to Radio Shack. We've got it all in audio cables, plugs, jacks and adapters—along with expert advice—at 6,500 locations.

### Dipole FM antenna



Easily connects to any FM receiver or radio that has screw terminals for external antenna. 58" element. 42-2385 ..... 2.99

### Shielded audio cables With 1/8" plugs

This stereo cable has a 1/8" stereo phone plug at each end. 42-2387 ..... 3.69



### With DIN plugs

5-pin DIN plug at each end. For connecting European audio equipment. 6-ft. long. 42-2151 ..... 4.99



MIDI cable. 12 ft. Connects computers/musical instruments having MIDI interface. 5-pin gold-plated DIN plugs. (CMC). 42-2468 .. 34.99

### Dubbing cord

This 6 1/2-foot, attenuating cord has 1/8" monaural plug at each end. Use to connect earphone jack on TV, radio or stereo to mike jack on a recorder. 42-2152 ..... 3.49



### Y adapter cord

Has 1/8" stereo phone plug at one end and two phono plugs at the other. 3 ft. long. 42-2475 ..... 4.39

6-ft version of above. 42-2481 ..... 4.99

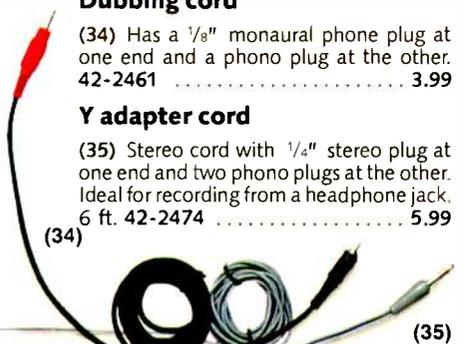


### Dubbing cord

(34) Has a 1/8" monaural phone plug at one end and a phono plug at the other. 42-2461 ..... 3.99

### Y adapter cord

(35) Stereo cord with 1/4" stereo plug at one end and two phono plugs at the other. Ideal for recording from a headphone jack. 6 ft. 42-2474 ..... 5.99



Prices apply at participating Radio Shacks stores and dealers. Items not available in your participating store can be special-ordered at the advertised price.

# Audio plugs, jacks and plug adapters.



(1) 3/32" (submini size) plug adapters			
Accepts	Plugs Into	Cat. No	Each
1/8" Stereo Plug	3/32" Stereo Jack	274-373	3.79
1/8" Stereo Plug	3/32" Mono Jack	274-361	2.29
1/8" Mono Plug	3/32" Mono Jack	274-327	1.29

(2) Recording-level attenuator. Accepts phono plug and plugs into 1/4" monaural jack. Reduces line-level signal to level required for a recorder's mike input. 40 dB attenuation. 274-300 ..... 2.99  
 3-piece monaural adapter set. Adapts a phono plug, a 1/4" phono plug, and a 1/32" submini phono plug to fit a 1/8" monaural jack. 274-359 ..... Set 2.99

(3) Phono (RCA-type) plug and jack adapters			
Plugs Into	Accepts	Cat. No.	Price
Phono Jack	1/8" Stereo Plug	274-387	2.49
Phono Jack	1/8" Mono Plug	274-326	1.89
Phono Jack	Two Phono Plugs	274-303	1.99
Phono Jack	1/4" Mono Plug	274-389	2/3.79
Phono Jack	Phono Plug (90°)	274-306	2.59
Accepts 3 Phono Plugs (Y)		274-511	2.49

(4) Plug-to-plug couplers			
Accepts	Cat. No.	Price	
Two 1/4" Stereo Plugs	274-1556	2.99	
Two 1/8" Stereo Plugs	274-1555	1.99	
Two Phono Plugs	274-1553	2/1.39	
4 Phono Plugs (2 Stereo Patches)	274-1548	5.19	

(5) Phono (RCA-type) plugs			
Description	Cat. No.	Qty.	Price
Solderless 90°, 2 Red and 2 Black.	274-383	2	2.19
Solderless. 2 Red and 2 Black.	274-384	4	1.99
Color-Coded. Solder-Type.	274-321	8	2.49
Plastic Grip-Style Covers.	274-319	4	1.99
Shielded. Solder-Type.	274-339	2	1.99
Strain Relief. 3 Black, 3 Red.	274-451	6	2.29

(6) DIN-type connectors			
Type	Pins	Cat. No.	Each
Plug	5	274-003	1.79
Plug	6	274-020	1.79
Plug	8	274-026	1.79
Chassis Jack	5 or 3	274-005	1.19
Inline Jack	5 or 3	274-006	1.69

(7) Inline phone jacks			
Description	Cat. No.	Qty.	Price
2-Conductor 1/4"	274-340	2	2.29
2-Conductor 1/4"	274-141	2	2.99
3-Conductor 1/4", Shielded.	274-142	1	3.49
2-Conductor 1/8"	274-333	2	1.89
3-Conductor 1/8"	274-274	2	1.89

(8) 1/4", 1/8", and 3/32" phone plugs			
Description	Cat. No.	Qty.	Price
3-Cond. 1/4", 1/2"-dia. barrel.	274-139	2	1.99
3-Cond. 1/4", Shielded.	274-285	1	1.59
3-Cond. 1/4", Shielded. Gnp barrel.	274-1546	1	1.99
2-Cond. 1/4"	274-1536	2	1.79
2-Cond. 1/4", "Big Barrel"	274-1539	2	2.29
2-Cond. 1/4", Shielded.	274-1544	2	2.99
2-Cond. 1/4", Shielded.	274-1545	1	1.79
3-Cond. 1/4", 90° type. Shielded.	274-265	1	1.99
2-Cond. 1/4", 90° type. Shielded.	274-254	2	2.39
3-Cond. 1/8", Mini-size.	274-284	2	2.39
3-Cond. 1/8", Shielded.	274-1547	1	2.29
2-Cond. 1/8", Black	274-286	2	1.49
2-Cond. 1/8", Red.	274-287	2	1.49
2-Cond. 1/8", Shielded.	274-288	2	2.19
2-Cond. 3/32", Black.	274-289	2	1.59
2-Cond. 3/32", Red.	274-290	2	1.59

(9) Panel-mount phone jacks. (Open-frame shown.)			
Open frame, open-circuit			
Size	Cnd.	Cat. No.	Price
1/4"	2	274-252	2/1.99
1/4"	3	274-312	2/2.79
1/8"	2	274-251	3/1.89
Open-frame, closed-circuit			
Size	Cnd.	Cat. No.	Price
1/4"	2	274-255	2/2.49
1/4"	2	274-248	2/1.79
3/32"	2	274-292	2/1.79

(10) Speaker terminal plates			
Description	Cat. No.	Price	
With Keyhole Slot	274-627	2.29	
With Phono Jack	274-625	1.99	
2-Position Pushbutton Terminal	274-315	1.29	
8-Position Pushbutton Terminal	274-623	2.99	
4-Position Pushbutton Terminal	274-622	1.59	
2-Position Pushbutton Terminal	274-621	1.19	



## XLR "pro"-type mike connectors and adapters, Ham and CB mike plugs

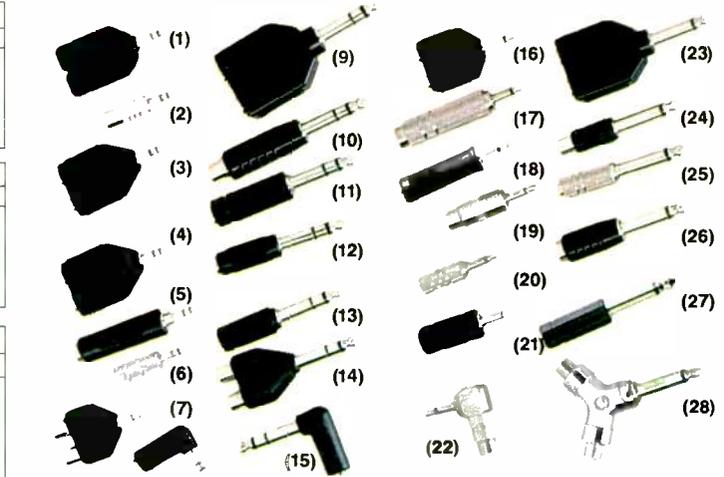
- (1) Adapter/transformer. Accepts XLR plug (from balanced-type "pro" mike). Fits 1/4" jack on consumer-type amplifier, mixer or recorder. 274-016 ..... 13.99
- (2) Adapter/transformer. Accepts 1/4" plug from consumer-type mike. Fits XLR input jack on a "pro" PA amplifier or mixer. 274-017 ..... 13.99
- (3) 3-pin XLR plug. 274-010 ..... 3.59
- (4) 3-pin XLR inline jack. 274-011, 3.59
- (5) 3-pin XLR panel jack. 274-013, 3.99
- (6) 8-pin Ham mike plug. 274-025, 2.39
- (7) 4-pin panel jack. 274-002 ..... 1.59
- (8) 4-pin mike plug. 274-001 ..... 1.99

## "Car radio" plugs

Motorola-type plugs. Solder type. Fit antenna input of many car radios and scanners. 274-711 ..... Pkg. of 2/99¢  
 Solderless Motorola-type plug. (Shown.) 274-709 ..... 1.59  
 Solderless Motorola-type inline jack. 274-710 ..... 1.59

## Phono (RCA) jacks and jack boards

Panel or chassis-mount phono jack. 274-346 ... Pkg. of 4/2.49  
 Plastic inline. 274-337 .. Pkg. of 4/1.79  
 Shielded inline. 274-338, Pkg. of 2/1.99  
 Dual phono jacks. (Shown.) Each accepts two plugs. 274-332 ..... Pkg. of 2/1.99  
 Board with eight phono jacks. 274-370 ..... 1.69  
 Board with four phono jacks. 274-322 ..... 1.29



## (8) Super selection of audio plug adapters

These handy adapters provide reliable hookups between connectors of different types or genders. All handle line-level or speaker-level signals. Fig. 5 allows you to connect a stereo headphone with a 1/4" plug to a 1/8" - size stereo headphone jack. Fig. 10 does the reverse, allowing you to connect a headphone with 1/8" plug to a 1/4" jack. Fig. 4 allows you to plug two headsets into a single headphone jack. Figs. 17, 21 and 26 let you use stereo headphones with mono sources such as scanners, CBs, shortwave and Ham radios. See Fig. 1, at top of page, for 3/32" (submini) adapters.

(1) Bookscassette® Adapter. Listen to books on cassette recorded in mono through both sides of stereo headphones. 274-396 ..... 2.99

Figs. 2-8 plug into 1/4" stereo jack			
Fig	Accepts	Cat. No	Price
2	Phono Plug	274-378	2.49
3	Two 1/8" Mono Plugs	274-375	3.99
4	Two 1/8" Stereo Plugs	274-313	3.39
5	1/4" Stereo Plug	274-366	1.79
6	1/8" Mono Plug	274-374	1.99
7	Two Phono Plugs	274-369	2.49
8	1/8" Stereo Plug	274-372	2.99

Figs. 16-22 plug into 1/4" monaural jack			
Fig	Accepts	Cat. No	Price
16	Two 1/8" Mono Plugs	274-310	2.39
17	1/4" Stereo Plug	274-361	1.99
18	1/4" Mono Plug	274-047	1.29
19	Phono Plug	274-330	1.69
20	3/32" Mono Plug	274-328	1.99
21	1/8" Stereo Plug	274-368	1.19
22	Phono Plug	274-395	1.99

Figs. 9-15 plug into 1/4" stereo jack			
Fig	Accepts	Cat. No	Price
9	Two 1/4" Stereo Plugs	274 302	4.79
10	Phono Plug	274 365	1.39
11	1/2" Mono Plug	274-1520	1.99
12	1/8" Stereo Plug	274-367	1.79
13	1/8" Mono Plug	274-363	1.99
14	Two Phono Plugs	274-308	3.99
15	1/8" Stereo Plug	274-371	3.99

Figs. 23-28 plug into 1/4" monaural jack			
Fig	Accepts	Cat. No	Price
23	Two 1/4" Plugs	274-309	3.19
24	Phono Plug	274-320	2/2.79
25	1/8" Stereo Plug	274-348	2.49
26	1/4" Stereo Plug	274-360	1.99
27	1/8" Mono Plug	274-325	1.59
28	Two Phono Plugs	274-304	1.99



### Learn about building speakers

**Building Speaker Systems.** This book brings you a wealth of useful information on speakers. Learn how they work, how to choose them, and how to build your own systems. Illustrations and easy-to-understand text highlight the importance of enclosures, placement, construction techniques and wiring. Includes plans for four home systems and a 2-chapter section on vehicle speakers. 160 pages. **62-1087 . . . 5.99**



**1 3/4" dynamic tweeter**  
25 watts rms, 50 watts max. Response: 5 kHz-20 kHz. Efficiency: 91 dB, SPL 1W/1M. **40-1270 . . . . . 9.99**

**2 1/4" dynamic horn tweeter**  
Capacity: 50 watts rms, 100 watts max. Response: 6-16 kHz. Efficiency: 98 dB, SPL 1W/1M. **40-1278, 13.99**



**2 x 6" horn tweeter**  
Dynamic. 60W rms, 120 max. 5kHz-17kHz. 96 dB, SPL 1W/1M. **40-1228, 16.99**

### 4" super-horn tweeter

Dynamic. 70 watts rms, 140W max. 4 kHz-50 kHz. 90 dB, SPL 1W/1M. **40-1377, 17.99**



**1" soft-dome tweeter**  
Dynamic. 40 watts rms, 80 watts max. 6 kHz-20 kHz. 87 dB, SPL 1W/1M. **40-1276 . . . . . 17.99**

**3 1/2" piezo horn tweeter**  
Rated 75 watts rms, 150 watts max. 4 kHz to 27 kHz. Efficiency: 94 dB, SPL 1W/1M. **40-1396 . . . . . 13.99**



**2" piezo tweeter bargain**  
Power capacity: 75 watts rms, 150 watts max. 5 kHz-25 kHz. Efficiency: 94 dB, SPL 1W/1M. **40-1383, 4.99**

**2 x 6" horn tweeter**  
75W rms, 150W max. 2 kHz-25 kHz. 94 dB SPL. **40-1379, 14.99**



**3 3/4" piezo tweeter**  
75W rms, 150W max. 4 kHz-25 kHz. 92 dB, SPL 1W/1M. **40-1397 . . . 9.99**

**6 1/2 x 3 3/4" horn tweeter**  
Piezo. 85W rms, 170W max. 4 kHz-27 kHz. 92 dB SPL. **40-1398, 10.99**



**3 3/4 x 2 5/8" 2-horn tweeter**  
Piezo. 100 watts rms, 200W max. Response: 3.5 kHz-20 kHz. 99 dB, SPL 1W/1M. **40-1392 . . . . . 17.99**



## THE SPEAKER SOURCE

Audiophiles, hobbyists, do-it-yourselfers! Come to Radio Shack when you need to replace or upgrade speakers in radios, TVs, PCs, guitar amps, PA systems and car stereos. Our enclosure-ready drivers are great for custom speaker systems and home theater, too.



**4" midrange**  
40W rms, 80W max. 2.8-oz. magnet, 1.5 kHz-11 kHz. Efficiency: 92 dB, SPL 1W/1M. **40-1282 . . . . . 11.99**



**3" midrange/tweeter**  
30W rms, 60W max. 3-oz. magnet. 700-20 kHz. Efficiency: 89 dB, SPL 1W/1M. **40-1289, 12.99**



**4" soft-dome midrange**  
70W rms, 140W max. 10.8-oz. magnet. Response: 1.5 kHz-10 kHz. Efficiency: 86 dB, SPL 1W/1M. **40-1281 . . . . . 23.99**



**Speaker wall plate and plugs**  
Fits standard single electrical box. Plate has two phono jacks. Set includes two phono plugs. **40-991 . . . . . 3.49**



### Wall plate with terminals

Fits standard single electrical box. Four pushbutton terminals accept speaker wires. **40-985 . . . . . 3.49**



### L-pad volume control

Monaural. Controls volume of one speaker, maintains 8-ohm impedance. 25W peak. **40-980 . . . . . 7.99**



### Stereo L-pad volume control

Controls volume of two speakers while maintaining proper 8-ohm impedances. 75W peak. **40-978 . . . 19.99**



### Metal wall brackets

Great for surround speakers. Each can support up to 50 pounds. **40-150, Pair 3.49**

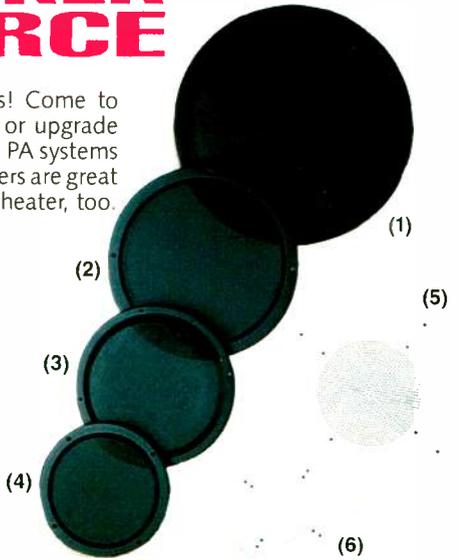
### Crossover coil

Choke coil with high linearity for low distortion. 4.25 mH. 200 watts. Cutoff: 150 Hz at 4 ohms, 300 Hz at 8 ohms. **40-1326 . . . . . 13.99**



### Universal speaker crossover networks

Directs high frequencies to tweeter, lows to woofer. 3-way type also directs mid-frequencies to midrange speaker. For home, PA or car speakers. Rated 100 watts. 6dB/octave. (1) Crossover for a 3-way system. **40-1299 . . . . . 14.99**  
(2) Crossover for a 2-way system. **40-1296 . . . . . 7.99**



### Deluxe metal grilles for round speakers

Fig	Size	Cat No	Each	Fig	Size	Cat. No.	Each
1	15"	40-1358	16.99	3	10"	40-1357	8.99
2	12"	40-1346	10.99	4	8"	40-1345	7.99

### Metal grilles for ceiling speakers

Fig.	Size	Cat. No.	Each
5	8"	40-1223	5.69
6	4"	40-1220	4.59



### 4-speaker switch

For 2 pairs of stereo speakers. Select one pair or both. Metal case. Mtg. tabs. **40-130, 8.99**



### 6-speaker switch

For up to three pairs of stereo speakers. Select one, two or all three pairs. 10W/channel. **40-125 . . . . . 17.99**



### 8-speaker switch

For high-power setups. Select one, two, three or all four pairs. Rated 100 watts/channel. **40-136 . . . . . 31.99**



### Grille fabric, foam, acoustic insulation

(1) Speaker grille fabric. Dress up older speakers or beautify your new custom-built speakers. 36 x 34". Gray, **40-1953**. Black, **40-1935 . . . . . Each 7.99**  
(2) Foam speaker grille. Good looking, acoustically transparent. 17 x 23 1/2 x 3/4". Brown, **40-1946**. Black, **40-1951 . . . . . Each 8.99**  
(3) Acoustic insulation. Helps damp unwanted resonances in cabinets. 1 sq. yd. **42-1082 . . . . . 3.49**



### 18" to 4" paper-cone woofers—ideal for use in your custom speaker designs

Fig.	Size	Capacity in Watts		Effective Range Hz	F <sub>0</sub> (Hz)	Q <sub>s</sub>	V <sub>s</sub> (ft.)	SPL (dB) 1W/1M	Cat. No.	Each
		RMS	Max.							
1	18"	200	400	25-1,200	16.5	.20	41	95	40-1309	139.99
2	10"	50	100	40-5,000	40	.93	4.3	91	40-1331	35.99
3	8"	50	100	45-2,500	50	.58	1.4	91	40-1016	29.99
4	4"	10	20	55-5,000	85	.47	.23	84	40-1022	13.99



### 8" to 2" wide-range speakers—perfect for replacements in stereos, TVs, radios

Fig.	Size	Capacity in Watts		Effective Range Hz	Magnet Wt. (Oz.)	Cat. No.	Each
		RMS	Max.				
5	8"	10	20	75-25,000	2.8	40-1271	7.99
	8"	10	20	90-20,000	5.3	40-1272	10.99
	8"	30	60	57-16,000	9.4	40-1286	18.99
6	3"	2	4	300-5,000	0.4	40-248	3.39
	2 1/4"	0.5	1	240-4,000	0.4	40-246	2.99
	2"	0.5	1	250-5,000	0.4	40-245	2.59
7	6"	20	40	55-12,000	9.8	40-1285	16.99
	6"	5	10	90-12,000	2.8	40-1242	6.99

### Dual-voice-coil subwoofers—construct your own deep-bass speaker system

Fig.	Size	Capacity Watts		Effective Range Hz	Magnet Wt. Oz.	F <sub>0</sub> (Hz)	Q <sub>s</sub>	V <sub>s</sub> (ft.)	SPL (dB) 1W/1M	Cat. No.	Each
		RMS	Max.								
8	12"	60	120	26-2,700	19	21	.38	13.3	89/95	40-1350	61.99
9	8"	50	100	40-1000	18	45	.48	1.7	86/92	40-1348	41.99



### Polypropylene-cone woofers.

Extra-durable, long-life cones resist effects of moisture and temperature extremes, and are able to withstand greater stress at high volume level.

Fig.	Size	Capacity Watts		Effective Range Hz	F <sub>0</sub> (Hz)	Q <sub>s</sub>	V <sub>s</sub> (ft.)	SPL (dB) 1W/1M	Cat. No.	Each
		RMS	Max.							
10	15"	100	200	35-1,500	20	.45	21.0	92	40-1301	64.99
11	12"	50	100	40-3,000	21.5	.665	15.5	89	40-1026	53.99
12	10"	50	100	35-3,000	37	.554	4.0	92	40-1014	37.99
13	8"	50	100	40-3,000	35	.48	2.1	89	40-1024	33.99
14	6 1/2"	50	100	50-6,000	50	.40	1.5	89	40-1011	21.99

## BUZZ WORDS

**SPL/EFFICIENCY.** Sound Pressure Level (SPL) measures the efficiency of a speaker. The decibel (dB) rating is derived by measuring a 1-watt signal, on axis, one meter from the speaker. The higher the number, the more efficient (and louder) the speaker will be.

**DUAL-VOICE COIL (SUBWOOFERS).** Allows both channels of a stereo amplifier to be routed to a single subwoofer, thereby reproducing the very low, nondirectional bass effects for both channels in a single speaker. Most setups require only one subwoofer, but serious audiophiles may want a pair.

**FREE-AIR RESONANT FREQUENCY (F<sub>0</sub>).** The lower limit of a speaker's ability to reproduce lows accurately.

**RESONANCE MAGNIFICATION (Q<sub>s</sub>).** The tendency of a speaker to reach peak output operating at the free-air resonant frequency.

**COMPLIANCE (V<sub>s</sub>).** The relative stiffness of a speaker cone's suspension. The larger the speaker, the higher the number is.



### Super selection of speaker cables

Don't let a poor hookup spoil your music. These quality Radio Shack cables are individually pre-tested to assure perfect connections.

#### (1) With phono (RCA-type) plug at each end.

Feet	Color	Gauge	Cat. No.	Each
50	Brown	18	42-2480	8.99
24	Brown	18	42-2478	4.99
12	Brown	18	42-2479	3.99
24	Gray	24	42-2392	3.29
24	White	24	42-2430	3.29
12	Gray	24	42-2445	2.79
12	White	24	42-2431	2.79

(2) Phono (RCA) plug to lug. Has plug at one end, color-coded lugs at other. 24-gauge conductors.

24 feet. 42-2450 ... 2.99  
12 feet. 42-2449 ... 2.29

(3) 1/8" phono plug to lug. 12 feet long with 24-gauge conductors.

42-2454 ... 2.29

(4) Lug to lug. Color-coded lugs each end, ideal for screw terminals. 24-ga. conductors.

24 Feet. 42-2446 ... 2.19  
12 Feet. 42-2447 ... 1.69

(5) Phono plug to tinned wire. 24 ft., 18-ga. conductors. 42-2457 ... 4.69

(6) Tinned wire at each end. 24 ft., 18-ga. conductors. 42-2456 ... 4.29

(7) Pin connectors at each end. 24 feet, 18-gauge conductors. 42-2455 ... 4.99



# We Bring Music to Your Ears

Only Radio Shack brings you such an extensive selection of headphones . . . in such a variety of designs . . . at such affordable prices. New for 1995 is our 900-MHz PRO 100 wireless stereo headphone system, perfect for private listening enjoyment with total freedom of movement. And, we continue to offer professional-quality corded headphones for digital-stereo listening and studio recording. Whatever your listening choices, we bring beautiful music to your ears!

**NEW** 900-MHz wireless stereo headphone system

**Optimus® PRO 100.** Connect to home stereo or home theater system to enjoy superb stereo sound, wirelessly. The 900-MHz AC-powered transmitter sends static-free, interference-free signals through walls and floors up to 150 feet. Level and frequency controls adjust for best sound. Headphones operate on built-in rechargeable Ni-Cd batteries. UL listed AC adapter, 6-foot audio cable, "Y" cord. 33-1145 . . . . . 129.99

**Wireless infrared monaural headphone system**

Enjoy crystal-clear sound anywhere in the room, without wires. Transmitter plugs into TV or radio and sends infrared signal up to 20 feet. (For use with stereo equipment, add our #274-374 or #274-363 adapter, page 73. Sound will be monaural.) UL listed AC adapter, 1/4" and 1/8" phone plugs. Headphones require 2 "AAA" batteries. 32-2052 . . . . . 59.99



**Our finest for digital stereo and home recording**

(1) **Optimus PRO 90.** Engineered to convey the wide dynamics of CDs and DCC tapes. Titanium-evaporated diaphragms deliver smooth 10-22,000 Hz response with clarity and detail. Covered, foam-filled cushions encase ears for maximum isolation. Coiled 8-foot oxygen-free-copper cord, gold-plated 1/4" plug. 33-1140 . . . . . 69.99

**NEW** Stereo headphones with built-in boom mike

(2) **Optimus PRO 50 MX.** Perfect for DJs and singers on stage and in the studio. The unidirectional dynamic mike has a built-in windscreens plus a flexible gooseneck boom. Headphones response, 10-22,000 Hz. Has 8-foot cord with gold-plated 1/8" mike plug and gold-plated 1/8" headphone plug. Available Oct. 1994. 33-1135 . . . . . 59.99

**Open-air 'phones with variable-density earcushions**

(3) **PRO 60.** Soft foam earcushions retain bass frequencies while the open-air design vents midrange and treble. The resulting sound combines the rich, deep-bass response of closed headphones with open, transparent mids and highs. Response, 15-25,000 Hz. The 8-foot flat cord has a 1/4" gold-plated plug. 33-999 . . . . . 49.99

**Vented, around-the-ear 'phones with volume control**

(4) **LV 20.** These well-designed headphones' covered, foam-filled cushions surround the ear to retain bass and reduce external sound, while the earcup vents ensure clarity and detail throughout the audio spectrum. Response, 20-20,000 Hz. The 8-foot Y-cord has an inline volume control and gold-plated 1/4" plug. 33-1001 . . . . . 39.99

# We Have the Extensions and Adapters You Need

Shop Radio Shack for the only complete selection of headphone adapters and extension cords of any retailer. We have what you need to get the greatest personal listening enjoyment from all your audio equipment.



### Lightweight, open-air headphones

(1) Nova 67. So light and comfortable you might forget you're wearing them—except that they sound so good! Soft on-ear foam cushions and padded headband ensure hours of listening comfort. Open-air design delivers rich sound while letting you hear a phone or doorbell, should it ring. Response, 20-20,000 Hz. 8-foot Y-cord, 1/4" plug. 33-1026 ..... 34.99

### Low-profile, supra-aural 'phones with pivoting earcushions

(2) Nova 56. These feather-light headphones provide maximum comfort and excellent sound. Foam-cushioned earcups pivot to rest lightly on the ear, and the adjustable headband flexes for just the right fit. A high-energy dynamic element and rare-earth neodymium magnets team up for full-range 20-20,000 Hz response. 8-foot Y-cord, 1/4" plug. 33-2005 ..... 29.99

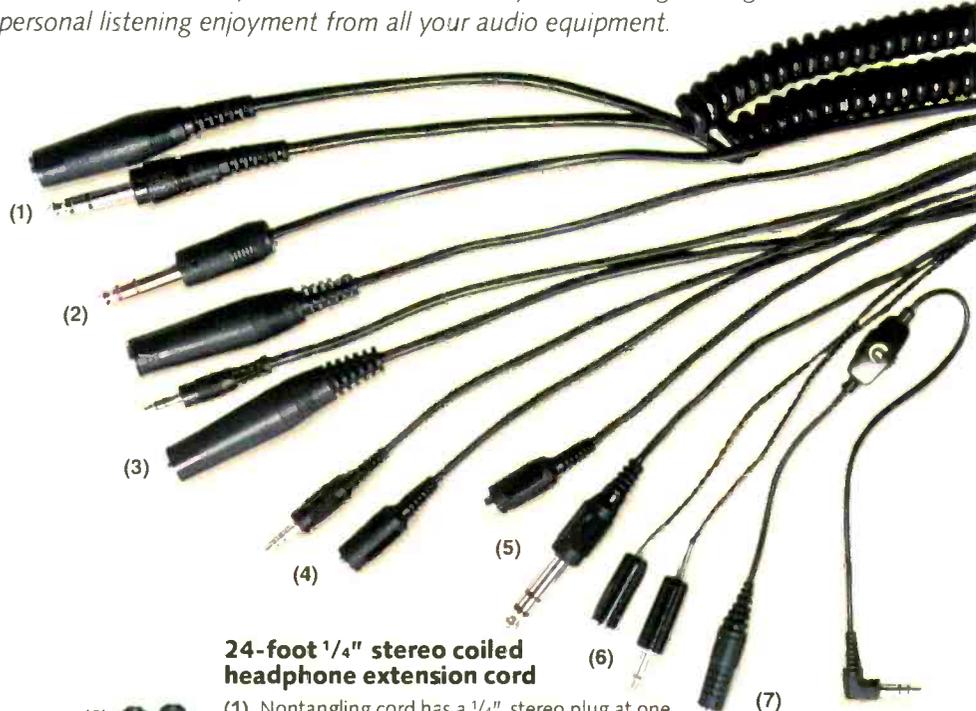


### Full-size 'phones with 1/8" plug

(3) Nova 44. Use with CD portables and personal stereos, or add plug adapter #274-367 (page 73) or extension cord #42-2460 (right) and use with stereo equipment that has a 1/4" headphone jack. Earcups swivel on balljoints for perfect ear contact. Response, 20-20,000 Hz. 7 1/2-foot cord. 33-1120 ..... 24.99

### Headphones with balance controls

(4) Nova 28. Low-priced 'phones feature covered, foam-filled cushions that surround the ear for improved bass and isolation from external sounds. Controls on both earcups let you adjust balance to your taste. Response, 20-20,000 Hz. 9-foot cord, 1/4" plug. 33-1029 ... 19.99



### 24-foot 1/4" stereo coiled headphone extension cord

(1) Nontangling cord has a 1/4" stereo plug at one end and a 1/4" stereo jack at the other end. 42-2443 ..... 8.39

### 20-foot 1/4" stereo headphone extension cord

(2) Extends the cord of full-size 'phones—just the thing for on-stage monitoring and studio recording. Noncoiled cord has a 1/4" stereo plug at one end and a 1/4" stereo jack at the other end. 42-2442 ..... 5.79

### 20-foot 1/4" -to-1/8" stereo headphone extension cord

(3) Connects full-size stereo 'phones to a portable CD player, personal stereo cassette player or personal receiver. Cord has 1/8" stereo plug at one end and 1/4" stereo jack at the other end. 42-2464 ..... 5.99

### 20-foot 1/8" stereo headphone extension cord

(4) Plugs into boombox, personal stereo or CD portable to extend the cord of lightweight headphones. Flexible, extra-durable cord has 1/8" stereo plug at one end and 1/8" stereo jack at the other end. 42-2462 ..... 6.39

### 20-foot 1/8" -to-1/4" stereo headphone extension cord

(5) Connects lightweight stereo 'phones to home stereo components or PA/recording equipment having a 1/4" stereo headphone jack. Has 1/4" stereo plug at one end and 1/8" stereo jack at the other end. 42-2460 ..... 5.99

### 20-foot 1/8" monaural earphone extension cord

(6) Enjoy TV or radio sound without disturbing others. Cord has 1/8" monaural plug at one end and 1/8" monaural jack at the other end. 33-176 ..... 2.69

### Add-on volume control for lightweight stereo 'phones

(7) One-foot cord has an inline attenuating volume control, 1/8" stereo plug at one end and 1/8" stereo jack at the other end. 42-2459, 4.99

### 1/8" stereo headphone Y-adapter

(8) Connects two lightweight 'phones to one stereo jack. Has 1/8" stereo plug, two 1/8" stereo jacks. 42-2463 ..... 4.99

### 1/4" stereo headphone Y-adapter

(9) Connects two sets of full-size 'phones to one stereo jack. Has 1/4" stereo plug, two 1/4" stereo jacks. 42-2448 ..... 5.39



# Personal Listening At Its Best

Nobody compares to Radio Shack when it comes to choices in personal listening.



**Our finest: digital stereo 'phones with titanium layered diaphragms**

PRO-25. Superb choice for CD listening. Titanium-layered diaphragms, oxygen-free coils and neodymium magnets team up for sound so accurate you'd swear it's live. The 6-foot cord has an inline volume control and gold-plated 1/8" plug. Response, 15-20,000 Hz. 33-1022 ..... 39.99



**Lightweight stereo 'phones with gold-plated 1/8" plug and 1/4" adapter**

Nova-43. Enjoy excellent sound from your home stereo or personal portable. Flexible headband adjusts for hours of comfort. The 1/8" right-angle plug and 1/4" adapter are both gold-plated for positive contact and maximum signal transfer. 5 1/2-foot cord. Response, 20-20,000 Hz. 33-1125 .. 19.99

### Fold-up design

Nova-37. Side-firing in-ear drivers provide solid bass response. Headband folds up compactly for easy carrying in a gym bag, hip pack or purse. 45" cord with 1/8" plug. 33-2003 ..... 15.99



### Stereo/mono

Nova-42. The stereo/mono switch and a 16-foot cord make these ideal for private listening to home audio or a portable TV. Gold-plated 1/8" plug. 33-1115 ..... 12.99



### Extra "comfy"

Nova-41. A flexible, adjustable covered headband and large, foam earcushions provide maximum comfort. Has 4-foot cord with a 1/8" right-angle plug. 33-1112 ..... 9.99



### Ultralight

Nova-39. So feathery light you might forget you're wearing them! Headband adjusts for best fit. Hear-through foam earcushions. Has 3 1/2-ft. cord with a 1/8" right-angle plug. 33-1110 ..... 7.99



### Budget priced

Nova-35. Even at this low price you get wide-range response for excellent sound. Gold-plated 1/8" plug, too! Adjustable headband, 4-ft. cord. 33-1100 ..... 5.99



### In-ear stereo 'phones and monaural earphones

(1) Our best in-ear 'phones. Deep bass and ultra-wide 16-22,000 Hz frequency response make these ideal for CD listening. The 40" cord has an inline volume control and gold-plated 1/8" plug. With case. 33-991 ..... 29.99

(2) Ultralight in-ear 'phones. Just 0.42 ounce! Easy to carry—phones and cord wind up inside protective carrying case. Response, 120-20,000 Hz. The 43" cord has a 1/8" plug. 33-980 ..... 13.99

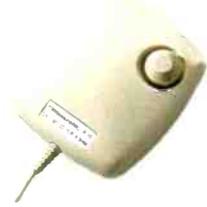
(3) Budget in-ear 'phones. Comfortable "ear buds" weigh just 0.5 ounce. Response, 120-20,000 Hz. The 46" cord has a 1/8" plug. Include case with wind-up cord storage. 33-970 ..... 8.99

(4) Deluxe monaural earphone with 25-ft. cord. Flexible earclip, 1/8" plug. 33-178 ..... 5.99  
With 10-ft. cord. 33-177 ..... 3.99

(5) Monaural earphone with 1/8" plug. Earclip, 3 1/4-ft. cord. 33-175 ..... 1.79  
With 3/32" submini plug. 33-174 ..... 1.79



### Our deluxe pillow speaker

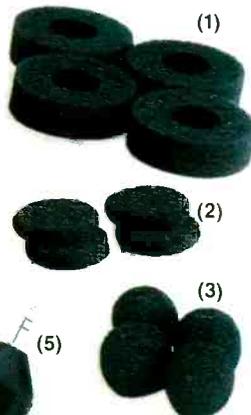


Slip under a pillow and listen to TV, radio or books on cassette without disturbing others. Rotary volume control, 6-foot cord with monaural 1/8" plug. (For use with stereo equipment, add our #274-374 or #274-363 plug adapter. Sound will be monaural.) 33-208 ..... 4.99

### Standard pillow speaker



Has 4-ft. cord with monaural 1/8" plug. (Add plug adapter for use with stereo equipment. Sound will be monaural.) 33-206, 3.59



### Foam earpad replacement sets

- (1) Fit most lightweight stereo headphones. 33-374 ... Set of 4/2.79
- (2) For Nova-35/42 headphones, many others. 33-377 ... Set of 4/2.79
- (3) For Nova-34/36, others. 33-375 ... Pair 99c
- (3) Micro in-ear pads. 33-376 ... Set of 4/.99c



### Stereo headphone plug adapters

- (1) Accepts 1/8" stereo plug, plugs into 1/8" stereo jack. 274-368 ..... 1.19
- (2) Accepts 1/8" stereo plug, plugs into 3/32" stereo jack. 274-373 ..... 3.79
- (3) Accepts 1/8" stereo plug, plugs into 1/4" stereo jack. 274-367 ..... 1.79
- (4) Accepts 1/4" stereo plug, plugs into 1/8" stereo jack. 274-366 ..... 1.79
- (5) Accepts two 1/8" stereo plugs, plugs into 1/8" stereo jack. 274-313 ..... 3.39



**100 watts-per-channel stereo PA amp**

**MPA-200.** Just what you need to reach every audience or congregation member. Features rotary knobs for precise control of each channel and lighted VU meters with clipping LED and range control. Has 1/4" phone jacks for adding left and right-channel mikes or a stereo mixer, plus phono jacks for stereo line-level source. 1/4" stereo headphones jack. Nylon binding posts for two pairs of speakers accept banana plugs for quick connect/disconnect. A/B speaker selector. (TSP) **32-3003** . . . . . **369.99**

Frequency Response: 10-50,000 Hz ± 3 dB Power: 100 watts per channel rms at 8 ohms with no more than 0.5% total harmonic distortion. Power Requirement: 120VAC, 60 Hz, 200W. Size: 5 7/8" x 19" x 14 1/2"

# The Address for Public Address

Your nearby Radio Shack has everything you need for reliable sound reinforcement: amplifiers, mixers, speakers and mikes, plus the cables and connectors you need to bring it all together. Come in and let our knowledgeable sales staff help you design a system to address your purposes and audience.

**Sound tips for selecting a public address system**

Each PA sound system installation is unique. The best installation for your purposes can only be found through trial and error. However, the following steps will help you get started.

**Speaker Locations.** Speakers usually should be placed at the front of the room facing the audience. Longer, narrower rooms will need more speakers, placed along the side walls and angled towards the back/center of the audience. Keep all speakers facing the same end of the room and never facing the microphones. Use 70-volt line transformers with systems having over 200 feet of speaker cable.

**Power Requirements.** Determine the length-to-width ratio of your room and refer to the table below for the amplifier power and number/size of speakers you'll need. "Small" rooms include most home areas plus conference/class rooms accommodating up to 100 people. "Medium" rooms include meeting/lecture halls and churches accommodating up to 300 people. "Large" rooms include assembly halls, auditoriums, clubs and churches accommodating over 300 people. "Room A" refers to rooms with a length-to-width ratio of 1.5 to 1. "Room B" ratio is between 1.5 and 3 to 1.

Approximate Room Size	Amplifier Power	Room A Speakers	Room B Speakers
Small	20 watt	2-8"	4-8"
Medium	35 watt	2-12"	4-12"
Large	100 watt	4-12"	6-12"

Ceiling height, room acoustics (affected by such factors as wall/floor coverings and draperies) and ambient noise levels play a part when determining the amount of power needed. If you are unsure, buy the next higher-power amplifier. You can never have "too much" power.

**Microphones.** Use omnidirectional mikes for small conferences and cardioid mikes if room echoes or noises are a problem.

**Amplifier.** Select an amp with ample power to drive the speakers you have selected (from table). Be sure the amplifier has the correct type of mike inputs (low or high impedance) plus inputs for any accessories you want to add (mixer, CD player).



**100-watt public address amplifier with microphone mixer**

**MPA-101.** Power and performance for auditoriums, churches and clubs. Has both high and low-impedance inputs for up to four mikes plus an aux input for mixer or tape deck. Feedback filter. Rotary knobs allow precise control of each channel. Lighted

power meter and LED clipping indicator. Overload protected. (TSP) **32-2039** . . . . . **249.99**  
 Frequency Response: 28-35,000 Hz ± 3 dB Power: 100 watts rms at 4 ohms. Outputs: Mix bus, EQ in/out, push-terminals, 70V line and phono-type jacks for 4 to 16-ohm speakers, 1/4" headphone jack Power Requirement: 120VAC, 60 Hz, 200W. Size: 4 x 19 1/2" x 10 1/2"



**35-watt public address amplifier with 3-band frequency equalizer**

**MPA-45.** Ideal for music and voice. The built-in 3-band EQ lets you tailor sound to room acoustics, and priority terminals permit Channel-1 override of other channels. Built-in mixer, pre-amp for magnetic cartridge turntable. Rotary knobs control inputs for two

mikes and phono/aux. 70V line output, master volume with "memory ring". (TSP) **32-2035** . . . **99.99**  
 Frequency Response: 70-20,000 Hz ± 3 dB Power: 35 watts rms at 8 ohms. Outputs: 4, 8, 16 ohms, 70V line, terminals for adding optional SPST switch for remote priority switching. Power Requirement: 120VAC, 60 Hz, 200W. Size: 3 1/2" x 11 1/4" x 7 1/2"



**20-watt dual-power amplifier operates on AC or vehicle DC**

**MPA-30.** Has inputs for two high or low-impedance mikes plus high-level input with channel fader controls for turntable or other aux component. Two front-panel mike inputs, rotary master volume/tone controls. 70V line output. Included 12VDC cord

plugs into cigarette lighter socket. With AC cord and mobile mounting bracket. (TSP) **32-2034** . . . **79.99**  
 Frequency Response: 150-20,000 Hz ± 3 dB Power: 20 watts rms at 8 ohms. Outputs: 4, 8, 16 ohms, 70V line. Power Requirement: 120VAC, 60 Hz, 40W or 12VDC neg ground. Size: 3 1/2" x 11 1/2" x 9"

Rack-mount public address components fit standard 19" equipment racks. All AC-powered PA equipment is UL listed.



## Six-channel mixer with equalizer and echo

**SSM-2200.** Our best controls up to four line-level sources plus two mikes. Has Glide-Path® faders and LED output-level meter for each line-level channel, cross faders for ch. 1-2 and 3-4, individual mike faders, and master volume controls. Add echo with variable delay and repeat, and boost/cut response up to 12dB in seven bands with the EQ. Two 1/4" phone jacks, two XLR jacks, 1/4" headphone jack with monitor and volume control. (TSP) 32-3002 ..... 269.99

## Five-channel mixer with EQ and echo

**SSM-1000.** Mix up to two turntables and two line-level sources, plus a mike for DJ, vocalist or narrator. You get Glide-Path channel faders and master volume, cross faders for ch. 1-2, echo with variable delay and repeat, and a graphic equalizer to boost/cut response up to 12 dB in seven bands. EQ/bypass button, lighted VU (output-level) meters, 1/4" headphone jack with monitor and volume control. (TSP) 32-3001 ..... 199.99

# We've Got the Right Mix in PA

*Discover the benefits a stereo mixer can bring to your public address set-up and recordings.*

*A stereo mixer balances the volume level of several audio sources at once and sends the resulting "mix" to an amplifier for live sound, or to a tape deck, camcorder or VCR for recording.*

*A mixer is perfect for combining live music with recorded accompaniments, and indispensable for DJ use. It's recommended when panelists use multiple microphones. A mixer helps balance sound when amplifying and recording music groups. It adds inputs to your stereo receiver and can even help you add music or narration to home videos.*



## NEW Six-channel microphone mixer

**MX-1000.** Excellent choice for use when amplifying or recording music groups and board or council meetings. Controls volume/balance of up to six microphones at once plus a line-level source (for example, a cassette deck providing prerecorded accompaniment for a choral group). Has both 1/4" jacks for high-impedance mikes and XLR jacks for low-impedance types. Line-out jacks for recording. Has rotary channel controls and master volume control, feedback filter to cut "howls" and a lighted VU meter. Rack mountable. (TSP) 32-3004 ..... 169.99



## NEW Six-channel mixer with EQ

**SSM-100.** Ideal for DJs. Six channels include mike 1, mike 2, mike 3/phono, mike 4/CD-1, CD-2 and CD-3. Each has Glide-Path level control. You get individual cueing for ch. 3-6, cross fader for ch. 1-2 and 3-4, rotary bass and treble controls and master volume control. The 5-band equalizer features an EQ/bypass switch for sound comparisons. Left/right VU meter. Four 1/4" mike jacks, 1/8" headphone jack with volume control. (TSP) 32-1212 ..... 169.99



## NEW Four-channel stereo mixer

Control up to four line-level sources or three mikes plus a line-level source. Slide-action channel controls and cross fader, rotary bass and treble, headphone monitor and VU meter. Record in/out jacks, 1/4" mike jacks. UL listed AC adapter. (TSP) 32-1214, 139.99



## NEW Budget 4-channel mixer

Has 1/4" mike jack and inputs for four line-level sources. Slide-action channel controls, selectable headphone monitor switch. Left/right VU meter. Record in/out jacks. UL listed AC adapter. (TSP) 32-1213 ..... 99.99



## Five-channel AC/DC mixer

Mixes up to two mikes and three line-level sources, operates on AC or batteries. Glide-Path controls, cue monitor, dual VU meters. Requires 4 "AA" batteries or AC adapter. (TSP) 32-1101 ..... 79.99 AC Adapter. UL listed. 273-1454 ..... 7.99



### 170-MHz professional wireless FM handheld microphone system

The right choice for singers and emcees—move around freely with no trailing cord. Crystal-controlled 170-MHz operation delivers the clear sound quality and performance that professionals expect. Dynamic mike has on/off switch and requires 9V battery. Receiver has rotary volume control, mike and line-level outputs, and is UL listed for AC operation. (TSP) 32-1224, 139.99



### 170-MHz professional FM lapel mike system

Ideal for lecturers and announcers—the dynamic mike clips to lapel, collar or pocket with no cord to get in the way. Crystal-controlled 170-MHz operation ensures pro-quality sound. Mike has built-in windscreen, on/off switch and requires 9V battery. Receiver has rotary volume control plus mike and line-level outputs. UL listed AC (or DC adapter, extra). (TSP) 32-1229, 139.99



### Handsfree wireless mike system

Crystal clarity with up to 200-ft. range. Receiver has mike/line-level outputs. Mike has standby/talk switch and requires "AA" battery. UL listed AC (or DC adapter, extra). (TSP) 32-1221 ..... 59.99



### Camcorder wireless mike system

Record up to 200 ft. away. Receiver has high/low volume, monitor, earphone, camcorder mike cable, shoe mount. Transmitter has belt clip and tie-clip mike. Requires 2 9V batteries. (TSP) 32-1226, 69.99



### Heavy-duty PA racks

**NEW!** Desk/tabletop rack. This 17 1/2" - high rack provides 10 spaces up front for your gear and features heavy 16-gauge steel construction with a textured, powder-coat black finish. Has 5-space vented rear panel, front and rear threaded rails, removable side panels and rubber feet. 18" deep. Available on fast special order. (CMC). 32-1035 ..... 199.99



**NEW!** Sloped-top floor rack. Perfect for the studio and stage. Provides 16 spaces on the bottom for amps, EQs and processors, plus 12 on the slope for mixers or recorders. High-density 5/8" particle board with black laminate finish. Front and rear rails, preinstalled casters (two locking). 16" deep. (CMC). 32-1036, 249.99



### Sound effects generator/mixer is the perfect audio-for-video production accessory

Here's a 3-channel audio mixer that does more than just mix—it combines a mono-aural microphone channel with two stereo line-level sources plus 59 digitally sampled sounds and effects. Samples can be modified—to play faster, slower, higher, lower and more—and sequenced to play in any order. Easy to use, it includes a detailed listing of available effects. Ideal for live music, DJs, radio and video production. 1/8" headphone jack. UL listed AC operation. (TSP) 32-1116 ..... 129.99



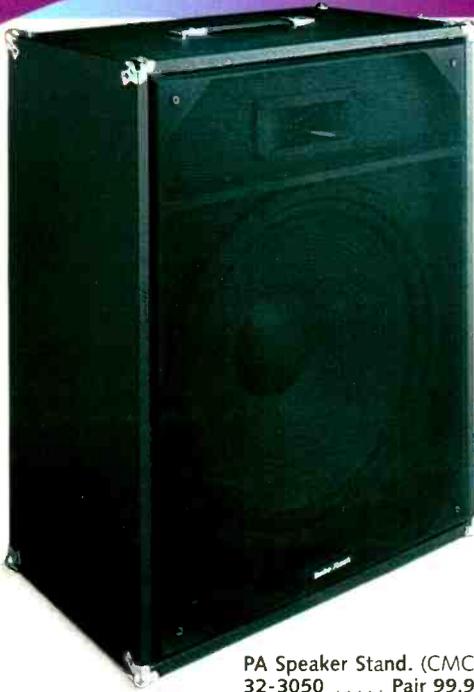
### Electronic reverb control

Add echo and reverb to recordings, "live" vocals or amplified musical instruments. Has jacks for line-in and line-out plus 1/4" input for mike or guitar. Requires 6 "AA" batteries. 32-1110 ..... 44.99



### Stereo mike/line mixer

Perfect for adding inputs to expand your PA system, and ideal for recordings—mixes up to four mikes or line inputs. Slide-action channel faders, stereo/mono switch. Requires 9V battery. 32-1105, 34.99



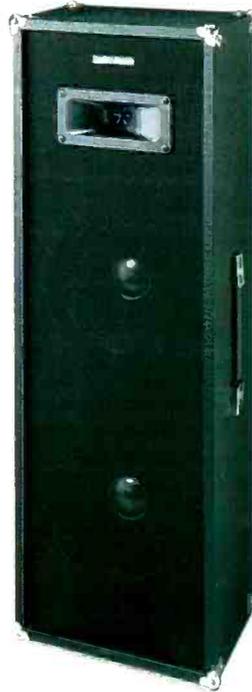
**Monitor speaker with 15" woofer and horn tweeter**

**PA-100.** Ideal both for auditoriums and outdoors, suitable for voice and music reproduction. The big 15" woofer and piezo horn tweeter team up to deliver powerful sound with deep bass and crisp, clear highs. Extended frequency response of 60-25,000 Hz. Handles 100 watts rms, 200 watts max. Impedance, 8 ohms. Sensitivity: Rated 92 dB (SPL at 1W/1M). Rugged vinyl-coated enclosure, protective metal corners and carry handle make it perfect for portable operations. Spring terminals and 1/4" jack make hookup easy. 23<sup>3/4</sup> x 18<sup>3/4</sup> x 11". **40-1412 .. 159.99**

**PA speaker stands. (CMC)**  
**32-3050 .....** **PAIR 99.99**



**PA Speaker Stand. (CMC)**  
**32-3050 .....** **Pair 99.99**



**Column speaker with dual woofers**

**PA-96.** Designed for uniform sound dispersion with excellent quality. Excellent for schools, conference rooms, demonstration areas and other locations that require controlled sound coverage. Dual 8" woofers and a piezo horn tweeter make it suitable for both voice and music. The 1/4" phone jack and two spring terminals make connection to almost any amplifier simple. Handles 80 watts rms, 160 watts max. Impedance, 8 ohms. Frequency response, 100-25,000 Hz. Rated 92 dB (SPL at 1W/1M). Vinyl-covered enclosure, metal corners, carry handle. 30 x 10 x 6<sup>7/8</sup>". **40-1413 .....** **119.99**



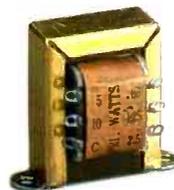
**Wall-mount baffle speaker**

Perfect for public address paging or background music in an office or retail space. Mounts easily on any wall, has a full-range 8" speaker and a convenient built-in volume control. Includes cable with phono jacks for easy connection to amplifier or receiver. Impedance, 8 ohms. Handsome walnut vinyl finish. 10<sup>1/4</sup> x 10<sup>1/4</sup> x 4<sup>3/4</sup>". **40-219 .....** **21.99**

**Full-range public address speakers**

Use with 8" and 4" ceiling grilles for professional looking installations in homes, schools, churches and public meeting halls. Impedance, 8 ohms.

- 8" 30 watts.**  
40-1286 .....
- 8" 10 watts.**  
40-1272 .....
- 4" 10 watts.**  
40-1197 .....
- 4" 2 watts.**  
40-1208 .....



**Round ceiling grilles**

Made of zinc-treated, 22-gauge cold-rolled steel with baked, powdered-epoxy finish to resist deterioration. With hardware.

- 8" grille.** 40-1223, 5.69
- 4" grille.** 40-1220, 4.59

**Line transformer**

Permits driving speakers at various power levels from a 70-volt line—does not affect other speakers in system. For 4, 8 or 16 ohms. **32-1031 .....** **5.99**



**Outdoor 360° speaker is ideal for deck, patio or poolside**

Omnidirectional design delivers rich sound in a full 360° pattern. The adjustable bracket allows mounting under eaves on soffit or wall. Moisture resistant. Handles 30 watts. Impedance, 8 ohms. With mounting bracket and hardware. **40-1352 .....** **49.99**



**Moisture-resistant all-weather speaker.** This 6" 2-way speaker stands up to humidity and water spray. Handles 20 watts. 8 ohms. With gasket and mounting screws. **40-1371 .....** **24.99**

**Indoor/outdoor 6 1/2" speaker.** Moisture resistant. Handles 15 watts. 8 ohms. 4<sup>1/2</sup> x 8<sup>1/4</sup> x 3<sup>7/8</sup>". **40-1248 .....** **23.99**  
**4" speaker.** 5 watts, 8 ohms. 4<sup>3/4</sup> x 5<sup>1/2</sup> x 3". **40-1227 .....** **13.99**

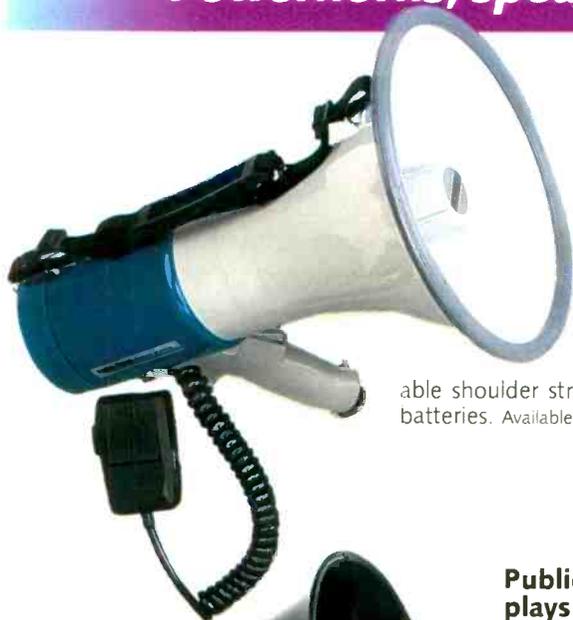


**8" Powerhorn®.** It's shockproof and water resistant. 15 watts, 8 ohms. **40-1239, 33.99**  
**5" 8 watts, 8 ohms.**  
**40-1236 .....** **21.99**

**In/outdoor 4" Powerhorn.** Rugged shockproof and water-resistant design. With mounting bracket. Output, 5 watts. Impedance, 8 ohms. **40-1235 .....** **14.99**



**Outdoor Super Powerhorn.** High-efficiency design delivers maximum voice and music output. Swivel base. Handles 40 watts. Impedance, 8 ohms. SPL: 110 dB. with mounting hardware. 11 x 6<sup>1/2</sup> x 8<sup>1/2</sup>". **40-1307 .....** **41.99**



**NEW** 10-watt public address Powerhorn® with siren

With this powerful megaphone you can be heard more than half a mile away. Just speak through the uni-directional dynamic microphone while pressing the talk button on the pistol grip. Or, strap it on your shoulder and use the separate press-to-talk button on the microphone itself. This portable sound system features a rotary volume control and adjustable shoulder strap with shoulder pad. Requires 8 "C" batteries. Available Oct. 1994. **32-2038 . . . . . 99.99**

**Public address musical Powerhorn plays 94 preprogrammed songs**

Take it anywhere! Play your favorite pep songs at ball games, make announcements and program your own tunes. This portable PA system is ideal for anywhere you want to be heard. It plays 94 built-in tunes—everything from major college fight songs to nostalgic old favorites, Christmas carols and children's songs. Plus, you can program up to five more tunes yourself using the keypad, or use it as an organ. Speak into the built-in microphone to be heard up to 300 feet away. With adjustable gain control, jack for external microphone, power-on indicator, shoulder strap for easy carrying and song list. Requires 8 "AA" batteries. **32-2037 . . . . . 39.99**

**NEW** 10-watt speaker/amplifier for guitar or keyboard

MPS-31. This full-featured speaker/amp packs plenty of power to share the music from your electric guitar or keyboard. You get a full-range 8" speaker plus rotary controls for volume, bass, treble and midrange—even a distortion control for that nasty rockin' sound. Also has a 1/4" headphone jack plus a 1/4" input jack for connecting an instrument or microphone. On/off switch with LED power meter. Rugged vinyl covering with protective metal corners stands up to the rigors of the road. Carry handle. Available Oct. 1994. **32-1152 . . . . . 129.99**

**Compact one-watt speaker/amp for PA or musical instrument**

Enjoy amplified sound wherever you need it. This compact combo is lightweight and easy to take almost anywhere. Plug in a microphone to use as a portable PA system for meetings, or use as a musical instrument amplifier. It's a great practice amp! Has variable tone and volume controls for customizing the sound to fit your needs, aux input and 1/8" mike jack. Measures only 5 x 4 x 2 3/4". Requires 4 "C" batteries. **32-2040 . . . . . 19.99**

AC adapter. UL listed. 273-1454 . . . . . 7.99

**Hear and Be Heard**

*. . . with a powerful megaphone, speaker/amp or wireless headphones.*



**Wireless headphone system**

Transmitter plugs into your radio or TV and sends infrared signal up to 20 feet. Includes LL listed AC adapter and 1/8" -to-1/4" adapter. Headphones require 2 "AAA" batteries. **32-2052 . . . . . 59.99**

**Analog-display sound meter**



Reads to 126 dB SPL with slow or fast response for checking peak and average noise levels. Seven ranges. Electret mike. Requires 9V battery. **32-2050 . . . . . 31.99**

**Digital-display sound meter**



Provides precise readings when setting up stereo or PA system. Reads 60 to 120 dB SPL, and has "A" or "C" weightings. Carry case. **32-2055 . . . 59.99**

**Electronic guitar tuner**



Quartz precision. Tune perfectly, even during sessions. Input for electric guitar or bass, mike for acoustic instruments. String selector. Requires 9V battery. **63-670 . . . . . 29.99**



- (1)
- (2)
- (3)
- (4)
- (5)
- (6)

**NEW Unidirectional dynamic mike**

(1) Ideal for on-stage vocal use. Rugged die-cast body has textured surface for surer grip. 100-14,000 Hz response. 600 ohms. On/off switch. 20-foot cable, 1/4" plug, stand adapter, case. 33-3005 ..... 29.99

**NEW Pro-unidirectional dynamic**

(2) True pro quality. High-output design delivers powerful sound, rejects feedback and distortion. 50-20,000 Hz response. 15-foot cable, 1/4" plug. (TSP) 33-3010 ..... 89.99

**NEW Uni-dynamic with gooseneck**

(3) The 12 1/2" flexible gooseneck easily adjusts to different heights. Has XLR plug for use in balanced-mike hookups. 100-10,000 Hz response. Stand adapter. 33-3011 ..... 34.99

**Mikes for portable recorders**

(4) Omni electret. 20-13,000 Hz. With 6 1/2-ft. cord, stand, battery. 33-1060 ..... 23.99

(5) Omni dynamic. 100-11,000 Hz. 6 1/2-ft. cord. Low impedance. 33-2001 ..... 11.99

(6) Budget dynamic. 33-1067 ..... 5.99

**PZM™-type mike**

Responds to sound pressure. Cuts echo, increases clarity and range. 20-18,000 Hz. 600 ohms. 18-ft. cord, 1/4" plug. Requires "AA" battery. PZM™ Crown International. (TSP) 33-1090 ..... 59.99



**Echo mike for Karaoke**

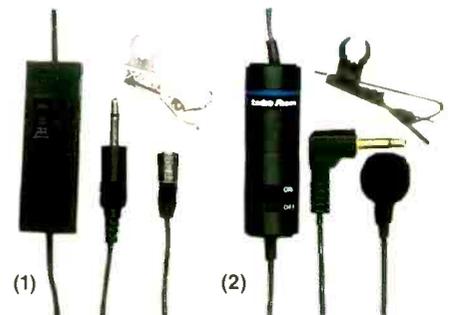
Adjustable echo effect adds an extra dimension to your performances. Omnidirectional pickup pattern—ideal for group sing-alongs. 15-ft. cord. Requires "AA" battery. (TSP) 33-3006 ..... 49.99



**OMNIDIRECTIONAL.** This wide pickup pattern provides equal sensitivity to sound in all directions. Excellent for meetings.

**UNIDIRECTIONAL or CARDIOID.** Single-direction pickup pattern reduces feedback and background noise. Ideal for stage use.

**XLR.** Shielded 3-wire connector/cable found on low-impedance mikes; reduces noise on cable runs 45 ft. or more. See XLR adapters on next page, cables on page 72.



**Hands-free electret microphones**

(1) Tie-clip omnidirectional. 50-15,000 Hz response. 1000 ohms. With 3-ft. cord, 1/8" plug, battery. 33-1052 ..... 24.99

(2) Tie-pin omnidirectional. On/off switch. 70-16,000 Hz response. 1000 ohms. 16 1/2-ft. cord with 1/8" plug. Includes clothing clip, battery, windscreen. 33-3003 ..... 34.99

**For voice and music, we have a professional-quality low-impedance microphone that fits your needs.**

(1) Unidirectional condenser. The extended 40-18,000 Hz flat response keeps instruments and samples accurate. With 15-ft. cable and 1/4" plug. (TSP) 33-3007 ..... 99.99

(2) Pro-unidirectional dynamic. Superb mike for vocalists and announcers. Has on/off control switch. 80-15,000 Hz response. 16-ft. cable, 1/4" plug. (TSP) 33-3001 ..... 69.99

(3) Pro-unidirectional highball. Reduces background noise. On/off switch. XLR adaptable. 80-15,000 Hz. 16-ft. cable, 1/4"-plug, case, adapter. (TSP) 33-984 ..... 59.99

(4) Super-omnidirectional. Great utility mike delivers 40-17,000 Hz. Rubber shock ring. XLR adaptable. 16-ft. cable and 1/4" plug. With case and stand adapter. 33-1070 ..... 49.99

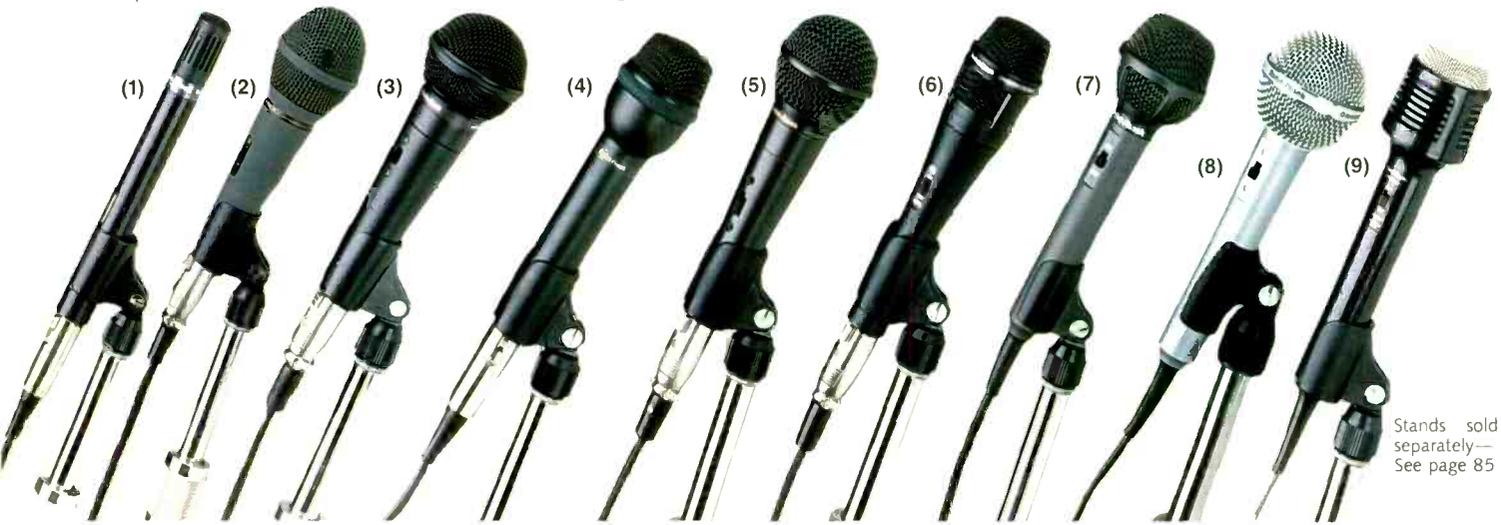
(5) Unidirectional dynamic. Especially suited for vocal use. Die-cast zinc body. 100-10,000 Hz response. On/off switch. With 20-ft. cable. 1/4" plug. 33-3004 ..... 49.99

(6) Unidirectional dynamic. Ideal for stage use—cardioid pattern reduces background noise. 100-14,000 Hz response. 16-ft. cable, 1/4" plug. On/off switch. 33-3002 ... 39.99

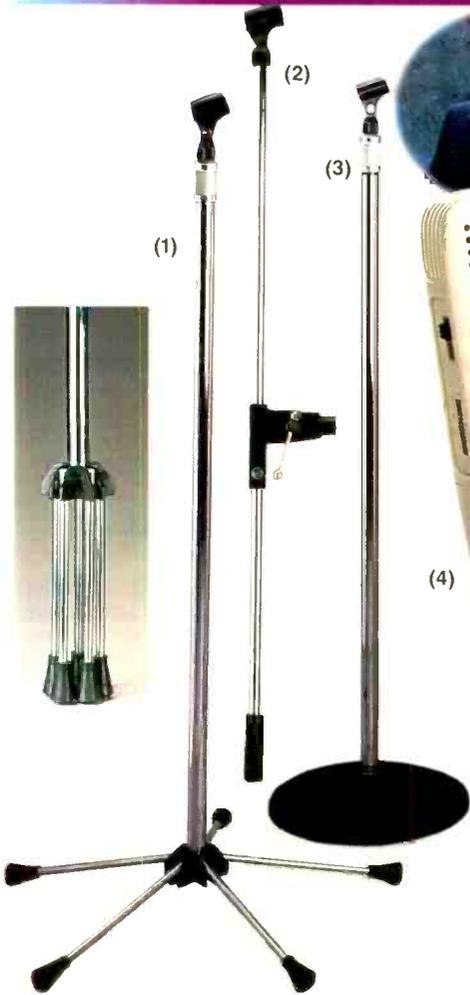
(7) Unidirectional dynamic. Tough die-cast zinc body. Wire-mesh wind screen. 50-15,000 Hz response. On/off switch. 5-ft. cable, 1/4" plug and stand adapter. 33-1073 ..... 34.99

(8) Omnidirectional Highball-2. Built-in filter eliminates breath "pops". Has 50-13,000 Hz response. 600 ohms. Remote on/off switch. 6-ft. cable, 1/4" plug. 33-985 ..... 24.99

(9) Unidirectional Highball-7. Ideal for use with PA systems. Built-in filter. 80-15,000 Hz response. 600 ohms. On/off switch. 10-ft. cable, 1/4" plug, stand adapter. 33-986, 17.99



Stands sold separately—See page 85



**Mike stands for speakers, vocalists**

(1) **Folding mike stand.** Portable stand adjusts from 32-57". Fan-fold legs fold up for quick transport or storage in a closet or car trunk. Non-slip rubber feet. Standard 5/8" thread to fit mike stand adapters. 33-325 ..... 27.99

(2) **31" boom adapter.** Ideal for professional singers and instrumentalists. Attaches to mike stand to position mike where you need it. Adjustable length and angle, built-in counterweight. Standard 5/8" thread. 33-344, 15.99

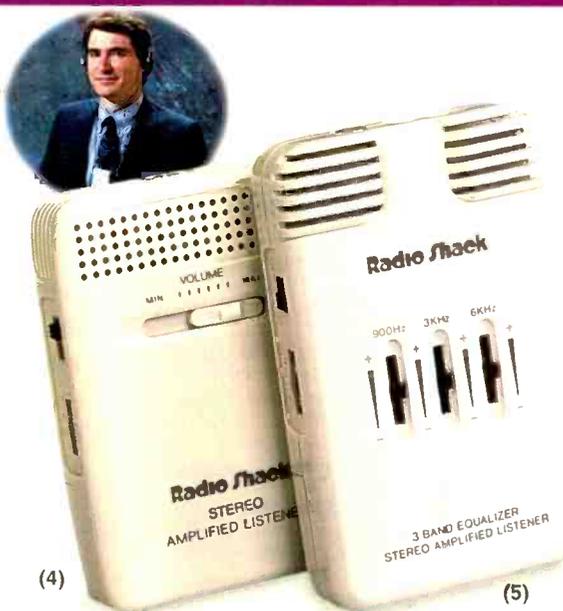
(3) **Heavy-duty mike stand.** Perfect for the stage or studio. Cast-iron base provides stability. Chromium-plated tube adjusts from 34" to 64" high. Standard 5/8" thread for mike stand adapters. 33-320 ..... 24.99



**1/4" XLR mike adapters**

(1) **A3F 1/4" XLR adapter.** Balanced mike/line to high-impedance input used in professional-type sound systems. 274-016 ..... 13.99

(2) **A3M 1/4" XLR adapter.** Connects high-impedance mike to balanced line or system for high-quality sound. 274-017 ..... 13.99



**Hear sounds like never before! Stereo amplified listener**

(4) Two built-in mikes and dual-channel amplification maintain a natural sense of sound direction. High-boost control adds crispness and clarity, and the volume control adjusts sound to a comfortable listening level. Neck cord. Requires 2 "AAA" batteries and headphones with 1/8" plug. 33-1093 .... 21.99

**Stereo listener with built-in 3-band equalizer**

(5) Hear surrounding sounds in stereo. A built-in 3-band EQ lets you customize sound for various listening conditions or to your liking. Dual mikes deliver natural stereo image. Separate volume and balance controls. Includes cord. Requires 2 "AAA" batteries and headphones with 1/8" plug. 33-1094, 31.99

**Make it Loud and Clear**

Whether you're recording or amplifying a single voice or instrument, or an entire group, you'll find a microphone suited to the task at Radio Shack. We can provide the adapters, stands, cable and connectors you need, too.

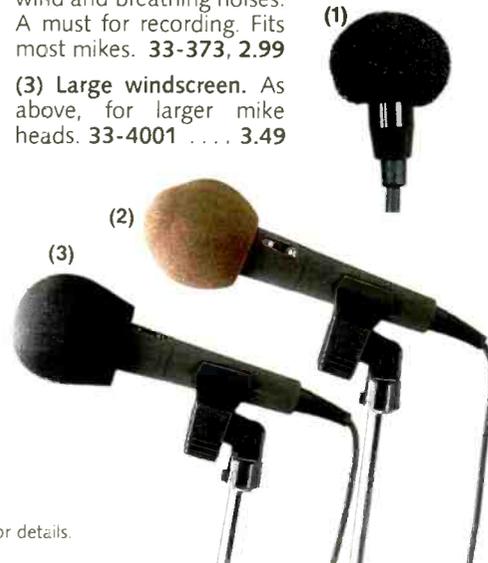


**Useful mike accessories**

- (1) 15-foot mike cable. 33-4002 ..... 19.99
- (2) 13" gooseneck. Flexible. 33-330 .. 5.99
- (3) 5/8" screw flange. 33-332 ..... 2.99
- (4) Desk mike stand. 33-370 ..... 6.99
- (5) Clamp-on adapter. 33-372 ..... 4.99
- (6) Heavy-duty adapter. 33-4005 ..... 4.99
- (7) Slip-in adapter. 33-371 ..... 2.99

**Microphone windscreens**

- (1) Windscreen for tie-clip mike. Helps reduce breath noises and noises from clothing. 33-4006 ..... 1.99
- (2) Foam windscreen. Fits over mike head to help cut wind and breathing noises. A must for recording. Fits most mikes. 33-373, 2.99
- (3) Large windscreen. As above, for larger mike heads. 33-4001 .... 3.49

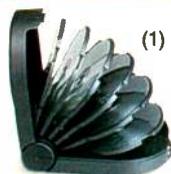


**Small wireless microphone transmits to any FM radio**



A complete FM broadcasting station that fits in the palm of your hand! Dozens of applications—use it for remote tape recording, public address systems (especially if the speaker is moving about), monitoring a child's room and more. Transmits to any FM radio or receiver, tunable to 88-108 MHz. Has up to a 200-foot range when used outdoors, 100 feet indoors. On/off switch. Features a spring clip on the back so it can be attached to tie, lapel or other clothing. Requires #23-150 battery. 33-1076 .... 19.99

Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.



(1)

**12-disc CD wallet**

(1) Unique grips hold individual discs securely while tough injection-molded case protects against damage. Flip pockets to find CDs fast. 42-224 ..... 12.99



(2)

**25-CD storage**

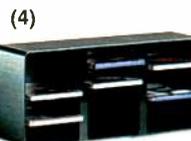
(2) Holds discs vertically, provides easy access to CDs in their jewel boxes. Helps quickly find the one you're looking for. 42-215 ..... 5.99



(3)

**10-CD cube**

(3) Get your collection organized. Holds 10 discs in their jewel boxes. Titles are easy to read—discs simply slide in and out. 42-214 ..... 5.99



(4)

**42-CD storage rack**

(4) Sturdy, attractive contemporary case stores double-disc sets, too. Horizontal design makes CD titles easy to read. 42-223 ..... 9.99



(5)

**12-CD wallet**

(5) An easy way to take discs with you. CDs stay secure inside protective sleeves. Durable nylon. 42-205 ..... 9.99



(6)

**Stylish CD tote bag**

(6) Carry your portable CD player securely in this rugged bag. Also holds 12 CDs in their jewel boxes. Storage pocket. 42-221 ..... 19.99



(7)

**CD carry bag**

(7) Take the music with you. Holds your portable CD player plus five CDs in their jewel boxes. 42-206 ..... 12.99



(8)

**Nylon CD carry bag**

(8) Safely holds up to 24 CDs in their jewel boxes for easy carrying. 42-222 ..... 16.99



(9)

**CD jewel boxes**

(9) Keep your CDs clean and secure by replacing lost or broken jewel boxes. 42-122 ..... Pkg. of 2/2.99



(10)

**Scratch 'n Fix**

(10) In just a few moments it fills light scratches on CDs so player can read discs and stop "skipping". 42-127 ..... 9.99



(11)

**Deluxe CD cleaner**

(11) Rotating radial system removes dust, cigarette smoke and fingerprints. With fluid. 42-226 ..... 9.99



(12)

**CD cleaner fluid**

(12) One fluid oz. replacement bottle. 42-126, 2.59



(13)

**CD lens cleaner**

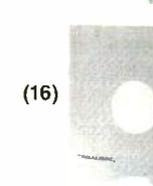
(13) Safely removes dust and dirt. Easy to follow instructions recorded on CD. 42-227 ..... 9.99



(14)

**CD cleaning kit**

(14) Quick, easy way to keep CDs sounding great. With base, cleaning pad and fluid. 42-225 ..... 4.99



(15)

**Disc Stick®**

(15) The CD cleaning system you can take anywhere. 42-141 ..... 4.99



(16)

**Laser disc/LP sleeves**

(16) For 12" laser video discs and LPs. 42-132 .. Pkg. of 10/2.99



(17)

**LP accessories**

(17) **NEW!** Record cleaner spray. Removes dust and dirt, prolongs life of stylus and records with regular use. 42-2503 ..... 2.99



(18)

(18) Record cleaning fluid. 4 oz. bottle. 42-119, 1.99



(19)

(19) 45-RPM adapter. Play 45s on LP phono spindles. 42-120 ..... €9¢



(20)

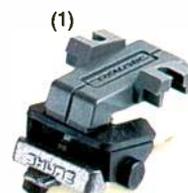
(20) Pro record cleaner. Velvet-surface brush, 2 oz. fluid. 42-117 ..... 7.99

**Cartridge and stylus special-order service**

Our special order service can deliver most replacement styli and cartridges to your nearby Radic Shack fast! Hundreds of types available. If the type you need isn't on this page, we'll order it for you. Bring in your cartridge or stylus if you're not sure what you need.

# CD and LP Collection Protection

Whether your favorite discs are digital (compact discs) or analog (LPs), you'll want to keep your recordings and equipment performing at their best. We have everything you need to clean, store and accessorize your music collection.

**Magnetic phono cartridges**

(1)

(1) V15 type RS. Our finest cartridge. Wide 5-30,000 Hz audio response. 30 dB channel separation. 42-2800 .. 49.99



(2)

(2) R25XT. 20-20,000 Hz response. 2.5-3.5 gram tracking. 42-2777 ..... 19.99



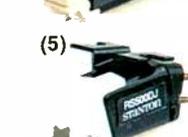
(3)

(3) R47XT. 20-20,000 Hz response. 1.75-2.25 gram tracking. 42-2778 ..... 26.99



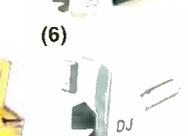
(4)

(4) RXP3. P-mount design. 1.25 gram tracking. 42-2790 ..... 29.99



(5)

(5) Realistic/Stanton RS500DJ cartridge. For broadcast and DJ use. 42-2794 ..... 29.99



(6)

(6) R500DJ stylus. 42-2793 ..... 19.99



(7)

(7) Realistic/Audio Technica RX 1500 cartridge. Diamond elliptical. 1-1.5 g. 42-2775 ..... 34.99



(8)

(8) R3X diamond replacement stylus. For R25, M71, M75ECS series. 42-2780 ..... 14.99



(9)

(9) R5X diamond replacement stylus. For R47, M70, M75 series. 42-2781 ..... 17.99



(10)

(10) RS3P diamond replacement stylus. For RXP3, M92E, M104E. 42-2791 ..... 19.99



(11)

(11) RS-166 diamond replacement stylus. For BSR cart. or stylus no. SC7H, SC8M, ST-16, ST-17, ST-21. 42-2892 ..... 3.99



(12)

(12) RS-98 diamond replacement stylus. Tetrads cart./stylus 51-54D, 61-64D, A1-A3, B-1, B-4, T5HD, 20HD. 42-2802 ..... 3.99



(13)

(13) RS-127 diamond replacement stylus. For Tetrads cart./stylus 40-44D, 20-24D, C-01/2/3, T3, 30MD. 42-2841 ..... 3.99



## Use this handy reference to select the right tape for quality recordings

First, find the category at left that most closely describes the type of music to be recorded. Then select a tape based on the type of equipment you will use for recording.

Type of Music	Portable Stereos	Home Stereo Systems	High-End Systems
Vintage Rock, Comedy, Speech	LN	LN, XR	HD
Pop Vocal, Soft Rock, Country, Gospel	XR	HD	MII, MIV
Rock, Classic Rock, Metal, Rap, Dance	XR	XR, HD	MII, MIV
Alternative/Modern Rock, Reggae, Jazz, Swing, Latin, R&B	XR	HD, MII	HD, MII, MIV
Symphonic, Chamber, Piano, Choral, Opera	HD	HD, MII	HD, MII, MIV

### (1) Our finest! Digital-ready metal type IV—great for recording CDs

Designed for recording on metal-capable decks and playable on all cassette equipment. Provides greater high-frequency headroom, so it's excellent for personal taping from compact discs. Precision 5-screw housing reduces wow and flutter. Nonabrasive cleaning leader assures optimum performance on every playback. Protective hinged storage box, index card.

Type	Total Recording Time	Cat. No.	Each			
			1-2	3-11	12-49	50-499
MIV-60 2-Pak	120 Minutes	44-962	7.99	7.19	6.39	5.59
MIV-90 2-Pak	180 Minutes	44-963	8.99	8.09	7.19	6.29
MIV-110 2-Pak	220 Minutes	44-964	9.99	8.99	7.99	6.99

### (2) Premium MII metal type II for hi-bias recording decks

A superb metal tape for recording on decks with Chrome/Hi-bias (70  $\mu$ S) switch position. Plays on all cassette equipment. Exceptionally wide dynamic range and low noise. Nonabrasive cleaning leader, 5-screw housing, hinged storage box, index card.

Type	Total Recording Time	Cat. No.	Each			
			1-2	3-11	12-49	50-499
MII-60 2-Pak	120 Minutes	44-954	6.99	6.29	5.59	4.89
MII-90 2-Pak	180 Minutes	44-955	7.49	6.74	5.99	5.24
MII-100 2-Pak	200 Minutes	44-956	7.99	7.19	6.39	5.59

### (3) Digital-ready HD chrome-equivalent type II—a superb value

For recording on decks with Chrome/Hi-bias switch position. Plays on all cassette equipment. Captures loudest and softest passages while reducing noise. Precision 5-screw housing. Nonabrasive cleaning leader. Hinged storage box with index card.

Type	Total Recording Time	Cat. No.	Each			
			1-2	3-11	12-49	50-499
HD-60 3-Pak	3 Hours	44-946	6.49	5.84	5.19	4.54
HD-90 3-Pak	4½ Hours	44-947	7.99	7.19	6.39	5.59
HD-90 5-Pak	7½ Hours	44-998	12.99	11.69	10.39	9.09
HD-100 3-Pak	300 Minutes	44-948	9.99	8.99	7.99	6.99

### (4) Premium XR extended-range ferric type I—always a popular choice

Audiophile quality at a bargain price! For playback on all cassette equipment. Delivers optimum performance at normal bias for greater detail. Precision 5-screw housing. Nonabrasive cleaning leader. Hinged storage box with index card.

Type	Total Recording Time	Cat. No.	Each			
			1-2	3-11	12-49	50-499
XR-60 3-Pak	3 Hours	44-984	3.99	3.59	3.19	2.79
XR-90 3-Pak	4½ Hours	44-985	5.29	4.76	4.23	3.70
XR-120 3-Pak	360 Minutes	44-986	9.59	8.63	7.67	6.71

### LN low-noise ferric type I cassettes

These low-noise tapes are ideal for recording speech and radio broadcasts. Plays on all cassette equipment. Precision housing cuts wow and flutter.

Type	Total Recording Time	Cat. No.	2-Pack
LN-30	60 Minutes	44-905	1.69
LN-60	120 Minutes	44-906	1.99
LN-90	3 Hours	44-907	2.39
LN-120	4 Hours	44-908	3.49

### Empty tape reels

Ideal for replacing damaged and warped take-up reels on open-reel recorders. Plastic. Each includes storage box with a convenient index and timing chart.

5" reel. 44-278 ..... 1.69  
7" reel. 44-279 ..... 1.89

# Hear What You've Been Missing

Over the years, we've sold millions of our popular SUPERTAPE® cassettes. Compare the true-to-life sound of SUPERTAPE and our low prices to others, then stock up for your recording needs.



### The best way to carry a tune

Each sturdy injection-molded case features a tough, textured, scratch-resistant finish. Hinges and latches are built to withstand over 1.75 million openings and closings. And each holds your cassettes snugly to prevent needless wear and tear on your tapes.

10-cassette. Also stores up to 14 singles. 44-1205 ..... 5.99  
20-cassette. Can also be used to store up to 10 tapes and a personal stereo. 44-1206, 7.99  
36-cassette. 44-1207 ..... 12.99

### Cassette carry case

Durable nylon exterior with padded foam interior protects and cushions your cassettes. Cassette tray is removable so you can carry other items. 44-1208 ..... 8.99

### Tape cases

Stores and protects up to 30 audio cassettes. 44-1210 ..... 14.99  
Stores and protects up to 15 audio cassettes. 44-1209 ..... 8.99

### Cassette tray

Organizes 15 cassettes. Tinted cover keeps out harmful dust and moisture. Perfect for your vehicle. 44-665 ... 3.99

### Tape module

For 10 boxed or 16 unboxed tapes. Easy to add on to—modules lock together. 44-685 .. Each 2.69





## Bulk tape eraser works fast

Don't make your cassette recorder do extra work. Erases your personal tapes quickly and completely. Not for use on metal tapes or video cassettes. UL listed AC. 44-232 ..... 19.99

## "Pro" A/V cleaning kit

Gently removes accumulations of dust, dirt, grime, oxide deposits and other debris. 44-1115 ..... 4.99

## Tape head cleaning solvent

Safely dissolves dirt and oxide deposits on video and audio tape-deck heads. Leaves no residue behind. 44-1113 ..... 3.79

## Cleaner and lube kit

A complete care kit. Apply to tape head and rollers to keep equipment running smoothly. With cleaner, lubricant. 44-217 .... 2.79



## "Demag" improves tape sound

A demagnetizer helps cut tape hiss so your cassettes sound better.

Simply load like an ordinary cassette. Works fast and signals you when it's done. With battery. 44-1165 ..... 10.99

## Budget cleaning kit

Protect your investment. Gently cleans dust, dirt and other debris. 44-1112 ..... 3.99

## Standard cleaning solution

Gently but thoroughly cleans tape heads, tape guides and capstan rollers to keep your recorder working great. 44-1010 ..... 99¢

## (1) Cleaning swabs

- (1) Foam. Ultrathin. 44-1001, Pkg. of 10/2.69
- (2) Foam. Dual-tipped. 44-1094, Pkg. of 10/2.49
- (3) Cotton. Dual-tipped. 44-1093, Pkg. of 100/2.29

## Non-slip solution.

Apply to belts and idlers to prevent slippage and ensure uniform speed. Also works on record changers. 44-1013 ..... 99¢

## Phone pickup

For recording personal calls or to keep a record of unwanted calls. (May be incompatible with some electronic telephones). 44-533 ..... 3.99

## Cassette boxes

Hinged boxes store and protect audio cassettes. 44-611, Pkg. of 3/1.59

## Index cards

Fit standard cassette box. 44-623, Pkg. of 20/1.29

## Budget mailers

Heavy-duty cardboard. Meet all first-class postal regulations. 44-632, Pkg. of 6/99¢

## Car AC adapter

Works with most portables. Delivers 6 or 9 volts. 14-844 .... 6.99

# Audio Tape Extras

We have what you need to maintain your deck and record, erase, edit, label, store and play your tapes.

## Brush cleaner, demagnetizer

Our best, with a unique Field Discharge Chip that demagnetizes the tape head as 32,000 filaments gently clean areas others miss. 44-1202 ..... 9.99

## Head cleaner cassette

Kit helps extend tape and player life by removing harmful oxide deposits. The cassette works



with cleaning solution to clean entire tape path. 44-1162 ..... 2.99

## Head cleaner/demagnetizer

Includes a demagnetizing cassette, probe, mirror and cleaning solution. It also works well with telephone answering machines. 44-1167 ..... 5.99



## Dry head cleaner

This extra-gentle and non-abrasive cleaner restores fidelity and extends cassette life by removing harmful oxide deposits from recorder heads. 44-1160 ..... 1.99



## Liquid deck cleaner

It restores player performance and helps prevent "tape-eating" by cleaning head, capstan and



roller. Ideal for vehicle in-dash tape players. 44-1116 ..... 3.99

## Extras for tape and equipment



(1) Equipment cleaning cloths. Soft and gentle. 44-1088 . . Pkg. of 4/2.19



(2) Edit block. For splicing and repairing cassette tape. 44-224 ..... 3.99



(3) Splicing tape. 1/2" x 100". 44-1127 .... 1.69



(4) Leader tape. 7/32" x 100". 44-1131 .... 99¢



(5) Sensing tape. 100" roll. 44-1155 ..... 3.69

## Tape for your tapes

(3) Splicing tape. 1/2" x 100". 44-1127 .... 1.69  
 (4) Leader tape. 7/32" x 100". 44-1131 .... 99¢  
 (5) Sensing tape. 100" roll. 44-1155 ..... 3.69

## Cassette shell

Replaces damaged housing. With 24" leader, instructions. 44-626, 1.19

## Index labels

Self-adhesive back sticks to cassette. Six each of red, yellow, blue, green. 44-621 . . Pkg. of 24/99¢

## Cassette mailers

Excellent for demo tapes. Comply with all first-class postal regulations. 44-608 . . Pkg. of 3/99¢

## Foot switch

For hands-free remote operation of recorders. 44-610 ..... 3.99



# Video Tape & More



**VHS High-Standard**  
T-120. High-density formula. Records up to 6 hours.  
44-400 ..... 2.99  
3-Pack. 44-490 ..... 7.99  
5-Pack. 44-491 ..... 12.99



**VHS Pro High-Grade**  
T-120. Premium fine-particle formulation reduces dropouts while improving detail. Up to 6 hours recording time.  
44-411 ..... 6.99



**Camcorder cassette**  
T-30. Premium fine-particle formulation ensures rich colors, crisp detail and crystal clear audio. Up to 1½ hours recording time.  
44-412 ..... 6.99



**High-grade VHS**  
For exceptional resolution and color reproduction.  
T-120. Records up to 6 hours. 44-410 ..... 4.99  
T-160. Records up to 8 hours. 44-414 ..... 8.99



**Super VHS**  
Multilinear Particle Construction provides unsurpassed performance. Up to 6 hours recording time.  
44-413 ..... 12.99



**Beta L-750 cassette**  
Delivers quality you'll continue to notice, even after many playbacks. Up to 4½ hours recording time.  
44-480 ..... 5.99



**High-Grade 8mm SUPERTAPE®**  
HG-120. High-grade metal coating provides up to a 25% improvement in picture and sound quality. Up to four hours recording time. 44-452 ..... 8.99  
HG-30. Up to 1 hour recording time. 44-456 ..... 4.99  
HG-60. Up to 2 hours recording time. 44-457 ..... 5.99  
MP-120. Metal-particle formula for excellent clarity. Up to 4 hours recording time. 44-451 ..... 7.99  
HG-150. Up to 5 hours recording time. 44-453 ..... 10.99



**VHS-C TC-20**  
Delivers true colors play after play. Up to one hour recording time.  
44-430 .. 4.99



**TC-20 Pro**  
High-grade for VHS-C camcorders. Up to one hour recording time.  
44-433 .. 5.99



**TC-30 Pro**  
High-grade VHS-C for master recordings. Up to 1½ hours recording time.  
44-432 .. 7.99



**Deluxe VHS winder**  
Rewinds and fast-forwards at counter-balance-controlled speed to prevent excess tension on tapes. Digital counter, auto-stop, auto soft-eject.  
44-1201 ..... 29.99



**8mm winder**  
Use at home, or rewind/forward on the go with most 8mm camcorder batteries. Infrared sensor-controlled auto-stop. Soft-eject mechanism. 44-1139 ..... 39.99



**VHS winder**  
Reduce your VCR's work load. With Counter-balance-controlled rewinding mechanism. Auto-stop, auto soft-eject and power off. UL listed AC. 44-1200 ..... 19.99



**Bulk tape eraser**  
Works fast, erases completely to save your player extra work. Perfect for video and audio tapes, including metal tape. UL listed AC. 44-233 .. 31.99



**Deluxe VCR cover**  
Quilted material protects against dust while allowing heat and moisture to escape.  
44-1183 ..... 9.99



**Relabeling kit**  
Gives your collection a more organized look. Ten adhesive label sets. For VHS or Beta tapes.  
44-1103 ..... 1.79



**VCR care kit**  
One High Grade T-120 video cassette, dry head cleaner and quilted dust cover.  
44-1801 ..... 9.99



**VHS wet**  
Nonabrasive system cleans the tape head, capstans, rollers and guides. With fluid.  
44-1212 ..... 12.99



**Beta wet**  
Gently cleans Beta player heads, capstans, rollers and guides. With fluid.  
44-1149 ..... 12.99



**VHS wet/dry**  
A fast and effective way to dissolve and remove harmful deposits on your your VCR.  
44-1143 ..... 9.99



**8mm cleaner**  
Nonabrasive wet system cleans the entire tape path for better video and audio.  
44-1144 ..... 10.99



**VCR cleaner**  
For VCRs and camcorders. Kit includes brush, mirror, probe, glove and fluid.  
44-1157 ..... 9.99



**VHS brush cleaner**  
Its 30,000 filaments gently clean where other cleaners can't reach. With fluid.  
44-1203 ..... 16.99



**8mm brush cleaner**  
The same 30,000 filament cleaning system as above but for 8mm equipment.  
44-1204 ..... 14.99



### Video enhancers

pages 98-99

Clean up fuzzy video tapes with video enhancers from Radio Shack. You'll be surprised just how great your home videos will look! Enhancers let you fine-tune your videos for color, detail, tint, picture sharpness and audio levels. Rented videos perform better, too, with a video enhancer. With a video enhancer, you will always get improved sound and picture quality without altering the original tape.

### Video switchers

pages 98-99

The answer for controlling multiple video sources—switchers make video dubbing easy and put an end to cable swapping forever. Selecting a video switcher is easy—just determine how many video sources you have; cable, outside antenna, VCR . . . and

be sure to allow room to grow.

With just a push of a button, you'll be switching between multiple

recording sources while viewing any other source.



### Universal remotes

page 97

Control three, four, five, or even six separate components with just a single remote. Pre-programmed with popular brands and a snap to setup. You'll be channel surfing within minutes! We have one of the largest selections you'll find anywhere.



# Your Complete Source for Video

*No one matches Radio Shack's selection of great video products! Televisions—from full-size 20" stereo TV/monitor to portable LCD color and AC/DC televisions. VCRs (we have five new models) and camcorders. Plus video enhancers, switchers, tape editors, satellite systems, antennas, universal remotes and the cables to connect everything. We're your source for video!*



### AC/DC TVs

pages 91-92

These portable TVs are ready for the road or for use at home! You'll be able to watch TV programs wherever there is an AC outlet or a 12-volt DC power source, like a car cigarette lighter. Choose a TV/VCR combo for added convenience and for entertaining the kids.

### LCD televisions

pages 90-91

Lightweight compact LCD TVs put exciting television action in the palm of your hand. Our selection is better than ever, with sizes, features and models to fit any need. All have exceptional picture quality, precise one-touch digital tuning and built-in speakers. Perfect at sporting events!



### TV antennas

pages 102-104

We're America's number one antenna store with a huge selection of indoor and outdoor antennas. Whether you live in a rural area and need the signal-grabbing power of a long range UHF/VHF/FM antenna or in the city and need to reject overpowering signals, we have the perfect antenna for you! Plus we have over 20 indoor antennas—perfect for set-top reception or when you don't want to install a rooftop antenna.

### Satellite systems

pages 100-101

Satellite dish? Think Radio Shack! We have a system to meet your needs—from our 9-foot Hi-Fi Stereo C-band dish to the newest 18" DSS system. A new age of television entertainment can be yours! At Radio Shack, the sky's the limit!



### Video editor

page 99

Take the director's chair and start calling the shots with an easy-to-use home video editor from Radio Shack! You'll amaze your family and friends—and yourself, too—with clear, professional-looking videos. You can leave it to Radio Shack to make editing a home video as easy as pushing a button. On-screen prompts take the confusion out of editing as they guide you through the process. Preview and cut video segments and put them back together just like a pro using your VCR and camcorder or a second VCR. So start calling the shots today with a video editor from Radio Shack.





**Compact 1.6" LCD color TV—great on game day!**

Ideal for taking to the game—catch the replays other fans can't. Compact, palm-sized LCD TV packs easily. Precise one-touch digital tuning automatically searches out active VHF/UHF stations and locks on. Use the built-in speaker or 1/8" earphone jack for private listening. Fluorescent backlight. Telescoping rod antenna with swivel base. 4 3/4 x 2 7/8 x 1 3/8". Requires 4 "AA" batteries (or AC or DC adapter, extra) (TSP)

16-166 ..... 119.99



**2.2" LCD color TV with electronic tuning**

Pocket-size LCD color TV with big features. Precise digital-tuning automatically locks-in active VHF/UHF stations for the best picture. Flat LCD screen provides a crisp, clear picture. With fluorescent backlight. Built-in 1 1/8" speaker. With telescoping rod antenna on swivel base. Additional jacks allow for adding private-listening earphone and external antenna. 5 1/2 x 3 1/4 x 1 1/2". Requires 4 "AA" batteries (or AC or DC adapter, extra) (TSP)

16-164 ..... 139.99



**1.8" active-matrix LCD TV—share the fun!**

Active-matrix technology delivers crisp video regardless of ambient lighting conditions and looks great from any viewing angle. Features precise, one-touch digital tuning. A/V inputs for use as camcorder or VCR monitor. Fluorescent backlight. Telescoping rod antenna with swivel base adjusts for best picture. Built-in speaker. Jacks for adding earphone and external antenna. 5 1/2 x 3 1/4 x 1 1/2". Requires 3 "AA" batteries (or optional AC or DC adapters, extra) (TSP) Available Nov. 1994.

16-169 ..... 199.99



**2.5" LCD color TV**

2.5" easy-viewing, simple-matrix portable color LCD TV with comfortable ergonomic design fits perfectly in your hand. Precise digital-tuning seeks out strong VHF/UHF channels in your area and locks them in for no-drift reception. Built-in telescoping rod antenna with swivel base. Listen with speaker or private-listening earphone jack. Fluorescent backlight. Jack for adding an external antenna. Requires 4 "AA" batteries (or AC or DC adapter, extra). 5 1/2 x 3 7/16 x 1 7/16". (TSP)

16-168 ..... 199.99



**LCD color TV/monitor**

3.3" —perfect size for desktop, countertop or even night stand. Does double duty—use it as a camcorder monitor or viewscreen for a portable VCR. Digital tuning with one-touch up/down auto-search for quickly finding your favorite stations. Built-in 1 3/8" speaker. Telescoping antenna with swivel base. With audio/video input, jacks for adding external antenna, earphone and DC adapter. Base tilts to let you adjust the viewing angle. 3 5/8 x 2 x 3 3/4". Requires six "AA" batteries (or AC or DC adapter, extra). (TSP) 16-165 ..... 199.99

A/V Input Cable. (CMC) 16-2324 ... 19.99

**Take your shows on the go with a portable pocket-size color LCD TV**

2.5" active-matrix LCD color TV/monitor. The latest LCD technology delivers a color-rich, high-resolution picture that looks great from any angle. It's a superb portable monitor for camcorders with A/V inputs for easy connection. Precise digital tuning seeks out strong VHF/UHF channels in your area and locks on for best picture. High-luminance fluorescent backlighting for bright picture. "Picture off" feature lets you listen to programs without the associated picture. This feature almost triples the operating time when using battery power. Built-in telescoping rod antenna with swivel base adjusts for best possible reception. With built-in 1 3/16" speaker or private-listening earphone jack. Jack for adding an external antenna. Requires 4 "AA" batteries (or AC or DC adapter, extra). 4 3/4 x 2 15/16 x 1". Requires 3 "AA" batteries (or AC or DC adapter, extra). (TSP) 16-167 ..... 249.99  
 4.5V AC Adapter. 16-2018 ..... 19.99  
 4.5V DC Adapter. (CMC) 16-2019 ..... 19.99



TV screens on these two pages are measured diagonally—simulated reception.

## Q&A



**Question:**  
What can I do to get the clearest video recording?

**Answer:**  
(1.) Use the SP setting on your VCR, this speeds up the tape and increases image clarity. (2.) Use a high-grade video tape. HG tapes have a fine-grain particle formulation and are designed for maximum picture clarity. Two simple tricks to ensure optimum VCR performance.

**Question:**  
Is there really a difference between normal and high-grade video tape?

**Answer:**  
Yes. High-grade video tape has a special coating that delivers clearer, longer-lasting recordings and is especially suited for "special event" recordings you want to keep or play again and again. Plus high-grade tape is also recommended for Hi-Fi VCRs because of its increased frequency response.

**Question:**  
I have been shopping for a camcorder and I can't decide which format is better for me. Should I buy a VHS or 8mm format camcorder?

**Answer:**  
When buying a camcorder, consider the features. Full-size VHS camcorders are much slimmer than older models and they have the advantage of using standard-size cassettes. Some prefer the lightweight, compact size of the 8mm. Radio Shack offers both formats.

**Question:**  
Can I play my 8mm tape on my VHS VCR?

**Answer:**  
No, but you can easily connect your 8mm camcorder to your VHS VCR and play the tape through it. The cable is included with the 8mm camcorder. And you can copy your 8mm tapes to VHS while you watch them.

### 8mm camcorder to VHS VCR hookup



**Question:**  
I am getting double images or "ghosting" on my TV. Can anything be done?

**Answer:**  
Two conditions cause double images or "ghosting." Notice that the images are identical—this is caused by the same TV signal being received from two different paths, and arriving at slightly different times. To correct this problem, rotate your antenna slightly to improve your picture. You may also want to use shielded cable from your antenna to your set.

If you have cable TV, it is likely that the coax cable is acting as an antenna and causing the "ghost" problem. Check all of your connections to the cable outlet for frayed ends or loose connectors. It may be necessary to run a heavy shielded coax to the hookup to eliminate the problem. The video experts at Radio Shack can help you fix the problem.

**Question:**  
I live in a rural area and can't get a clear picture on my TV. What can I do?

**Answer:**  
TV reception beyond the designated service area of the station is known as "fringe" area reception. The TV signals to these areas are usually very weak and highly susceptible to "misinformation" picked up as they travel from the broadcast antenna to your television antenna. With help from Radio Shack "fringe" area reception can be improved dramatically. Here are a few things you can do to improve your picture. (1.) Add a signal amplifier to boost signal strength to your set. The distance and travel through the atmosphere may be eroding the received signal, or the use of long cable runs may be causing significant line-loss between your antenna and TV. (2.) An inline filter will reduce interference caused by CB/Ham and FM signals that may have been picked up in the air. (3.) You can install a directional antenna or an antenna rotating system that allows proper positioning to the signal source and optimizes the reception capabilities of your TV set. This will also help eliminate "ghosting" and interference while improving signal clarity. These and other products to improve TV reception are available at Radio Shack!



## We Know Video!

From TV antennas to satellites, we've got answers to your video questions!

Radio Shack has been a leader in technology for over 70 years. During that time, we have witnessed and participated in an explosion of electronic advancements.

Remember when televisions were round and heavy and the pictures were ghostly shades of gray? And the cameras that were used were so huge it took two people to operate them.

Well those days are past. The new age of video is upon us! Now the TVs are palm-sized and in vivid color. Video cameras can be held in the palm of your hand and it is a simple task to record special events and preserve the memories on videotape.

Today, with satellite systems you can enjoy a soccer game from the other side of the globe—while it happens! With the advancements in cable and broadcast television, you can tune in hundreds of different programs—from never-ending movie channels to sporting and newsworthy world events as they happen! With home shopping channels, you can even buy something and have it delivered, all without leaving your armchair!

That's today—what about tomorrow?

The worldwide information superhighway is not just a dream or a catchy phrase, it's coming! The roadmap has been drawn—the foundation has been poured. Within the decade, your television set will have become more than an entertainment device, it will be a tool that enhances the quality of your life. It will communicate, educate, inform and entertain. And Radio Shack will be there with the latest technology, common-sense answers to all your technology questions plus the high-quality components, parts and pieces to connect it all and make it work for you! Radio Shack will continue to lead—that's one thing that hasn't changed!

**Connecting your camcorder to a TV or VHS VCR is easy when you've got the right answers!**





### **4.5" portable B&W TV with AM/FM radio and cassette recorder**

An all-in-one entertainment system that moves with you! Kids can watch TV, listen to the AM/FM radio, play their favorite cassettes or make their own recordings wherever they happen to be. Monaural cassette features end-of-tape auto-stop plus auto-level for perfect-volume recordings from the radio or television or while using the built-in condenser microphone. Built-in speaker plus headphone jack for private listening. AM antenna plus telescoping rod antenna on a swivel base for great FM and TV reception. With adapter and jack for

attaching an external antenna. Convenient shoulder strap and carry handle. Includes UL listed AC & 12VDC car cigarette lighter adapters. Requires ten "D" batteries. 6<sup>1</sup>/<sub>8</sub> × 17<sup>3</sup>/<sub>4</sub> × 5<sup>3</sup>/<sub>4</sub>". (TSP) 16-128 ..... 119.99

## Portable AC/DC TVs

*You don't have to miss your favorite shows just because you aren't home.*

*We've got the answer when you want to watch TV but can't be at home. Our portable TVs tag along with you on camping trips, picnics, to the ballpark and the beach. Our '95 selection is tremendous—we have pocket-size TVs with earphone jacks for personal viewing, and larger portables that the whole group can enjoy. Choose color or black and white. Most have 3-way power options—internal batteries, 12VDC from your car, boat or RV, or from any available AC source.*



### **3.5" black-and-white portable television with 3-way power**

Home AC, vehicle DC or batteries. Earphone/antenna jacks. Includes UL listed AC adapter & 12VDC adapter. Also operates on 6 "C" batteries. 5 × 6<sup>5</sup>/<sub>8</sub> × 7<sup>1</sup>/<sub>2</sub>". (TSP) 16-122 99.99



### **4.5" TV with AM/FM**

Portable entertainment! You can enjoy black and white TV and radio at home or away—plays on home AC, vehicle DC with included cord, or bat-

teries. Fits nicely on night table, shelf or desktop. Telescoping antenna with swivel base. Jacks for adding external antenna and earphone. Includes UL listed AC & 12VDC adapters. Also operates on 8 "D" batteries, extra. 6<sup>3</sup>/<sub>8</sub> × 7<sup>5</sup>/<sub>16</sub> × 16<sup>15</sup>/<sub>16</sub>". (TSP) 16-126 ..... 99.99



### **4.5" TV and stereo portable**

AM/FM radio, stereo cassette and B&W VHF/UHF TV. Dual 4" speakers

and stereo headphone jack. Cassette features auto-stop plus auto-level recording. Mike jack. Includes UL listed AC adapter or operates on 8 "D" batteries. (DC adapter, extra). 6<sup>1</sup>/<sub>8</sub> × 17<sup>3</sup>/<sub>4</sub> × 5<sup>3</sup>/<sub>4</sub>". (TSP) 16-119 ..... 119.99



### **7" B&W TV with radio**

Light—less than 6 pounds! Swivel base allows for easy viewing from almost any angle. 2-way power—enjoy TV or radio from home AC or

vehicle DC with included cord. Telescoping antenna, jacks for external antenna and earphone. Removable pedestal. Includes UL listed AC & 12VDC adapters. 9<sup>1</sup>/<sub>16</sub> × 9<sup>9</sup>/<sub>16</sub> × 9<sup>9</sup>/<sub>16</sub>". (TSP) 16-245 ..... 99.99



### **5" B&W TV with radio**

The perfect portable entertainer! Enjoy black and white TV and AM/FM radio wherever you are. 3-way power operation—plays

on home AC, 12VDC or batteries. Fits easily on night table, shelf or desktop. Telescoping rod antenna with swivel base. External antenna jack. Includes UL listed AC & 12VDC adapters. Also operates on 8 "D" batteries. (batteries extra). 5 × 8 × 7<sup>5</sup>/<sub>8</sub>". (TSP) 16-124 ... 99.99



### **9" color TV with remote**

On-screen displays. 110-channel tuner and audio/video inputs for use as a monitor. Earphone, external antenna/speaker jacks. Re-

mote requires 2 "AA" batteries. Includes UL listed AC adapter. (DC adapter, extra). 10<sup>1</sup>/<sub>4</sub> × 10<sup>3</sup>/<sub>8</sub> × 12<sup>3</sup>/<sub>8</sub>". (TSP) 16-246 ..... 299.99

### **5" B&W television**

A tag along TV! Perfect on a countertop, under a cabinet or for taking along in your van, boat or RV. 2-way power—plays on home AC

or vehicle DC with included cord. Mounts easily under cabinet with the included swivel bracket. Slips out of bracket for portable use. With earphone and external antenna jacks. Includes UL listed AC & 12VDC adapters. 5 × 6<sup>5</sup>/<sub>8</sub> × 7<sup>1</sup>/<sub>2</sub>". (TSP) 16-121 ..... 79.99



### **4.5" B&W television**

Small spaces are no problem! Reliable operation and a quality black and white picture. Powers up with standard house AC or 12VDC vehicle

power for portability. Compact size fits almost anywhere. Telescoping antenna and jacks for adding external antenna and earphone. Includes UL listed AC & 12VDC adapters. 5 × 5<sup>5</sup>/<sub>8</sub> × 6<sup>1</sup>/<sub>4</sub>". (TSP) 16-127 ..... 79.99



### **5" color TV/monitor**

Plays on home AC, vehicle DC or batteries so you can enjoy your favorite TV programs anywhere! Great for the desktop, RV,

workshop—built-in stand lets you tilt the TV. A/V inputs make it ideal for use as monitor for camcorder or portable VCR. Telescoping antenna. Earphone jack for private listening. Includes UL listed AC & 12VDC adapters. Operates on 9 "D" batteries, extra. 7<sup>1</sup>/<sub>2</sub> × 6<sup>3</sup>/<sub>8</sub> × 10<sup>1</sup>/<sub>2</sub>". (TSP) 16-125 ..... 249.99

TV screens measured diagonally. Simulated reception



**Portable 5" color TV with built-in 8mm VCR**

**Model 17.** Combines a 5" TV/monitor and 8mm VCR into one portable unit! Ideal for business presentations or personal use. The supplied DC adapter lets you play and record 8mm tapes in your car, van, even a boat! A/V in/out jacks let you connect a camcorder for dubbing tapes, or connect to a larger TV. Perfect for camcorder jockeys—just pop in a tape from your 8mm camcorder for instant playback—no need for RF converters or VHS adapters! Hi-Fi monaural sound delivers clean audio. Flying erase head ensures clean transitions when dubbing tapes. Digital auto tape tracking delivers the best possible picture. On-screen display of TV/VCR functions. 179-channel PLL tuner handles large-capacity satellite or cable systems. Carry handle and telescoping antenna. 75-ohm input. External antenna, earphone jacks. Includes AC and vehicle DC power cords. Was 799.99 in 1994 catalog. (TSP)

16-409 ..... **New Low Price 699.99**



**Our smallest and finest 8mm Hi-Fi stereo VCR is big on performance**

**Model 801.** At just 2 1/2 x 8 7/8 x 8 1/4", this is our most compact deck ever. Enjoy crystal-clear video and superior effects thanks to the double-azimuth, center-loading design, plus Hi-Fi stereo and MTS stereo-TV sound with SAP. Flying erase head, auto play, auto tracking, slow-motion, still-frame. Visual search helps you find desired tape sections quickly. 181-channel tuner, 1-year/8-event timer, quick-timer. A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-655 ..... **499.99**



**9" color TV with built-in VHS player**

**Model 19.** This TV/VCP combo is great for movie-rental fans, and it plays on home AC or vehicle 12VDC. Perfect size for college dorm rooms,

sales presentations or travel. Control major TV and tape functions from your easy chair with the 28-key remote. Auto-play, rewind, stop and eject. Handy on-screen display of TV/VCP functions. TV has 179-channel PLL tuner that auto-stores active stations—makes setup a snap! Earphone jack for private listening. Includes VHF/UHF antenna and AC/DC cords for use almost anywhere. (TSP)

16-411 ..... **499.99**



**13" color TV/built-in VHS VCR**

This space-saving entertainer combines a 13" color TV and VHS VCR in one compact system. Ideal for personal use in the bedroom, kitchen, or use for

group presentations. For the hearing impaired, a built-in digital decoder lets you read closed-captioned broadcasts (CaptionVision). CaptionVision may be turned on or off at any time. Features remote control, 181-channel tuner, on/off timer, on-screen display, 1-year/8-event timer, quick-timer recording, freeze frame. Index search system finds tape sections fast. Auto-tracking, auto-sleep. (TSP)

16-415 ..... **449.99**



**Multistandard 2-head VHS VCR for world travelers**

**Model 36.** Our "international entertainer" allows you to play VHS tapes from almost anywhere in the world on a TV in the US, Canada, Japan or Mexico.

Our multistandard VCR plays tapes recorded in PAL and SECAM systems used in Europe and Middle Eastern countries. Built-in switchable 110/240V power supply, remote, auto tracking, digital still-frame, 179-channel tuner and 2-week/7-event timer. Front-panel A/V input. Remote requires 2 "AA" batteries. *Special order only—come in for details.* (TSP) 16-706 ... **599.99**



**Center-loading 8mm Hi-Fi stereo VCR with SAP**

**Model 800.** Just pop in a tape from your 8mm camcorder for instant playback! And, enjoy prerecorded 8mm

movies or record your own. You get stereo-TV sound with SAP, a flying erase head, and "just-in-time" recording. Auto play/rewind/eject, automatic tracking. Still-frame, visual search, time search. 179-channel tuner, 1-year/8-event timer, A/V inputs. Remote requires 2 "AA" batteries. Was 499.99 in 1994 catalog. (TSP) 16-654 ..... **New Low Price 399.99**



**13" color TV/monitor**

**TC-194.** Features direct-entry scan and flashback tuning, a programmable sleep timer and on-screen displays of channel and picture/sound

adjustments. For the hearing impaired, a built-in digital decoder lets you read closed-captioned broadcasts (CaptionVision). CaptionVision may be conveniently switched on at the touch of a button and switched off whenever you choose. And, it's ideal for "night owls" who want to watch the late show without disturbing others in the household. Has cable-compatible 179-channel tuner and direct A/V inputs for VCR, video disc player, camcorder or other video device. Remote requires 2 "AA" batteries. (TSP)

16-288 ..... **249.99**



**20" color TV/monitor**

**TC-1004.** MTS stereo TV sound with SAP. Extra-flat, extra-square picture screen reflects less room light—and delivers an easier-

to-view picture than a conventional rounded screen. Built-in digital decoder lets people with hearing impairment read closed-captioned or text-service broadcasts (CaptionVision). CaptionVision may be switched on or off whenever you choose. Programmable sleep timer automatically turns off the TV at any time you choose—handy for "night owls". On-screen displays show TV functions. Cable-compatible 179-channel tuner. Clock/timer display. Direct A/V inputs for VCR, video disc player, camcorder or other video device. Remote requires 2 "AA" batteries. (TSP)

16-255 ..... **369.99**

*Buzz*  
WORDS

**SHUTTLE CONTROL.** Lets you fine-tune special effects and tape direction.  
**MID-MOUNT DESIGN.** Delivers a more stable and jitter-free picture.  
**ON-SCREEN DISPLAYS.** Prompts on your TV screen make programming a breeze.  
**DOUBLE-AZIMUTH.** On 4-head models, optimizes clarity on SP and EP modes.  
**AUTO-CHANNEL PROGRAMMING.** Auto-stores active channels in your area.  
**MEMORY SENTINEL™** A Radio Shack exclusive on all of our VCRs. Provides up to 1-hour clock/channel memory backup during AC outages.



**Dual-powered monaural VHS player for car, home or RV**

**Model 21.** This versatile home/mobile entertainer plays on both household AC and vehicle 12VDC so you and your family can watch favorite movies in your car, van, RV—even in your boat! Travelers, when stopped for the night, can watch movies at a motel or campsite. And if you shoot VHS camcorder tapes while on your vacation, just pop them into the player for instant viewing—no waiting until you get home! Lightweight and compact so it doesn't take up valuable space! Auto-play begins playback automatically when you load a video cassette. Fast response system saves time when rewinding or fast-forwarding tapes. Visual search lets you find tape sections without guessing. Still frame lets you pause playback so you can view a single video frame. Includes RF cord for TV hookup, AC and car DC power cords. Remote requires 2 "AA" batteries. (TSP) 16-413 ..... **199.99**



High-speed search up to 27-times normal speed



**Center-loading 2-head VHS VCR with high speed search and full-function remote**

**Model 104.** The Optimus 104 two-head VHS VCR offers the most advanced features at our most affordable price. Features include cable-compatible 181-channel tuner, 1-year/8-event timer, English/Spanish/French on-screen display. Real-time tape counter displays the actual play or record time. Fast-response tape-motion commands. Time-remaining indicator. A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-541 ..... **219.99**



Real-time tape counter and on-screen display



**Center-loading 2-head VHS VCR with remote and tri-lingual prompts**

**Model 103.** We designed this model with features in mind, while still keeping it affordable! Features like real-time tape counter, auto-tracking, indexing and Memory Sentinel® make the 103 a great value. Other features include auto play, forward/reverse visual search and fast response system. 179-channel tuner with on-screen prompts in English, Spanish and French. A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-538 ..... **229.99**



Real-time tape counter displays actual play or record time



**Center-loading 4-head VHS VCR with real time tape counter and picture noise reduction**

**Model 101.** Enjoy excellent clarity and special effects play after play. Features Artificial Intelligence picture noise reduction which helps clear up fuzzy video tapes, plus auto picture tracking for a stable picture. Auto play, still frame, forward/reverse visual search and digital index search. 179-channel tuner with English/Spanish/French on-screen prompts. A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-539 ..... **279.99**



Front-panel A/V inputs for easy connections



**4-head VHS VCR with shuttle dial for easy control of special effects and tape motion**

**Model 102.** Combines a shuttle control that lets you select slow motion, still frame or high-speed search with just a twist of the dial. The quicker you turn the dial, the farther the tape moves. Has enhanced EP imaging, front-panel A/V inputs and index search. 179-channel tuner with English/Spanish/French on-screen prompts. 1-year/8-event timer. A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-540 ..... **299.99**



The right choice for your home theater system



**Center-loading 4-head Hi-Fi stereo VHS VCR with "shuttle" control and enhanced EP imaging**

**Model 57.** Enjoy superb video plus rich stereo sound on our best VCR. Features include 4-head design and comb filter which combine to deliver outstanding special effects. Other features include forward/reverse visual search and index search. Enhanced EP imaging for best picture in EP mode. Fast response system. 179-channel tuner with on-screen prompts in English, Spanish and French. 1-year/8-event timer. Out-front A/V inputs. Remote requires 2 "AA" batteries. (TSP) 16-627 ..... **349.99**

# All New Selection of Camcorders for 1995



Includes Bonus Case—A \$79.95 Value!

Monitor portion swivels for easy viewing and shooting from any position.

## Compact 8mm camcorder with 3" color LCD monitor

This remarkable 8mm camcorder features a 3" color active-matrix LCD monitor to give you a larger, more accurate picture. It eliminates squinting through a tiny viewfinder. Its unique viewing style plus variable angle shooting and instant replay make directing shots and recording all the action a breeze. Features digital autofocus and an 8x, 2-speed power zoom for getting tight, clear closeups in a hurry. Offers superior playback with built-in speaker, video search, slow-motion and still-frame. Minimum 4-lux illumination allows taping in dim light. On-screen menu display and infrared remote control. Other features include digital white balance for true colors, quick return, flying erase head for clean edits and warning indicators for light, battery and tape. With AC adapter, rechargeable battery/charger (DC adapter not included). (TSP)

16-862 ..... 999.00

Accessories available through CMC:

Sports jacket. 16-2020 ..... 179.99

Sun hood. 16-2021 ..... 49.99

Car battery pack. 16-2022 ..... 109.99

AV pack. 16-2023 ..... 29.99



Includes carrying case

## Lightweight standard VHS camcorder with 12x power zoom

If you combined all the features of a video camera with a portable VHS VCR you'd get the Optimus Model 129 MovieCorder. It uses standard VHS cassettes so you can play back home movies directly on any VHS VCR. Features low 1-lux light sensitivity for recording without special lighting. With super-close 12x power zoom the camcorder focuses smoothly at the touch of a button from wide-angle to telephoto. Fuzzy logic circuitry enables the camcorder to focus and adjust for lighting. Audio and insert editing let you add different soundtracks or video clips onto video tape. Produces natural color reproduction and improved picture sharpness with auto white-balance and HQ circuitry. Variable shutter speed to reduce blurring during playback. Includes infrared remote to get everyone into the picture. (TSP)

16-829 ..... 799.00



## Compact lightweight 8mm camcorder with 10x zoom

Optimus model 160. Enjoy point-and-shoot ease plus all the "extras"—including a wireless remote so you can get in the picture. With the help of fuzzy logic technology, the automatic functions—auto focus, auto iris, and auto white-balance—work much like the human eye to bring you a crisp, clear picture with true-to-life color. And you can manually adjust focus and color to compensate for unusual lighting conditions or to create special effects. Enjoy dramatic close-ups of distant subjects with the 10x zoom, shoot confidently in low-light thanks to 1-lux sensitivity. Helpful edit search feature lets you locate and resume recording from a desired point on a tape for smooth scene transitions. External microphone jack, audio/video input and output jacks and freeze frame and visual search in playback mode. 16-861 ..... 799.00

## Camcorder accessories



### Battery packs

Don't wait for your camcorder's battery to recharge. Buying extra batteries can keep you recording for hours while you charge the original.

8mm battery. 23-215 ..... 24.99

8mm hi-capacity battery. 23-216, 69.99

Battery for RCA/Hitachi. 23-217, 39.99

Battery for Canon/SunPak. 23-218, 39.99

12V VHS battery. 23-183 ..... 39.99

Extra-capacity VHS battery. 23-186, 39.99



### Wireless mike

Lets you receive audio for video recording from two wireless microphones. Clip on tie, lapel or shirt material. Transmits using FM frequency.

32-1226 .... 69.99



### Cleaning kit

Use to remove dust particles from lens and clean hard-to-reach areas of your camcorder.

16-2004, 4.99



### Soft mini case

Protect your camcorder and add extra storage with this tough lightweight case. Shoulder-strap for carrying.

16-2012 ... 39.99

### Fluid-head tripod

Weighs only 3.1 lbs., yet is super-sturdy to give movies a steady, professional look. Adjustable tilt and pan tension plus geared column. Height measures 58" extended, 24<sup>3</sup>/<sub>8</sub>" collapsed.

16-2017 ..... 49.99



Adjusts to capture action at any angle.



# We Put You Back in Control

When your TV remote starts changing channels when you want to turn up the volume and you can't find the VCR controller, it's time to come to Radio Shack. We have the best selection of quality preprogrammed 3, 4, 5 and even 6-in-1 A/V remotes.

Escape the remote jungle with a single convenient control.



### VCR-Pro easy programmer

(1) If programming your VCR is a pain, then this is your ultimate 4-in-1 remote! Program VCRs in seconds with the easy-to-understand on-screen prompts. Plus, control your TV, cable box and one auxiliary component in addition to all of your VCR's functions from a single remote. Simply enter a 3-digit code from the included list of components to instantly program. Requires 4 "AAA" batteries.  
 15-1907 ..... 49.99

### Preprogrammed 6-in-1 remote

(2) If you have several remote controls cluttering your living space this is the universal remote for you. It controls up to 6 audio/video components and also works with Radio Shack's Plug 'n Power® remote modules to control lights and appliances in and around your home. Just enter the 3-digit code for each component from the included list. Requires 4 "AAA" batteries. 15-1905 ..... 39.99

### Preprogrammed 5-in-1 remote

(3) Easy-to-use 5-in-1 remote with no complicated programming—just enter a 3-digit code from the included list for each of up to five components and it's ready. Replaces lost or broken remotes for most brands of audio and video components. Has full VCR function controls including display, tracking and tape speed control. TV controls include volume up/down, channel up/down buttons, channel number selection and previous-channel recall. Requires 4 "AAA" batteries.  
 15-1908 ..... 29.99

### NEW Preprogrammed lighted 4-in-1

(4) If you're getting bleary-eyed trying to read the controls on your remote in the dark, check out our newest preprogrammed 4-in-1. Its backlit display is perfect for late-night TV viewers or anyone who wishes their remote control was easier to read. Features big, easy-to-use buttons and simple one-step programming. Controls TV, cable box, VCR and one more component. Easy set-up and use. Requires 4 "AAA" batteries.  
 15-1911 ..... 29.99

### Preprogrammed 4-in-1

(5) No more fumbling with tiny controls and searching for lost remotes. Big, easy-to-use buttons make it simple to take control of TV, cable box, VCR and one additional component. Enter a 3-digit code for each component from the included list. Infrared beam is more powerful than many components' original remotes to let you operate equipment from a greater distance. Requires 4 "AAA" batteries. 15-1909 ..... 24.99

### Preprogrammed 3-in-1 remote

(6) The simplest we've ever offered! Now it's a snap to control the three most common video components—TV, cable box and VCR. Just enter a simple, 3-digit code from the included list for each of the components and the remote instantly knows their commands! Convenient big buttons make it easier to see and easier to use. Requires 2 "AAA" batteries. 15-1910 ..... 19.99



# Take Control of Home Video

*Radio Shack's complete line of video accessories lets you take control of your home entertainment system*

## Play your VCR in one room—watch in another! Send video signals through walls without wires or bulky cables

Wireless video distribution system. Here's a simple solution to a common video problem. Have you ever wanted to watch a video from the VCR in your living room on a TV in your bedroom? You probably tried running a cable through doorways, or even walls. Well, now you can watch a video anywhere in your house without running wires. Here's how:

A small transmitter unit connected to your VCR or other source sends a video program to a matching receiver placed on a remote TV located elsewhere in the house. So now you can watch video from a cable box, VCR or laser disc—anywhere you place a remote TV!

Save money by not having to buy another VCR—add a simple A/B switch, and the kids can watch a video on their own TV while you still enjoy the game in the living room. Video buffs will like the ability to remotely monitor camcorders or security cameras. And it won't affect regular TV and cable reception.

Has RCA jacks on the transmitter to add a VCR or other component and a 75-ohm coax jack for connecting to an antenna or cable box. Selectable input lets you pass either signal to the remote unit. **15-1958 . . . . . 99.99**  
**Extra Receiver.** Available on special order (CMC). **15-2301 . . . . . 49.99**



## 70-channel cable TV converter

Why rent when you can have your own converter box complete with infrared remote? Features scan and direct-entry tuning, previous channel flashback and sleep timer. Channel 3 or 4 output. Works with most cable systems. Will not descramble. **15-1287 . . . . . 99.99**

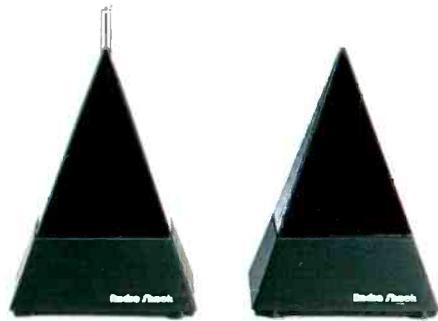


## Amplified stereo A/V selector

Stop swapping cables! Just push a button to route audio and video signals from any of four sources to a TV and VCR. View one source while recording another. Four sets of RCA line-level inputs for video, left and right audio. Two line-level outputs. **15-1951 . . . . . 39.99**

## Wireless remote extender lets you control stereo systems, TVs, VCRs and more from any room

Our wireless remote extender boosts the range of any video or audio component's existing remote, letting you control your video or audio equipment from any room in the house—up to 100 feet away! A transmitting unit passes your commands to your VCR, TV or stereo system without connecting wires. Select channels on your cable box or VCR from a remote viewing room. Or control a stereo from another room where you've installed a second set of speakers. **15-1959 . . . . . 49.99**



## Dubbing processor preserves video sound and picture quality

Your copies will look and sound better than ever when taping between VCRs! Audio and video enhancement controls guard against signal loss when taping. Fine-tune sound and picture for great dubs every time. **15-1955 . . . . . 24.99**



## Stereo audio/video selector lets you select between 4 sources

Push a single button to choose between VCR, laser disc, camcorder and any other video component. Output to stereo or TV. Four sets of RCA line-level inputs for video, left/right audio. Line-level output. **15-1956 . . . . . 24.99**



## Video A-B switch with infrared remote-controlled switching

Select between two 75-ohm video sources with the supplied remote or any universal learning remote. Switch between any two of laser disc, antenna, satellite, VCR or cable without leaving your chair. **15-1957 . . . . . 39.99**



**Add thrilling movie theater sound to your home stereo with our Dolby Pro Logic® surround decoder/amplifier**

The best seat in the house could be yours! With our Dolby Pro Logic decoder/amplifier, you can add incredible five-channel surround sound to any stereo receiver. Add a hi-fi VCR, center and surround speakers and get ready for theater magic right in your living room.

Dolby Pro Logic provides theater sound by separating movie soundtracks into five channels; the center channel which focuses dialogue near the TV screen, left and right channels for music and spectacular sound effects, and surround channels that are positioned to the sides or rear for sound-sizzling background effects.

When you put it all together, voices leap from the screen, planes rip across the room at top speed and distant rumblings of fiery volcanoes echo in the background.

But the fun doesn't stop there. Now, more than

ever, music videos, broadcast TV, laser discs and even music CDs are being encoded with five-channel Dolby Pro Logic. Don't miss out on this audio revolution because of outdated two-channel stereo equipment. Add our decoder to the tape loop of your stereo receiver and get ready for true surround sound.

Special features include a music surround mode, mono-enhancement modes for non-encoded material, plus controls for master volume, master balance and center channel balance. And it delivers a powerful 20 watts to each of center, left rear and right rear channels. If you want to add more power, there are RCA line-level outputs for front, center and rear channels. Single RCA stereo input. Push-type speaker terminals. (TSP) 15-1964 . . . . . 199.99



**Pro-feature video processor for quality editing and dubbing**

Fight signal loss when dubbing between VCRs! Our advanced video processor gives you precise control over sound and picture quality—

ideal for enhancing rented tapes and definitely makes the perfect tool for home editors. Use sharpness control to enhance edge definition and picture detail. Adjust color hues and color intensity, even boost or soften sound volume up to 20 dB. (TSP) 15-1962 . . . . . 99.99

**Hooray for Hollywood! Home video editor makes editing your home movies easier than ever before!**

"All thumbs" when it comes to video editing? Here's powerful help! Just connect our video editor to your camcorder and VCR and you're ready. Use the "thumbs-up" button when you see video you want to keep; press the "thumbs-down" when you see material you'd rather forget. The Easy Video Editor does the

rest, even adding "fade-to-black" between segments if you desire. Because your edited tape is made from the original, you get the best possible video quality. Works with virtually all camcorders and VCRs. Built-in video enhancer. (TSP) 15-1963 . . . . . 199.99



**Great Video—Not a Problem**

*Our video enhancers, processors and editor give you the power to make and edit great home video*



**Amplified 5-input, 3-output video source selector**

Just push a button to select between several video sources and monitors to record and view without swapping cables! Inputs for antenna, cable, VCR and two aux sources. Three TV/VCR outputs. Amplifies the video signal for a superb picture. (TSP) 15-2100 . . . 79.99



**5-input, 2-output video source selector ends cable swapping**

As above without signal amplification and only 2 video outputs. Two banks of pushbuttons to select and record from any of 5 sources (antenna, cable, VCR, two aux). Directs video signal to TV for viewing and VCR for recording. 75-ohm connectors. 15-1266 . . . 39.99



**Video enhancer/audio mixer lets you add your own soundtracks**

Now you can add music and narration to your home videos with professional results—even improves picture quality. Slide controls for audio mixing. Audio/video inputs, video out and headphone jack. 15-1961 . . . . . 59.99

## Satellite Systems and Accessories

Radio Shack has the best in quality satellite systems. Choose from our 5-ft. fixed-dish system or our deluxe 9-ft. "whole-sky" model. We offer entertainment-packed programming, professional installation and all the accessories for completing your system.



### Satellite dish security alarm

Low-cost protection for your system. Loud buzzer sounds if cable to dish antenna is cut or disconnected. Use alone or with a home security panel. Connects indoors at receiver. UL listed AC. Backup requires 9V battery. 49-441 ..... 29.99

### 20 dB inline coax amplifier



Perfect for satellite TV systems, UHF-TV and scanner radios. Boosts signals in 430-1450 MHz range—helps cut loss from long cable runs. "Bullet" amp is easy to install inline near the antenna. VHF pass-through. DC block module. 75 ohms. 15-1115 ..... 29.99

antenna. VHF pass-through. DC block module. 75 ohms. 15-1115 ..... 29.99

### Satellite installation accessories

Available on special order from our Consumer Mail Center (CMC). All items delivered fast to your nearby Radio Shack store.

100-foot cable extension. 16-2316, 99.99

50-foot cable extension. 16-2317 . . . 59.99

Ku-Band LNB. 16-2318 ..... 199.99

Terrestrial interference filter. For 16-2511.

16-2319 ..... 199.99

Two-way signal splitter. 950-1450 MHz.

16-320 ..... 7.99

Four-way signal splitter. 950-1450 MHz.

16-2321 ..... 9.99

C/Ku feedhorn. 16-2322 ..... 169.99

### Professional installation

Don't take chances with your new investment by letting an unknown or poorly-qualified technician install your satellite-TV system. Let the trained experts from Digitron Communication, Inc. install your system quickly, easily and correctly. This nationwide company offers competitive prices and first-class work on your standard ground-mount satellite-TV system installation. Come into your local Radio Shack for details.



### Deluxe! Complete 9-foot Hi-Fi stereo satellite system

Discover more movies, music, news, sports and information than even cable-TV offers. Gives you "whole-sky" coverage with over 200 TV and 80+ radio channels. Select a channel by remote from the on-screen display and the receiver does the rest, auto-positioning the dish for best reception of each satellite. Built-in timer lets you program a channel for recording by your VCR while you're away. Comes ready to accept VideoCipher II Plus Renewable Security module.

Complete C-Band system ..... 1995.00

### Satellite program package

Save on this package from Private Cable Club™. For only \$549, you get the VCRS descrambler and a FULL YEAR of programming from 21 channels—A&E, Cartoon Network, CNN, TNN, Discovery, CNBC, FNN, Headline News, Lifetime, USA, Weather Channel, Prime Sports, Comedy Central and more. A \$670 value! CALL for complete details: 1-414-857-7800 8 am-7 pm Central, Monday-Saturday.

### Upgrade your existing system

SR-2014 C/Ku-band stereo satellite receiver. Automatic dish positioning/fine-tuning, timer, parental lock, on-screen display and remote. VCRS compatible. (TSP) 16-2511 . . . 799.99

9' perforated sectional antenna. Horizon-to-horizon motorized mount.

16-2508 ..... 1299.99

Advanced 45° low-noise block converter. 950-1450 MHz output. 16-2512 . . . 179.99

Feedhorn. 16-2510 ..... 99.99



### Get "cable" from the sky with our 5-foot fixed satellite dish system

Directed exclusively at the Galaxy 5 orbiting satellite so you receive the very best of what cable-TV offers! The system is easy to use, with wireless remote and on-screen displays. Setup is easy, too—a single wire connects the dish to the receiver. Accepts the VideoCipher II Plus Renewable Security module that descrambles premium channels and provides access to pay-per-view services. Ideal for areas with no cable service.

Complete C-band system ..... 799.00

### Descramble/programming offer

Get the most from Private Cable Club™. For only \$425, you get the VCRS™ descrambler and a one-month sampler of programming from popular channels including A&E, CNN, Discovery, Family Channel, HBO, USA, CNBC, WTBS and more. CALL: 1-414-857-7800 8 a.m.-7 p.m. Central. Mon.-Sat.

### Satellite system components

SR-2015 C/KU-band satellite receiver. Lock in satellite channels with precise digital tuning. Features on-screen display and wireless remote. VCRS compatible. UL listed AC. (TSP) 16-2513 ..... 399.99

5-foot satellite dish antenna.

16-2514 ..... 569.99



## Say Hello to Our New Arrival!

Introducing a new order of television viewing experience for you and your family. The new Digital Satellite System from RCA gives you access to 150 channels of entertainment from premium movie channels and cable networks to pay-per-view sporting events and news programming—all broadcast in digital for CD-quality stereo sound and a picture that's 30% sharper than standard television. The tiny RCA 18-inch dish and satellite receiver is all you need.

There has never been such a combination of choice and control. Using the RCA DSS is as simple as turning on your TV. A menu-driven On Screen Guide lists all your programming options including first-run movies that start every 30 minutes, special events and custom-tailored cable programming packages. Plus, the Access Card provides simple channel lockout features for concerned parents.

You no longer need a mammoth backyard satellite receiver to get the best programming available. The future of entertainment is available today at Radio Shack. Come experience the Digital Satellite System from RCA. It will change the way you look at television forever.

### RCA digital satellite system

Your link to the expanding world of digital technology is the RCA DSS. Features everything you need for digital satellite viewing on your main TV. Its small 18" single-output dish antenna receives digital programming so you get CD-quality sound, a clearer more reliable picture than cable plus easy-access to 150 channels of programming. Compact receiver sits on top of TV and provides access to all system features. Rear panel connections include: auxiliary input and line output RCA-type connectors, one wide-band data port and one S-video output. 30-button remote operates satellite receiver and most brands of TVs.

16-2530 ..... 699.99

### RCA DSS programming options

Programming is available from two companies: DirecTV™ and USSB. DirecTV offers a wide variety of channels normally found on cable plus many channels of pay-per-view movies from top Hollywood studios with hit films available as often as every 30 minutes. With USSB you get premium movie channels 24 hrs. a day with different movies available at any given time. Program options start as low as \$7.95. For details see your local Radio Shack dealer.

### RCA DSS accessories

**RCA DSS self-installation kit.** Contains everything you need to do basic installation on the RCA DSS system. Makes a time-consuming chore easy and fast. Includes hardware, installation video and guide.

16-2533 ..... 69.99

**RCA DSS universal remote.** 39-button keypad controls DSS receiver and most brands of TVs, VCRs, laser disc players and cable boxes.

16-2534 ..... 29.99

### Advanced digital satellite system

Like the standard model, this revolutionary compact satellite system delivers stunning digital audio and video directly to your home. The advanced version adds dual-polarity, twin-output design for multiple satellite receiver and TV hookup. Its universal remote control operates satellite receiver and most brands of TVs, VCRs, Laser Disc players and cable boxes. Gold-plated auxiliary input and line output RCA-type connectors, one wide-band data port, one low-speed data port and one S-Video output. Metal 18" dish with glass-reinforced plastic reflector.

16-2531 ..... 899.99

**Additional RCA DSS receiver.** Includes remote with 30-button keypad. 16-2532 .... 649.99

### Installation package

The small size of the DSS dish allows for a variety of installation options. Whether you want a rooftop, eave or chimney mount or a more involved custom mount, it's important to have the job done correctly. That's why Radio Shack contracts professionals to do the job for you—without the hassle. For more information on how to get your DSS set up quickly and easily, stop in today and talk to a member of our friendly sales staff.

### Installation accessories

**RCA DSS line amp.** In-line amp for the RCA DSS system. Recommended for cable runs over 100 feet to improve signal strength.

16-2535 ..... 24.99

**RCA surge suppressor.** Safeguards DSS receiver from electrical power surges. Protection includes all outlets and phone jack.

16-2536 ..... 19.99

**RCA chimney mount.** For easy installation of the DSS dish to your chimney. 16-1537 ... 24.99

The future is bright for the RCA DSS, but its present programming capabilities are just as incredible. Two broadcasting companies, USSB and DirecTV, provide a wide variety of both video and audio programming.

Popular networks you enjoy from cable TV are available in digital clarity with DSS. Watch the programming of USA, A&E, WGN, TNT, WTBS, Discovery and more plus premium movie and pay-per-view events from HBO, Showtime, Flix, The Movie Channel and many, many more.

The RCA DSS will change the way you think about home theater, too\*. DSS will be able to support 16:9 program transmissions that let you watch movies in their original format on your wide-screen TV, and DSS is designed to support HDTV transmissions in the future. \*May require additional equipment.



**NEW High-definition/stereo-certified means great reception!**

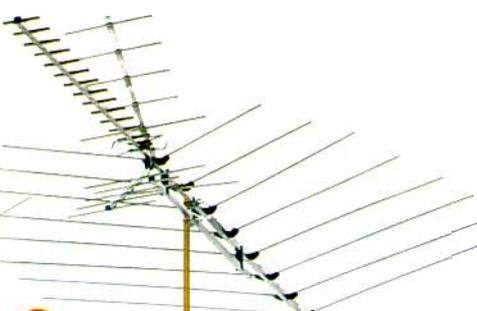
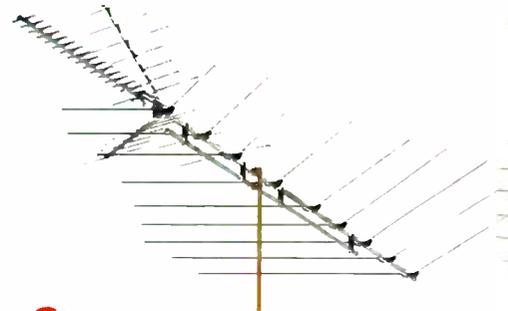
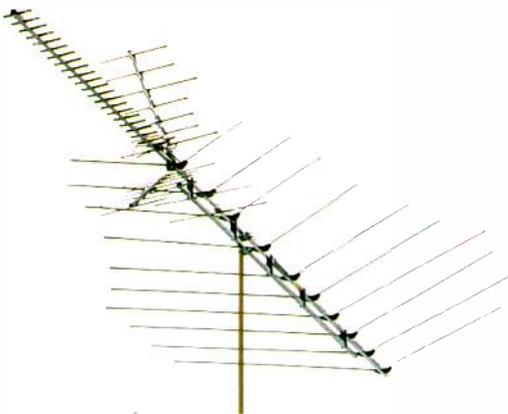
**VU-210 XR.** Our best long-range antenna! Receives VHF signals from stations as far away as 210 miles\*, and UHF/FM signals from stations up to 135 miles\* away. 58 elements and 190" boom length ensure the signal you get matches the picture resolution of the superb television sets now available. Stereo-certified means you get the best possible sound from all local stations broadcasting in stereo. Built tough to withstand strong winds, icing and extreme temperatures.

And, if you have cable, you can install an A/B switch (#15-1957) and be prepared for cable-TV outages. **15-2157 ..... 129.99**

# The Best Reception Starts Here

*High-Definition/Stereo-Certified antennas from Radio Shack match the superb picture resolution of today's high-quality TVs and visibly improve reception. They make colors come alive and sharpen black and white pictures. PLUS Stereo-Certified means you get the best sound possible from all FM and FM-stereo broadcasts.*

*Every antenna is built to withstand strong winds, icing, and extreme temperatures. Factory assembled for easy installation. See what you've been missing!*

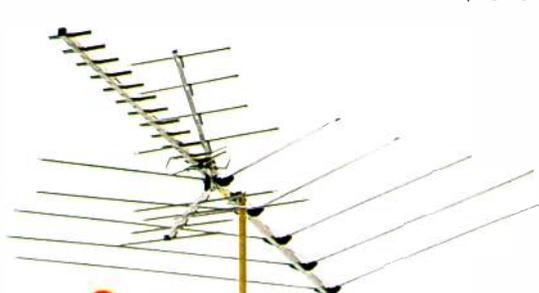
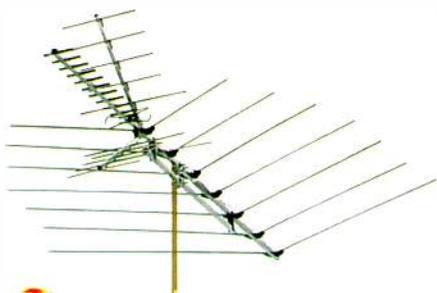


**NEW Rural VHF/UHF/FM antenna**

**VU-190 XR.** 160" boom length and 57 receiving elements. Picks up VHF broadcast signals from as far away as 190 miles\*—UHF/FM from 100 miles away\* or more. Preassembled for easy installation. **15-2156 ..... 99.99**

**NEW Long-range VHF/UHF/FM antenna**

**VU-160 XR.** Pulls in VHF signals from 160 miles\* away—UHF/FM from 100 miles away\*. Your television or FM receiver will seem to work better with a cleaner, more powerful signal. 140" boom length and 42 elements. Preassembled. **15-2155, 79.99**



**NEW Mid-range VHF/UHF/FM antenna**

**VU-120 XR.** Improved design! Allows reception of VHF signals from 120 miles\* away—UHF/FM from broadcast stations 90 miles away\*. 120" boom length and 37 receiving elements. Preassembled. **15-2154 ..... 59.99**

**NEW Suburban VHF/UHF/FM antenna**

**VU-110 XR.** Captures VHF signals from 110 miles\* away—UHF/FM from 90 miles away\*. 100" boom length with 32 elements. Built to withstand strong winds. Preassembled for easy do-it-yourself installation. **15-2153 ..... 49.99**

**Built better to last longer**



High tensile-strength aluminum for long life



Snap-open elements for "instant" assembly



UHF yagi and corner reflector combination



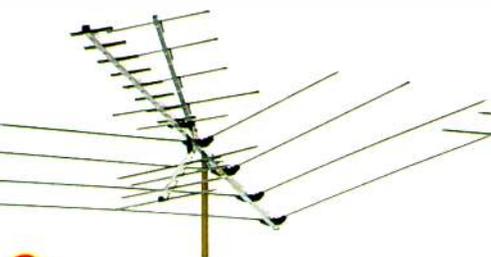
Air-insulated multiple-drive system



Strong square boom with "no-tilt" clamp



Heavy-duty, high-impact molded insulators



**NEW 3-in-one VHF/UHF/FM antenna**

**VU-90 XR.** Receives VHF signals from 90 miles\* away—UHF/FM from 70 miles away\*. 80" boom length with 32 elements. Perfect for metropolitan areas and surrounding suburbs. Preassembled. **15-2152 ..... 39.99**



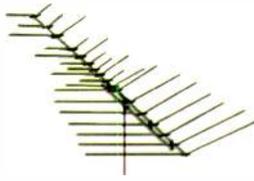
**NEW Budget VHF/UHF/FM antenna**

**VU-75 XR.** For city or suburbs. Pick up VHF signals from 75 miles\* away—UHF/FM from 50 miles away\*. 50" boom length with 18 elements. Preassembled—it's easy to install yourself and save a bundle. **15-2151 ..... 29.99**

**Select the antenna that's right for you**

Model No.	Range in Miles*			Boom Length	No. of Elements	Cat. No.
	VHF	UHF	FM			
VU-210 XR	210	135	135	190"	58	15-2157
VU-190 XR	190	100	100	160"	57	15-2156
VU-160 XR	160	100	100	140"	42	15-2155
VU-120 XR	120	90	90	120"	37	15-2154
VU-110 XR	110	90	90	100"	32	15-2153
VU-90 XR	90	70	70	80"	32	15-2152
VU-75 XR	75	50	50	50"	18	15-2151
LP-210 XR	210	210	210	180"	57	15-2166
LP-190 XR	190	190	190	150"	51	15-2165

\* Estimated ranges, based on reception over flat and open terrain. Masts not included. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.



**Our best VHF/FM stereo**

Picks up signals up to 185 miles\* VHF, 110 miles\* FM. Swept-wing design provides crisp reception of channels 2-13 and FM stereo. Reinforced 160" cradle-boom with 34 elements. Comes preassembled for easy installation. 15-2158 ..... 69.99



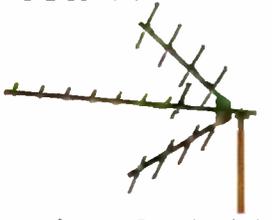
**Our finest antenna for UHF reception**

UHF reception from up to 120 miles\*. 34 elements—specially tuned for precise band coverage of channels 14-69. The heavy-duty 100" square boom resists high winds. Not designed for VHF-TV or FM. Preassembled for easy-do-it-yourself installation. 15-2162 ..... 39.99



**For far-and-away UHF stations**

For distant UHF stations. Up to 100 miles\* UHF. Corner reflector yagi concentrates signal to improve the long-range reception of channels 14-69. Has 26 elements on the 80" square boom. Not for VHF-TV or FM. Comes preassembled. 15-2161 ..... 29.99



**Our lowest priced UHF**

Receives signals up to 75 miles away.\* UHF. Narrow pick-up pattern helps "tune-out" interference. For urban/suburban use on channels 14-69. Has 17 elements, 60" boom. Not designed for VHF-TV or FM. Preassembled. 15-2160, 19.99



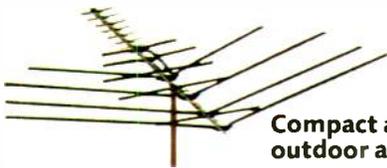
**FM stereo antenna**

A real budget pleaser. A low, low price to pay for improved FM and FM stereo reception in city or suburban areas. 360° pickup pattern—pulls in signals from up to 50 miles\*. Comes preassembled from the factory. 15-2164 ..... 14.99



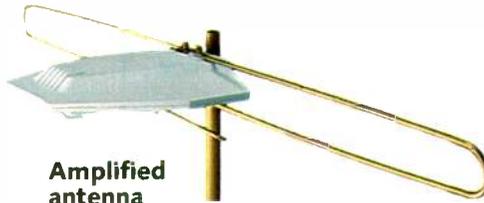
**High gain FM-stereo antenna**

Increase your FM radio's reception range. Triple-drive, high-gain, directional antenna picks up signals from stations as far away as 110 miles. 12 elements. Can be attic-mounted without loss of signal. Preassembled. 15-2163 ..... 19.99



**Compact attic or outdoor antenna**

Highly efficient, 22-element design. Outstanding reception of VHF channels 2-13 and UHF channels 14-69 and FM-stereo. 70" boom can be attic mounted or in any small space. 15-2159 .. 39.99



**Amplified antenna**

Compact size Boosts UHF signal by 25 dB, VHF/FM by 20 dB With mounting hardware, UL listed AC adapter and DC adapter jack. 15-1611, 54.99 DC adapter. 270-1534 ..... 5.99



**Mobile VHF/UHF dipole antenna**

Let your passengers enjoy their favorite broadcast television programs while traveling. It quickly installs on window or gutter and removes in seconds. Outside-mounted fiber glass dipoles outperform built-in antennas. 15-1609 ..... 29.99

**NEW Long Range Design For Improved Signal Strength**



**Long-range outdoor antenna**

LP-210 antenna. One of our best VHF/UHF/FM antennas. Featuring advanced log periodic design that produces a visibly improved picture and adds much greater depth to FM-stereo broadcasts. Receives VHF/UHF/FM signals from distances of over 210 miles\*. Extra-long 180" boom with 57 receiving elements. 15-2166 ..... 129.99



**Magnetic-mount mobile TV antenna**

Our best mobile VHF/UHF antenna. It's sleek and aerodynamic, and mounts magnetically or permanently on roof or rear deck. Can be painted to match vehicle. With 14-ft. coax cable and 300-ohm matching transformer. 15-1614 ..... 49.99



**Portable amplified TV/FM antenna**

For home or road—the pocket-size solution for poor reception. Built-in amp boosts television and FM signals. With UL listed AC adapter. Amplifier requires 2 "AA" batteries for portable operation. 15-1607 ..... 24.99



**Sensational signal snatcher**

LP-190 antenna. For improved picture on VHF/UHF bands plus FM-stereo reception that bar or "T" indoor antennas can't even begin to match. Advanced log periodic design receives VHF/UHF/FM signals from distances of over 190 miles\*. Extra-long 150" boom with 51 receiving elements. Preassembled for easy installation. 15-2165 ..... 99.99



**Multi-use amplified omnidirectional**

Receives TV signals from different directions—no rotator needed. Ideal for home use, RVs, trailers, even boats. Built-in amplifier boosts VHF signals up to 15.5 dB and UHF signals up to 19.5 dB for terrific reception. An FM trap filters out interference. UV-protected against weathering. Not for FM reception. Includes antenna, power supply and all mounting hardware. 15-1618 ..... 99.99 RV Mount and DC Power Supply. Available on special-order. (CMC) 15-2302 ..... 24.99



**Antenna rotator system**

Aims antenna for the clearest TV and FM signals. Direction indicator. Fits 1 1/4" to 1 3/4" masts. UL listed AC. Requires 3-conductor cable. (TSP) 15-1225 ... 64.99

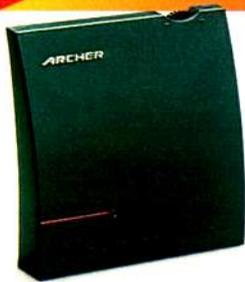
**We have the rotator cable you need**

No.	Cond.	Feet	Cat. No.	Per Roll
3		50	15-1149	5.49
3		100	15-1150	8.99
5		100	15-1201	13.39

Note. 5-conductor cable is for older, discontinued models.

\*Estimated range, based on reception over flat and open terrain / masts not included Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-5-HACK for details.

# Big selection of indoor antennas for TV and FM.



### Amplified FM antenna with AM

Compact, attractive and effective. Low-noise FM amplifier has gain control for best reception of weak or strong FM signals. Positionable for best AM. Includes UL listed AC adapter, matching transformer. Connects in seconds to any receiver with antenna terminals. 4 7/8" high. **15-1832, 39.99**



### High-gain amplified TV/FM

**Color Supreme® 200.** Up to 20 dB boost. Normal/boost switch prevents overloading from strong signals. 12-position fine tuning control. Rotary control steers elements. 3-ft. 75-ohm (round) cable for hookup to cable-ready TVs/VCRs plus 300-ohm terminals for flat wire. Includes UL listed AC adapter. **15-1831 . . . 59.99**



### NEW Amplified TV/FM antenna

**Color Supreme 190.** Boosts signals 12 dB. Normal/boost switch to prevent overloading by strong signals. Has 12-position fine tuning. Rotary control positions rod and dish elements without moving base. Has color-coded 300-ohm (flat wire) leads plus 75-ohm terminal for use with round cable (extra). Includes UL listed AC adapter. **15-1834, 49.99**



### NEW TV/FM amplified antenna

**Color Supreme 170.** Up to 10 dB signal gain. Normal/boost switch helps prevent overload on strong signals. Wall mounts with included hardware. 12-position fine-tuning control. Has 3-foot 75-ohm (round) cable for easy, instant hookup to cable-ready TVs and VCRs. Includes UL listed AC adapter. **15-1828 . . . . . 39.99**



### Rotatable TV/FM antenna

**Color Supreme 150.** Rotary control allows you to position VHF and UHF elements without turning base. 12-position fine-tuning control helps sharpen reception and minimizes "ghosts". Has color-coded 300-ohm (flat wire) leads for hookup to UHF and VHF antenna terminals on TV or VCR. **15-1826 . . . . . 29.99**



### Rotatable TV/FM antenna

**Color Supreme 100.** Rotary control lets you steer the VHF and UHF elements without turning base. 12-position fine-tuning control optimizes reception. Includes 3-foot 75-ohm (round) cable for instant hookup to cable-ready TVs and VCRs. Also has 300-ohm VHF and UHF terminals for flat-wire hookup to older sets. **15-1825, 24.99**



### Compact amplified FM antenna

Low-noise, high-gain FM amplifier boosts FM signals. Fine-tuning control lets you zero in on difficult-to-receive stations. High/low gain switch prevents overloading on strong signals. 75-ohm output. Easily connects to FM receiver. Includes UL listed AC adapter. **15-1833 . . . . . 29.99**



### FM antenna with phasing control

Low-cost way to improve the performance of any stereo FM receiver or FM radio that has antenna terminals. Delivers a much stronger signal than built-in antennas. Phasing control helps reduce multipath distortion. 300-ohm (flat wire) output. Connects in seconds. **15-1823 . . . 12.99**



### Adjustable TV/FM antenna

**Color Eagle® 100.** Features adjustable UHF elements and a fine-tuning control to help optimize VHF/FM signals and cut "ghosts." Can be wall-mounted with included bracket. Has color-coded 300-ohm (flat wire) leads for hookup to UHF and VHF screw terminals on TV or VCR. **15-1808 . . . . . 19.99**



### TV/FM antenna with UHF reflector

**Color Eagle.** Adjustable UHF-TV reflector dish plus a 12-position rotary fine-tuning control to improve signal quality on VHF-TV and FM stereo. Has color-coded 300-ohm (flat wire) leads for quick hookup to TV's UHF and VHF terminals. **15-1807 . . . . . 15.99**



### Big-value TV/FM antenna

Combines 36" -long telescoping VHF/FM rod elements and a specially designed loop for UHF-TV. 12-position fine-tuning control helps minimize "ghosts". Felt-cushioned base. Color-coded 300-ohm (flat wire) leads for hookup to TV's VHF and UHF terminals. **15-1819 . . . . . 10.99**



### Budget VHF/UHF antenna

Improve your TV reception at low cost. Features polished chrome telescoping VHF elements. The 12-position rotary fine-tuning control helps minimize "ghosts". Felt-cushioned base. Color-coded 300-ohm (flat wire) leads for hookup to TV's VHF and UHF terminals. **15-1806 . . 8.99**



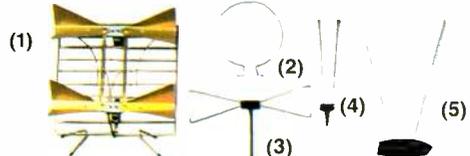
### NEW Plug-in whole house TV/FM antenna

Converts the AC wiring in your home or apartment into a giant, highly effective antenna for TV and FM radio reception. Perfect for strong-signal areas, it eliminates the need for set-top or outdoor antennas. Covers all TV channels 2-69 and FM. Easy to install—just plug into AC outlet and connect to your TV, VCR and/or FM receiver. 75-ohm output. Requires 75-ohm (round) cable for hookup to your set—see our selection of ready-to-use cables on page 106. You may also need a matching transformer or a UHF/VHF/FM splitter which are described on page 107. **15-1835, 12.99**



### Amplifier for indoor TV/FM antenna

Converts set-top antenna into an amplified antenna for UHF/VHF-TV/FM. 10 dB boost. LED "on" light. Installs in minutes. 300-ohm (flat wire) input. Flat wire leads for TV/VCR. UL listed AC adapter. **15-1104, 19.99**



### TV reception problem-solvers

- (1) UHF double bow-tie. Dual-element UHF set-top antenna outperforms loops. **15-623 . . . 15.99**
- (2) UHF loop. Replacement for missing back-of-set UHF loop antenna. **15-233 . . . . . 1.79**
- (3) UHF outline bow-tie. Super-easy to install—snaps on VHF antenna rod. **15-234 . . . . . 2.79**
- (4) VHF dipole. Exact replacement for many back-of-set snap-in VHF-TV antennas. Rotatable telescoping elements. **15-235 . . . . . 4.99**
- (5) Classic VHF-TV/FM top-of-set antenna. Adjustable telescoping rod elements. Base features a protective anti-skid material. **15-1827 . . . . . 5.99**



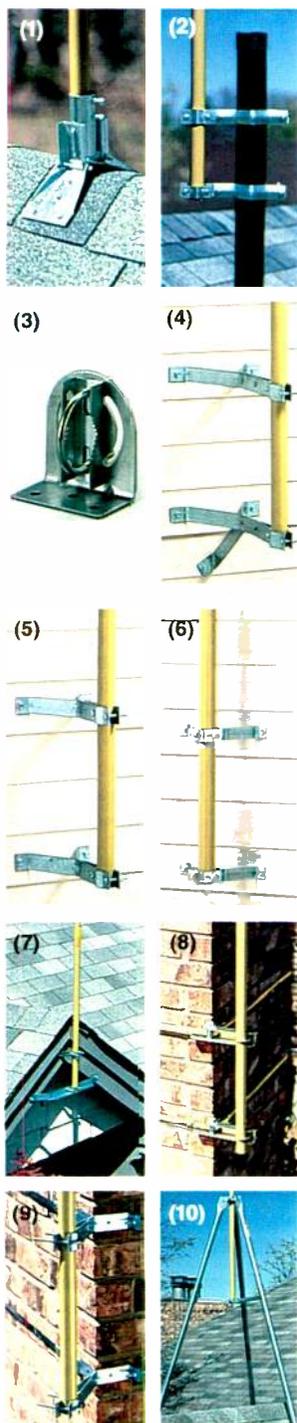
### Back-of-set VHF dipole antenna

Easy way to replace broken or missing rod elements. Mounts on back of TV and connects to VHF antenna terminals. With instructions. **15-1804 . . . . . 7.99**

NOTE: VHF (very high frequency) is TV channels 2 through 13. UHF (ultra high frequency) is TV channels 14 through 83.

## Everything you need to do it yourself

Radio Shack stocks the quality masts, mounts and hardware required for a long-lasting outdoor antenna installation. Come in today and we'll help you select what you need.



### Mast mounts for roof, vent pipe, chimney, eaves and wall

(1) **Base and roof mount.** Mast locks into exclusive-design U-bolt. The swivel base fits the slope of virtually any roof. Heavy-gauge steel for long, trouble-free service. 15-889 ..... 7.99

(2) **Vent pipe mount.** An alternative to chimney mounting for small antennas. Attach brackets to vent pipe, then clamp mast into place. For 2" to 5" vents. Heavy-duty steel. 15-893 ..... 6.99

(3) **Universal mast anchor mount.** The low-cost solution for many antenna installations. Heavy-duty U-bolt for easy swivel. For masts up to 1 1/2" in diameter. (Mast must be guyed for roof and window installations.) 15-888 ..... 3.99

(4) **12" wall mounts.** Secures a mast of up to 1 3/4" diameter at 12" from the side of building. Allows mast to clear eaves or other obstruction. Galvanized steel. 15-885 ..... Pair 12.99

(5) **8" wall mounts.** Holds mast of up to 1 3/4" diameter at 8" from side of building. 15-886 ..... Pair 9.99

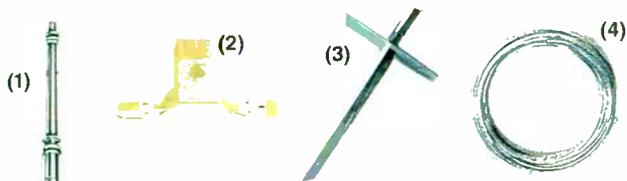
(6) **4" wall mounts.** Holds mast of up to 1 3/4" diameter at 4" from side of building. 15-883 ..... Pair 4.99

(7) **Eaves mount for hanging rafters or trim boards.** An alternative to roof and chimney mounting. Fits virtually all medium-pitch roofs. Accepts mast to 1 1/2" diameter. Includes four lag bolts. 15-891 ..... 9.99

(8) **Chimney ratchet mount.** Provides secure mounting to chimney. Tightens with screwdriver. Set includes two stainless steel straps, each 5/8" x 18 feet. Fits larger chimneys. Accepts antenna mast 1" to 1 3/4" diameter. 15-839 ... 17.99

(9) **Corner mounts.** Just the thing for chimney mounting. Two Y-mounts with 5/8" x 10-foot, rust-resistant galvanized straps. 15-527 ..... 11.99

(10) **3-foot tripod mount.** Perfect for larger antennas and in areas subject to frequent strong winds. Fits slope of most roofs. Accepts antenna mast up to 1 3/4" diameter. Preassembled. 15-516, 15.99



### Telescoping antenna masts, roof base and ground mount

(1) Raises your antenna for stronger TV and FM reception. Sturdy interlocking sections will not pull out, twist or shake. Corrosion resistant galvanized steel construction. Clamp and guy wire ring provide firm support.

**19-foot mast.** Includes one 16-gauge, one 18-gauge section. 15-5065 ..... 39.99

**36-foot mast.** Includes one 16-gauge, three 18-gauge sections. 15-5067 ..... 64.99

(2) **Roof base.** With bolt. 15-5068 ... 6.99

(3) **Antenna ground-mount.** Heavy-duty tap-in ground mount for antenna masts up to 36 feet tall. 15-5069 ..... 9.99

(4) **Guy wire.** Galvanized 6-strand, 18-gauge. 100 feet. 15-5070 ..... 7.99



### Heavy-duty masts

5-foot. 16-gauge steel, enamel finish. 1 1/4" dia. 15-842 .. 5.99

10-foot mast. 15-843 .. 11.49

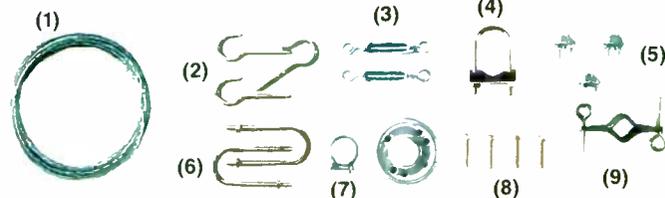
### Light-duty mast

5-foot. 20-gauge steel. Enamel finish. For use in attic or with smaller antennas. 15-844, 5.29



### Standoff insulators

Fig.	Description	Cat. No.	Each
1	4 Wood Screw, 3 1/2"	15-853	1.29
2	4 Wood Screw, 6 1/2"	15-854	1.29
3	2 Masonry Type	15-820	1.29
4	2 Snap-Grip Type	15-822	1.29
5	2 Strap-On Type	15-823	1.29



### Galvanized guy wire, wire anchors, turnbuckles, U bolts, clamps, guy ring, lag bolts and additional hardware

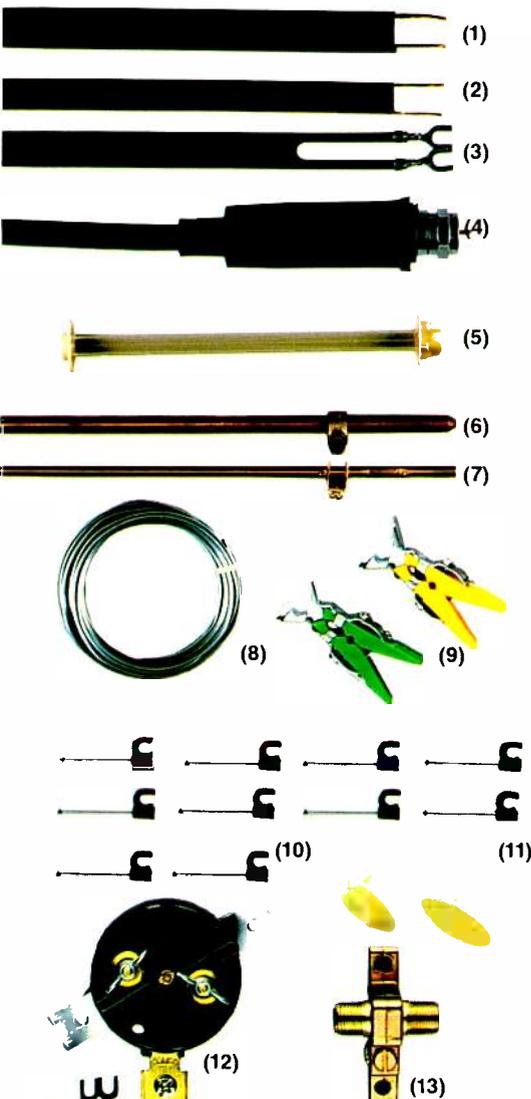
Fig.	Description	Cat. No.	Each	Fig.	Description	Cat. No.	Each
1	50-Foot Galvanized Wire	15-0311	1.99	6	2 U-Bolts With Nuts	15-830	1.29
2	100-Foot Galvanized Wire	15-03	2.99	7	1 1/4" Guy Ring and Collar	15-835	1.59
3	3 Guy Wire Anchors	15-825	1.29	8	Set of 4 Hex Lag Bolts: 1/4" x 2 1/2" for Heavy-Duty Mounting	15-833	1.29
4	2 Guy Wire Turnbuckles: 6" open, 4" closed	15-829	1.79	9	Guy Wire Mast Clamp With Bolts	15-827	1.29
5	U-Bolt and Clamp	15-826	1.29				
6	3 Guy Wire Clamps	15-850	1.29				

### 25-foot strap kit

Two 25-foot stainless steel straps for replacement or add-on. Ideal for large chimneys. Each is 5/8" x 25-ft. With four eye bolts, mtg. hardware. 15-801 .. 12.99

Prices apply at participating stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability). Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE SHACK for details.

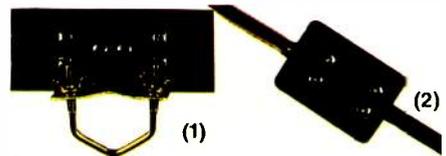
**Antenna installations are a snap with the correct hardware**



- (1) VHF/UHF 300-ohm foam cable. Low loss, with 20-ga. copper conductors and polyethylene jacket. 50 Feet. 15-1174 . . . . . 5.99  
100 Feet. 15-1175 . . . . . 9.99
- (2) Economy VHF/UHF 300-ohm cable. Lighter weight cable than (1). Indoor use. 40 feet. Brown. 15-004 . . . . . 2.49  
40 feet. Clear. 15-1158 . . . . . 2.49  
50 feet standard 300-ohm twin-lead. Indoor/attic use. 15-1153 . . . . . 3.59
- (3) 8-foot twin-lead cable. 15-1532, 2.49
- (4) Shielded 75-ohm VHF/UHF foam coax assemblies. Prewired F connector at ends. 50 feet. 15-1526 . . . . . 9.99  
100 feet. 15-1527 . . . . . 15.49
- (5) "Wall-thru" lead-in tube. Seals walls up to 13" thick. 15-1200 . . . . . 2.79
- (6) UL listed 8-foot ground rod and clamp. Copper plated. 15-529 . . . . . 15.99
- (7) Economy ground rod. 4-ft. long. 15-530 . . . . . 7.99
- (8) Aluminum ground wire. Inhibits static buildup in rooftop antennas. 40 feet. 8 gauge. Use with ground rod (fig. 6). 15-035, 3.79
- (9) TV/FM antenna clips. Instant connect and disconnect of 300-ohm lead-ins at back of set. For temporary connections or service work. 15-832 . . . . . Set of 2/1.49
- (10) Coax nail-in clips. Weather-resistant clips secure 75-ohm coax cable along outside trim or interior baseboards. 20-192 . . . . . Set of 10/99¢
- (11) Coax feed-through bushing. For installation of coax cable through walls. For RG59 cable. 278-1643, Pkg. of 2/99¢  
For RG6 cable. 278-1644, Pkg. of 2/99¢
- (12) Antenna discharge unit. For antennas using 300-ohm lead-in. 15-910 . . . . . 3.49
- (13) Grounding block. Prevents static buildup in 75-ohm lead-in. 15-909 . . . . . 2.59

**TV/game switches**

- 300-ohm TV switch**  
Switches from video games to TV without reconnecting. Accepts 300-ohm TV antenna lead-in. Has 300-ohm TV output. 15-1255 . . . . . 4.49
- 300-ohm antenna input switch**  
Makes it easy to switch between TV antenna and video game. Has 300-ohm TV output. Accepts 75-ohm or 300-ohm antenna lead-in. 15-1269 . . . . . 4.49
- 300/75-ohm signal/splitter switch**  
TV/video game switch with built-in signal splitter. Provides 300-ohm output for UHF, 75-ohm output for VHF. 15-1268 . . . . . 6.49



- Get more from your antenna**
- (1) Two-set indoor/outdoor splitter/coupler. Splits 300-ohm lead-in to two TVs. Reversible. 15-1135 . . . . . 3.59  
Four-set in/outdoor splitter/coupler. 15-1136 . . . . . 4.59  
VHF/UHF combiner/splitter. 300 ohm's. 15-1137 . . . . . 3.59
- (2) Indoor splitter. Splits UHF/VHF/FM outputs from one 300-ohm downlead. 15-1138 . . . . . 3.99



- Automatic switching**  
Auto TV/video game switcher. Change video inputs. 75-ohm in/out. 15-1267, 8.99

**Video Hookups**

Everything you need to do a successful installation  
If you're adding an outside antenna, a cable outlet, or a phone jack—ask us! Our salespeople will help you make the right connections.



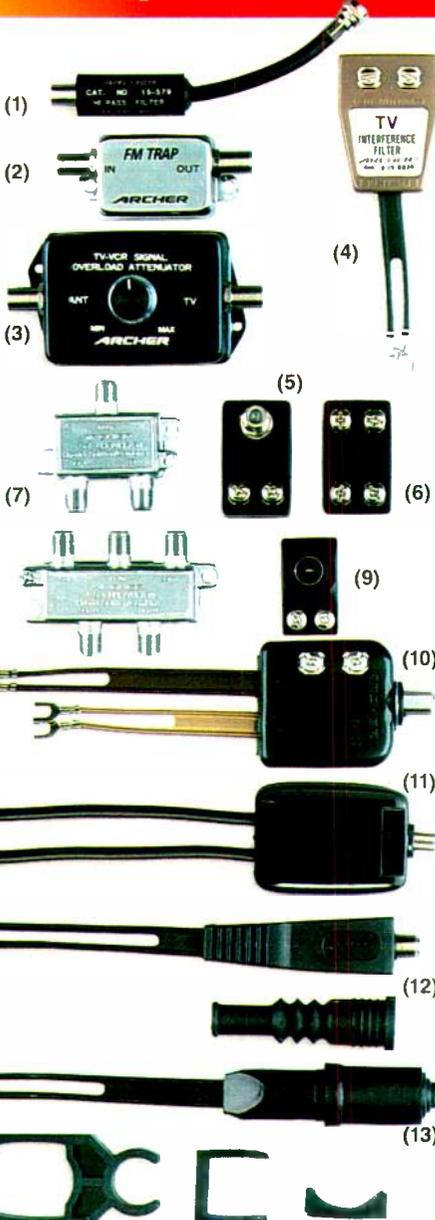
- Plugs, switchplates, cords and more!**
- (1) Private TV listener. Fits 1/8" headphone jack. With earphone, convenient remote volume control and extra-long 15-foot cord. 15-587 . . . . . 4.29
- (2) TV AC power cord. Six feet long. Replace lost or frayed cords. 15-011 . . . . . 1.49
- (3) Wall plate for 75-ohm coax. A great finish to your installation. 15-1180 . . . . . 4.29
- (4) Wall plate for 75-ohm coax and rotator. 5-wire rotator outlet. Includes plugs. 15-1181 . . . . . 4.99
- (5) Wall plate for 75-ohm coax and phone. Standard modular phone jack and gold-plated coax connector. 15-1185 . . . . . 5.99
- (6) Woodgrain 75-ohm wall plate. Adds style and covers mistakes. 15-1183 . . . . . 4.49
- (7) 75-ohm dual-outlet wall plate. For custom video installations. 15-1184 . . . . . 4.69
- (8) Flush-mount TV antenna wall plate. For one 300-ohm lead-in. Includes mounting bracket and plugs. 15-1186 . . . . . 2.39
- (9) Baseboard mount 75-ohm coax connector. Miniature space-saving size. Includes installation hardware. 15-1182 . . . . . 3.29
- (10) TV/wall-socket plugs. For 300-ohm lead-in plate. Fit fig. 8. 15-1178, Pkg. of 2/1.49
- (11) Plug and socket. For 300-ohm lead-in connections. Ideal for splicing and extending a 300-ohm cable indoors. 15-1198 . . . . . 1.49

**We have a wide selection of TV, VCR, and FM problem-solvers.**

# Video Hookups

"How do I connect this to that?" We've got answers.

We stock a full line of splitters, filters, cables, connectors and switchers that take the hassle out of video connections.



- (1) VCR/TV/FM filter. Cuts CB/Ham interference. Installs at 75-ohm coaxial input of VCR, TV or FM. 54-900 MHz. 15-579, 4.29
- (2) Coaxial inline FM trap. Cuts FM interference. Reduces "herringbone" pattern. For 75-ohm line. 15-577 ..... 3.79
- (3) 75-ohm inline attenuator. Reduces signal overload on TV or VCR. Adjustable for best picture. 15-578 ..... 6.49
- (4) TV static/noise filter. Reduces appliance, motor or neon interference. Attaches to 300-ohm terminals. 15-582 ..... 1.99

**Splitters/combiners and matching transformers—get the picture!**

- (5) Mini VCR/TV splitter/combiner. 300/75-ohm inputs, 75-ohm output. 15-1296 ..... 3.49
- (6) Mini 300-ohm splitter. As above, but only 300-ohm inputs. 15-1297 ..... 3.49
- (7) Hybrid splitter/combiner. Splits 75-ohm coax cable to two VHF/UHF outputs. F-connectors. Reversible. 15-1141 ..... 3.99
- (8) Four-set hybrid splitter. As (3) above, but with four outputs. 15-1142 ..... 6.99
- (9) Matching transformer. 75-ohm to 300-ohm. 15-1253 ..... 2.99
- (10) Transformer/splitter. 75-ohm input, three 300-ohm outputs. Not weather resistant—indoor use only. 15-1139 .. 4.99
- (11) Signal splitter. 75-ohm to 75-ohm VHF/UHF outputs. 15-1293 ..... 4.99
- (12) Indoor/outdoor matching transformer. Matches 300-ohm antenna to 75-ohm coax download. Reverse for back-of-set use. Weather-resistant boot. 15-1140 .... 2.79
- (13) Antenna-mounted matching transformer. As above, clips to antenna boom. 15-1143 ..... 3.99

**Coax cable and adapters**

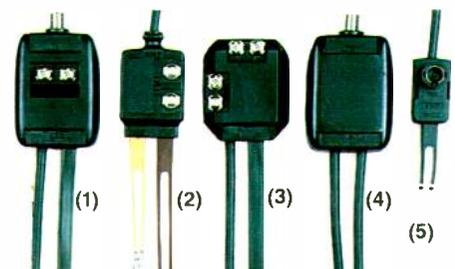
If you don't find what you need here, Radio Shack can custom-cut cable to meet almost any need.

Fig	Description	Connectors	Cat No	Each
14	Mini-TV Antenna Cable, 6 Ft.	1/8" Plug/Male F	15-1511	4.99
15	75-Ohm Coax, 16 Ft. White	Male F Screw Type	15-1531	4.99
15	75-Ohm Coax, 25 Ft. White	Male F Screw Type	15-1534	6.49
16	75-Ohm Coax 8 Ft	Male F/Motorola	15-1528	3.59
17	75-Ohm Coax, 8 Ft.	Male F Push-On	15-1530	3.59
17	75-Ohm Coax 4 Ft	Male F Push-On	15-1529	2.79
18	75-Ohm Coax, 6 ft.	Male F Push-On	15-1536	2.99
19	F-81 Coupler	Female F/Female F	278-213	.99
20	Push-On Adapter	Female F/Male F	278-218	1.49
21	Right Angle Adapter	Female F/Male F	278-221	1.49
22	Coupler	Male F/Male F	278-219	1.29
23	Adapter	Female F/Miniplug	278-257	2.19
24	75/300 Ohm Adapt.	1/8" Miniplug	15-1148	1.49

- Mini A/B video switch**  
Two 75-ohm inputs to one 75-ohm out. 15-1247 ..... 4.99
- VCR/TV/FM switch**  
Two 75-ohm inputs to one 75-ohm out. 15-1246 ..... 4.99
- A/B high-isolation**  
Helps prevent strong signal interference. 75-ohm out, two 75-ohm inputs. 15-1249 ..... 6.99
- A/B/C switch**  
High isolation. Prevents interference. 75-ohm output, three 75-ohm inputs. Reversible. 15-1248 ..... 10.99
- Terminating resistor**  
F-type, 1-2 watt, 75-ohms. 15-1144 ..... Pkg. of 2/1.29
- 75-ohm DC block**  
Protects against stray DC voltages. 15-1259 ..... 1.49
- Inline 6dB attenuators**  
75-ohm. Female F. 15-1258 ..... 2.29  
75-ohm. Male F. 15-1257, 2.29

**VCR/TV signal splitters for 300 and 75-ohm hookups**

- (1) 75-ohm input. One 75-ohm output for VHF. 300-ohm outputs for UHF and FM. 15-1252 ..... 4.99
- (2) 75-ohm input. Three 300-ohm outputs. F-connector. 6-ft. cable. 15-1524 ..... 5.99
- (3) 300-ohm input. 75-ohm output for VHF. 300-ohm outputs for UHF/FM. 15-1251 ..... 4.99
- (4) 75-ohm input. 75-ohm VHF and UHF outputs. 15-1293 ..... 4.99
- (5) 75-ohm input. 300 and 75-ohm outputs. F-connector. 6-ft. cable. 15-1522, 4.99



**Video RF modulator**  
Converts line-level signals to VHF. 1000/75-ohm inputs. 75-ohm out. FCC registered. UL listed AC. 15-1273 ..... 27.99



**AC interference filter cuts "snow"**

Inline filter. Cuts snow and other TV interference caused by household appliances. With grounded 3-prong AC plug and 3-prong outlet. UL listed AC. 15-1111 ... 12.99



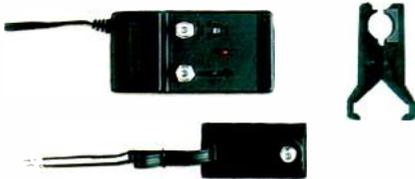
**2-way, 70-channel cable amp**

Connects your antenna or cable to any two video receivers without loss of picture quality. Especially helpful in long cable runs, when signal is split to several devices, or when the original signal is too weak to produce a good picture at the receiving unit. Variable gain control boosts signals up to 20 dB for better picture and sound. Also reduces overload reception. Easy installation with the included instructions. UL listed AC. **15-1960** ..... **26.99**



**70-channel cable TV amplifier**

Perfect for strengthening signal on installations with long cable runs or when the signal is too weak to produce a good picture at the receiving unit. Variable gain control lets you boost signal up to 20 dB. Also prevents damaging signal overload. Can be used with hybrid splitters (see #15-1142) to drive up to four TVs or VCRs. UL listed AC. **15-1112** ..... **29.99**



**Three-piece TV/FM hi-gain signal amp**

Delivers a typical gain of 25 dB VHF and 20 dB UHF for a better picture. Outdoor amp mounts on mast near antenna. Gain adjustable over 10 to 20 dB range. Remotely controlled FM trap cuts interference. 75-ohm output and F-connectors. UL listed AC. **15-1108** ..... **39.99**



**75-ohm coax cable distribution amp**

Drives up to four sets while delivering a typical gain of 14 dB VHF and 13 dB UHF for improved picture. Cuts VHF/UHF/FM signal loss caused by sharing signal among several TV sets or by long antenna cable runs. Adjustable from 10 to 20 dB gain. Switchable FM trap. UL listed AC. **15-1107** ..... **34.99**



**3-set A/V distribution amplifier**

Lets you split the video and stereo audio output signals from a VCR or other video source to as many as three other VCRs or monitors without signal loss. Makes it easy to make up to three copies of your favorite camcorder tapes at the same time. Helps prevent signal loss from long cable runs. Drives up to three audio/video components. UL listed AC. **15-1103** ..... **29.99**



**VHF/UHF/FM signal amplifier**

Helps end problems with weak signals and ghosts. Variable gain control boosts weak signals up to 20 dB and reduces overload signals to a safe level. Also useful when signal is sent through long cable runs or when the signal is split to many devices. Switchable FM trap feature cuts FM interference on your video units. Can be used with hybrid splitters to drive up to four TVs or four VCRs. UL listed AC. **15-1113** ..... **24.99**



**Two-set amp coupler**

Improve your TV, cable or FM reception. Boosts incoming signal from VHF, FM mid and superband cable TV to drive any combination of two TVs, VCRs or FM sets. Cuts signal loss on long cable runs. UL listed AC. **15-1116** ..... **13.99**



**10 dB booster-amp**

Strengthens signal from VHF, FM mid and superband cable TV for better reception. Will also work with a VCR, a video disc player or a video game for a sharper image. UL listed AC. **15-1118** ..... **12.99**



**Four-set amplified coupler**

Boosts VHF, FM, mid and superband cable TV signal to drive any combination of four TVs, VCRs or FM sets. Lets you use one antenna or cable box for the whole house. Cuts signal loss on long cable runs or when signal is split to more than one receiving unit. Has one 75-ohm input terminal and four 75-ohm output terminals. For TVs that have only 300-ohm terminals, a 300-to-75 ohm matching transformer (15-1140) is needed. UL listed AC. **15-1119**, **15.99**



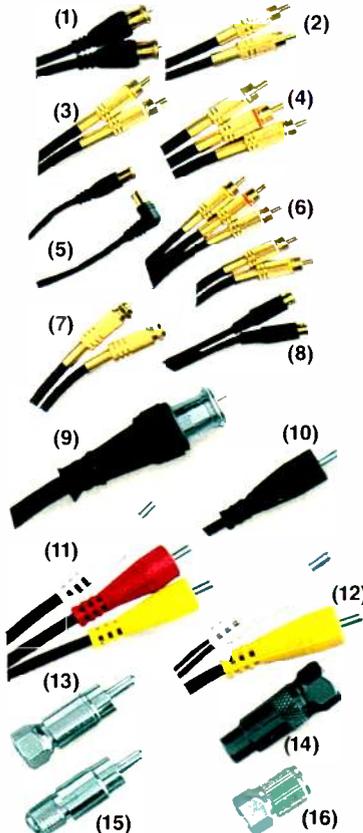
**10 dB inline coax amp**

"Bullet"-type amplifier connects in-line near antenna for maximum benefit and best reception. Reduces VHF/UHF/FM signal loss due to splitters, transformers and long cable runs. UL listed AC. **15-1117** ..... **17.99**

**Gold—for the best TV, VCR, FM and stereo connections**

**Premium-grade gold-plated A/V dubbing kit**

Get true, accurate dubs every time. Includes two F-type to phono jack and two 1/8" mini-plug to phono jack adapters, and 6-foot cable with phono plugs on ends. **15-1523** ..... **12.99**  
Kit With Chromium-Plated Plugs. **15-1525** ..... **6.99**



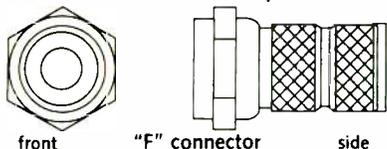
**Cables with gold-plated plugs**

Fig.	Length	Connector Type	Cat. No.	Each
1	3-Foot	Push-On F	15-1515	<b>3.99</b>
	6-Foot	Push-On F	15-1516	<b>4.49</b>
	12-Foot	Push-On F	15-1517	<b>4.99</b>
2	3-Foot	RCA Phono	15-1518	<b>4.99</b>
	6-Foot	RCA Phono	15-1519	<b>5.99</b>
	12-Foot	RCA Phono	15-1520	<b>7.99</b>
3	3-Foot	A/V Cables	15-1504	<b>8.99</b>
	6-Foot	A/V Cables	15-1505	<b>10.99</b>
	12-Foot	A/V Cables	15-1506	<b>13.99</b>
4	3-Foot	Stereo A/V Cables	15-1507	<b>10.99</b>
	6-Foot	Stereo A/V Cables	15-1508	<b>12.99</b>
	12-Foot	Stereo A/V Cables	15-1509	<b>16.99</b>
5	3-Foot	Right-Angle Push-On F	15-1513	<b>3.99</b>
	6-Foot	Right-Angle Push-On F	15-1514	<b>4.49</b>
6	3-Foot	RCA Phono (Video Dubbing Cable Set—Stereo to Mono)	15-1521	<b>9.99</b>
	6-Foot	RG6 F-Screw Type	15-1541	<b>6.99</b>
7	6-Foot	RG6 F-Screw Type	15-1542	<b>7.99</b>
	12-Foot	RG6 F-Screw Type	15-1543	<b>9.99</b>
	6-Foot	<b>NEW!</b> S-Video	15-1510	<b>12.99</b>
8	12-Foot	<b>NEW!</b> S-Video	15-1503	<b>16.99</b>

**Cables, connectors and adapters for A/V hookups**

Fig.	Description	Cat. No.	Each
9	2-Foot Coax Cable, Male Push-On Connectors	15-1533	<b>2.69</b>
	2-Foot VCR A/V Cable, Phono Connectors	15-1538	<b>2.99</b>
10	6-Foot VCR A/V Cable, Phono Connectors	15-1535	<b>3.99</b>
	12-Foot VCR A/V Cable, Phono Connectors	15-1539	<b>4.99</b>
	6-Foot Stereo A/V Cable, 3 Phono at Each End	15-1537	<b>6.99</b>
11	12-Foot Stereo A/V Cable, 3 Phono at Each End	15-1512	<b>8.99</b>
12	Dual 24-Foot A/V Cable, Phono Connectors	15-1540	<b>8.99</b>
13	Adapter, Male F-Connector to Phone Plug	278-253	<b>1.99</b>
14	Adapter, Male F-Connector to Female Phono Jack	278-255	<b>1.39</b>
15	Adapter, Female F-Connector to Phone Plug	278-252	<b>1.39</b>
16	RCA Plug to Jack	278-290	<b>1.99</b>

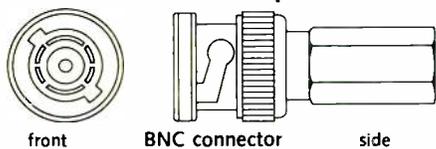
## 75-ohm connectors for TV, VCR and FM



- (1) QS-56. For RG6QS quad-shield cable. 278-232 Pkg. of 2/99¢
- (2) Gold-plated CF-59. For RG-59 cable. 278-224 Pkg. of 2/1.99
- (3) Gold-plated CF-56. For RG-6 cable. 278-225, Pkg. of 2/1.99
- (4) Twist-on CF-59. For RG-59 cable. 278-227 79¢
- NEW!** Gold-plated twist-on. 278-292 1.29
- (5) Twist-on CF-56. For RG-6 cable. 278-228 79¢
- (6) Gold-plated twist-on CF-56. For RG-6. 278-229, 1.29
- (7) Standard CF-59. For RG-59 cable. 278-222 Pkg. of 2/99¢
- (8) Standard CF-56. For RG-6 cable. 278-223, Pkg. of 2/99¢
- (9) 10-pack CF-59s. 278-230 3.99
- (10) 10-pack CF-56s. 278-231 3.99
- (11) F-59. For RG-59 cable. 278-211 Pkg. of 2/99¢
- (12) F-56. For RG-6 cable. 278-214 Pkg. of 2/99¢
- (13) F-56 crimp rings. 278-217 6/79¢
- (14) F-59 rings. 278-216 6/79¢
- (15) Solderless F-59. For RG-59 cable. 278-215 99¢
- (16) F-61. Chassis-mount F jack. 278-212 Pkg. of 2/99¢
- (17) F-81 coupler. Joins two F connectors. 278-213, 99¢
- (18) Gold-plated F-81 coupler. 278-304 1.79
- (19) Screw-on to push-on adapter. 278-218 1.49
- NEW!** Gold-plated screw-on to push-on. 278-291, 1.99
- (20) Indoor 75-ohm cable splicers. 278-226 Pkg. of 2/2.99
- (21) F male-to-male adapter. 278-219 1.29
- (22) F inline right-angle adapter. 278-221 1.49
- (23) Straight speed plug. For RG-59 U. 278-234 1.99
- Crimping tools on page 111

Fig.	Accepts	Fits	Cat. No.	Each
15	BNC Plug	F Jack	278-256	2.59
16	Phono Jack	F Jack	278-253	1.99
17	Phono Plug	F Jack	278-255	1.39
18	F Jack	Phono Plug	278-252	1.39
<b>NEW!</b> 19	Gold-Plated F Jack	Phono Plug	278-290	1.99

## BNC connectors and adapters



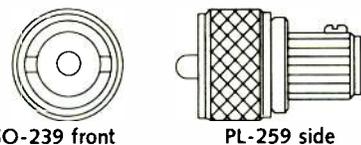
- (20) Twist-on male BNC. For RG-58 cable. 278-103, 2.99
- Above for RG-59, RG-62. 278-104 2.99
- (21) No-crimp solderless BNC male. For RG-58. 278-185 3.69
- (22) Type 1094 BNC chassis-mount jack. 278-105 1.49
- (23) Type UG-914 BNC female-to-female coupler. 278-115 1.99
- (24) BNC T-adapter. Has female-female-female configuration. 278-111 3.99
- (25) BNC T-adapter. Has female-male-female configuration. 278-112 3.49
- (26) TNC to BNC adapter. 278-144 3.99
- (27) Gold-plated BNC female to phono male. 278-301 3.99
- (28) Gold-plated BNC male to phono female. 278-303 4.19
- (29) Right-angle adapter. 278-116 3.99

Fig.	Accepts Plug	Fits Plug/Socket	Cat. No.	Each
27	Motorola	BNC	278-117	3.29
28	PL-259	BNC	278-120	3.49
29	F Male	BNC	278-251	1.99
30	Phono	BNC	278-254	2.49
31	BNC Male	Motorola	278-160	2.49

## N connectors and adapters

- (32) Male N. For RG-8 cable. 278-149 4.49
- (33) PL-259 adapter. Accepts PL-259 plug. Fits N jack. 278-156 4.49
- N-panel-mount jack. 278-152 2.99

## UHF connectors and adapters



- (1) Premium PL-259 plug. Silver-plated body and heat-withstanding, low-loss Teflon™ insulator. 278-188 3.49
- (2) Standard PL-259 plugs. 278-205 Pkg. of 2/2.99
- (3) UG-176 reducers. Use to install PL-259 plugs on RG-59 and RG-8M cables. 278-204 Pkg. of 2/99¢
- (4) UG-175 reducers. For RG-58 and RG-8M. 278-206 Pkg. of 2/99¢
- (5) No-crimp solderless PL-259 plug. For RG-58 cable. Installs with a flat-blade screwdriver. 278-186 3.29
- (6) Solderless PL-259. RG-58. 278-196, Pkg. of 2/2.49
- Above for RG-59 and RG-8M. 278-191 Pkg. of 2/99¢
- (7) SO-239 chassis-mount socket. 278-201 1.59
- (8) Double PL-259. Joins two SO-239s. For low-pass filter and other hookups. 278-192 3.99
- (9) PL-258 coupler. Joins two PL-259s. 278-1369 1.69
- (10) M-348 T-adapter. Two SO-239 sockets to a PL-259 plug. Useful in beam antenna phasing lines. 278-198, 4.49
- (11) M-359 inline right-angle adapter. Use in tight spaces to prevent cable and jack damage. 278-199 2.79

Fig.	Accepts	Fits	Cat. No.	Each
11	BNC Plug	SO-239	278-121	2.99
12	Male F	SO-239	278-258	3.49

## Mini UHF adapters

- (13) Double-female adapter. Joins two male mini-UHF connectors. Ideal for cellular antenna hookups. 278-172 2.49

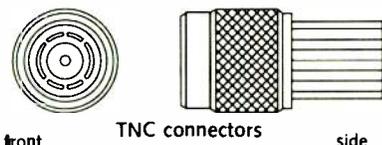
Fig.	Accepts	Fits Mini-UHF	Cat. No.	Each
14	PL-259	Female	278-174	3.99
15	TNC Male	Female	278-146	2.99

## Hard-to-find adapters

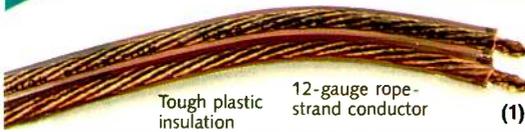
If you're having trouble finding the adapter you need for your project, then check out the selection available at Radio Shack. We have several types that other stores don't carry. And if you're not sure what you need, our sales staff will be glad to help.

- (16) Accepts male F and male BNC. 278-264 1.99
- (17) Accepts male F & phono plug. 278-263 1.49
- (18) European-TV adapter. Accepts male F. Fits PAL-type TV antenna jack. 278-261 1.49
- (19) Accepts male F. Fits 1/8" jack. 278-257 2.19
- (20) Accepts male F. Fits phono jack. 90°. 278-260 2.89
- (21) Accepts BNC plug. Fits phono jack. 278-250 2.49
- (22) European-TV adapter. Couples female F connector and female PAL. 278-265 1.49
- (23) "Scanner" adapter. Accepts a PL-259 plug. Fits Motorola-type jack. 278-208 1.99

## TNC connector/adapters

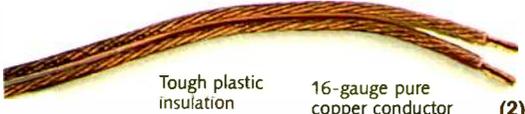


- (24) No-crimp solderless male TNC. For RG-58 cable. 278-184 3.69
- (25) Twist-on male TNC connector. For RG-58 cable. 278-140 1.99
- (26) Push-on adapter. Converts a screw-on TNC male to push-on type. 278-133 3.99
- Double-female TNC. 278-142 1.99
- Adapter. Accepts PL-259 plug. Fits female TNC. 278-118 3.49



Tough plastic insulation  
12-gauge rope-strand conductor

(1)



Tough plastic insulation  
16-gauge pure copper conductor

(2)

## Megacable® makes a difference

(1) **12-gauge Megacable.** Our best speaker cable! Rope-strand, pure copper conductors are enclosed in a tough plastic insulation with an embedded stripe for easy polarity identification. Thanks to tighter and more uniform stranding, Megacable has over five percent more copper by weight per foot than another leading brand. This higher copper content reduces resistance and power loss. More music "flows" through Megacable. The rope-strand design is more flexible than ordinary braided wire, too. **278-1268, Per Foot 99¢**

(2) **NEW! 16-gauge Megacable.** Perfect for home, public address and vehicle use. A great value! **278-1270 . . . . . 50-foot roll 16.99**

## Go with the best: Megacable terminals and connectors

The terminals and connectors below are designed for use with megacable, and can be used with other types of wire, too.



(3)

(3) **Speaker terminal plate.** For secure hookup. Recessed. Requires 2 1/8 x 2 7/8" cutout. **274-630 . . . . . 2.99**

(4) **NEW! Gold flat-pin connectors.** 24-karat gold-plated. Crimp-on. Sets include two red, two black.

Accepts Wire	Cat. No.	Set of 4
10-12 ga.	278-310	<b>2.99</b>
14-16 ga.	278-317	<b>2.99</b>

(4)



(5)

(5) **NEW! Deluxe gold pin connectors.** 24k gold-plated. Two-piece twist-on design. Sets include two red, two black.

Accepts Wire	Cat. No.	Set of 4
10-12 ga.	278-309	<b>9.99</b>
14-16 ga.	278-320	<b>9.99</b>

(6)



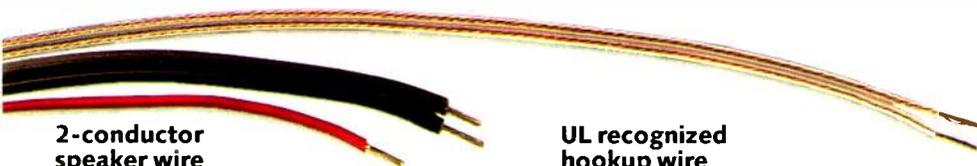
(6) **NEW! Snap-spade gold connectors.** Crimp. Sets include four red, four black.

Accepts Wire	Cat. No.	Set of 8
10-12 ga.	278-311	<b>4.99</b>
14-16 ga.	278-316	<b>4.99</b>

(7)



(7) **Terminal posts.** Special 3/4" binding posts are great for speaker hookups. One red, one black. **274-619, Set of 2/4.50**



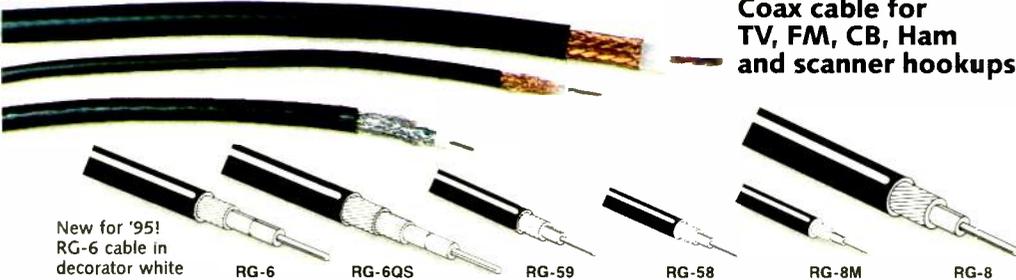
## 2-conductor speaker wire

	Gauge	Type	Feet	Cat. No.	Each
CLEAR	24	Stranded	50	278-1301	<b>3.19</b>
	24	Solid	75	278-1509	<b>3.49</b>
	22	Stranded	100	278-1385	<b>6.49</b>
	20	Stranded	75	278-1388	<b>7.99</b>
	18	Stranded	30	278-1602	<b>4.99</b>
	18	Stranded	60	278-008	<b>7.99</b>
BROWN	16	Stranded	50	278-1267	<b>8.99</b>
	20	Stranded	30	278-1101	<b>3.99</b>
	20	Stranded	100	278-1102	<b>9.99</b>
	18	Stranded	30	278-1103	<b>4.99</b>
	18	Stranded	100	278-1104	<b>13.99</b>
	16	Stranded	30	278-1105	<b>5.99</b>
	16	Stranded	100	278-1106	<b>17.99</b>

## UL recognized hookup wire

Gauge	Type	Feet*	Spools	Cat. No.	Price
18	Solid	60	1	278-1217	<b>3.99</b>
18	Stranded	55	1	278-1220	<b>3.99</b>
20	Stranded	75	1	278-1219	<b>3.99</b>
20	Solid	80	1	278-1216	<b>3.99</b>
22	Solid	100	1	278-1215	<b>3.99</b>
22	Stranded	90	1	278-1218	<b>3.99</b>
18	Solid	60	3	278-1223	<b>4.49</b>
18	Stranded	45	3	278-1226	<b>4.49</b>
20	Stranded	60	3	278-1225	<b>4.49</b>
20	Solid	75	3	278-1222	<b>4.49</b>
22	Solid	90	3	278-1221	<b>4.49</b>
22	Stranded	75	3	278-1224	<b>4.49</b>

\* Total feet. Colors vary. 3-spool sets include three different colors.



## Coax cable for TV, FM, CB, Ham and scanner hookups

New for '95!  
RG-6 cable in decorator white

RG-6

RG-6QS

RG-59

RG-58

RG-8M

RG-8

**RG-6.** 100% shielding, low loss. Designed for internal wiring of premises for cable and antenna TV.

**RG-6QS.** (Quad shield). Same uses as RG-6. Four levels of shielding make it the cable to choose for areas with large amounts of electrical interference.

**RG-59.** For video signal, CB/Ham and TV antenna applications. Not recommended for cable-TV use.

**RG-58.** Popular small-diameter cable for most RF signal transmission uses including CB, Ham, short-wave and mobile antenna hookups.

**RG-8/M.** 95% shielding. Same uses as RG-8 but recommended for shorter runs due to its higher loss.

**RG-8.** Low-loss. With copper braid 95% shielding. For CB, Ham and scanner antenna lead-ins.

RG Type	Ohms	OD (in)	Velocity Factor	Loss in dB At 100 MHz Per 100 Feet	Loss in dB At 400 MHz Per 100 Feet	Capacitance Per Foot	Center Conductor	Cat No.	Fer Ft
6 (white)	75	266	78%	2.2	4.4	17.5 pF	18 Gauge Solid	278-1318	<b>.22</b>
6 (black)	75	266	78%	2.2	4.4	17.5 pF	18 Gauge Solid	278-1316	<b>.22</b>
6QS	75	286	78%	2.1	4.4	17.3 pF	18 Gauge Solid	278-1317	<b>.32</b>
59	80	242	78%	2.9	5.9	15.6 pF	22 Gauge Solid	278-1315	<b>.22</b>
58	50	196	66%	4.5	10.0	28.5 pF	20 Gauge Solid	278-1314	<b>.22</b>
8/M	50	242	78%	3.7	8.0	25.2 pF	16 Gauge (19x29)	278-1313	<b>.31</b>
8	50	405	66%	1.9	4.1	26.4 pF	13 Gauge (7x21)	278-1312	<b>.69</b>

See page 75 for other speaker cables.

# We're Your Source for Wire & Cable

**QUESTION:** How do I choose the best kind of wire for a particular use?



**ANSWER:** Here are some basic facts that will help you make a selection:

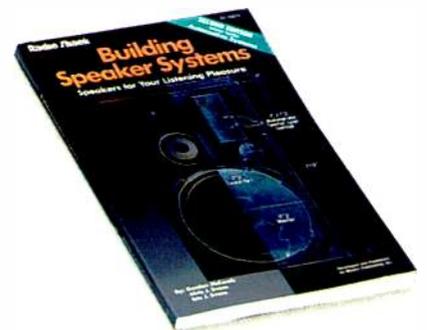
**The conductor** is the part of the wire or cable that carries electricity. The larger the conductor, the more electrical current it can carry safely.

**The gauge number** indicates the size of the conductor. A lower gauge number means larger wire. A 12-gauge conductor is larger and can carry more current than an 18-gauge conductor.

**Stranded-conductor** wire is useful in speaker and audio hookups as well as connections where flexibility is desired.

**Solid-conductor** wire is used in hookups or circuits where flexibility is not needed.

**Shielded audio and coax** cables have an insulated inner conductor surrounded by a conductive shield. This shield screens out electrical hum and noise that the inner conductor would otherwise pick up.



## Learn all about speakers and how to build your own systems

**Building Speaker Systems.** This book brings you a wealth of useful information on speakers. You'll learn how speakers work, how to choose them, and how to design and build your own systems. Illustrations and easy-to-understand text highlight the importance of enclosures, construction techniques, wiring and physical placement. The book provides plans and parts lists for four home speaker systems. Two chapters are devoted to automotive sound systems, and give you details on speaker installation in vehicles. 160 pages. **62-1087 . . . . . 5.99**



### Intercom and alarm wire

- (1) 3-conductor intercom wire. 24-ga. stranded. UL. CM. Rated for in-wall use. 50 feet. 278-871, 4.99
- (2) 4-conductor intercom wire. 24-gauge solid conductors. 20 feet. 278-858 ..... 3.49
- 2-conductor intercom wire. 24-gauge solid conductors. 35 feet. 278-857 ..... 3.49
- (3) Alarm wire. Twisted pair. 22-ga. stranded. PVC insulation. UL. Type CL2. Rated for in-wall use. 300 ft. 278-863, 25.99    100 ft. 278-862, 9.99



### Telephone cable and modular phone cord

- Indoor/outdoor 4-conductor phone cable. Rugged. 24-ga. solid. UL. CMX-CM. Rated for in-wall use. 250 ft. 278-386, 34.99    100 ft. 278-385, 14.99
- 4-conductor phone cable. 24-gauge solid. UL. CM. Rated for in-wall use. 278-1310, Price per foot/13c 100 ft. 278-873, 12.99    50 ft. 278-872, 6.49
- 6-conductor phone cable. 24-gauge solid. UL. CM. Rated for in-wall use. 100 feet. 278-874 .. 14.99
- Modular phone cord. 4-conductor stranded. 26-ga. 100 ft. 278-366, 13.99    50 ft. 278-365, 6.99



### Double-shielded 4-conductor data/audio cable

This super high-quality cable features four 26-gauge stranded conductors enclosed by a 100% foil shield and a 75% overlap of wire braid. Double shielding fights interference, making this cable ideal for applications where hum and electrical noise pickup may be a problem. UL. Type CM. Rated for in-wall use. 30 feet. 278-777 ..... 8.99



### Shielded cable for mike and audio hookups

- Heavy-duty mike cable. Single conductor plus shield. UL. Type CL2. Rated for in-wall use. 40 feet. 278-511 ..... 8.99
- Audio cable. Single 24-gauge stranded conductor plus shield. Great for building custom patch cords and audio interconnects. UL. Type CL2. Rated for in-wall use. 20 feet. 278-512 ..... 3.49
- 2-cond. audio cable. Two 24-gauge stranded conductors plus shield. UL. Type CL2X. 50 ft. 278-513 .. 7.59    20 ft. 278-514 .. 3.69
- OFC cable. High-performance oxygen-free copper. Single conductor plus shield. 6 feet long, each. 6mm diameter 278-1271 ..... 5.99
- 8mm diameter. 278-1272 ..... 7.59



### Coiled cable for communications mikes

Premium quality for years of service! Ideal for replacing CB, Ham and marine radio mike cords. Four conductors (one is shielded). 5 feet. 278-356, 2.99



### Glow-in-the-dark speaker wire

Why hide it? Here's a fun and exciting way to rev up your audio system. Instead of concealing your speaker wire, decorate your room with glowing ribbons of light. This cable "absorbs" light and then glows when the room is darkened. It's heavy-duty 16-gauge 2-conductor cable, so it delivers great sound, too. 30 feet. 278-1240 ..... 14.99

Glow-in-the-dark lamp cord. 18-gauge. UL listed. 30 feet. 278-1241 ..... 12.99

### UL listed wire for test probes

This stranded 20-gauge-conductor wire is rated to 1000 volts and 105° C. Highly flexible, it's the wire to choose when repairing or upgrading test probes and also useful in experimental and hobby projects where extra flexibility without breakage is desired. Oil-resistant insulation. 20 feet.

- Red. 278-563 ..... 2.99
- Black. 278-564 ..... 2.99



### Magnet wire

Three-spool assortment totaling 315 feet at a value price. This enamel-covered solid copper wire is perfect for winding your own coils and electromagnets. Includes 40 feet of 22-gauge, 75 feet of 26-gauge and 200 feet of 30 gauge. 278-1345 ..... 4.99



### Pretinned solid bus wire

This 24-gauge uninsulated copper wire is ideally suited for hobby projects, the repair of broken traces on printed circuit boards, and other applications where a small-gauge bare wire is needed. 50 feet. 278-1341 ..... 1.79

### Automotive and heavy-duty wire

Automotive hookup wire. 10-gauge stranded. Ideal for high-current uses. Heavy-duty insulation meets demands of the mobile environment. 35 feet.

- Red. 278-568, 11.99    Black. 278-569, 11.99
- 12-gauge hookup wire. Stranded. UL. Type AWM. Rated 600 volts, 80° C. 20 feet. Red. 278-565, 3.99    Black. 278-566, 3.99
- 2-conductor. 18-gauge stranded. UL. Type CL2. Rated for in-wall use. 25 feet. 278-567 ..... 3.99



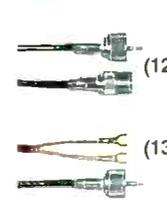
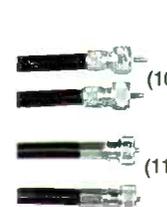
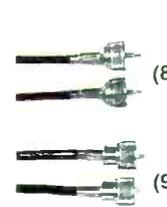
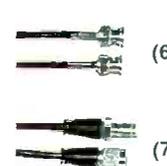
### The easy way to install F connectors and perfectly cut or strip coax cable

F connectors are the round, twist-on plugs used in TV antenna, VCR and cable-TV hookups. 75-ohm cable is the round coax cable used with these connectors.



- (1) Economy crimp tool. Installs F connectors on 75-ohm cable. This tool is perfect for do-it-yourselfers who want to make custom TV and VCR cables. It's designed for use with our F-56 and F-59 (#278-211 and #278-214) connectors only. 278-220 ..... 2.99
- (2) Medium-duty crimp tool. Quality tool for installing all crimp-on F connectors. 278-242 ..... 6.99
- (3) "Pro" crimp tool. For installing all crimp-on F connectors. Easy to use and built for a lifetime of service. 278-243 ..... 15.99
- (4) Precision coax cable cutter. Special curved blades do not flatten or damage cable while cutting. 278-244 ..... 5.99
- (5) Coax cable stripper. Adjustable blades deliver perfect strips every time—cable is ready to accept a connector in an instant. For coax cables from 3/16" to 5/16" diameter. 278-240 ..... 12.99

### Prewired, ready-to-use RF cable assemblies



- (6) 6-ft. BNC to BNC. For test equipment and RF hookups. 52-ohm. 278-964 ..... 5.99
- 12-foot BNC to BNC. 52-ohm. 278-965 ..... 9.99
- 6-foot BNC to BNC. 75-ohm. 278-990 ..... 5.99
- (7) 3-ft. cellular phone extension. Has male TNC connector at one end and female TNC at the other. 52-ohm. 278-976, 4.99
- (8) 2-ft. PL-259 to PL-259. This short RG-58 52-ohm patch cable is perfect for connecting CB or Ham SWR meters, watt meters, etc. 278-968 ..... 4.99
- 20-ft. PL-259 to PL-259. For CB/Ham antenna hookups. RG-58 52-ohm cable. 278-967 .. 7.99
- 50-ft. PL-259 to PL-259. RG-58 52-ohm cable. 278-971, 14.99
- (9) 10-ft. PL-259 to PL-259. RG-8/M 52Ω cable. 278-979, 9.99
- (10) 5-ft. PL-259 to PL-259. RG-8 52Ω cable. 278-969 ..... 7.99
- (11) 50-ft. PL-259 to PL-259. RG-8 52Ω cable. 278-980, 34.99
- (12) 6-ft. PL-259 to SO-239. RG-58 52-ohm coax extension cable. 278-975 ..... 6.99
- (13) 20-ft. mobile antenna cable. PL-259 at one end, spade lugs at other. 52-ohm. 278-966, 7.99



**Mini bar clamp holds jobs firm**

Fast and easy way to clamp your projects. Sliding handle lets you make adjustment with only one hand. 6" jaw clamp. 64-1984 ..... 14.99



**Multi-purpose cutters**

Sure-grip handles deliver maximum power when cutting sheet metal or plastic. High-tempered stainless-steel blades are precision-crafted and hardened for long-lasting strength and durability—they fight rust and corrosion. Safety latch, built-in wire cutter. 64-1983 ..... 10.99



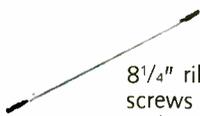
**Handy all-in-one bits-selector**

Ideal for busy technicians on the go! Includes 10 assorted slotted, Phillips and Torx® bits on 1/4" hex, a magnetic drive adapter/extender for power tool use and a durable carry case. 64-1976 ..... 19.99



**Multi-tip screwdriver**

Four reversible steel tips with regular, Phillips and Torx ends in various sizes. Tips store in the sure-grip handle. Shank doubles as 1/4" nutdriver. 64-1967 ..... 9.99



**Slotted/Phillips screw starter**

8 1/4" ribbed shaft allows you to get screws aligned and started faster and easier than with a conventional screwdriver. 64-1966 ..... 4.99



**8-piece ball-end hex key set**

Design allows you to use at different angles up to 25°. Made of heavy-duty steel alloy. Ideal for engine and machinery work. 64-1817 ... 8.99



18-piece standard hex key set. 64-1816, 5.99



**Deluxe 7-piece screwdriver set**

Great drivers for tool box or kitchen "junk" drawer. Has 1/4" x 1 1/2" stubby, 1/8" x 2 1/4" midget, 3/16 x 4" and 1/4 x 4" mechanics' screwdrivers, 3/16" x 6" cabinet and #1-2 Phillips. 64-1823 .... 6.99



**5 1/4" insulated long-nose pliers**

Precision tip for picking up small parts. Professional quality. Spring-action return, insulated grip handles. 64-1812 ..... 6.99



**6 1/2" heavy-duty long-nose pliers**

Insulated handles have flared ends for safe handling with electrical wiring. Wire cutter. Hardened steel. 64-1844 ..... 3.99

**NEW!** Thin long-nose pliers. Avail. Oct. 15, 1994 64-1931, 6.99



**6" diagonal electrical cutters**

Heavy-duty forged steel, durable hardened blades. Insulated flared grips. 64-1845 ..... 3.99

**NEW!** Diagonal wire cutters. Avail. Oct. 15, 1994 64-1930, 6.99



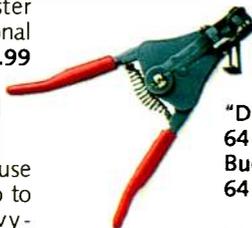
**4 1/2" insulated diagonal cutters**

Drop-forged with chrome steel. Spring-action with wire stripper and insulated handles. 64-1813 ..... 6.99



**Nippy cutters**

Flush-cutting design lets you trim leads close to printed circuit boards. Spring-action handles. 5" long. Cuts up to 16-gauge wire. 64-1833 ..... 3.99



**Automatic wire stripper**

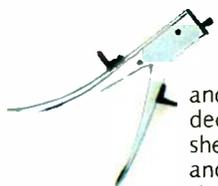
Holds wire while blade strips safely and perfectly. For 8 to 22-ga. AWG wire. 64-1919 ..... 11.99

"Dial" wire stripper/cutter. 64-1952 ..... 4.49  
Budget wire stripper/cutter. 64-2129 ..... 2.99



**Versatile 4-way pocket tool**

A reversible slotted and Phillips screwdriver. Its double-ended handle serves as 7/16" and 1/4" nutdriver. 64-1968 ..... 7.99



**Nibbling tool**

Construct project boxes, cut through dashboards and mounting plates or design decorative metal crafts. Cuts sheet metal, copper, aluminum and plastic. Trims holes to any size quickly. 64-823 .. 10.99

**Precision Tools You Can Trust**

These tools represent our uncompromising dedication to dependability and value. Each is made of long-lasting, hard-working materials and employs the latest in manufacturing innovations for maximum comfort, durability and ease of use.



**Reversible screwdriver**

Two screwdrivers in one! Driver bar has #1 Phillips on one end and 3/16" slotted driver on the other end. Durable, easy-grip handle. 64-1950 ..... 2.99



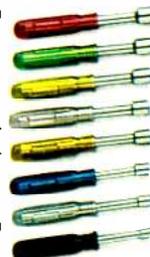
**Electrician's pliers**

Drop-forged stainless steel. Scientifically designed, curved handles provide a comfortable grip and greater cutting power. With combination bolt/wire cutter. 64-1871 ..... 4.99



**Deluxe wire crimping tool set**

A must for installers and tinkers. Set includes a heavy-duty crimp/wire stripper tool, 100 of the most popular assorted crimp-on wire terminals and see-through organizer case. 64-409 ..... 12.99  
Phone installation tool. 64-410 ..... 7.99  
Crimping tool. 64-404 ... 5.79



**Hi-impact 8-piece nutdriver set**

Interchangeable power-grip handle. Nutdriver sizes: 1/8", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8". 64-1800 ..... 7.49



**Enervac® cordless mini vacuum**

Only 9 1/4" long—with brush, nozzle attachments, easy-clean filter. Requires four "AA" alkaline batteries. 61-2504 ..... 9.99

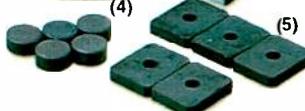
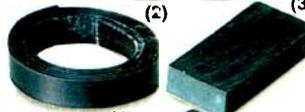
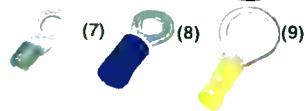


### 16-piece driver set

Has Phillips, nut-drivers, hex keys, screwdrivers and a torque bar.  
**64-1961, 10.99**  
**Screwdrivers.**  
**64-1948, 4.49**  
**6-piece screwdriver set. 64-1959 . . . . . 4.49**  
**6 mini precision screwdrivers. 64-1962, 4.49**  
**3 minidrivers. 64-1982 . . . . . 1.49**



**Storage box with compartments.** 8 1/2 x 4 3/4 x 1 1/2".  
**64-552 . . . . . 3.19**



### TV alignment kit

Anti-static, ideal for service adjustment on sensitive equipment. **64-2230, 4.49**  
**2-piece TV alignment kit.**  
 Non-conductive.  
**64-2223 . . . . . 99¢**  
**5-piece TV tool kit. With extender.**  
**64-2220 . . . . . 2.99**



### 10-blade knife set

Precision knife set with an assortment of 10 interchangeable steel blades for cutting and scribing.  
**64-1801 . . . . . 4.99**  
**Multipurpose hobby knife.**  
**64-1805 . . . . . 1.49**



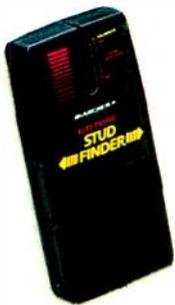
### 5-piece needle file set

Designed for precise filing on hobby kits, models, PC boards and more.  
**64-1985 . . . . . 6.49**



### 5" mini forceps

Molded locking handles. Ideal for handling small parts. **64-1910 . . . . . 1.79**  
**NEW! 5 1/2" locking forceps. Stainless steel. 64-1940 . . . . . 4.79**



### Electronic STUDDINDER™

No more guesswork! Locates exact center of wooden studs or metal frame. Hang shelves or locate pipes, wiring and conduits. Automatically recalibrates itself. Requires 9V battery.  
**64-2825 . . . . . 24.99**



### Ultrasonic tape measure

Just aim and read—measures area and room distances using ultrasonic sound waves. Stores measurements. Requires 4 "AAA" batteries. **63-645, 24.99**

## Hardware and connectors Handy-Packs \$1.39 each!

Fig	Description	Qty	Cat. No
1	Round-Head Machine Screws. 2-56. 14 each of 1/4", 1/2", 3/4".	42	64-3010
	Machine Screws. 4-40. 14 each of 1/4", 1/2", 3/4".	42	64-3011
	Machine Screws. 6-32. 14 each of 1/4", 1/2", 3/4".	42	64-3012
2	Pan Head Sheet-Metal Screw Assortment.	35	64-3016
	Steel Machine Hex Nuts. 40 each: 2-56	40	64-3017
3	Steel Machine Hex Nuts. 30 each: 4-40	30	64-3018
	Steel Machine Hex Nuts. 30 each: 6-32	30	64-3019
4	Flat Washers. 20 each of #2, #4, #6, #8, #10	100	64-3022
5	Control Nuts. 8 each of 3/8-32, 1/2-32, 7 of .475-32.	23	64-3020
	Metric Control Nuts Assortment.	20	64-3063
6	Grommets. 7 each: 1/4", 3/16", 3/8". 5 each: 7/16", 1/2"	31	64-3025
7	Solderless Ring Tongues. 12 each: #6 (6 for 22-18 ga.). (6 for 16-14 ga.). 12 each: #8 (6 for 22-18 ga.). (6 for 16-14 ga.)	24	64-3030
8	Solderless Insulated Ring Tongue Assortment. 6 each: #6 (4 for 22-18 ga.). (2 for 16-14 ga.), 4 each: #8 (2 for 22-18 ga.). (2 for 16-14 ga.)	10	64-3032
9	Insulated Large Ring Tongues. 2 each: 1/4 for 16-14 ga., 2 each: 3/8 for 16-14 ga., 2 each: 1/2 for 12-10 ga.	6	64-3040
10	Solderless Spade Tongues. 12 each: #6 (6 for 22-18 ga.). (6 for 16-14 ga.). 12 each: #8 (6 for 22-18 ga.). (6 for 16-14 ga.)	24	64-3031
11	Solderless Flanged Spades. 12 each: #6 (6 for 22-18 ga.). (6 for 16-14 ga.). 12 each: #8 (6 for 22-18 ga.). (6 for 16-14 ga.)	24	64-3043
12	Solderless Spade Tongues. #10 (12 for 22-18 ga.). (12 for 16-14 ga.) (As above, but insulated.) 5 each	24	64-3034
13	Solderless Flanged Insulated Spades. 6 each: #6 (4 for 22-18 ga.). (2 for 16-14 ga.). 4 each: #8 (2 for 22-18 ga.). (2 for 16-14 ga.)	10	64-3044
14	Solderless Insulated Spade Tongues. 6 each: #6 (4 for 22-18 ga.). (2 for 16-14 ga.), 4 each: #8 (2 for 22-18 ga.). (2 for 16-14 ga.)	10	64-3033
15	Female Flag Quick-Disconnects. 5 each: .187 Fem NIQQ Flag (16-14 ga.) 5 each: .250 Fem NIQQ Flag (16-14 ga.)	10	64-3046
16	Solderless Insulated M/F Q-Ds. 4 each: Fem FIQQ Coupler (2 for 22-18 ga.). (2 for 16-14 ga.), 4 each: Male FIQQ Coupler (2 for 22-18 ga.). (2 for 16-14 ga.)	8	64-3049
17	Insulated Female Quick-Disconnects. (for 22-18 ga.)	6	64-3058
18	Single Female to Dual Male Quick-Disconnects. (for 26-24 ga.)	6	64-3061
19	Male Quick-Disconnects. 2 each: .187 Male PIQQ (for 16-14 ga.), 2 each: .250 Male PIQQ (for 16-14 ga.), 2 each: .187 Male NIQQ (for 16-14 ga.), 2 each: .250 Male NIQQ (for 16-14 ga.)	10	64-3038
20	Female Quick-Disconnects. 2 each: .187 Fem. PIQQ (for 16-14 ga.), 2 each: .250 Fem. PIQQ (for 16-14 ga.), 2 each: .187 Fem. NIQQ (for 16-14 ga.), 2 each: .250 Fem. NIQQ (for 16-14 ga.)	10	64-3039
21	Butt Connectors. (10 for 22-18 ga.). (10 for 16-14 ga.)	20	64-3036
22	Insulated Butt Connectors (4 for 22-18 ga.). (5 for 16-14 ga.)	10	64-3037
23	Aluminum Spacer Assortment.	24	64-3024
24	Bullet Connectors. Insulated. 6 each. Male (for 16-14 ga.). 3 each Dual Female	6	64-3047
25	Ins. Closed-End Connectors. (5 for 24-16 ga.). (5 for 18-12 ga.)	10	64-3041
26	Polypropylene Cable Clamps 6 each 1/8", 3/16", 1/4" dia	18	64-3028

## Wire terminals, connectors and staples

Fig	Description	Qty	Cat. No	Price
27	Push-Lock™ Wire Connectors. 12-18 AWG	5	64-3056	1.39
28	Insulation-Piercing Phone Spade Lugs	24	64-3070	1.39
29	Phone Wiring Butt Connectors. 22-26 AWG	24	64-3073	1.39
30	Standard Wire Staple	40	64-2875	.99
31	Phone/Alarm Wire Splices	4	64-3080	1.99
32	Phone Wire UG Tap Connectors	4	64-3081	1.99
33	Wire Connectors (6 for 22-18 ga.). (6 for 16-14 ga.). (4 for 12-10 ga.)	16	64-3057	1.49
Not Shown	Insulated Crimp Terminals	75	64-407	2.59
	Noninsulated Crimp Terminals	100	64-406	2.59
	Antenna Lead Terminals	12	64-408	1.29
34	Wire Tap-Ins (18-14 ga.)	10	64-3052	1.99
35	Low-Voltage Tap-Ins (18-22 gauge)	7	64-3053	1.99

See page 112 for crimping tools.

## Magnets help "pull your projects together"

- (1) Rare-earth super-magnets. Powerful, yet only 1/8" diameter. **64-1895 . . . . . Pair 1.49**
- (2) Magnetic tape. Holds tools to wall and more. 1/2" x 30". **64-1890 . . . . . 99¢**
- (3) High-energy ceramic magnet. About 1 7/8 x 7/8 x 3/8". **64-1877 . . . . . 99¢**
- (4) **NEW!** 1/2" button ceramic magnets. **64-1883 . . . . . Pkg. of 5/1.49**
- (5) **NEW!** 1" rectangle ceramic magnets. **64-1879 . . . . . Pkg. of 5/1.69**
- (6) **NEW!** 1 1/2" round ceramic magnets. Powerful 1 1/2" size has hundreds of uses. **64-1888 . . . . . Pkg. of 5/1.69**



### Rechargeable cordless soldering gun for making repairs anywhere—even on a rooftop

Powered by Ni-Cd batteries, so you can use it anywhere—ideal for hard-to-reach jobs like rooftop antennas or car trunk wiring. Solder up to 250 joints on a single charge. Trigger lock prevents accidental turn-on. Trigger-activated light illuminates work. Includes AC charger and 20-watt fine tip. 64-2194 ..... 39.99  
**Replacement tip.** Fine tip as included above. (CMC) 64-2196 ..... 9.99  
**20-watt blade.** (CMC) 64-2195 ..... 9.99  
**40-watt blade.** (CMC) 64-2197 ..... 10.99



### 100-watt soldering gun with light

Plenty of power to make soldering jobs easier. High-speed—pull trigger and the tip reaches full temperature in just seconds. Built-in light illuminates work. Rugged gun is ideal for demanding jobs such as soldering plugs on cables. Comfort molded pistol-grip. 64-2193 ..... 12.99

### Gas-powered portable soldering iron

Provides up to 60 minutes of heating, refills in just seconds with standard butane lighter fuel. Adjustable output, equivalent to 10-60 watts. Includes 2.4mm tip. Add optional tips for easy conversion to a blow torch, hot knife or heat blower! 64-2182 ..... 34.99

**Replacement and special-purpose tips.**  
 1mm. 64-2183 ..... 9.99  
 The following tips are available through our fast special-order service.  
 2.4mm. (CMC) 64-2162 ..... 9.99  
 Heat blower. (CMC) 64-2169 ..... 9.99  
 Hot knife tip. (CMC) 64-2170 ..... 9.99  
 Blow torch. (CMC) 64-2168 ..... 9.99  
 Set of 4 tips. (CMC) 64-2171, 29.99



### Extra tips for soldering guns

For Use With	Cat. No.	Pkg. of 2
Archer 64-2193/2192	64-239	1.89
Archer 64-2191	64-238	1.89
Weller D440, 8200 and Archer 64-2190	64-237	1.89
Weller D550	64-234	1.89

### Extra "hands" to hold work

(1) **Double-hand holder.** Ball joints permit movement to best working angle. Alligator clips hold small shapes securely. Solid cast-iron base prevents tipping. 64-2093 ..... 9.99  
 (2) **Mini-vice with vacuum base.** Holds parts securely for on-the-spot soldering, gluing and drilling. 64-2094 ..... 4.49



### Pocket-size torch kit for soldering/brazing

Produces up to 5000° F in an adjustable pinpoint flame. Great for those on-the-run repair jobs requiring high, pinpoint heat. Will heat, braze or cut most metals, including noble and rare metals, so it's ideal for jewelry repair. With one butane and two micronox cylinders, two tips, storage tray. 64-2165 ..... 29.99

### Miniature butane torch fits in your pocket or toolbox

Heats to 2500° F. Designed for creative metal work and minor repairs in the home, shop or field. For soldering, heating, removing paint. One refill cylinder. 64-2164 ..... 14.99  
 Extra butane cylinders. 64-2166 ..... Pkg. of 2/3.99  
 Extra micronox cylinders. 64-2167 ..... Pkg. of 2/2.99



### One-handed desoldering iron

Desoldering made easy! Removes solder from components quickly. Leaves one hand free. Vacuum bulb and replaceable tip. 45 watts. 8" long. 5-foot cord. 64-2060 .. 8.49  
 Replacement tip. 64-2061 ..... 99c  
 Heavy-duty desoldering tip. 64-2062 ..... 1.99



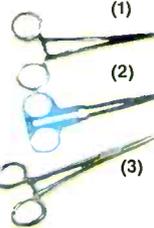
### 4-piece probe set

Professional picks designed for precision work—scribing, marking, separating, positioning and counting. Hardened, tempered stainless steel. 64-1941 .. 9.99



### Multipurpose forceps

(1) **Locking forceps.** Stainless steel. 6" long. 64-1866 .. 4.99  
 (2) **Straight locking forceps.** 5 1/4" long. 64-1910 ..... 1.79  
 (3) **NEW! Locking forceps.** Stainless steel. Hard polished joint construction. Serrated tips, snap locks. 5 1/2" long. 64-1940 ..... 4.79



All Radio Shack AC-operated equipment is UL Listed.

# Radio Shack is Your Best Soldering Connection

Soldering is the best way to make permanent connections in your projects, repairs, audio, video and security hookups. Radio Shack has a wide selection of quality tools and solder to get the job done right. And, soldering can be as easy as 1-2-3, even for beginners.

**QUESTION:** What is the correct way to solder?



**ANSWER:** Follow these three steps:

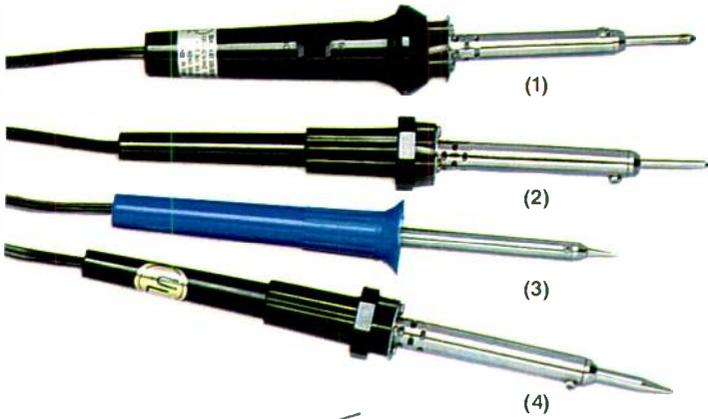
**ONE:** The connection to be soldered must be clean. A small file, sandpaper or steel brush can be used if needed. With electronic equipment, you should always use a rosin core solder. Use Radio Shack's for best results.

**TWO:** When first using a new gun or iron, coat the tip with solder to prevent oxides from forming, then immediately brush off the excess with a soft cloth to form a smooth, silvery soldering surface. This process is called "tinning" and should be performed periodically for efficient soldering.

**THREE:** Apply tapered surface of the tip to the connection. Allow connection to become hot, then apply solder (see picture below). Don't use the point to melt solder—let the connection melt it to avoid "cold" solder joints (poor joints that go bad later). When solder begins to flow, carefully lift tip away from work while keeping the connection stable. When soldering delicate components, work quickly and use a heat sink to draw off damaging heat.

Caution: Do not touch hot iron tip or molten solder





### Extra versatile! Dual-wattage soldering pencil

(1) When you need more power, just flip the switch on the handle to go from 15 watts to 30 watts. Handles most electronic and electrical projects. 64-2055 ..... 9.49  
Replacement tip. 64-2065, 1.19 Chisel tip. 64-2056, 1.19 Iron-clad tip. 64-2058, 1.59

### Mobile 30-watt pencil iron plugs into car lighter socket

(2) Ideal for automotive accessory and car stereo wiring jobs. Extra-long 12-foot cord with cigarette lighter plug. 12VDC 64-2105 ..... 5.99  
Replacement tip. 64-2072 ..... 1.29

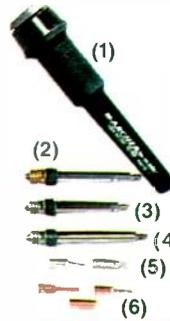
### 15-watt pencil iron for use with integrated circuits

(3) Grounded tip makes it a good choice for IC work. 64-2051 ..... 7.49  
Replacement tip. 64-2052 ..... 99c  
30-Watt pencil. 64-2067 ..... 4.99 Replacement tip. 64-2065 ..... 1.19

### 40-watt pencil iron ideal for larger jobs

(4) Produces 600-640° F. Screw-in 1/4" tip. Includes safety stand. 64-2071 ..... 7.49  
Replacement tip. 64-2072 ..... 1.29  
25-Watt pencil. 5/32" tip. 64-2070 ..... 6.49 Replacement tip. 64-2073 ..... 1.19

**30-watt "cool-grip" soldering gun**  
Comfortable molded handle is easy to hold. "Cool-grip" design keeps your hand from getting overheated while soldering. Just the thing for benchtop, hobby work. 64-2066 ..... 5.49  
Replacement tip. 64-2065 ..... 1.19  
Iron-clad tip. 64-2058 ..... 1.59



### Custom-assemble an iron to fit your exact needs

Select-a-iron™—one of the best you can buy!

Fig	Description	Cat. No	Price
1	Cool-Grip Handle	64-2080	6.99
	Grounded Handle (CMC)	64-2077	10.99
2	700°F Heating Unit, 23W	64-2081	7.99
3	800°F Heating Unit, 33W	64-2082	8.99
4	900°F, 45W (CMC)	64-2083	10.99
5	Iron-Clad Lt. Duty Tips (2)	64-2089	5.49
	Surface-Mt Tips (2) (CMC)	64-2074	5.49
6	Lt. Med. H D Tips (3)	64-2084	5.99

64-2077/2083/2074 are special order (CMC)



### Control your temperature

This control lets you set the working temperature of your soldering iron. Increase tip longevity by turning down the temperature while it's sitting idle. Even use it to control light brightness or fan speed. Status pilot lamp. 120VAC at 1.2 amps, 150 watts maximum. 64-2054 ..... 9.99

## A complete selection of solder and helpers

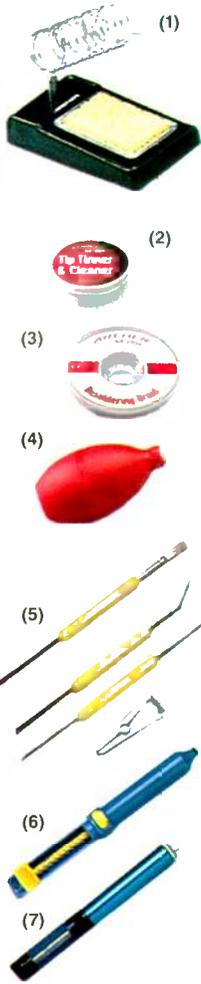


**10-piece soldering tool set comes with everything you need**  
This complete set is designed for kit builders and precise light to medium-duty work. You get a 30-watt pencil soldering iron, iron safety stand, rosin core solder, soldering helper, 5 1/2" longnose pliers, 5 1/4" diagonal cutter, 5 3/4" and 4 1/4" regular screwdrivers, 4 1/2" Phillips screwdriver, and heat sink. 64-2801 ..... 17.99



**5-piece basic soldering set is just the thing for beginning hobbyists**  
Includes everything you need for basic soldering jobs in one package. Comes with a 30-watt soldering iron, iron safety stand, rosin core solder, soldering helper, heat sink, plus easy-to-follow beginner's soldering instructions. 64-2802 ..... 7.99

See pages 112-113 for our complete selection of top-quality precision tools for fixers, builders and hobbyists



### Soldering/desoldering made even easier

(1) Soldering iron holder and cleaner. All-in-one solder station helps keep your workbench free from solder splatters and burn marks. Coil holder protects you and your work while the convenient sponge pad cleans soldering tip. 64-2078 .. 6.49

(2) Tip tinner/cleaner compound. Keeps your soldering iron ready for making quick and efficient connections, and prevents oxidation of tips. Chemically neutral and non-toxic. 64-020 ..... 5.49

(3) Desoldering braid. Just press onto solder connection with hot iron, solder attaches to braid. 64-2090 ..... 2.19

(4) Desoldering bulb. The easy way to pick up solder! Just heat up solder to molten state and vacuum up with bulb. 64-2086 ..... 2.79

(5) 4-piece solder/desoldering tool set. Heat sink prevents damage to sensitive components when soldering. Includes a versatile brush/scraper and two probes. 64-2227 ..... 4.19

(6) Desoldering tool. Spring action, lifts solder with little effort. Easy, one-handed operation. 64-2120 ..... 5.99

(7) Vacuum desoldering tool. Heavy-duty vacuum device pulls up hot solder—no mess, no fuss. 64-2098 ..... 6.99



### Professional-grade electronic solder

(8) Rosin soldering flux. Non-flammable, cannot spill. Wipes clean with cloth or solvent. 1 oz. 64-021 ..... 1.99

(9) Solder-weld. Silver-bearing paste. Use with lighter or iron. Ideal for RF hookups. 7.1 grams. 64-029 ..... 2.99

(10) Lead-free solder. High-strength. For repairing joints on PCBs in computers, TVs, VCRs, CBs, Ham radios. 96% tin/4% silver. 0.032" diameter size. 0.25 oz. 64-025 ..... 2.79  
Above in 0.062" Size. 0.5 oz. 64-026 ..... 1.99

(11) Solder tape. Solder with a match! Great for outdoor hookups, antenna work. Pkg. of 100 strips. 64-010 ..... 1.49

(12) Rosin core solder. Standard 60/40 formula.

.062", 0.5 oz. 64-001 ..... 99c  
.062", 1.5 oz. 64-002 ..... 1.69  
.062", 4.0 oz. 64-004 ..... 3.79  
.062", 8.0 oz. 64-007 ..... 5.99  
.062", 1 lb. 64-008 ..... 8.99  
.050", 1.5 oz. 64-006 ..... 2.49  
.032", 2.5 oz. 64-005 ..... 3.49  
.032", 8.0 oz. 64-009 ..... 6.49

(13) Silver solder. High-grade solder, ideal for surface-mount devices. 62/36/2% formula. 0.022" size. 1.5 oz. 64-013, 2.99  
(14) Hi-tech solder. 63/37% formula. 0.050" size. 1.5 oz. 64-015 ..... 2.49

Radio Shack solder meets QQ-571-E Federal standards.

## Electrical tape 5-pack

Five 3/4" x 12-ft. rolls of quality electrical tape, each in a different color—ideal for color-coding electrical hookups and hundreds of other uses around home, shop and automobile.

64-2340 ..... 2.49

## High-strength electrical tape

The very best! Tough 7-mil tape. Moisture resistant,

fire retardant and withstands 0° to 220° F temperatures. 3/4" x 66 ft. 64-2352 ... 3.49

## All-purpose sealing tape

Airtight seal against weather. Unaffected by normal heat, cold, humidity. 2" x 30 ft. 64-2347 ..... 2.39

## High-dielectric tape

1/2" PVC tape. 12 1/2-ft. roll. 64-2348 ..... 69¢  
3/4" PVC tape. 20-ft. roll. 64-2349 ..... 99¢  
3/4" PVC tape. 66-ft. roll. 64-2350 ..... 1.99

## Self-fusing silicon tape

Convenient substitute for heat-shrink tubing and tape; it's much faster and easier to use. Fuses to create a tight, permanent bond. High dielectric strength. 1" x 3 ft. roll. 64-2336 ..... 1.99

## Two-sided foam tape

1,004 handy uses around home, shop, office! Firmly attaches accessories to car dash, telephone, television, desk, inside kitchen cabinets and—well, you'll quickly find the other 1,000 uses. 3/4" x 40" roll. 64-2343 ..... 1.89

## SUPERMOUNT™ tape

A double-sided foam tape with extra adhesive power. Four 1" x 3" strips. Shear strength: 4lbs./in. 64-2361 ..... 1.99  
Standard Double-Sided Tape. Eight 1" x 3" strips. 64-2344 ..... 1.99

## SUPERLOCK™ fasteners

Super hook-and-loop fasteners have five times the holding power of ordinary strips! Four 1" x 3" strips with tensile strength of 4 lbs./inch and shear strength of 4 lbs./inch. 64-2360 ..... 2.99

## Hook-and-loop fasteners

Great for temporarily or permanently attaching items—accessories to car dash, grill cloth to speakers, small pictures and speakers to walls. Strips hold firmly but can be easily peeled apart. Four long-lasting 3" strips with adhesive backing. 64-2345, 2.49

## Clear SUPERLOCK

Fasteners provide a strong, invisible bond for mounting objects on glass or any nonporous surface. Tensile strength: 20 lbs./in. for 3" strips. 64-2363 ..... 3.19

# Huge selection of fasteners

We have a complete line—from super-strong electrical tape to the very latest push-lock wire fasteners

### Important specifications in tape and fasteners:

**TENSILE STRENGTH.** The ability of a tape to resist breaking. Measured in pounds per square inch. The higher the number, the stronger the tape.

**SHEAR STRENGTH.** The effectiveness of a tape's adhesive. Measured in pounds per square inch. A higher number means a stronger adhesive.

## Self-stick rubber feet

Just peel the paper off the adhesive-backed feet and stick one on each corner of the bottom of equipment. Protects furniture and provides a secure, non-skid base for equipment. 64-2346 ..... Pkg. of 12/99¢

## Clear cushion feet

1/2" -diameter round plastic protectors with adhesive. Put them on the bottom of equipment to keep from scratching the surface of furniture or shelf. 64-2365 ..... Pkg. of 12/1.19

## Jumbo-size cushion feet

3/4" square cushion feet provide huskier non-mar support for heavier equipment. 64-2342 ..... Pkg. 8/1.49

## Helpers for faster, neater wiring jobs

### Keep wire/cable where you want it

- (1) In/outdoor wire ties. 8" long. Ultraviolet (UV) stabilized for long outdoor life. Perfect for communications, TV and other outdoor wiring installations. 278-1652 ..... Pkg. of 30/2.99
  - 14 1/2" version of fig. 1. 278-1655, Pkg. of 30/4.99
  - (2) 4" wire ties. Unbreakable nylon. Self-locking. 278-1632 ..... Pkg. of 30/1.59
  - 5 1/2" version of fig. 2. 278-1631, Pkg. of 30/1.99
  - 8" version of fig. 2. 278-1642 ... Pkg. of 30/2.99
  - (3) Wire-tie mounts. Adhesive backed. 3/4" x 3/4". 278-441 ..... Pkg. of 10/1.59
  - (4) Cable tie/marker. For cables up to 5/8" diameter. 278-1648 ..... Pkg. of 10/2.79
  - (5) AC cord ties. 278-1646 ..... Pkg. of 6/99¢
- Cable clips. Keep cables secure. Adhesive backing.

Fig.	Type	Accepts Cable	Cat. No.	Pkg. of	Price
6	Jumbo	5/8"	278-1641	3	1.79
7	Standard	3/8"	278-1640	10	2.69
8	Adjustable	1/2"	278-1639	10	2.69
9	Universal	3/8"	278-1647	10	2.79

- (10) Beaded wire ties. Reusable. UV stabilized. 67/16" long. 278-1619 ..... Pkg. of 10/1.19
- (11) Self-stick wire clips. For indoor speaker, power, phone wires. 278-1618 ..... Pkg. of 12/2.49
- (12) Nail-in coax clips. Slip over cable. For RG-58 cable. 20-192 ..... Pkg. of 10/99¢
- Nail-in coax clips for RG-8 cable. Slip over cable and nail into wall. 20-193 ..... Pkg. of 6/99¢
- (13) Split loom tubing. Gathers wires into a bundle. 5-ft. length, 1/2" diameter. 278-1624 ..... 3.99
- (14) 3/4"-diameter split loom tubing. Gathers wires and cable into a neat bundle. 5 feet. 278-1654 ... 4.99
- (15) Spiral wrap. 10 feet. 278-1638 ..... 1.99
- (16) Wall feedthrough bushing for coax. For RG-6 and 8M cables. 278-1644 ..... Pkg. of 2/99¢
- For RG-59, RG-58, RG-62. 278-1643, Pkg. of 2/99¢
- (17) Strain reliefs. For cable-entry point on chassis or enclosure. 278-1636 ..... 6/99¢
- (18) Heat shrink tubing. 1/16" to 1/2" sizes. UL listed. 278-1627 ..... Pkg. of 7/1.99
- (19) Wire markers. Total of 630 "peel 'n stick" letters and numbers. 278-1650 ..... Set 1.99
- (19) Self-laminating cable markers. 278-1616 ..... Pkg. of 24/1.99

Prices apply at participating Radio Shack stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability).



### One-minute epoxy glue

Get the strength of an epoxy bond without the long wait. Applicator automatically meters out and mixes the correct ratio of resin and hardener with the push of a single button. Application couldn't be easier. 1 oz. **64-2328** ..... 3.99



### Super-glue with applicator

Super easy and super fast! Pushbutton dispenser means no mess or waste. Bonds in seconds on contact—no clamping needed. Develops strength up to 5000 psi. Bonds aluminum, steel, bronze, copper, ceramics, some plastics, plus other materials too numerous to list. Dries clear. 0.7 oz. **64-2327** ..... 2.49



### Instant bonding glue

Hundreds of applications! Bonds most non-porous materials in seconds. Strongly bonds metal, glass, plastic, rubber, vinyl and ceramics instantly. Great for repairing china cups or figurines, circuit boards and toys. Seals plastic or aluminum component housings. Countless other household uses. 0.11 oz. **64-2308** ..... 1.79



### All-purpose adhesive

If you only have one glue in the house, this should be the one! All-in-one household glue for china, glass, wood, metal, rigid plastics, leather and paper. Easy to apply. Dries clear and tough. Not affected by cold. 1 3/4 oz. **64-2307** ..... 1.79



### Twin-tube epoxy

No measuring and no mess! Pushbutton applicator meters out the right ratio of resin and hardener. Bonds wood, metal, fiberglass, ceramics, china and glass. 1 oz. **64-2313** ..... 2.79



### Silicon rubber sealant

Ideal for sealing windshields, glass in aluminum frames, aquariums and antenna installations. Also great for caulking bathroom tiles and fixtures. Cures to a tough, flexible seal that never hardens and is permanently moistureproof. Big 3-oz. tube. **64-2314** ..... 2.99



### Household lube gel

General-purpose lubricant. Does not run or cause a mess because the lube gel stays where you put it. Perfect for hinges, sliding doors, tools and more. Won't cause corrosion, non-toxic. 3-oz. tube. **64-2326** ..... 2.99



### Precision oiler with TEFLON®

Super-lubricant TEFLON sticks to surface, won't wash off. The oiler's precision needle tip reaches hard-to-get-to places. Perfect for electronic equipment, electric motors and marine equipment. Non-toxic. 3/4 oz. **64-2301**, 2.29  
TEFLON™ E.I. duPONT DE NEMOURS & CO., INC.

### Dust remover spray



Great way to clean cameras, circuit boards, copiers, keyboards, projectors and other equipment that has easily scratched surfaces. Moisture free for safe, precision cleaning. Flexible 6" extension allows easy cleaning in hard-to-reach places. 4.5 oz. **64-4325** ..... 7.99



### Anti-static spray cleaner

Reduces dust accumulation by eliminating the static electricity that attracts dust. Special formula cleaner neutralizes static electricity build-up on hard surfaces. Spray surface and immediately wipe with a soft, clean cloth. Safely cleans without harmful scratching. 6 oz. **64-3310** ..... 3.99



### Component cooler

Probably the very best way to identify a defective component in a circuit with an intermittent problem! Operate the equipment until intermittent appears, then spray suspected component until frost appears. If operation returns to normal, you've found the trouble. 4 1/2 oz. **64-4321** ..... 6.99



### Lubricant protector spray

Penetrates to loosen rust and parts that are frozen with rust. Molecular film displaces moisture, seals out water. Hundreds of applications where this would be your lubricant of choice including use on fishing reels, guns, hinges, locks, tools, office equipment, bicycles, nuts and bolts. 3/4-oz. can. **64-1874** ..... 1.99



### Gold-connector cleaner

Gold Finger Cleaner & Protector is designed for use on delicate gold contacts. Specially formulated fluid cleans contacts and leaves long-lasting protective coating, eases contact insertion. Easy-to-use applicator pen tip both dispenses fluid and is used to gently wipe contacts. Safe on plastics. **64-4340** ..... 6.99



### Contact cleaner pen

Effective alternative to aerosol spray cleaners. Special formula cleans contacts and leaves long-lasting protective coating, eases contact insertion. Easy-to-use applicator pen tip both dispenses fluid and is used to gently wipe contacts. Safe on plastics, leaves no residue. **64-4341** ..... 4.99

## We Have the Right Glues & Lubricants for Nearly Any Job

*Adhesives and lubricants today are as specialized as handtools. With our large selection, we're sure to have just the one you need, and our knowledgeable sales staff will be glad to help you select the right one for the job.*

### Soft cleaning cloth



Polyester cellulose cloth is lint free and extremely absorbent. The soft material is excellent for cleaning tape heads, VCR heads, glasses, camera lenses and other surfaces easily scratched. **64-4344** ..... Pkg. of 12/3.49

### Duster attachment



Replaces the spray head on an aerosol dust remover spray can—gives you precision control and a stronger spray stream. Extension reaches into hard-to-reach areas to direct the stream where you want it. Attachment can easily be installed and removed from the aerosol spray can. **64-4343** 9.99

### Rosin flux remover kit



An easy, safe way to remove flux deposits from circuit boards, connectors and plugs. Just spray on remover and brush to loosen flux. Safe on metals. Use with our Dust Remover Spray to accelerate drying and save you time. Includes reusable brush attachment and 3-ounce can of rosin flux remover. **64-4330** ..... 15.99

### Rosin flux remover refill



A special hydrocarbon efficiently and safely removes flux deposits from printed circuit boards, connectors and plugs. Safe on metals. MUST BE USED WITH AEROSOL BRUSH ATTACHMENT INCLUDED WITH FLUX REMOVER KIT (#64-4330) ABOVE. 5 ounces. **64-4324** ..... 5.99

### Handy heat-sink pen



Use on circuit boards to draw paths that conduct heat away from transistors and other heat-generating devices. Wide temperature range, safe on plastics. Non-hardening, silicon free. **64-4342** ..... 5.99

## **NEW** PC interface, 20-MHz frequency counter

This multimeter can work alone, or you can connect it to a PC-compatible computer for advanced uses such as unattended measurement recording with time logging. Its memory can also store 10 measurements for later display or downloading. Includes interface cable and Windows®/MS-DOS®-compatible software on a 3½" floppy. Features include 20-MHz frequency counter, capacitance and transistor-gain measurement, and logic-probe function. Dual display allows simultaneous reading of AC voltage and frequency or DC voltage/logic-level and ripple. Handy continuity buzzer, diode-check, data-hold and min./max. functions. Bargraph. Auto power-off saves batteries. 7¾ × 3⅞ × 1⅝". With case. Req. 9V battery. **22-168, 129.99**

Available Oct. 15, 1994

# We Have a Multimeter for Everyone

And anyone can use a multimeter to find everyday problems like damaged cords, blown fuses and bad connections. Our meters with a built-in continuity buzzer find common faults instantly, and help you avoid unnecessary repair bills.

Our selection includes everything from basic models for general household and vehicle use to advanced multimeters with capabilities undreamed of only a short time ago. All are UL listed.



## LCD frequency counter

Accurate! Shows frequency of a nearby transmitter or RF source, from 1 to 1300 MHz. Great for service work: confirms RF output from cordless phones, CBs, radio/TV circuits. Hams: use to set VFO on frequency. Backlight, slow/fast update, 50 Ω or hi-Z BNC input. Rugged 5¾" -high case. Requires 4 "AA" batteries or AC adapter. **22-305, 99.99**



## True RMS, temperature

Auto-ranging and accurate True RMS AC volt/current readings. Measures frequency to 2 MHz, dBm, capacitance, transistor gain—even shows NPN/PNP polarity and ECB pinout on display! Measures temperature in C° or F° with included probe. Continuity, diode-check, stand. 7 × 3¾ × 1⅝". Requires 6 "AA" batteries. **22-174, 89.99**



## Capacitance, True RMS

True RMS operation for more accurate AC volts and current readings. Measures capacitors and transistor gain. Checks diode and semiconductor junctions. Data hold freezes display to provide a "snapshot" of fast-changing readings. Continuity buzzer, bargraph display, stand. 6⅝ × 3⅞ × 1⅝". Requires 4 "AA" batts. **22-181 ... 79.99**



## Auto-ranging, holster

Perfect meter to take along. A rubber holster protects it from mechanical shocks. Auto-range operation: Select function and meter sets range. Has continuity buzzer, data hold, DC microampere (low-current) range, diode-check, bargraph. Auto power off saves batteries. Stand, hang-up slot. 7½ × 3⅝ × 1⅝". Requires 2 "AA" batts. **22-167 ... 69.99**



## Single-hand operation

Edge-placed controls for easy one-hand operation. Continuity buzzer lets you fast-check wiring and connectors. Diode-check safely tests semiconductor junctions. Autopolarity for valid readings even if you connect test leads in reverse. Low-battery indicator. Stand. 6⅝ × 3⅞ × 1⅝". Requires 4 "AA" batteries. **22-183 ... 59.99**



## **NEW** Auto-ranging

Simplified controls make this tester an excellent choice for household or automotive use. Select function—volts, current or resistance—and range is set for you. Has continuity buzzer, manual override, data hold to freeze display, overload alert, handy fold-out stand. 6⅞ × 2⅞ × 1⅝". Requires 2 "AA" batteries. **22-163 ... 49.99**



Meter Cat. No.	Display Type	Continuity Buzzer	Auto-ranging	Manual Range Select	Total Ranges/Modes	LCD Display Digits	Bar Graph Display	True RMS	Freq. Counter	Measures Capacitors	Bipolar Transistor Gain	Diode Transistor Check	Auto-Polarity	Data Hold	Uses Fuse(s)	Maximum Measurements					
																DC Volts	AC Volts	DC Amps	AC Amps	Ohms	dBm
22-163	Digital	✓	✓	✓	22	3¾							✓	✓	0.5A	1000	750	10	10	4M	
22-166	Digital	✓	✓	✓	16	3½							✓	✓	0.315A	1000	750	200mA		20M	
22-167	Digital	✓	✓	✓	28	3¾	✓						✓	✓	0.5A	1000	750	10	10	30M	
22-168	Digital	✓	✓	✓	38	3½	✓		20 MHz	✓	✓	✓	✓	✓	2A, 20A	1000	750	20	20	2000M	
22-169	Digital	✓	✓	✓	9	3½							✓	✓	400	400				10M	
22-174	Digital	✓	✓	✓	48	3⅔	✓	✓	2 MHz	✓	✓	✓	✓	✓	5, .063A	1000	750	10	10	19.9M	+54
22-175	Digital	✓	✓	✓	48	3⅔	✓	✓	2 MHz	✓	✓	✓	✓	✓	5, .063A	1000	750	10	10	19.9M	+54
22-179	Digital	✓	✓	✓	15	3¾							✓	✓	400	400				4M	
22-181	Digital	✓	✓	✓	36	3⅔	✓	✓		✓	✓	✓	✓	✓	5, .063A	1000	750	10	10	40M	
22-183	Digital	✓	✓	✓	25	3⅔							✓	✓	0.5A	1000	750	10	10	30M	
22-211	Analog			✓	25										0.5A	1200	1200	300mA		2M	+63
22-212	Analog			✓	8										0.315A	1000	1000	150mA		100k	
22-215	Analog	✓		✓	43										0.75A	1000	1000	10A		20M	+62
22-216	Analog	✓	✓	✓	28								✓		0.5A	1000	1000	3	3	200M	+62
22-221	Analog			✓	18										0.5A	1000	1000	250mA		2M	+62

Multimeters have 10-megohm input sensitivity for high accuracy. Multimeters, multimeters, AC ammeter are listed under UL 1244. Windows, MS-DOS, TM of Microsoft Corp.

## Digital, auto-ranging



Easy to use! Autopolarity, 5-position control. Select DC volts, AC volts, resistance or DC current—the meter sets correct range automatically. Diode-check lets you quick-test diodes and transistors. Autopolarity protects meter and gives you valid readings if you connect leads to circuit in reverse. Low-battery indicator.  $5 \times 3 \times 1\frac{1}{8}$ ". Requires 2 "AA" batteries. 22-166 ..... 39.99

## Pocket-size digital



Basic, rugged and compact. Take it along or keep it handy in your toolbox, vehicle glovebox, desk or kitchen drawer. The continuity buzzer checks fuses, cords, more. Auto-ranging/manual. Recessed controls, low-battery and over-range indicators. Measures DC volts, AC volts and resistance.  $4\frac{1}{2} \times 2\frac{3}{16} \times \frac{3}{8}$ ". With case and batteries. 22-169 ..... 27.99

## NEW Fold-up digital



This basic auto-ranging meter folds to easily fit in a shirt pocket or purse. Perfect for home. Ranges for resistance, AC or DC volts are set automatically. Continuity buzzer checks wiring, fuses, cords. Diode-check. Low-battery indicator. Folds to just  $4\frac{1}{4} \times 1\frac{3}{16} \times 2\frac{1}{4}$ ". Includes batteries. 22-179 ..... 24.99



## Digital, True RMS, benchtop

Big features! Auto-ranging, built-in 2 MHz frequency counter, transistor gain and capacitance measurement, continuity buzzer, diode-check mode. True RMS for accurate AC readings. Data hold, min./max., relative measurement, dB. 48 functions!  $2\frac{1}{16} \times 8\frac{1}{2} \times 4\frac{3}{4}$ ". Requires 6 "AA" batts. 22-175, 99.99



## NEW Auto-ranging analog tester

Radio Shack exclusive! Combines the easy reading and trend-spotting capability of an analog display with the convenience of auto-ranging. For common measurements, simply select the function and the tester sets the range for you automatically. LEDs on the display light to indicate the range in use. Up and down pushbuttons let you select ranges manually. Autopolarity helps protect the tester and gives you valid readings if you connect the leads to a circuit in reverse.

Continuity buzzer lets you quick-test fuses, wiring, switches and more. Millivolt and microamp ranges give you accurate readings from low-power circuits. Measures decibels in six ranges. You can check the tester's batteries without removing them.

The large  $4\frac{1}{8}$ " scale is mirrored and color-coded for easy reading. Replaceable fuse.  $6\frac{1}{16} \times 4\frac{11}{16} \times 1\frac{9}{16}$ ". Requires 4 "AA" batteries. 22-216 ..... 59.99

Available Oct 15, 1994

## NEW Analog tester with 43 ranges



Range-doubler switch gives you more accurate current and voltage readings. Continuity buzzer, 125 mV and 25  $\mu$ amp DC ranges,  $4\frac{1}{2}$ " color-coded scale. Up to 50,000  $\Omega$  per volt DC sensitivity.  $6\frac{5}{8} \times 5\frac{3}{16} \times 1\frac{13}{16}$ ". Requires one "AA" and one 9V battery. 22-215, 49.99

## Fold-up analog tester



Full-size meter folds for travel or storage. Ideal for tool box. When shut, the movement is shunt-protected from shocks. Detented hinge lets you adjust display angle for easier viewing. 25 ranges. DC and AC volts, DC current, resistance and dB. 20,000  $\Omega$ /volt.  $7\frac{5}{16} \times 4\frac{3}{8} \times 1\frac{5}{16}$ ". open. Req. "AA" batt. 22-211, 34.99

## 18-range analog



Value! Features an easy-to-read 3" meter with color-coded, mirrored scale. The precision movement is fuse-protected and resistant to mechanical shock. It measures DC and AC volts, DC current, resistance, dB. Up to 20,000  $\Omega$ /V DC.  $5\frac{1}{8} \times 3\frac{1}{2} \times 1\frac{9}{16}$ ". Requires "AA" battery. 22-221 ... 24.99

## Pocket-size analog



Our perennially popular 8-range pocket tester is great for beginners or a second meter. It measures AC and DC volts, DC current and resistance. Range selector has "off" position to protect the movement during travel. 2000  $\Omega$  per volt DC sensitivity.  $3\frac{3}{8} \times 2\frac{1}{2} \times 1\frac{1}{4}$ ". Requires one "AA" battery. 22-212, 14.99

## Extra leads & accessories

### Make your tester even more versatile

Radio Shack stocks extra test lead sets, wire-piercing probe adapters, and handy clip adapters in micro, mini and standard sizes. See page 131.



### Timesaving digital logic probe

A "must" for testing digital and computer circuits. This easy-to-use tester helps you pinpoint problems by indicating high, low and pulsed logic states (up to 10 MHz) with color-coded LEDs. A simultaneous tone output frees your eyes for faster testing. Has CMOS/TTL-LS selector switch. Powered by circuit under test. With instructions. 22-303 ..... 17.99

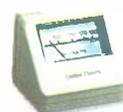


### DC voltmeter

This ready-to-mount meter is ideal for monitoring the voltage of a power supply or a vehicle electrical system. It's a great addition to electronic projects, too.

An easy-to-read scale shows 0 to 15 volts DC with  $\pm 5\%$  accuracy. Features precision jeweled movement.  $2\frac{3}{4} \times 2\frac{1}{4} \times 1\frac{1}{4}$ ", overall. Mounts in a  $1\frac{1}{8}$ " panel hole. 270-1754 ..... 12.99

### Plug-in AC voltage monitor

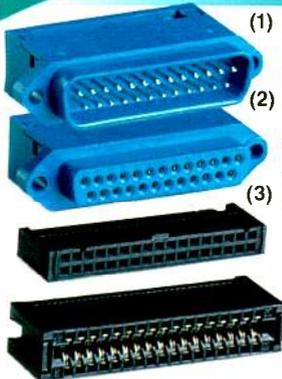


Incorrect AC voltage, either much higher or much lower than normal, can do serious damage to computer systems, stereos, TV sets and many other appliances. You can check the voltage instantly by plugging this meter into AC outlets. Its color-coded scale shows safe operating voltage at a glance. Indicates 96 to 130 volts AC with  $\pm 2\%$  accuracy. 22-104 ..... 12.99



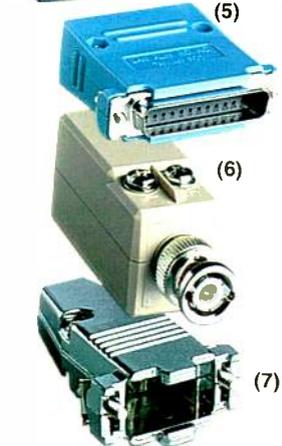
### Clamp-on AC ammeter

Now you can measure AC circuit loads and power consumption of AC appliances like the pros. This meter measures AC current without a direct connection to circuit and measures AC volts with the included test probes. Clamp jaws permit quick insertion into a tight space. The lock switch freezes the scale pointer so you can remove the meter for easy reading. Measures up to 300 amps AC in five ranges, up to 600 volts DC in two ranges. The included pickup/multiplier lets you measure power consumption of any 120VAC appliance that has an AC power plug.  $7\frac{3}{8} \times 2\frac{13}{16} \times 1\frac{3}{8}$ ". With instructions. 22-161, 49.99



**Solderless IDC-type connectors**  
 Couldn't be easier—these Insulation Displacement Connectors (IDC) attach to multiconductor ribbon cable used in many computer peripheral hookups. Just insert the ribbon and push down to lock it into place. No soldering, no screws...no mess!

Fig.	Description	Cat. No.	Each
1	25-position D-sub male	276-1559	3.99
2	25-pos. D-sub female	276-1565	3.99
3	34-position header	276-1525	2.49
4	34-position card edge	276-1564	1.99

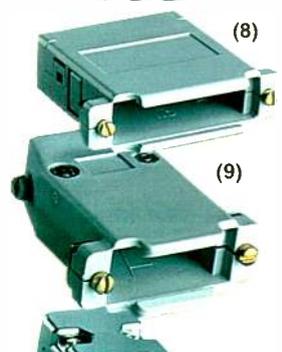


**Computer-to-modular adapters for local-area networks**  
 You can use these connectors to create your own "super information highway" over short distances. Link your computer to other systems and area networks with ordinary telephone wiring instead of the more costly shielded cable.

(5) RS-232 male D-sub 25 to RJ-11. Has 6-position modular jack. Connects up to six RS-232 peripheral lines of your choice. 276-1405 ..... 2.99

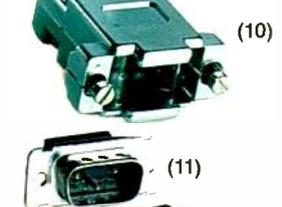
RS-232 female D-sub 25 to RJ-45. Has 8-position modular jack. 276-1406 ..... 4.49

(6) BNC male connector to modular phone jack. 276-1410 ..... 16.99



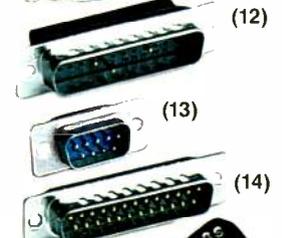
**D-sub hoods for 9-pin and 25-pin D-sub connectors**  
 Professional D-sub casing with built-in strain relief. Fits snugly over D-sub connectors to protect crimp and solder contacts from dirt, dust and damage for higher reliability and stable mounting. Can be used for plug or receptacle connectors. Includes hardware.

Fig.	Description	Cat. No.	Each
7	9-position metal	276-1508	2.19
	25-position metal	276-1510	2.79
8	25-pos. gender changer	276-1520	1.79
9	9-position nonshielded	276-1539	.99
	25-position nonshielded	276-1549	1.19
10	9-position metalized	276-1513	1.49
	25-position metalized	276-1536	1.99



**Crimp D-sub connectors**  
 Gold-plated contacts for high reliability.

Fig.	Description	Cat. No.	Each
11	9-position male	276-1427	.99
	9-position female	276-1428	1.49
12	25-position male	276-1429	1.99
	25-position female	276-1430	2.49



**Solder D-sub connectors**  
 Gold-plated pins and terminals.

Fig.	Description	Cat. No.	Each
13	9-position male	276-1537	.99
	9-position female	276-1538	1.29
14	25-position male	276-1547	1.49
	25-pos. female	276-1548	1.99



**D-sub and IDC tools**

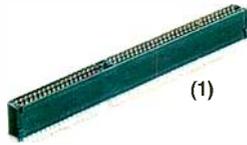
(15) IDC tool. Attach IDC connectors to ribbon cables with ease. (CMC) 276-1596 ..... 12.99

(16) D-sub pin crimper. Professional steel tool accepts #20, #24 and #28 connector pins. 6<sup>7</sup>/<sub>8</sub>". 276-1595 ..... 9.99

CMC items are available fast through Radio Shack's special-order service—see page 130.

## Your Best Source for Computer Cable Connections

Need a cable or adapter to link up your computer to a printer, peripheral or telephone network system? We have all types of common cables that you might want in stock. And, if you need a special cable for a particular need, whether it's for temporary or permanent use, we have all the parts you need to build a professional-style cable yourself!



**Edge card connector**  
 (1) For 98-pin AT-bus card. 276-1454 ..... 4.99



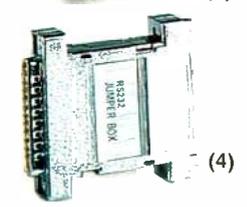
**Peripheral hookup helpers**

(2) RS-232 troubleshooter. Spots problems fast! Handy checker connects inline to check out computers and peripheral devices. Displays status with dual-color LEDs that monitor seven RS-232 data/control lines. D-sub 25. 276-1401 ..... 14.99



(3) DIP programming shunts. Mini shorting jumpers for instant plug-on programming for 0.025" (.64mm) headers on 0.100" (2.54mm) centers. Fit over pins on PC board. 276-1512 ..... Pkg. of 10/1.29

(4) RS-232 serial jumper box. Shielded shunt box allows you to custom design an inline adapter for serial communications to suit your need. Includes jumper wires and coupling hardware. 276-1403 ..... 9.99



**DIN connectors**

(5) For computer keyboard and peripheral hookups, custom extension cords and European audio.

Type	Pins	Cat. No.	Each
Jack	5	274-006	1.69
Plug	5	274-003	1.79
Plug	6	274-020	1.79
Plug	8	274-026	1.79



**Multiconductor cable**

(6) 4-conductor, dual-shield. 30-ft. 278-777, 8.99

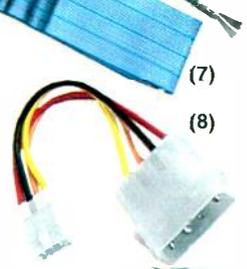
(7) Nonshielded ribbon cable. 25-conductor, 5 feet. 278-772 ..... 3.99

36-conductor ribbon. 6 feet. 278-774 ..... 4.69

(8) 5<sup>1</sup>/<sub>4</sub>" -to-3<sup>1</sup>/<sub>2</sub>" disk drive adapter. 278-765 ..... 2.49

10" drive-extension cable. 278-767 ..... 2.49

Power "Y". For powering two drives. 278-766, 2.99



**Do-it-yourself! Computer tool kit**

A full 14-piece fix-it kit in a compact tool box! Includes 1/8" slotted and #0 Phillips screwdrivers, an 8-28 pin DIP chip extractor with 2 securers, 8-28 pin DIP chip inserter tool, three-prong parts retriever/extractor with "V" slotted edge, assembly tweezers and extra parts tube. It also has a universal screwdriver handle with five interchangeable shafts: #1 Phillips, 3/16" slotted, T-15, 1/4" nutdriver, 3/16" nutdriver and fitted carry case with transparent cover. 64-1972, 14.99

**Solderless breadboards for no-mess experimentation and design!**

The easy way to make trial hookups when building or designing your projects! Each breadboard accepts a wide variety of devices so you can put it together and make circuit changes as easy as plugging and unplugging wires. And when your circuit is working properly, it's simple to transfer it to a matching PC board to build a soldered, permanent version.

(1) Our finest breadboard. This deluxe molded 2 1/4 x 6 1/2" board is mounted on a 7 x 4" "stay put" steel base with non-slip rubber feet. Plug-in points accept DIP ICs, discrete components and jumper wires—see Fig. 5. Provides a total of 640 plug-in tie points and has three binding posts for external connections. 276-169 ..... **21.99**

(2) 6" modular IC breadboard socket. All-purpose board with silver-nickel low-resistance contacts. Features two bus strips and 550 indexed plug-in points. And it's modular—you can attach more sockets for complex designs. 2 1/8 x 6". 276-174 ..... **12.49**

(3) Matching printed circuit board. Layout matches modular breadboards for easy circuit transfer. Features a total of 550 predrilled indexed connect points. 2 1/16 x 6 x 1/16". 276-170 ..... **2.79**

(4) Modular IC breadboard socket. This is a smaller version of Fig. 2 and has 270 plug-in points to construct and test small circuits and experimental projects. 2 1/8 x 3 5/8 x 1/16". 276-175 ..... **7.99**

(5) Jumper wire kit. Speeds building! Includes 140 insulated, prestripped wires. 10 each of 14 different lengths in a snap-shut box. 276-173 .... **Set 5.49**

**Predrilled project boards**

(6) Grid-style designed PC boards make assembly and experimentation quick and easy. Solder-ringed holes accept DIPs, sockets and header. Indexed for pin-out ID to keep circuits organized.

Size	Holes	Cat. No.	Each
4 1/2 x 6 5/8"	2200	276-147	<b>3.99</b>
2 3/4 x 3 3/4"	750	276-158	<b>2.39</b>
1 27/32 x 2 27/32"	356	276-149	<b>1.19</b>

(7) Multipurpose PC board. Has 419 predrilled indexed holes. 276-150 ..... **1.19**

(8) Universal component PC board. With 750 predrilled indexed holes. For ICs and DIPs up to 40 pins. 3 3/8 x 7 7/8". 276-168 ..... **2.49**

(9) Dual mini board. Ideal for simple circuits and projects. Has 213 individually predrilled holes. Can easily be snapped in half. 1 3/4 x 3 5/8". 276-148, **1.49**

(10) Dual general-purpose IC PC board. Accepts two 6 to 20-pin ICs and DIPs with four tie points for each pin. 1 3/4 x 3 3/8". 276-159 ..... **1.69**

**Plug-in card and perfboards**

(11) PC/XT plug-in card. For breadboarding digital and analog circuits. Designed to fit PC expansion connector. 3 7/8 x 10 1/16". 276-1598 ..... **29.99**

(12) IC-spacing perfboards. This particular board has an array of prepunched .042" -diameter holes in standard .100 x .100" grid pattern ideal for breadboarding home-brew circuits and projects.

Size	Cat. No.	Each
2 3/4 x 6"	276-1395	<b>2.19</b>
4 1/2 x 6"	276-1394	<b>2.39</b>
6 x 8"	276-1396	<b>3.49</b>

*We Have Everything You Need to Design Circuits Yourself!*

*Put it together and test it with an experimenter's breadboard. Then transfer it to a matching printed circuit or make your own PC board with our PC etching kit. Radio Shack makes it easy for you to do it yourself! We even have an assortment of easy-to-understand circuit-design books.*

**Beginners Welcome!** If you've never built an electronics project before, but have been itching to try your hand at it, we have a great first-time starter book, "Getting Started in Electronics", written by Forrest M. Mims, III. This book is the perfect "hands-on" introduction to electronics to get you started building your own electronic projects with confidence. You'll find it on page 210.

**Etch your own PC boards**

(1) PC board kit. Everything you need to make your own custom PC project boards—no experience or special skills needed! Includes two 3 x 4 1/2" copper circuit boards, resist-ink pen to create circuit patterns, etching and stripping solutions, tank, 1/16" drill bit, polishing pad and complete instructions. 276-1576 ..... **10.99**

Extra resist-ink pen. (CMC) 276-1530 ..... **2.49**  
 Extra etching solution. 16 ounces. 276-1535, **2.69**  
 2-sided board. 4 1/2 x 6 3/8". 276-1499 ..... **4.49**

(2) Direct-etch dry transfers. Cut out desired connection and firmly rub paper backing to easily transfer it to your plated PC board to be etched. Provides clean lines for professional-looking circuits. 276-1577 ..... **2.99**

**Beat the heat—wrap it up!**

(3) Wire-wrapping tool. Balanced and easy to use. Strips, wraps and unwraps 30-gauge wire. 276-1570 ..... **7.49**

(4) Posts for wire-wrapping. Standard 0.025" metal posts lock into holes on perfboards. 276-1987 ..... **Pkg. of 20/1.19**

(5) 30-gauge wire for wrapping. 50-feet in colors shown below ..... **Each 2.79**

Color	Cat. No.	Color	Cat. No.	Color	Cat. No.
Red	278-501	White	278-502	Blue	278-503

(6) Wire-wrapping DIP IC sockets. Standard post accepts three levels of wrapping.

Pins	Cat. No.	Price	Pins	Cat. No.	Price
8	276-1988	2/1.39	16	276-1994	<b>2/1.69</b>
14	276-1993	2/1.59	28	276-1983	<b>Ea. 1.39</b>

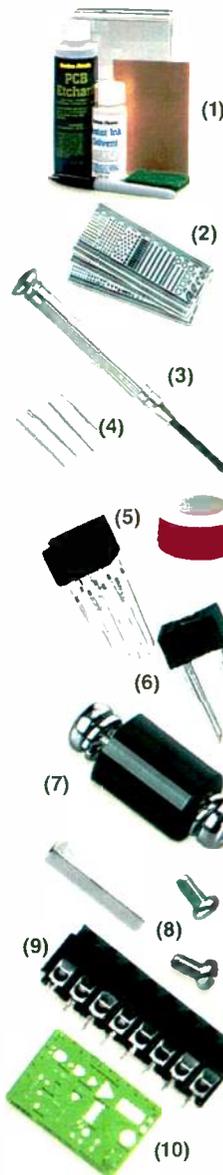
**Board accessories**

(7) **NEW!** Insulated standoffs. 10mm length board mounting posts. Two screws and washers. 276-1381 ..... **Set of 4/2.19**

(8) Metal standoffs with screws. 1/16" -high board mounting posts. 276-195 ..... **Set of 4/1.29**

(9) PC board wire terminals. Two-position. For wire hookups. 276-1388 ..... **Pkg. of 4/2.29**

(10) Circuit symbols drawing template. This durable guide makes it easy to draw industry-standard schematic diagrams. 276-180 ..... **3.99**



## Top-grade micro-mini and barrel rectifier diodes

(1) Micro-mini 1-amp diodes. 30-amp surge.

Type	Peak Inverse Voltage (PIV)	Cat. No.	Pkg. of 2
1N4001	50	276-1101	.49
1N4003	200	276-1102	.59
1N4004	400	276-1103	.69
1N4005	600	276-1104	.79

(2) 3-amp "barrel" diodes. 200-amp surge.

Type	Peak Inverse Voltage (PIV)	Cat. No.	Pkg. of 2
1N5400	50	276-1141	.99
1N5402	200	276-1143	1.19
1N5404	400	276-1144	1.29

PTC205 2.5-amp, 1000 PIV silicon diodes. For high-current power. 1/4 x 3/16".  
276-1114 ..... Pkg. of 3/1.49

## Popular switching and hard-to-find signal diodes

(3) 1N914/4148 type. Popular silicon switching diode. 75 PIV.  
276-1122 ..... Pkg. of 10/1.19

(4) 1N34A type. Hard-to-find general-purpose germanium signal diode. 60 PIV.  
276-1123 ..... Pkg. of 10/1.19

## (5) 1-watt zener diodes for voltage reference, more

Type	Voltage	Cat. No.	Pkg. of 2
1N4733	5.1	276-565	99c
1N4735	6.2	276-561	99c
1N4739	9.1	276-562	99c

Type	Voltage	Cat. No.	Pkg. of 2
1N4742	12.0	276-563	99c
1N4744	15.0	276-564	99c

## Multi-Pak bargains—only \$2.29 each

(6) 50 silicon switching diodes. 1N914/4148-type. Popular for logic. Switching time low as 4 ns. PRV: 90.  
276-1620 ..... 2.29

(11) 10 rectangular LEDs. May include red, green, yellow, regular and high-efficiency types.  
276-1655 ..... 2.29

(7) 15 NPN transistors. General-purpose silicon, high-speed, medium power switching transistors. 600 mW.  
276-1617 ..... 2.29

(12) 4 rectifier diodes. Rated 6 amps. 50 PIV. Use for replacement and power supply projects. 276-1661 ..... 2.29

(8) 15 amplifying transistors. PNP small-signal type, similar to 2N3906. 350 mW dissipation. Popular TO-92 case. 276-1604 ..... 2.29

(13) 5 voltage regulators. Includes one 7805, one 7812 and three other types. For power supply projects and replacements. 276-1660 ..... 2.29

(9) 25 rectifier diodes. Ten 1N4001s, five 1N4002s, five 1N4004s and five others are included. 276-1653, 2.29

(14) 5 photocells. CdS photoresistors respond to light. Various styles and ratings. 276-1657 ..... 2.29

(10) 20 assorted LEDs. May include MV-series, green, red, amber, and infrared emitters. Light up projects and models at low cost.  
276-1622 ..... 2.29

(15) Inductor assortment. 30 pieces! May have RF/IF/video peaking coils, chokes, transformers.  
273-1601 ..... 2.29

(16) 12 trimmer resistors. Assorted values and styles.  
271-1605 ..... 2.29

## Metal-Oxide Varistor AC-surge protector

(17) Heavy-duty MOV. Prevents damage to electronic equipment by

diverting voltage surges present on AC power lines. 276-568 ..... 1.99

## Fixed-voltage regulator ICs for projects/replacement

(18) Feature built-in overload protection and thermal shutdown. Maximum input: 35VDC. Heat sink such as our #276-1363 is required for full 1-amp current rating. TO-220 case.

Type	Output VDC	Cat. No.	Each
7805	+5	276-1770	1.19
7812	+12	276-1771	1.19

## Silicon-controlled rectifiers and triac

(19) Ideal for motor speed control.  
6A, 200 volts. 276-1067 ..... 99c  
6A, 400 volts. 276-1020 ..... 1.19

6-amp triac. Ideal for light dimmers, heating element control. Rated up to 400 volts. 276-1000 ..... 1.49

## Full-wave bridge rectifiers for power supplies

(20) 4-amp. 50 PIV. 276-1146, 1.39  
4-amp. 100 PIV. 276-1171 ..... 1.59  
4-amp. 400 PIV. 276-1173 ..... 1.99  
(21) 1-amp, 200 PIV. DIP-style. Two fit into a 14-pin DIP socket.  
276-1161 ..... 99c

(22) 25-amp, 50 PIV. Metal case for maximum heat dissipation. Center mounting hole. 276-1185 ..... 2.69

(23) 6-amp, 250 PIV. Mtg. hole.  
276-1181 ..... 2.49

(24) 1.4-amp, 100 PIV. 276-1152, 1.19

## Adjustable voltage regulators for power supplies

■ Perfect for variable power supplies  
(25) LM723. Adjustable 2 to 37VDC output. 150 mA maximum. 14-pin DIP. 276-1740 ..... 99c

(26) LM317T. Adjustable 1.2 to 27VDC output. Heat sink required for maximum current rating of 1.5 amps. TO-220 case. 276-1778 ..... 1.99

# Build It Yourself

Only Radio Shack has all the components you need to complete your special project

We stock a complete selection! And, we can get one-of-a-kind and hard-to-find switching, rectifier and signal diodes fast—through our Special-Order Service. See page 130.



### Audio amp with speaker

Ideal for voice/music uses, phone, project or test amp. High-gain IC circuit, 1/8" input and earphone jacks. 3 3/8" high. Requires 9V battery or AC adapter. 277-1008, 11.99



### Silicon solar cell

Harness the sun with this efficient 2 x 4 cm cell. Delivers about 0.3A at 0.55VDC in full sunlight. Get several to charge batteries, run devices. 276-124 ..... 4.19



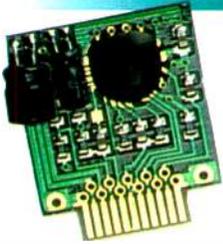
### Solar power project set

Build a solar-powered project. Also great for science class. Includes solar cell prewired to DC motor, color wheels, propeller and data booklet. 277-1201 ..... 10.99

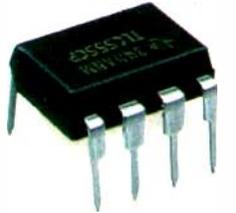


### Panel-mount prewired thermometer/controller

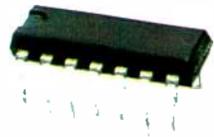
Use "as is" for thermometer or add circuits to control buzzer, LED, fan or heater. Hi/lo activation temps, -40 to +122°F and -40 to +50° C ranges, 1/2" LCD display. Draws only 10 microamps. With probe, cord, data. 2 1/16 x 1 3/8 x 1 1/8". Requires "AA" battery. (CMC) 277-123 ..... 19.99



Actual item may vary from photo



Popular ICs for many projects and repairs



**Digital-voice record/playback module**

ISD-VM1110. Provides natural, high-quality record/playback for short message applications (10 seconds). Zero-power message storage eliminates the need for battery backup circuits. Retains

recordings for about 100 years. 100,000 record cycles. No programmer or development system needed. Operates from a single 4.5-6.5V supply. With data. Available Oct. 15, 1994. **276-1324, 18.99**

**Digital-voice record/playback IC**

ISD1000A. Records and plays up to 20 seconds. Delivers a natural, high-quality playback suitable for voice, music, sound effects and tones. Has built-in power amp and logic circuits, and can store

several messages. Operates from a single 5-volt supply. Includes all specifications and application data for easy-to-build circuits. Requires additional components. **276-1325 ..... 17.99**

**Linear IC chips for projects and replacement**

TLC555 low-power CMOS timer. Has same pinout as 555 timer below. Operates to 2 MHz. 8-pin DIP. **276-1718 ..... 1.39**

555 timer. For timing and oscillator applications. 8-pin DIP. **276-1723 ..... 1.19**

556 dual timer. Two 555 timers in one chip. 14-pin DIP. **276-1728 ..... 1.49**

LM386 audio amp. Popular in projects. Low-distortion 400 milliwatt output. For 8-ohm load. 4-12VDC operations. 8-pin DIP. **276-1731 ..... 1.19**

741 op amp. Popular general-purpose operational amplifier. Overload protected. Frequency compensated. 8-pin DIP. **276-007 ..... 79c**

1458 dual op amp. 8-pin DIP. **276-038 ..... 99c**

LM324 quad op amp. 14-pin DIP. **276-1711 ..... 1.29**

TL082 dual BiFET op amp. High impedance inputs. 8-pin DIP. **276-1715, 1.89**

LM339 quad comparator. Four voltage comparators in 14-pin DIP. **276-1712, 99c**

LM3909 LED flasher. Flashes an LED with a minimum of support parts. Operates on single-cell (1.5VDC) power source. Has many other possible uses—great for projects. 8-pin DIP. **276-1705 ..... 1.69**

MC1488 quad line driver. Useful for connecting computers and remote terminals using economical twisted pair wiring. 14-pin DIP. **276-2520 ..... 1.29**

MC1489 quad line receiver. Companion for quad line driver. Can provide multiple outputs and perform logic-level translation. 14-pin DIP. **276-2521 ..... 1.29**

# Quality Parts

Our ICs are 100 percent manufacturer's first-quality devices—not floor sweepings or rejected shipments. All are marked and date-coded to assure you're getting the latest version.



**Getting Started in Electronics**

By Forrest M. Mims, III. Now in its 12th printing. Perfect "hands-on" intro to electronics. It features easy-to-understand text and big diagrams hand-drawn by Mims, one of America's most popular science writers. 128 pages. **276-5003 ..... 2.99**



**Semiconductor Reference Guide**

Lists over 95,000 semiconductor types and the replacements in stock at Radio Shack. Provides detailed data on our ICs, modules, LEDs, SCRs and diodes. **276-4015 .. 3.99**



**Science Fair comic book**

Fun and informative reading for kids. Includes 15 easy-to-perform projects in physics, chemistry, earth science, computer science, and more. **68-2005, 50c**



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7400-series TTL digital ICs			
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**Replacements for 60,000 transistors in stock**

Each transistor includes data and pin-out diagram.

Direct Commercial Equivalent	Replaces*			Pol	Use	Diss.	Case	Cat. No.	Each
	GE Type GE	Sylvania Type ECG	RCA Type SK						
MPS2222A	20	123A	3122	NPN	GP	500mW	TO-92	276-2009	.59
MPS3904	20	123A	3122	NPN	SW	350mW	TO-92	276-2016	.59
TIP31	66	152	3054	NPN	P	40W	TO-220	276-2017	.99
TIP3055	241	130	3027	NPN	P	90W	TO-220	276-2020	1.59
MPS2907	82	159	3025	PNP	SW	400mW	TO-92	276-2023	.59
MJE34	34	197	3084	PNP	P	90W	TO-220	276-2027	1.49
2N3053	241	128	3024	NPN	P	5W	TO-39	276-2030	.99
TIP120		261	3180	NPN	O	65W	TO-220	276-2068	1.29
2N3055	14	181	3027	NPN	P	115W	TO-3	276-2041	1.99
MJ2955	74	219	3335	PNP	P	150W	TO-3	276-2043	1.99
2N4401	20	123AP	3444	NPN	SW	350mW	TO-92	276-2058	.49
2SC1308	38	238	3115	NPN	HO		TO-3	276-2055	6.99

**N-channel field-effect transistors (FETs)**

Direct Commercial Equivalent	Use	Diss	gfs min/max mhos	Case	Cat. No.	Each
2N3819	GP	360mW	2.0/6.5	TO-92	276-2035	.99
MPF102	VHF Amp/Mixer	310mW		TO-92	276-2062	.99

\*Replaces in most circuits. See product package for exact specs. D = Darlingon P = Audio Amp. Switch  
NOTE: Parameters are at 25° GP = General Purpose SW = Switch HO = TV Horizontal Output

**IRF-510 power MOSFET**

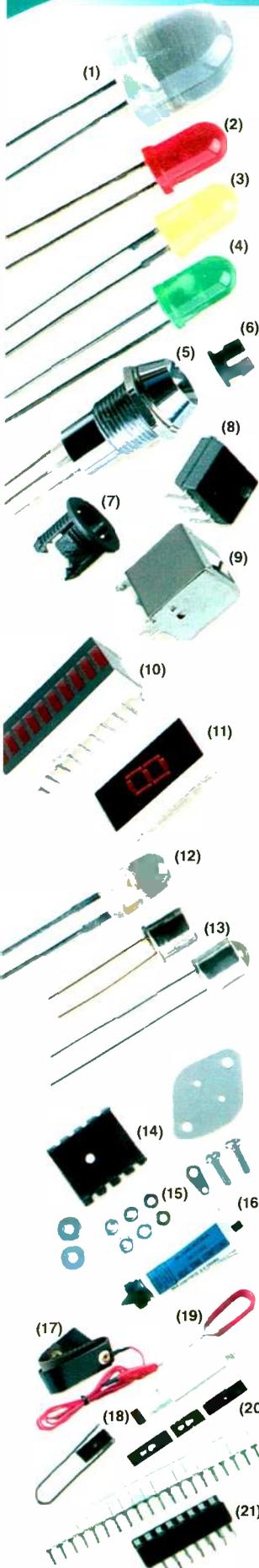
N-channel device for switching power supplies and inverters, relay drivers, motor controllers, even an audio power

amp. High thermal immunity, handles up to 60VDC, 3 amps. TO-220 type case. **276-2072 ..... 1.99**

GE is a trademark of General Electric Co. ECG is a trademark of Philips ECG. SK is a trademark of RCA Corporation.



## LEDs and holders



(1) **Jumbo-size super-bright red LED.** Big and bright, yet it runs cool. 10mm ( $\frac{3}{8}$ " ) diameter. Incredible 5000 mcd (millicandelas) light intensity. Rated about 20 mA at 1.85VDC. **276-086** ..... 5.19

(2) **10mm LED holder.** Deluxe chrome-finished holder is the ideal mounting for above. Fits  $\frac{11}{16}$ "-diameter panel hole. **276-063** ..... 1.69

**Super-bright red LED.** 2000 mcd brightness in a standard T-1 $\frac{3}{4}$  size package. Rated 20 mA at 1.85VDC. **276-087** ..... 1.79

(3) **High-brightness red LED.** 500 mcd light intensity. T-1 $\frac{3}{4}$  size. 20 mA at 1.75VDC. **276-066** ..... 1.29

(2) **Low-current red LED.** Rated 2 mA, ideal for battery-powered circuits. T-1 $\frac{3}{4}$  size. **276-044** ... 99¢

(3) **Dual-color LED.** Two LEDs in a single T-1 $\frac{3}{4}$ -size 2-lead package. Orange or green output. Rated 30 mA, 2.8V maximum. **276-012** ..... 1.19

(3) **Jumbo yellow LEDs.** T-1 $\frac{3}{4}$  size. 6.3 mcd light intensity. Rated 10 mA at 2.1VDC. **276-021**, Pkg. of 2/99¢

(4) **Jumbo green LEDs.** 6.3 mcd light intensity. Rated 10 mA at 2.1VDC. **276-022** ..... Pkg. of 2/99¢

**Jumbo red LEDs.** T-1 $\frac{3}{4}$  size. 6.3 mcd light intensity. Rated 10 mA at 2VDC. **276-041** ..... Pkg. of 2/99¢

**Mini red LEDs.** T-1 size. 6.3 mcd light intensity. Rated 10 mA at 2VDC. **276-026** ..... Pkg. of 2/99¢

(5) **Dual-color LED in panel holder.** Red or green output. Chromed metal holder mounts in a  $\frac{13}{32}$ " panel hole. Maximum ratings per element: 10 mA at 2.0VDC. **276-025** ..... 1.59

**Blinking LEDs.** Combine an IC driver and red LED in a T-1 $\frac{3}{4}$ -size 2-lead package. Typical ratings at 3VDC are 2 Hz blink rate and 55 mA current. **Red. 276-036** ..... 1.29  
**Green. 276-030** ..... 1.29

## Heat sinks and semiconductor mounting hardware

(14) **TO-220 heat sink.** For PC board mounting. **276-1363** ... 99¢

(15) **Mounting hardware set.** For power transistors and regulators in TO-3 case. Insulators, bushings, screws, solder lug. **276-1371**, 1.39

(16) **TO-220 mounting hardware.** Has mica insulator, screws, washers. **276-1373** ..... Set 1.39

## Wrist strap, IC handling tool and IC sockets

(17) **Static-draining wrist strap.** For handling ICs. Has 24" ground lead with clip. **276-2397** ..... 3.79

(18) **IC inserter/extractor set.** Install and remove 6 to 40-pin DIPs without damage. Extractor works with LSI, MSI and DIPs. Both tools are groundable to prevent static damage. **276-1581** ..... 7.49

(19) **Soldering heat sink.** Clips to semiconductors and low-power passive devices so you can solder them without damage. **276-1567** ... 1.29

(6) **Snap-in holders for LEDs.** For T-1 size LEDs and  $\frac{11}{64}$ " (4.1mm) diameter panel holes. Gives projects a "pro" look. **276-078**, Pkg. of 5/59¢

(7) **Snap-in holders for T-1 $\frac{3}{4}$  LEDs.** Fit  $\frac{1}{4}$ " (6.5mm) panel hole. **276-079** ..... Pkg. of 5/59¢

**Deluxe chromed LED holders.** Accept T-1 $\frac{3}{4}$ -size LEDs and fit  $\frac{1}{4}$ " (6.5mm) diameter panel hole. **276-080** ..... Pkg. of 2/1.19

(8) **MOC3010 optocoupler.** Triac output. For low-current, isolated AC switching. 6-pin DIP. **276-134**, 1.99

(9) **Infrared detector module.** Easy-to-use device is the heart of a remote-control project. Combines IR detector, limiter, bandpass filter, demodulator, integrator and comparator in a  $\frac{5}{8} \times \frac{1}{2} \times \frac{19}{32}$ " package. Ideal for mounting on PC board. 5 VDC. Detailed data sheet included. **276-137** ..... 3.59

(10) **10-segment red LED bargraph Display.** 20-pin DIP package. Rated 20 mA, 2VDC per element. **276-081** ..... 2.99

(11) **7-segment LED digital display.** Common cathode numerical display. 14-pin DIP. **276-075** ..... 1.79

(12) **High-output infrared LED.** Type SSY-IR53L is a Gallium Aluminum Arsenide high-output infrared emitting diode in a T-1 $\frac{3}{4}$ -size package. Wavelength: 880 nm. Rated 20 mA at 1.3VDC, about 3.4 mW/cm<sup>2</sup> radiant power output. **276-143** ..... 1.69

(13) **Infrared emitter and detector.** Matched IR LED and a phototransistor detector. **276-142** ..... Set 1.99

**Infrared phototransistor.** (Not shown.) Type SY32PT is an NPN silicon phototransistor in a T-1 $\frac{3}{4}$ -style package. Fast and sensitive, it's well-suited to infrared switching applications, projects and experimenting with lightwave communications. Two-lead device with 50 mW maximum dissipation. **276-145** ..... 99¢

(16) **Heat sink grease.** Assures proper heat transfer between semiconductor device and heat sink. 6.5 grams. **276-1372** ..... 1.69

**Conductive foam mat.** 5 x 5" pad. Protects ICs from static damage. Great for workbench or transporting ICs, it pays for itself the first time it saves a chip. **276-2400** ..... 1.29

(20) **20-position SIP socket.** PC board socket for single-inline-pin devices. **276-1975** ..... 1.59

(21) Solder-type DIP IC sockets.		
Pins	Cat. No.	Price
8	276-1995	Pkg. of 2/1.59
14	276-1999	Pkg. of 2/1.99
16	276-1998	Pkg. of 2/1.99
18	276-1992	Each .49
20	276-1991	Each .59
28	276-1997	Each .99
40	276-1996	Each .99

# Lighten Up With Our LEDs

Radio Shack is your nearby source for LEDs. We stock popular jumbo, high-brightness, infrared and even blinking LEDs. We also have holders that make it easy to mount LEDs in panels. Each LED package gives you handy information on pinout polarity, typical current drain and absolute maximum ratings.

**BUZZ WORDS**

**LEDs**, short for light-emitting diodes, are small solid-state components that convert electricity into light. LEDs are low-voltage, low-current devices, ideal for use as indicators in projects, model railroads, doll houses, even electronic jewelry.

**Heat Sinks** safely radiate the heat produced by semiconductors such as voltage regulators and high-power transistors.

**Mounting Hardware.** Radio Shack stocks mounting hardware for semiconductors in the popular TO-3 and TO-220 case styles. Other heat sinks and mounting accessories are available through our fast special-order service.

**Handling ICs.** ICs, short for integrated circuits, can be damaged or rendered unusable by everyday static electricity. Radio Shack offers a wrist strap and IC insertion/extraction tools that help prevent damage from static electricity.



**PLCC square IC extractor**

A spring-assisted tool for quick and safe removal of PLCC devices from sockets. Requires no pulling. An easy squeeze of the handles lifts the chip.

Featuring hardened steel tongs, it fits all 18 to 124-lead PLCCs and has ESD handles for safe use on static-sensitive chips. **276-2101** ..... 9.99

**1/4-watt, 5% tolerance carbon-film resistors in popular values—sold in packs of 5, each only 49c**

Ohms	Cat. No.	Ohms	Cat. No.	Ohms	Cat. No.
10	271-1301	1k	271-1321	33k	271-1341
100	271-1311	2.2k	271-1325	47k	271-1342
150	271-1312	3.3k	271-1328	100k	271-1347
220	271-1313	4.7k	271-1330	220k	271-1350
270	271-1314	10k	271-1335	470k	271-1354
330	271-1315	15k	271-1337	1 meg	271-1356
470	271-1317	22k	271-1339	10 meg	271-1365

**1/2-watt, 5% tolerance carbon-film resistors in popular values—sold in packs of 5, each only 49c**

Ohms	Cat. No.	Ohms	Cat. No.	Ohms	Cat. No.
10	271-1101	330	271-1113	5.6k	271-1125
15	271-1102	390	271-1114	10k	271-1126
22	271-1103	470	271-1115	15k	271-1127
33	271-1104	560	271-1116	22k	271-1128
47	271-1105	680	271-1117	33k	271-1129
68	271-1106	1k	271-1118	47k	271-1130
82	271-1107	1.2k	271-1119	100k	271-1131
100	271-1108	1.5k	271-1120	220k	271-1132
150	271-1109	2.2k	271-1121	470k	271-1133
180	271-1110	3.3k	271-1122	1 meg	271-1134
220	271-1111	3.9k	271-1123	2.2 meg	271-1135
270	271-1112	4.7k	271-1124		

**Tremendous buys in resistor assortments and more**

(1) 1/4-watt metal-film assortment. 1% tol. Set of 50. 271-309, Set 2.29  
5 each: 10, 1k, 10k, 100k 4 each: 47, 100, 470, 2.2k, 4.7k, 1 meg, 2 each: 150, 220, 15k.

1/4-watt carbon-film assortment. 5% tol. 100 pieces. 271-308, Set 2.99  
10 each: 10, 1k, 10k, 100k 8 each: 47, 100, 470, 2.2k, 4.7k, 1 meg, 4 each: 150, 15k, 220k.

1/4-w carbon-film assortment. 5% tolerance. 500 pieces—your cost is about 1.6¢ each! 271-312, Set 7.99  
30 each: 1k, 10k, 100k, 10 each: 1, 10, 100, 120, 150, 180, 220, 330, 470, 560, 1.5k, 2.2k, 3.3k, 4.7k, 15k, 22k, 47k, 470k, 1 meg, 10 meg 5 each: 2.2, 15, 22, 33, 39, 47, 51, 68, 82, 180, 270, 390, 510, 680, 820, 1.2k, 1.8k, 2.7k, 3k, 3.9k, 5.1k, 5.6k, 6.8k, 8.2k, 12k, 18k, 27k, 33k, 39k, 51k, 56k, 68k, 82k, 120k, 150k, 180k, 270k, 330k, 1.5 meg, 2.2 meg, 3.3 meg, 4.7 meg.

(2) Precision thermistor. Resistance changes in proportion to temperature. -50 to +110° C range. 271-110, 1.99

(3) Horizontal-style trimmers. Micro-size. Rated 0.1W, 50VDC. . . Each 49c

Ohms	Cat. No.	Ohms	Cat. No.
1k	271-280	47k	271-283
4.7k	271-281	100k	271-284
10k	271-282		

(4) 15-turn trimmers. PC-mount. Rated 3/4-watt. . . . . Each 1.49

Ohms	Cat. No.	Ohms	Cat. No.
1k	271-342	10k	271-343

(5) NEW! 1.2-watt rheostat. 20-ohm ± 20% tolerance wirewound variable resistor. 271-265A . . . 3.99

(6) 100k-ohm stereo control. With 40% loudness tap. 1/2"-long, 1/2"-diameter shaft. Mounts in 3/8" hole. 271-1732 . . . . . 1.99

(7) 10k-ohm audio control with SPST switch. Mini size with 1/8" shaft. Fits 5/16" hole. Switch rated 3 amps at 120VAC. 271-215 . . . . . 1.99

(8) Potentiometers. Mount in a 5/16"-diameter hole. . . . . Each 1.29

(9) SPST pot switch. On/off switch mounts on rear of pots in Fig. 4, many others. 3A at 120VAC. 271-1740, 99c

(10) Wirewound resistors in popular values

Ohms	Watts	Cat. No.	Price	Ohms	Watts	Cat. No.	Price
10	2	271-080	2/.99	10	10	271-132	2/.99
0.47	5	271-130	Ea./\$.59	50	10	271-133	2/.99
1.0	10	271-131	2/.99	100	10	271-135	2/.99

(11) Metal-oxide. One-watt. 5%. 10 ohms. 271-151, Pkg. of 2/49c  
100 ohms. 271-152, Pkg. of 2/49c  
1k ohms. 271-153, Pkg. of 2/49c

(12) 8-ohm non-inductive resistor. Rated 20 watts. 5% tolerance. Useful in high-power audio hookups and projects. 271-120 . . . . . 1.49

(13) Color-code guide speeds repairs and projects

Pocket size. Simple to use. Just match values of resistors, capacitors and inductors. 271-1210 . . . . . 1.19

# All About Resistors

**QUESTION:**  
What are resistors?

**ANSWER:**

Resistors are devices that restrict the flow of electricity. Resistors are rated in ohms—the higher the ohms value, the more a resistor restricts the flow of electrical current. Resistors are also rated in watts, the unit of measuring electrical power. As a resistor restricts electricity, heat is produced. The watt rating tells us the amount of electrical power a resistor can handle safely.

**QUESTION:**

How do I choose a resistor?

**ANSWER:**

When choosing a resistor for a repair, it's important to select one with the same, or nearly the same ohms value as the original. The resistor should be the same type: carbon-film, wirewound, etc., and have the same or a higher wattage rating. It's OK to substitute a 1/2-watt resistor for a 1/4-watt resistor, but don't use a 1/4-watt resistor to replace a 1/2-watt or larger resistor.

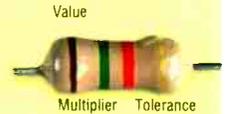


Resistor color codes		
Value	Multiplier	
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	100000
Blue	6	1000000
Violet	7	10000000
Gray	8	100000000
White	9	1000000000
Tolerance		
No color	20%	
Silver	10%	0.01
Gold	5%	0.1

**QUESTION:**  
How do I read the color codes?

**ANSWER:**

The first and second color bands indicate the value in ohms. In the example, the bands are brown and green, which equals 15. The third band is the multiplier, orange, which indicates 1000. Thus, the resistor has a value of 15 times 1000 or 15,000 ohms. The fourth band indicates tolerance, the amount the ohms value can vary. In the example, the tolerance band is gold, equaling ± 5%. The value of the resistor is 15,000 ohms with a possible variation of ± 5%. In diagrams and texts, 1000 ohms is often shortened to 1k ohm and one million ohms to 1 megohm. Another abbreviation you'll see is the symbol for ohms: Ω.

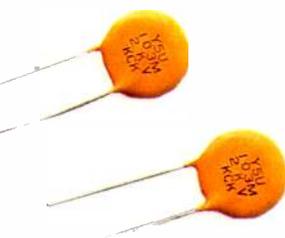




Axial-lead electrolytics



Radial-lead electrolytics



Low-loss Hi-Q ceramic discs



High-capacity tantalums



Mini PC-mounts rated 50 WVDC



Metal film caps rated 200 WVDC



Nonpolarized electrolytics

Axial-lead electrolytic capacitors			
μF	WVDC	Cat. No.	Each
4.7	35	272-1012	.49
10	35	272-1013	.59
22	35	272-1014	.69
47	35	272-1015	.69
100	35	272-1016	.99
220	35	272-1017	.99
470	35	272-1018	.99
1000	35	272-1019	1.59
2200	35	272-1020	2.49
4700	35	272-1022	3.59
1000	50	272-1047	1.99
2200	50	272-1048	3.49

Radial-lead electrolytic capacitors			
μF	WVDC	Cat. No.	Each
220	16	272-956	.99
470	16	272-957	.99
1000	16	272-958	.99
4.7	35	272-1024	.49
10	35	272-1025	.59
22	35	272-1026	.69
47	35	272-1027	.69
100	35	272-1028	.99
220	35	272-1029	.99
470	35	272-1030	.99
1000	35	272-1032	1.59
100	50	272-1044	.99

Hi-Q ceramic discs			
Moistureproof coating, extra-long leads.			
Value	WVDC	Cat. No.	Pkg. of 2
4.7pF	50	272-120	.49
47pF	50	272-121	.49
100pF	50	272-123	.49
220pF	50	272-124	.49
470pF	50	272-125	.49
.001μF	500	272-126	.59
.0047μF	500	272-130	.59
.01μF	500	272-131	.59
.047μF	50	272-134	.59
.1μF	50	272-135	.69

0.01 μF, 2 kV. For demanding bypass and coupling jobs. 272-160 . . . . . Pkg. of 2/1.19

Tantalum High capacity. IC pin spacing. 20% tolerance.			
μF	WVDC	Cat. No.	Each
0.1	35	272-1432	.59
0.47	35	272-1433	.59
1.0	35	272-1434	.59
2.2	35	272-1435	.69
10	16	272-1436	.79

PC-mount Long leads permit point-to-point wiring, too.			
μF	WVDC	Cat. No.	Pkg. of 2
.01	50	272-1065	.59
.022	50	272-1066	.69
.047	50	272-1068	.69
.1	50	272-1069	.79
.22	50	272-1070	.89

Metal-film Low leakage. Stable at high temperatures.			
μF	WVDC	Cat. No.	Each
.01	200	272-1051	.59
.1	200	272-1053	.79
1.0	200	272-1055	1.19

Nonpolarized Electrolytics for speaker crossovers, audio filters.				
μF	Approx. Crossover Frequency (8 Ohms)	WVDC	Cat. No.	Each
1.0	10 kHz	50	272-996	.99
2.2	8 kHz	50	272-997	.99
4.7	4 kHz	50	272-998	.99
10.0	2 kHz	50	272-999	.99

## Capacitors Ceramic Discs to Electrolytics

At Radio Shack, you'll find a wide variety of capacitors to fit your equipment. Our standard ceramic types include high-capacity tantalums and tiny monolithic capacitors. We carry nonpolarized electrolytics, like those used in speaker crossover networks, and polarized electrolytics including both axial-lead and radial-lead types. Plus, we have money-saving assortment packs available.

**REMEMBER:** It is always best to replace a capacitor with one of the same type. Electrolytic and standard capacitors are not interchangeable. It's OK to replace a capacitor with one of the same value that has a higher working voltage (WV or WVDC). Never replace a capacitor with one having a lower working voltage.

(1) (2)

**Monolithics and picofarads**

(1) 0.1 μF monolithic. 50 WVDC. Perfect for chip bypass. 272-109 . . . . . Pkg. of 5/1.89

(2) Picofarad 50-pack. 50WVDC. For service techs and tweekers! Hard-to-find values from 1 to 33 pF. 272-806 . . . . . Set of 50/2.99

**Electrolytic assortment**

Up to 50 WVDC. Includes mini and submini sizes in a variety of values and styles to complete your parts inventory. 272-802 . . . . . Set of 20/2.29

**Set of 100 disc capacitors**

Up to 1000 WVDC. Bargain! Many include NPO, Hi-Q, N750, mylar and ceramic types. Assorted values and voltage ratings. 272-801 . . . . . 2.29

Can't find the one you need here? We can special order it for you—see page 130.



Prefocus types used in many penlights



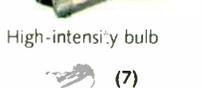
High-intensity bulb



Thin penlight bulb with prefocus lens



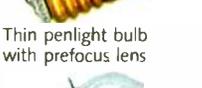
Super-bright krypton



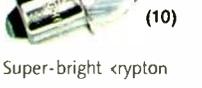
LEDs in panel-mount holders



Lamp assemblies that include bulb



Choose your lamp holder here



Compact E-10 Base



Bayonet Base. Solder Tabs



E-10 Base. Screw Terminals



E-5 Base. 3/8" Mounting Hole



Bayonet. 5/8" Mounting Hole With 1 Red, 1 Green Lens



E-5. 2 Red, 2 White Lenses



Mini lamps



12V flashing lamps



6V colored lamps



12V microlamps

Premium-grade incandescent* bulbs							
Fig.	Volts	mA	Type	Base	Cat. No.	Pkg. of	Price
1	6.0	100	T-1 $\frac{3}{4}$	E-5 Threaded	272-1142	2	1.19
	12.0	75	T-1 $\frac{3}{4}$	E-5 Threaded	272-1143	2	1.19
	1.2	250	112	E-10 Threaded	272-1174	2	1.19
	2.33	270	243	E-10 Threaded	272-1124	2	1.19
	2.47	300	14	E-10 Threaded	272-1132	2	1.19
2	6.3	150	40	E-10 Threaded	272-1128	2	1.19
	6.3	250	46	E-10 Threaded	272-1130	2	1.19
	7.5	220	50	E-10 Threaded	272-1133	2	1.19
	14.0	200	1487	E-10 Threaded	272-1134	2	1.19
	14.4	100	52	E-10 Threaded	272-1127	2	1.19
3	2.33	270	PR-4	Flange	272-1122	2	1.19
	2.38	500	PR-2	Flange	272-1120	2	1.19
	3.57	500	PR-3	Flange	272-1121	2	1.19
	4.75	500	PR-13	Flange	272-1151	2	1.19
	4.8	500	PR-15	Flange	272-1125	2	1.19
	5.95	500	PR-12	Flange	272-1123	2	1.19
	7.2	550	PR-18	Flange	272-1168	2	1.19
	8.63	500	PR-20	Flange	272-1166	2	1.19
	6.3	250	44	Bayonet	272-1108	2	1.19
	6.3	50	47	Bayonet	272-1110	2	1.19
4	6.3	150	1847	Bayonet	272-1115	2	1.19
	14.0	230	1891	Bayonet	272-1112	2	1.19
	14.0	200	1815	Bayonet	272-1118	2	1.19
	14.4	120	53	Bayonet	272-1117	2	1.19
	28.0	40	1819	Bayonet	272-1119	2	1.19
5	14.0	270	194	Wedge	272-1126	2	1.19
6	12.8	1.04A	93	Bayonet	272-1116	1	1.19
7	12.0	40	...	Bi-Pin	272-1154	1	1.39
8	120 NE2H $\frac{1}{2}$ -W Neon (add resistor**)				272-1102	2	.69
	120 NE2 $\frac{1}{2}$ -W Neon (built-in resistor)				272-1100	2	1.19
9	2.4	360	T-1 $\frac{3}{4}$	E-5 Threaded	272-1176	2	1.29

\*Except Fig. 8, which are neon. \*\*Requires a 22k ohm resistor for use on 120 volts.

Super-bright krypton lamps for flashlights									
Flange bases. Can replace PR-type standard flashlight lamps.									
Type	Volts	mA	Cat. No.	Each	Type	Volts	mA	Cat. No.	Each
K4	2.33	480	272-1169	1.19	K15	4.8	700	272-1162	1.19
K1	2.4	600	272-1156	1.19	K12	6.0	650	272-1163	1.19
K2	2.4	830	272-1157	1.19	K18	7.2	700	272-1164	1.19
K3	3.6	800	272-1158	1.19	K222	2.33	600	272-1175	1.19

LEDs in panel-mount holders						
Fig.	Description	Mtg. Hole	Cat. No.	Pkg. of	Price	
11	2.1VDC Red Snap-In	$\frac{5}{16}$ "	276-018	2	2.19	
12	1.9VDC Red	$\frac{1}{4}$ "	276-068	2	1.99	
...	2.1VDC Green	$\frac{1}{4}$ "	276-069	2	1.99	
13	2VDC Dual-Color, Red or Green	$\frac{3}{8}$ "	276-025	1	1.59	
14	12VDC Red Snap-In	$\frac{1}{4}$ "	276-011	1	1.99	
15	2.2VDC Red Super-Bright Snap-In	$\frac{11}{32}$ "	276-088	1	1.89	

Lamp assemblies that include bulb					
Fig.	Description	Mtg. Hole	Cat. No.	Pkg. of	Price
16	12-Volt, Jumbo Red	$\frac{19}{32}$ "	272-336	2	2.59
17	12-Volt, Green Snap-In	$\frac{1}{2}$ "	272-337	2	1.79
18	12-Volt, Hi-Brightness Red	$\frac{9}{32}$ "	272-331	2	1.59
19	12-Volt, Red Snap-In	$\frac{1}{2}$ "	272-332	2	1.99
20	12-Volt, Green Micro	$\frac{7}{32}$ "	272-334	2	2.19
21	12-Volt, Blue Snap-In	$\frac{1}{2}$ "	272-335	2	1.99
22	120-Volt Neon, Jumbo Red	$\frac{5}{8}$ "	272-710	1	1.99
23	120-Volt Neon, Red (Square)	$\frac{7}{16}$ "	272-704	2	1.99
24	120-Volt Neon, Amber	$\frac{9}{32}$ "	272-707	2	1.99
25	120-Volt Neon, Green	$\frac{5}{16}$ "	272-708	2	2.59
26	120-Volt Neon, Red	$\frac{5}{16}$ "	272-712	2	2.19

Choose your lamp holder here				
Fig.	Description	Cat. No.	Pkg. of	Price
27	Compact E-10 Base	272-356	1	1.19
28	Bayonet Base. Solder Tabs	272-355	6	1.19
29	E-10 Base. Screw Terminals	272-357	1	1.19
30	E-5 Base. $\frac{3}{8}$ " Mounting Hole	272-326	2	2.49
31	Bayonet. $\frac{5}{8}$ " Mounting Hole With 1 Red, 1 Green Lens	272-325	2	1.99
32	E-5. 2 Red, 2 White Lenses	272-340	2	1.79

Large-quantity discounts available at participating Radio Shack stores and dealers—see page 219.

## Lamps to Be Seen & to See By

Radio Shack makes it easy and affordable to brighten up your electronic projects or replace lamps in flashlights, dials, pilot lights and control panels. Just bring in your old bulb to get a perfect match.

### Mini lamps

(1) Miniature lamps. Draw about 25mA.  $\frac{1}{4}$ " hookup wire leads

Volts	Cat. No.
1.5V	272-1139
6V	272-1140
12V	272-1141

(2) 12V flashing lamps.

Draw about 95mA. One each red, yellow, green. 272-1097 ... Set of 3/1.39

(3) 6V colored lamps. Draw about 60mA. One each red, yellow, green. 272-1098, Set of 3/1.19 (5) 12-volt version of figure 3.

272-1099 ... Set of 3/1.19 (6) 12V microlamps. Draw about 60mA.

272-1092 ... Pkg. of 2/1.49

(5) For metal mini flashlights. Plug-in "bi-pin" bulbs.

2.5V, 300mA. 272-1149 ... Pkg. 2/2.99

(6) Krypton bulb for mini flashlights. Extra bright. 2.5V. 272-1150 ... 1.99

### Halogen lamps

(1) 12-volt, 20-watt, G-4 base, rated 350 lumens. Average life: 2000 hours. 272-1177 ... 1.99

(2) HPR50. The replacement needed for many 4-cell flashlights and 6-volt lanterns.

272-1189 ... 3.99

HPR52. For 2-cell flashlights and 3-volt lanterns.

272-1190 ... 3.99

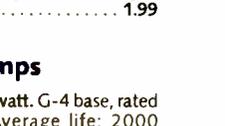
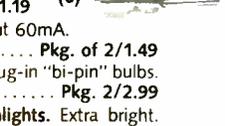
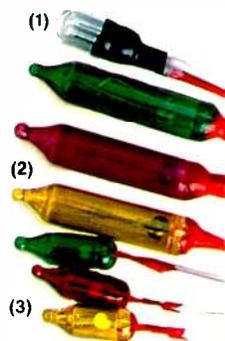
### Long-life strobe tube

This xenon strobe element is suitable for photography use and special-effects lighting projects. Trigger: 4 kV. Anode: 200 volts min., 300 volts max. With data. 272-1145, ... 3.29

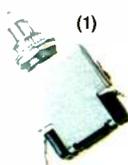
### Halogen quartz projector lamps

Whiter, brighter light delivers stable color and constant output with no bulb blackening. Faceted, dichroic reflector for a bright, cool, efficient beam. Easy to install, accurate snap-in alignment. Overhead (ENX). 360W, 82V. 272-1504, 18.99 Slide (ELH). 360W, 120V. 272-1505 ... 19.99

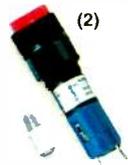
A complete line of projector lamps is available fast through our Special-Order Service—see page 130.



## Illuminated AC switches



(1) Lighted 125VAC SPST push on-push off. Panel-mount switch with a heavy-duty 10-amp rating. For use at 125VAC only. Switch button is lighted when switch is "on". This switch acts as a status indicator for the circuit or device it controls. Requires a 7/16" mounting hole. 275-671 ..... 3.99



(2) Lighted 125VAC push on-push off. Rated 3 amps at 125VAC, this panel-mount switch is great for projects. It has a preinstalled, replaceable indicator lamp that requires 12 volts, AC or DC. Requires a 7/8" mounting hole. 275-676 ..... 11.99

Replacement bulb for fig. 2. Long-life "bi-pin" miniature 12-volt replacement lamp for the switch above. 272-1154 ..... 1.39



## Push on-push off and momentary-type switches for panel-mounting

(3) SPST push on-push off. Rated 3 amps at 250VAC. Requires a 1/2" mounting hole. 275-011 ..... 1.39

Momentary version of fig. 3. Normally open. 275-609, Pkg. of 2/1.99



(4) SPST push on-push off. Rated 3 amps at 250VAC. Requires 1/2" mounting hole. 275-617 ..... 1.69

Momentary version of fig. 4. Normally open. 275-618 ..... 1.89



(5) SPST "soft-feel" push on-push off. Rated 3A/125VAC. Requires 3/8" mounting hole. 275-1565 ..... 2.19

Momentary version of fig. 5. Normally open. 275-1566 ..... 2.99



(6) SPST momentary. Normally open. Rated 0.5 amp at 125VAC. 3/8" mtg. hole. 275-1571, Pkg. of 2/2.39



(7) Mini SPDT push on-push off. Rated 3 amps at 125VAC. 3/16" mounting hole. 275-1555 ..... 2.79



(8) Mini SPDT momentary pushbutton. Rated 3 amps at 125VAC. 1/4" mounting hole. 275-1549 ..... 2.99

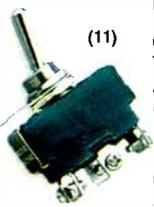


(9) Mini SPST momentary. This normally open light-duty switch is a popular choice for projects. Rated 0.5 amp at 125VAC. 1/4" mounting hole. 275-1547 ..... Pkg. of 4/2.69

Normally closed version of fig. 9. 275-1548 ..... Pkg. of 4/2.89

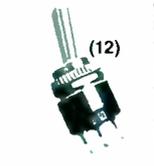


(10) SPST mini momentary pushbutton. Normally open. Rated 3 amps at 125VAC. 1/4" mounting hole. 275-1556 ..... Pkg. of 2/1.99



## Heavy-duty toggle switches

(11) DPDT with center off position. This popular switch is rated 10 amps at 125VAC and has screw terminals. On-off-on label plate. Requires 7/8" mounting hole. 275-1533 ..... 1.89



(12) Flat lever heavy-duty. Rated 6 amps at 250VAC. Has 3/8 x 1" lever and requires a 7/16" diameter mounting hole. UL listed.

SPST. 275-651 ..... 1.99  
 DPDT. 275-652 ..... 2.49  
 SPDT with center off position. 275-654 ..... 2.39  
 DPDT with center off position. 275-653 ..... 2.69



(13) SPDT heavy-duty. Rated 5 amps at 125VAC. Requires 7/16" mounting hole. 275-603 ..... 1.59  
 SPST. Rated 3 amps at 125VAC. 275-602 ..... 1.29  
 DPDT. Rated 3 amps at 125VAC. 275-666 ..... 1.59

## Miniature, submini and micro-size toggle switches

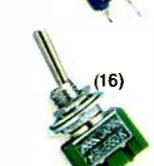


(14) Flatted metal lever. 6 amps at 125VAC. Requires 1/4" mtg. hole. SPST. 275-634, 2.69 SPDT. 275-635, 2.89 DPDT. 275-636 ..... 3.39

Three-piece toggle switch kit. Rated 3 amps at 125VAC. One DPDT, two SPST. 275-322 ..... Set of 3/2.69

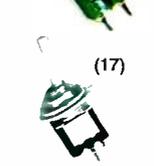


Mini. 6A/125VAC. 1/4" mtg. hole. DPDT. 275-663 ..... 3.59 DPDT center off. 275-664 ..... 3.79



(15) High-current mini. 10 amps at 125VAC. Requires 1/4" mtg. hole. SPST. 275-324, 2.89 SPDT. 275-326, 2.99 SPDT center off. 275-325 ..... 3.39 DPDT center off. 275-1545 ..... 5.89

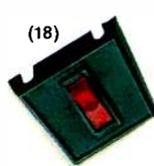
Micromini. 3A/125VAC. 1/4" hole. SPST. 275-624, 2.29 SPDT. 275-625, 2.39 DPDT. 275-626 ..... 2.59



(16) Submini. 3A/125VAC. 1/4" hole. SPST. 275-612, 2.49 SPDT. 275-613, 2.59 DPDT. 275-614 ..... 2.99 DPDT center off. 275-620 ..... 5.29

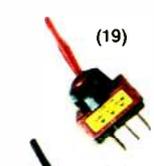
(17) PC-mountable submini SPST. 0.3 amp/125VAC. Also panel mountable in 1/4" hole. 275-645 ..... 3.19

## Automotive-type switches



(18) Lighted rocker switch and panel. SPST switch rated 20 amps at 12VDC. With mounting hardware. 275-704 ..... 4.49

Dual lighted flip switch and panel. Switches rated 20 amps at 12VDC, each. 275-702 ..... 3.19



(19) Lighted flip switch. Rated 20 amps at 12VDC. 275-706 ..... 2.59

SPST flip switch. Rated 16 amps at 12VDC. 275-701 ..... 1.99

Heavy-duty flip switch. Rated 25 amps at 12VDC. 275-708 ..... 1.99



(20) DPDT flip switch. With center off position. Rated 20 amps at 12VDC. 275-710 ..... 2.39

DPDT momentary flip switch. Has spring return to center off position. 20 amps at 12VDC. 275-709, 2.79

## High Quality, Wide Selection & Low Prices



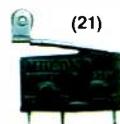
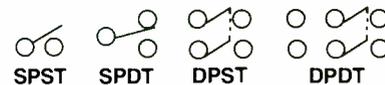
SPST. Single-Pole, Single-Throw switches have two terminals (hookup points). They switch one circuit on/off.

SPDT. Single-Pole, Double-Throw switch one terminal, usually the middle, between two outside terminals.

DPST. Double-Pole, Single-Throw switch two circuits on or off at the same time.

DPDT. Double-Pole, Double-Throw switch two inside terminals between outside terminal pairs.

Momentary Switches. Normally open switches are "on" when you push a button or lever. A doorbell button is a normally open switch. Normally closed switches turn the circuit off when pressed.



## Values in lever, mercury, knife, rotary, slide, rocker and DIP-type switches

(21) SPDT with 3/4" roller lever. Operating force: 5 grams. Rated 5 amps at 250VAC. Body size: 3/4 x 1/4 x 3/8". UL listed. 275-017 ..... 2.19

SPDT With 3/4" lever. Rated 5 amps at 250VAC. 275-016 ..... 1.99



(22) Mercury Bulb. Perfect for motion detectors and experiments. Rated 2 amps at 12VDC. 275-040 ..... 1.29



(23) Rotary 2-pole, 6-pos. Nonshorting. 0.3A/125VAC. 275-1386 ..... 1.39

Rotary 1-pole, 12-position. Shorting. 0.3A/125VAC. 275-1385 ..... 1.39



(24) DPDT knife switch. Screw terminals for quick, easy hookup. Many low-power and low-voltage uses including model railroads, hobby projects, and antenna switching. Rated 0.5 amp. 1 1/8 x 2 3/8 x 3/4". NOT FOR AC OR HIGH-VOLTAGE USE. 275-1537, 1.59



(25) SPST submini slide switches. 0.3A, 125VAC. 275-406 ..... Pkg. of 2/99c

DPDT submini slide. 0.3, 125VAC. 275-407 ..... Pkg. of 2/1.19

SPST heavy-duty slide. 3A/125VAC. 275-401 ..... Pkg. of 2/1.19

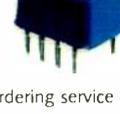


(26) DPDT heavy-duty slide. 3A/125VAC. 275-403 ..... Pkg. of 2/1.39

SPDT slide switches. Rated 3 amps at 125VAC. 275-409 ..... Pkg. of 2/1.19



(27) Heavy-duty rocker switches. 6A at 125VAC. 3/4" mounting hole. SPST. 275-690 ..... 1.99 DPDT. 275-691 ..... 2.59



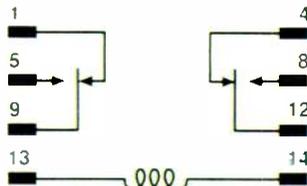
(28) DIP switches. Plug into standard DIP sockets. Digital/low-current uses. 4-position. Fits 8-pin DIP socket. 275-1304 ..... 1.59

8-position. Fits 16-pin DIP socket. 275-1301 ..... 1.79

## Plug-in relay with socket

(1) 12VDC coil. DPDT contacts: 3 amps at 125VAC. Socket has holding clips, allows mounting in any position. Pull-in: 9.6VDC. Max. ratings: 18VDC continuous coil voltage. 2.3W cont. coil dissipation (20° C). **275-206 ... 5.99**

WIRING/PIN OUT (Fig. 1)

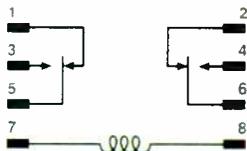


## 10-amp plug-in relays

(2) Heavy-duty, available with a 12VDC or a 125VAC coil. This relay is ideally suited for switching high-current AC appliances and lighting circuits. The DPDT contacts, rated 10A at 125VAC, are silver cadmium-oxide (stationary) and silver-copper (movable).

**12VDC coil. 275-218 ... 6.49**  
**125VAC coil. 275-217 ... 6.49**  
**Socket for above. 275-220, 1.89**

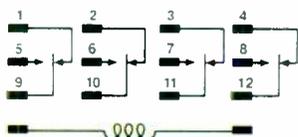
WIRING/PIN OUT (Fig. 2)



## 4PDT plug-in relay

(3) Switches up to four circuits. 12VDC coil. The long-life silver-copper contacts are rated 3 amps at 125VAC. Pull in: 9.6VDC. Max. ratings: 18VDC continuous coil voltage, and 2.3W cont. coil dissipation (20° C). **275-214, 5.99**  
**Socket for above. 275-221, 1.79**

WIRING/PIN OUT (Fig. 3)



(1)



(2)



(3)

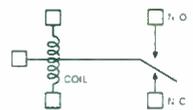


(4)

## Mini 2-amp SPDT relay

(4) 7-9VDC coil. Contacts: 2A, 125VAC. Mounts on PC board. 500-ohm coil provides high sensitivity and low current requirement of 18 mA. **275-005, 2.99**

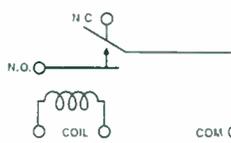
WIRING/PIN OUT (Fig. 4)



## Mini 10-amp SPDT relay

(5) 12VDC coil. PC-board mtg. Heavy-duty 10A at 125VAC contact rating in a small size, only 9/16" high. **275-248 ... 2.99**

WIRING/PIN OUT (Fig. 5)

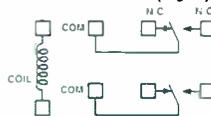


(5)

## Mini 5-amp DPDT relay

(6) 12VDC coil. Contacts: 5 amp at 120VAC. High reliability at a low cost. **275-249 ... 3.99**

WIRING/PIN OUT (Fig. 6)

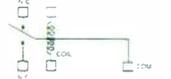


(6)

## DIP 2-amp SPDT relay

(7) Perfect for breadboarding. Fits DIP socket. **275-243, 2.39**

WIRING/PIN OUT (Fig. 7)

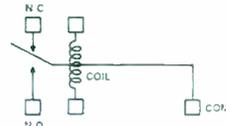


(7)

## Micro 1A SPDT relays

(8) Ideal choice for small spaces. **5VDC coil. 275-240 ... 1.99**  
**12VDC coil. 275-241 ... 1.99**

WIRING/PIN OUT (Fig. 8)



(8)

# Big Values in Little Relays

These Radio Shack relays are popular types that are ideal for all sorts of hobby and experimental projects, robotics and computer interface applications.

All are commercial-grade devices from respected manufacturers—not factory seconds or rejected shipments. Each is enclosed to prevent contamination by dust and moisture. High-reliability contacts assure long service life when operated within the specified ratings.

The plug-in types have low-resistance connection pins. The PC-mountable types have tinned leads for ease of soldering. Each relay package provides an internal schematic and pin-out diagram, full electrical specs with maximum ratings and a handy drilling guide for the PC board-mountable types.

The relays shown on this page are in stock. Several dozen other plug-in, PC-mount, reed and special-purpose relays are available fast through Radio Shack's efficient special-order service. Ask our store manager for assistance.



## 1-amp SPST reed relays

(9) These fast-response relays have coils with low current requirements. Compact size and low cost makes them a good choice for robotics, computer interfacing, and other projects that require several relays.

**5VDC coil. 275-232 ... 1.89**  
**12VDC coil. 275-233 ... 1.89**

WIRING/PIN OUT (Fig. 9)

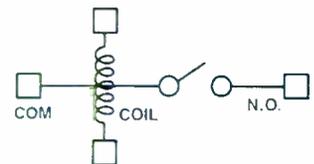
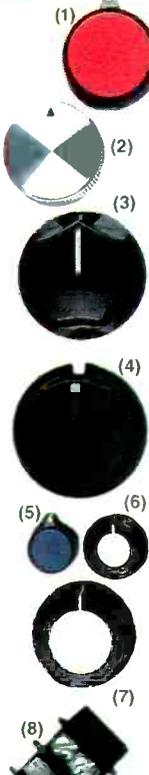


Fig	Description	Coil Rating	Contacts and Rating	Size	Cat No	Each
1	Plug-In With Socket	12VDC, 75 mA, 150Ω	DPDT. 3A at 125VAC	1 1/4 x 1 x 3/4"	275-206	5.99
2	10-Amp Plug-In	12VDC, 130 mA, 160Ω	DPDT. 10A at 125VAC	1 5/8 x 1 x 3/4"	275-218	6.49
...	10-Amp Plug-In Socket for Fig 2	125VAC, 15 mA, 4.5kΩ	DPDT. 10A at 125VAC	1 5/8 x 1 x 3/4"	275-217	6.49
...	Socket for Fig 2	...	...	...	275-220	1.89
3	4PDT Plug-In	12VDC, 130 mA, 150Ω	4PDT. 3A at 125VAC	1 3/8 x 1 1/8 x 1 1/16"	275-214	5.99
...	Socket for Fig 3	...	...	...	275-221	1.79
4	2-Amp SPDT Mini	7-9VDC, 18 mA, 500Ω	SPDT. 2A at 125VAC	3/4 x 3/4 x 9/16"	275-005	2.99

Fig	Description	Coil Rating	Contacts and Rating	Size	Cat. No.	Each
5	10-Amp SPDT Mini	12VDC, 30 mA, 400Ω	SPDT. 10A at 125VAC	9/16 x 25/32 x 5/8"	275-248	2.99
6	5-Amp DPDT Mini	12VDC, 60 mA, 200Ω	DPDT. 5A at 125VAC	7/8 x 3/4 x 1/2"	275-249	3.99
7	2-Amp SPDT DIP	5VDC, 72 mA, 70Ω	SPDT. 2A at 125VAC	3/8 x 9/16 x 3/16"	275-243	2.39
8	1-Amp SPDT Micro	5VDC, 90 mA, 55Ω	SPDT. 1A at 125VAC	1 1/32 x 3/8 x 1/4"	275-240	1.99
...	1-Amp SPDT Micro	12VDC, 37.5 mA, 320Ω	SPDT. 1A at 125VAC	1 1/32 x 3/8 x 1/4"	275-241	1.99
9	1-Amp SPST Reed	5VDC, 20 mA, 250Ω	SPST. 1A at 125VAC	1" x 5/16" dia.	275-232	1.89
...	1-Amp SPST Reed	12VDC, 11 mA, 1.05kΩ	SPST. 1A at 125VAC	1" x 5/16" dia.	275-233	1.89

### (1) Control knobs for 1/4" -diameter shafts

■ With quality brass bushings and set screws

- 
- (1) Red insert. 1" diameter by 5/8". Adds a modern look to any project. Use with blue style, below, to color-code controls. 274-433 ..... Pkg. of 2/1.29
- (2) Contemporary. 1" diameter by 5/8". Metal over plastic, handsome engraved finish. Perfect choice for tuning and volume controls. 274-424 ..... Pkg. of 2/2.19
- (3) Hexagonal. 1 1/4" diameter by 3/8". Quality knobs in a classic style. 274-407 ..... Pkg. of 2/1.29
- (4) Communications. 1 1/2" diameter by 1 1/16". Feature a knurled grip and groove pointer. 274-402 ..... Pkg. of 2/1.19
- (5) Blue insert. 1/2" diameter by 3/8". Color-matched to our popular #270-220-series enclosures. 274-403 ..... Pkg. of 2/99c
- (6) Hexagonal with aluminum insert. 3/4" diameter by 7/16". Indexed for easy control. Knurled plastic grip. 274-415 .... Pkg. of 4/1.69
- (7) Jumbo version of Fig. 6. 1" by 3/16". 274-416 ... Pkg. of 4/1.99

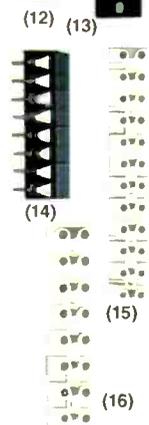
### Barrier strips & accessories

Dual-row barrier strips. Barriers between the positions help prevent accidental contact and short circuits. Great for projects, alarms, model railroad and vehicle hookups.

- 
- (8) 2-position. Heavy-duty. 274-656 ..... Pkg. of 2/1.49
- (9) 4-position version of Fig. 8. 274-658 ..... Each 1.49
- 6-position. 274-659 ... Each 1.59
- 8-position. 274-670 ... Each 2.19
- (10) 8-position jumper. Use to connect up to eight terminals on barrier strips. Can be cut for fewer terminals. 274-650 ..... 1.59
- (11) Chassis-mount feedthrough barrier strip. Eight screw terminals with 3/16" solder tabs on rear. 274-653 ..... 2.59

### Wire terminal strips

(12) Five-lug tie points. Use center lug for grounding when used on metal chassis.

- 
- 274-688 ..... Pkg. of 4/1.29
- (13) Two screw terminals with phono jack. Ideal for replacing jacks on speakers, antenna input on radios, or use on projects. 274-620 ..... Pkg. of 2/1.59
- (14) PC-board wire terminals. Two-position strip. Ideal for radio projects. 276-1388 ... Pkg. of 4/2.29
- (15) 12-position standard European-style strip. 274-679 ..... 2.39
- 8-position standard European-style strip. 274-678 ..... 1.99
- (16) 12-position jumbo European-style barrier strip. Each position accepts two wires. 274-677 ..... 4.19

## Even If You're a Beginner You Can Do It Yourself!

Radio Shack is the store for electronics do-it-yourselfers. We have friendly, expert salespeople and a huge selection of parts, supplies and tools for 'most every electronic repair, upgrade and hobby project. We also carry a complete library of "How To" books to help you with everything from building speaker systems to designing digital logic circuits.



Check our huge in-store stock of parts... if we don't have it, we can get it quick. Our CMC warehouse stocks hundreds of accessories for Radio Shack audio, video, security and computer equipment, computer software, hard-to-find batteries, phono cartridges and styli, crystals for scanners and CBs, even vacuum tubes (you may be too young to remember them) for older equipment.

You can also use our Special-Order Service to get the latest semiconductors and ICs, plus thousands of electronic parts, accessories and supplies.

Ordering is easy. Simply bring in the part, the part number, or the catalog number if you need an accessory for Radio Shack equipment. We'll verify availability and place your order. Delivery of most items is fast! Small and large orders welcome—and quantity discounts are available at participating stores.

Join the thousands of Radio Shack customers who save time, gas and phone charges by using this handy service!

**Thousands of parts in stock—thousands more available by fast special order!**

## Hook It Up Right With Radio Shack Connectors

Whether you're building a power supply for your work bench, repairing a portable radio, or replacing some worn out wires in a home appliance, Radio Shack has the connector you need.

Illustrated below are some of the most common types of connectors. Fig. A shows polarized connectors frequently used in appliances. These connectors are "keyed" to prevent accidental reversing. You can also swap male and female pins between the connector halves to make a unique plug that prevents connecting to the wrong cable. Fig. B shows coaxial DC power plugs, most often used in battery-powered electronics such as portable



(Fig. A) Polarized interlocking connector pair



(Fig. B) Panel-mount DC power jack and plug



(Fig. C) Panel-mount banana jack and plug

CD and tape players, music keyboards, and answering machines. These plugs come with different inside and outside diameters to ensure a proper fit. Fig. C shows a **banana plug** and **binding post** used in many test devices and benchtop power supplies. These plugs provide secure connections for temporary use, where soldering or crimping a connector would not be practical.

### (1) Banana plugs, binding posts and hook clips

(2) Why put up with crummy hookups when you can use these connectors to add reliability and a neat appearance to projects, test gear and high-power speaker hookups.

(1) **Stackable banana plugs.** Has banana jack for chain hookups. One red, one black. 274-734 ... Set of 2/1.59

(2) **Solderless banana plugs.** One red and one black. 274-721 ... Set of 2/1.59

(3) **Flexible banana plugs.** Flexible strain relief. Set includes one red and one black. 274-730, Set of 2/1.89

(4) **Nylon binding posts.** Mount in 3/16" -diameter holes. One red, one black. 274-662 ... Set of 2/1.59

(5) **Banana jacks.** Mount in 1/4" hole. One red and one black. 274-725 ... Set of 2/99c

(6) **Multipurpose posts.** Versatile! Accept banana plugs, spades, phone tips, wires. Includes two red, two black. 274-661 ... Set of 4/2.39

(7) **Rainbow pack of micro-hook clips.** Four colors. 270-355 ... Set of 4/2.79

(8) **Mini hook clips.** Set of one red, one black. 270-372, Set of 2/1.99

(9) **Binding post to banana plug.** Stackable. 274-716, Set of 2/5.59

(10) **Dual inline banana plug.** Built-in jack accepts test probes, probe wire and/or banana plugs. 274-717, 3.29

(11) **Dual binding posts to BNC male.** Posts have standard 3/4" spacing. 50 ohms impedance. 274-715 ... 9.99

### Accessories to make your multimeter more versatile and more valuable

(12) **Wire-piercing probe adapters.** Pierces insulation to make contact with wire. 278-715 ... Pair 3.29

(13) **Alligator clip adapters.** Great for attaching test probes to test points and terminals. 270-354, Pair 2.19

**Mini-hook adapters.** Ideal for attaching test probes to component and IC leads. 270-334 ... Pair 2.59

(14) **Micro-clip jumper wires.** 20" long. 278-017 ... Pair 4.19

**Mini-clip jumper wires.** 20" long. 278-016 ... Pair 4.19

(15) **Test leads with banana plugs.** 36" long. 278-704 ... Pair 4.49

**Mini-clip test leads.** 48" long. Clip at one end, banana plug at other. With pin-tip adapters. 278-1160 ... Pair 4.79

**Coiled 6-ft. test leads.** Test probe at one end, banana plug at the other. Coiled cord. 278-750 ... Pair 5.99

**Test leads with 90° pin tips.** 36" long. 278-712 ... Pair 2.99

**Test leads with 90° banana plugs.** 36" long. 278-713 ... Pair 3.29

**Test leads with pin tips.** 36" long. 278-705 ... Pair 3.19

### Polarized interlocking connectors

(1) **Two-pin male/female set.** Handles up to 12 amps, 250VAC per circuit. 274-222 ... Set 99c

**Heavy-duty male, 250V per circuit**

Pos.	Amps	Cat. No.	Each
2	20	274-151	.99
6	15	274-152	1.69

**Heavy-duty female, 250V per circuit**

Pos.	Amps	Cat. No.	Each
2	20	274-154	.99
6	15	274-155	1.69

**Standard male, 250V per circuit**

Pos.	Amps	Cat. No.	Each
4	9	274-224	1.09
6	9	274-226	1.39
9	9	274-229	1.59
12	7.5	274-232	1.69

**Standard female, 125V per circuit**

Pos.	Amps	Cat. No.	Each
4	9	274-234	1.09
6	9	274-236	1.39
9	9	274-239	1.59
12	7.5	274-242	1.69

### Pin extractor

(2) For standard polarized connectors. Remove male or female .093" -dia. locking crimp pins easily, without damage. 274-223 ... 4.99

### DC power connectors

I.D. = Inside Diameter.

O.D. = Outside Diameter.

(3) **Coaxial plugs.** Fit many CD and tape portables, RC cars, keyboards.

O.D.	I.D.	Cat. No.	Pkg of 2
3.5mm	1.3mm	274-1571	1.79
5.0mm	1.6mm	274-1570	1.69
5.0mm	2.1mm	274-1567	1.69
5.0mm	2.5mm	274-1568	1.69
5.5mm	2.1mm	274-1569	1.69
5.5mm	2.5mm	274-1573	1.49
6.3mm	3.0mm	274-1572	1.59

(4) **Metal panel-mount DC input jacks.** 5.5mm outside diameter.

2.1mm I.D. 274-1563 ... 1.79

2.5mm I.D. 274-1576 ... 1.69

(5) **Molded DC jacks.** 5.0mm O.D., 2.1mm I.D. 274-1565 ... 2/1.49

(6) **Inline jack.** 5.5mm O.D., 2.1mm I.D. 274-1577 ... 1.89

### Polarized connectors

7.5A, two position, 500V each.

(7) **Socket.** 274-202 ... 2.39

(8) **Plug.** 274-201 ... 2.19

### Line cords, PC power cords

(9) **Detachable 6-ft. CEE cord** with right-angle connector. Fits many computers, desk calculators. 278-1260 ... 5.99

**6-ft. CEE cord.** Detachable AC cord for computers. 278-1257 ... 3.99

**Shielded version of above.**

278-1262 ... 4.99

**12-ft. CEE cord.** 278-1261 ... 5.99

**6-ft. CEE extension.** 278-1259, 4.99

**6-ft. replacement AC cord.** With prewired 2-prong AC plug at one end. 278-1255 ... 1.39

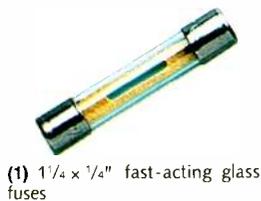
**Above with 3-prong plug.**

278-1258 ... 2.99

(10) **6-ft. recorder/radio cord.** 2-prong AC plug. 278-1254 ... 2.49

**Recorder/radio cord.** Above with different plug. 278-1256 ... 1.99

## Always Keep Spare Fuses On Hand



(1) 1/4 x 1/4" fast-acting glass fuses

(1) Fast-acting 1/4 x 1/4" glass fuses ..... Pkg. of 4/1.29

Amps	Cat. No.	Amps	Cat. No.
1/4	270-1002	3	270-1009
1/2	270-1003	4	270-1010
3/4	270-1004	5	270-1011
1	270-1005	6	270-1012
1 1/2	270-1006	7	270-1013
2	270-1007	8	270-1014
2 1/2	270-1008	10	270-1015



(2) Slow blowing glass fuses

(2) Slow-blow 1/4 x 1/4" glass fuses ..... Pkg. of 4/1.99

Amps	Cat. No.	Amps	Cat. No.
1/4	270-1017	3	270-1025
1/2	270-1018	4	270-1026
1	270-1021	5	270-1027
1 1/2	270-1022	6	270-1028
2	270-1023	7	270-1029
2 1/2	270-1024	8	270-1030



(3) Ceramic fuses for use in microwave ovens

(3) Ceramic fuses for microwave ovens ..... Pkg. of 4/1.99

Amps	Cat. No.	Amps	Cat. No.
10	270-1039	20	270-1041
15	270-1040	...	...



(4) 5 x 20mm fast-acting glass fuses

(4) Fast-acting 5 x 20 mm glass fuses ..... Pkg. of 4/1.99

Amps	Cat. No.	Amps	Cat. No.
0.315	270-1046	2	270-1052
1/2	270-1047	2 1/2	270-1053
3/4	270-1048	3	270-1054
1	270-1049	4	270-1055
1 1/2	270-1050	5	270-1056



(5) 5 x 20mm slow-blow fuses

(5) Slow-blow 5 x 20 mm glass fuses ..... Pkg. of 4/1.99

Amps	Cat. No.	Amps	Cat. No.
1/2	270-1061	3.15	270-1065
3/4	270-1062	4	270-1066
1	270-1063	5	270-1067
2	270-1064	6.3	270-1068

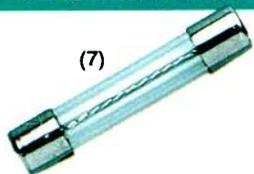
1.6-amp 5 x 20 mm fast-acting fuse. For VCRs. 270-1051, Pkg. of 4/1.99  
 0.063-amp 5 x 20 mm fast-acting fuse. Used in many popular electronic test instruments. 270-1044 ..... Pkg. of 2/2.49



(6) Thermal protector fuses for use in coffee makers & more

(6) Thermal protector fuses			
Protector in many coffeemakers and heating-type appliances. Rated 240VAC, 10 amps. .... Each 1.29			
Breaks Circuit at	141° C	128° C	228° C
Cat. No.	270-1320	270-1322	270-1321

### Automotive fuses and handy fuse kits



(7)

(7) SFE-type. 1/4 x 1/4" -diameter glass fuses.		
Amps	Cat. No.	Pkg. of 4
5	270-1071	1.29
10	270-1072	1.29
15	270-1073	1.29
20	270-1074	1.29

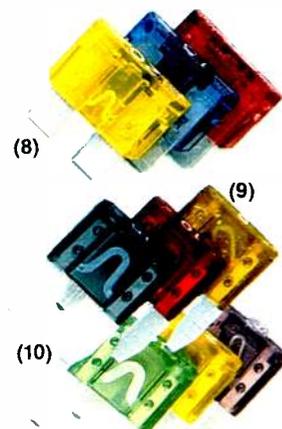
Glass-type fuse kit. Be prepared, keep spares! Kit includes two SFE-20, one each of AGC3, 10, 15, 25, 30, one each of SFE 7 1/2, 9, 14. 270-1262 ..... Set of 10/1.99

(8) Blade-type automotive fuses ..... Pkg. of 3/1.29

Amps	Cat. No.	Amps	Cat. No.	Amps	Cat. No.
5	270-1079	15	270-1082	25	270-1084
10	270-1081	20	270-1083	30	270-1085

(9) Blade-type fuse kit. Set includes one each of the most popular sizes: 5, 7 1/2, 10, 15, 20 amps. 270-1201 ..... Set of 5/1.99

(10) Mini-blade fuse kit. You'll need this new type fuse for use in your late-model car or van. Includes one each: 3, 5, 7 1/2, 10, 15, 20, 25, 30 amp, plus fuse puller tool. Avail. Sep. 30, 1994. 270-1203, Set of 8/2.99



(8)

(9)

(10)

### QUESTION: What are fuses?

#### ANSWER:

Fuses are safety devices that prevent damage to electronic and electrical equipment. They allow electric current to pass through them until the amount of current goes over the fuse's rating. At that time, the fuse "blows" and stops the flow of electric current.

### QUESTION:

#### What's the difference between fast-acting and slow-blow fuses?

#### ANSWER:

Fast-acting fuses react quickly to current overloads. Slow-blow fuses are less sensitive and provide time-delayed protection from overloads.



### MOV AC-surge protector

Metal-oxide varistor. Heavy-duty type. Prevents damage to electronic equipment by diverting voltage surges that are present on AC power lines. 276-568, 1.99



### Car fuse holders & helpers

#### Solderless glass fuse holder

1/4 x 1/4". For fuse rated up to 20 amps. 270-1211 ..... 1.19



#### Insertor/extractor tool

Install/remove glass and blade fuses without damage. 270-1199, 99¢



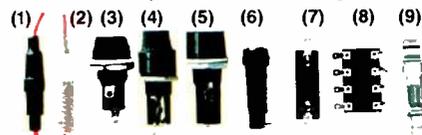
#### Inline "blade" fuse holder

Rated for fuse up to 20 amps. 270-1213 ..... 1.99



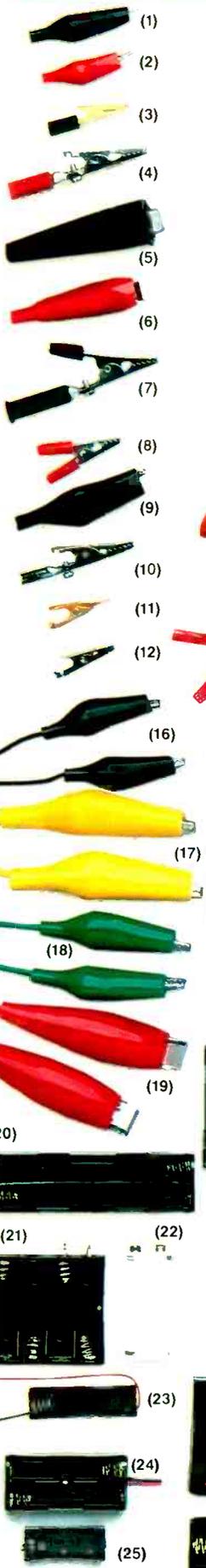
#### Blade fuse taps

The best way to connect power leads to a fuse panel. 270-1204, Pkg. of 4/99¢



250VAC fuse holders				
Fig.	Description	Rated	Cat. No.	Price
1	5 x 20mm inline. With hookup leads	5A, 250VAC	270-1238	1.59
2	1/4 x 1/4" inline	5A, 250VAC	270-1281	1.29
3	5 x 20mm panel mount fits 1/2"-dia. hole	10A, 250VAC	270-362	1.59
4	1/4 x 1/4" panel mount fits 1/2"-dia. hole	10A, 250VAC	270-364	1.29
5	1/4 x 1/4" panel mount with screwdriver slot	10A, 250VAC	270-367	1.89
6	Universal panel mount accepts 1/4 x 1/4", 5 x 20mm and 2AG sizes	10A, 250VAC	270-368	1.99
7	1/4 x 1/4" chassis mount	-	270-739	2/1.19
8	Four-position fuse block for 1/4 x 1/4"	-	270-742	2.29
9	PC-mount clips. Pairs for blade	-	270-744	Set of 6/1.19

NOTE: Always replace a blown fuse with the same type fuse having the same current and voltage ratings.



**Check this wide selection of test and hookup clips**

Fig.	Size	Type	Set Of	Description	Cat. No.	Price
1	1 3/8"	Mini	12	6 red, 6 black	270-1545	2.79
2	1 1/2"	Mini	10	3 black, 3 red, 2 green, 2 yellow	270-378	1.79
3	1 3/8"	Micro	8	Brass plated, 4 red, 4 black	270-1540	2.49
4	2 1/4"	Alligator	10	Screw terminals, 5 red, 5 black	270-375	2.79
5	2 5/8"	Claw	4	Heavy duty. Rated 10A. 2 red, 2 black	270-349	2.19
6	1 3/8"	Claw	4	Rated 5A. 2 black, 2 red	270-359	1.79
7	2 1/4"	Alligator	10	Screw terminals, 5 red, 5 black	270-347	2.29
8	1 3/8"	Mini Alligator	10	5 red, 5 black	270-374	1.59
9	2"	Alligator	4	Screw terminals, 2 black, 2 red	270-356	1.79
10	2"	Slim	8	Screw terminals	270-346	2.29
11	1 1/8"	Micro	10	All purpose, copper-plated, smooth ends	270-373	1.99
12	1 1/4"	Mini	12	Rated 1 amp. Solder type	270-380	1.79

**Heavy-duty car battery clips**

- These sets include one black and one red
- (13) 50-amp. For use on big jobs like battery booster cables. Open up to 1 1/8". 270-342 . . . Set of 2/2.49
- (14) 30-amp. Good replacement for a battery charger. 3 3/8" long. Open up to 1 1/8". 270-343, Set of 2/1.99
- (15) 10-amp. Great for test equipment. 2 1/4" long. Open up to 7/8". 270-344 . . . . . Set of 2/1.99

**Insulated test/jumper cable sets**

Color-coded test leads with insulated clip at each end provide secure connections for easy testing.

Fig.	Length	Type	Set of	Colors	Cat. No.	Price
16	14"	Mini Alligator	10	Black, green, red, white, yellow	278-1156	3.99
17	30"	Standard 1" Alligator	4	Black, green, red, yellow	278-001	3.69
18	24"	Mini Alligator	8	Black, green, red, yellow	278-1157	3.99
19	40"	Heavy-duty Claw	6	Black, blue, green, red, white, yellow	278-002	4.69

**Big selection of battery holders**

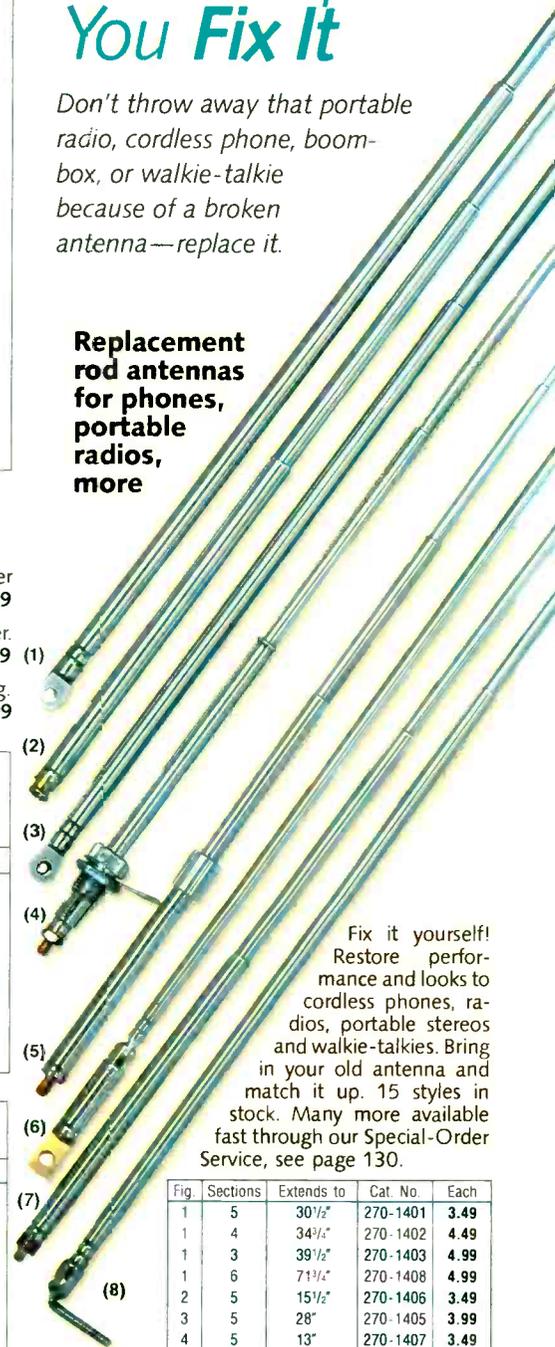
All have leads except \*, which have 9V snap connector

Fig.	Holds	Cat. No.	Each
20	8 "AA"	270-407*	1.49
21	4 "AA"	270-391	1.39
22	2 "AA"	270-382*	1.29
-	4 "AA"	270-383*	1.39
-	8 "AA"	270-387*	1.49
23	1 "AA"	270-401	.79
24	2 "AAA"	270-398	.89
25	1 "N"	270-405	.79
26	4 "D"	270-396	1.79
27	1 "D"	270-403	.99
28	2 "D"	270-386	1.59
-	4 "D"	270-389	1.79
29	2 "C"	270-385	1.39
30	1 "C"	270-402	.89
31	4 "C"	270-390	1.59
32	Lithium	270-430	1.99

## We'll Help You Fix It

Don't throw away that portable radio, cordless phone, boom-box, or walkie-talkie because of a broken antenna—replace it.

**Replacement rod antennas for phones, portable radios, more**



Fix it yourself! Restore performance and looks to cordless phones, radios, portable stereos and walkie-talkies. Bring in your old antenna and match it up. 15 styles in stock. Many more available fast through our Special-Order Service, see page 130.

Fig.	Sections	Extends to	Cat. No.	Each
1	5	30 1/2"	270-1401	3.49
1	4	34 1/2"	270-1402	4.49
1	3	39 1/2"	270-1403	4.99
1	6	71 1/2"	270-1408	4.99
2	5	15 1/2"	270-1406	3.49
3	5	28"	270-1405	3.99
4	5	13"	270-1407	3.49
5	6	16"	270-1410	3.99
5	6	11"	270-1411	3.99
6	2	16 1/2"	270-1412	3.49
6	5	22 1/4"	270-1416	4.49
6	9	24"	270-1413	4.99
7	5	13 1/2"	270-1414	2.99
7	5	13 1/16"	270-1415	3.49
8	6	17 1/2"	270-1409	3.49

**Radio dial cord replacement kit**

Great for repairing and maintaining analog-dial radios. Six feet of high-strength dial cord and three assorted tension springs. 274-435 . . . . . 99c

9-volt battery holders. Pkg. of 2. 270-326 . . . . . 99c  
9-volt snap connectors. Pkg. of 5. 270-325 . . . . . 1.39



Great for building your own power supplies

## Six popular power transformers ideal for replacement or for building your own power supplies

UL recognized. Miniature type has tabs and pins for mounting on printed circuit boards. Standard and heavy-duty types are metal-enclosed, have wire leads and mounting tabs. All primaries are for 120VAC. CT indicates a center tap in the secondary winding.

Type	Volts	Current	Body in Inches	Cat. No.	Each
Miniature	12.6	300 mA	1 <sup>1</sup> / <sub>4</sub> × 1 <sup>7</sup> / <sub>16</sub> × 1 <sup>1</sup> / <sub>16</sub>	273-1385	3.99
Standard	12.6 CT	450 mA	1 <sup>7</sup> / <sub>16</sub> × 1 <sup>11</sup> / <sub>16</sub> × 1 <sup>1</sup> / <sub>2</sub>	273-1365	4.99
Standard	25.2 CT	450 mA	1 <sup>11</sup> / <sub>16</sub> × 1 <sup>15</sup> / <sub>16</sub> × 1 <sup>3</sup> / <sub>4</sub>	273-1366	4.99
Standard	12.6 CT	1.2 A	1 <sup>11</sup> / <sub>16</sub> × 1 <sup>11</sup> / <sub>16</sub> × 1 <sup>11</sup> / <sub>16</sub>	273-1352	5.99
Heavy-Duty	12.6 CT	3.0 A	2 <sup>1</sup> / <sub>16</sub> × 2 <sup>1</sup> / <sub>2</sub> × 2 <sup>1</sup> / <sub>4</sub>	273-1511	8.99
Heavy-Duty	25.2 CT	2.0 A	2 <sup>1</sup> / <sub>4</sub> × 2 <sup>3</sup> / <sub>4</sub> × 2 <sup>1</sup> / <sub>4</sub>	273-1512	9.99



## Audio transformers for projects and repairs

- (1) **Audio output transformer.** With a 1k-ohm center-tapped primary winding and an 8-ohm secondary. Has many uses including input, output and low-level impedance matching in audio circuits. 3/4 × 5/8 × 5/8". 273-1380 ..... 1.69
- (2) **1:1 audio isolation transformer.** A "must" for all your projects and hookups that connect to a phone line, and interstage coupling. 600 to 900 ohms impedance. 300 Hz to 5 kHz frequency response. Over 100 megohms insulation resistance at 250VDC. 273-1374 ..... 3.99

## RFI fighters and microphone elements

- (3) **Snap-together toroid choke core.** Helps eliminate RFI (radio frequency interference). Use on telephone, computer, AC, audio and coax cables. No need to cut cable—simply wind it through the core. Opening: 7/8 × 7/8". 273-104 ..... Pkg. of 2/7.99
- (4) **Snap-together ferrite choke core.** Effective, easy-to-use RFI fighter! 273-105 ..... 5.49
- (5) **100 µH choke.** Rated 2 amps. Wire leads. 273-102 ..... 99c
- (6) **PC-mount electret microphone element.** Omnidirectional. Provides wide 20-15,000 Hz frequency response. Requires 2-10VDC. 270-090 ..... 1.79
- (7) **Electret microphone element with leads.** Omnidirectional. 30-15,000 Hz frequency response. Requires 4-10VDC. 270-092 ..... 2.99

## Piezo transducers

- (8) **Piezo speaker element.** Only 1<sup>31</sup>/<sub>32</sub>" diameter by 3/64" thin. This high-efficiency device can be driven directly by an IC or LSI. Ultrathin design makes mounting easy. 273-091 ..... 2.49
- (9) **1500 to 3000 Hz piezo element.** 2-wire type requires an external driver circuit. 273-073 ..... 1.49
- (10) **Fixed-frequency piezo element.** This 3-wire transducer requires an external driver circuit. 273-064 ..... 1.79

## Now hear this! Magnetic and piezo buzzers for alerters, alarms, science projects, announcers, timers and fun

- (11) **12-volt magnetic buzzer.** More pleasing tone than a single-frequency piezo buzzer. About 85 dB. 3.4 kHz tone. 6-16VDC. Draws about 10 mA at 12VDC. 273-026 ..... 2.19
- (12) **PC-mount magnetic buzzer.** Produces 2300 Hz tone at up to 85 dB. Requires 10 to 14VDC. About 30 mA at 12VDC. 3/8" diameter. PC-mount pins. 273-027 ..... 2.49
- (13) **Electronic buzzer.** 1<sup>1</sup>/<sub>16</sub>" mounting center. 1<sup>1</sup>/<sub>2</sub>-3VDC. Hookup leads. 273-053 ..... 2.49
- (14) **6VDC electronic buzzer.** 273-054, 2.49
- (15) **12VDC electronic buzzer.** 273-055, 2.49
- (16) **Two-tone.** Great for a vehicle backup alert. Super-loud with about 100 dB sound output at about 3.2 kHz. Requires 6 to 16VDC. About 65 mA at 12VDC. 273-070 ..... 10.99
- (17) **Pulsating or continuous.** 2900 Hz. 80 dB at 12VDC. 273-068 ..... 8.49
- (18) **Pulsating.** 2800 Hz, up to 90 dB. Operates from 3 to 28VDC. 273-066 ..... 4.29
- (19) **PC-mountable.** Efficient! Draws only 7 milliamps of current at 12VDC. Up to 70 dB. 4.2 kHz. 273-074, 2.99
- (20) **With leads.** 3.6 kHz, up to 85 dB. Operates from 4 to 28 VDC. 273-060 ..... 3.29
- (21) **PC-mount.** 2800 Hz, up to 78 dB. Operates from 3 to 20 VDC. 273-065 ..... 2.49
- (22) **Panel-mount.** 7 mA at 12VDC. Provides pulsing or continuous 3.5 kHz tone. 95 dB level. 273-075 ..... 6.99
- (23) **"Ding-dong" chime.** Produces traditional doorbell sound. This IC/mini-speaker combo is ideal for an entry alerter. Adds a nice touch to projects, too. 6 to 18VDC. About 80 dB level at 12VDC. 5" leads. 273-071 ..... 10.99

Quantity discounts are available at participating Radio Shack stores and dealers.

# Your Source

For Everything You Need in Electronic Hobby Supplies

Your nearby Radio Shack store stocks the parts and supplies you need to design and build new projects or repair your older equipment.



## Motors to add motion to projects

1<sup>1</sup>/<sub>2</sub> to 3VDC. Just right for solar power demonstrations, robotics, models and school science projects. 8300 RPM. About 1<sup>1</sup>/<sub>2</sub>" long by 1<sup>5</sup>/<sub>16</sub>" diameter. 273-223 ..... 99c

**High-speed 12VDC.** Delivers up to 15,200 RPM at no load. About 2" long (including shaft) by 1" diameter. 273-255 ..... 2.99

**Super-speed 9 to 18VDC.** Incredible 24,000 RPM, no load. About 2" long. 273-256, 3.49

1<sup>1</sup>/<sub>2</sub> to 4<sup>1</sup>/<sub>2</sub>VDC motor with gear. Special purchase! Require approximately 65 mA at 4<sup>1</sup>/<sub>2</sub> VDC. 273-237 ..... Pkg. of 3/1.99



## Keep your cool with these fans

Help to dispense damaging heat in home and car audio components, PCs & Ham equipment

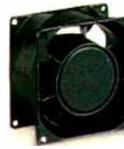
### 120VAC 4" fan

The powerful 65 CFM (cubic feet per meter) airflow is perfect for heavy-duty cooling applications. 22 watts. 4<sup>11</sup>/<sub>16</sub> × 4<sup>11</sup>/<sub>16</sub> × 1<sup>1</sup>/<sub>2</sub>". UL recognized. 273-241 ..... 18.99



### 120VAC 3" fan

At 32 CFM airflow, it's ideal for cooling many computers. 10 watts. 3<sup>5</sup>/<sub>32</sub> × 3<sup>5</sup>/<sub>32</sub> × 1<sup>1</sup>/<sub>2</sub>". UL recognized. 273-242 .. 16.99



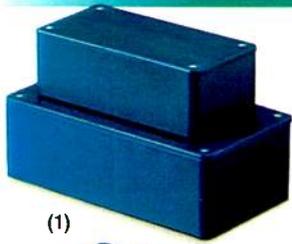
### 12VDC 3" fan

Brushless. Tops for mobile gear, hum-sensitive circuits. 27 CFM. 34 dB sound level. 3<sup>5</sup>/<sub>32</sub> × 4<sup>11</sup>/<sub>16</sub> × 1<sup>1</sup>/<sub>2</sub>". 273-243, 14.99



### 12VDC micro fan

Brushless. 3.5 CFM. 150 mA. 1<sup>9</sup>/<sub>16</sub> × 1<sup>9</sup>/<sub>16</sub> × 1<sup>3</sup>/<sub>32</sub>". 273-244 ..... 14.99



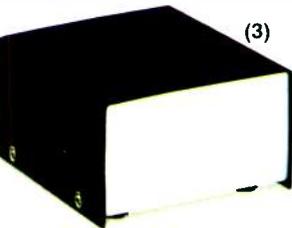
(1)

<b>(1) Low-cost molded enclosures</b>		
Include internal slots for mounting a printed circuit board.		
Overall Size	Cat. No.	Each
4 × 2 × 1 <sup>3</sup> / <sub>16</sub> "	270-220	<b>1.99</b>
4 × 2 <sup>7</sup> / <sub>16</sub> × 1 <sup>1</sup> / <sub>16</sub> "	270-221	<b>2.29</b>
4 <sup>3</sup> / <sub>4</sub> × 2 <sup>1</sup> / <sub>2</sub> × 1 <sup>1</sup> / <sub>16</sub> "	270-222	<b>2.59</b>
6 × 3 <sup>3</sup> / <sub>16</sub> × 1 <sup>7</sup> / <sub>8</sub> "	270-223	<b>3.19</b>
7 <sup>1</sup> / <sub>2</sub> × 4 <sup>1</sup> / <sub>4</sub> × 2 <sup>1</sup> / <sub>4</sub> "	270-224	<b>3.49</b>



(2)

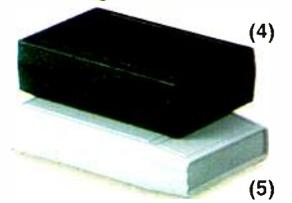
<b>(2) Enclosures with aluminum cover</b>		
Overall Size	Cat. No.	Each
3 <sup>1</sup> / <sub>4</sub> × 2 <sup>1</sup> / <sub>8</sub> × 1 <sup>1</sup> / <sub>8</sub> "	270-230	<b>1.99</b>
4 × 2 <sup>1</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> "	270-231	<b>2.19</b>
5 <sup>1</sup> / <sub>16</sub> × 2 <sup>5</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> "	270-233	<b>2.39</b>
6 <sup>1</sup> / <sub>4</sub> × 3 <sup>3</sup> / <sub>4</sub> × 2"	270-627	<b>2.79</b>
7 <sup>3</sup> / <sub>4</sub> × 4 <sup>3</sup> / <sub>4</sub> × 2 <sup>3</sup> / <sub>8</sub> "	270-232	<b>3.69</b>



(3)

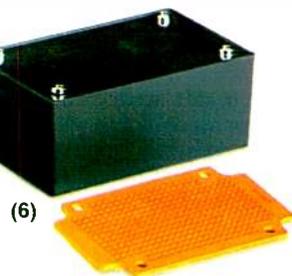
### Our popular metal project cabinet and molded "beeper"-style cases

**(3) Metal cabinet.** Attractive all-metal enclosure features a vented top—perfect for use as a small power supply or other heat-producing project. Aluminum front, back and bottom are easy to drill for PC board and component mounting. 3 × 5<sup>1</sup>/<sub>4</sub> × 5<sup>7</sup>/<sub>8</sub>", overall. **270-253** ..... **6.99**



(4)

**(4) Transmitter case.** Features removable end panel and partitioned compartment to hold a 9-volt battery. A popular choice for use as a radio transmitter or receiver case, infrared transmitter project, and many other small projects. 1 × 2<sup>5</sup>/<sub>16</sub> × 3<sup>3</sup>/<sub>4</sub>". **270-293** ..... **3.99**

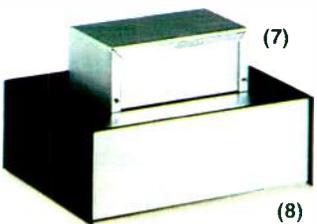


(5)

**(5) Infrared transmitter project case.** Perfect for a remote or other small device. Has removable end panel, compartment for a 9V battery, card guides and bossing for printed circuit boards. High-impact ABS construction, scratch-resistant grain finish. 7<sup>7</sup>/<sub>8</sub> × 2<sup>3</sup>/<sub>8</sub> × 4<sup>1</sup>/<sub>4</sub>". **270-294** ..... **4.49**

### (6) Project box and PC board combo—just add your circuit to complete your project

Little box that's big on value! Handsome gray molded enclosure features an easy-to-drill aluminum cover and comes with a general-purpose etched and drilled circuit board with standard DIP IC hole spacing. 3<sup>3</sup>/<sub>16</sub> × 2<sup>1</sup>/<sub>8</sub> × 1<sup>3</sup>/<sub>8</sub>". Complete with assembly hardware and stick-on protective feet. **270-283** ..... **4.39**



(7)

### (7) Metal enclosures give your electronic projects a professional appearance at a modest price

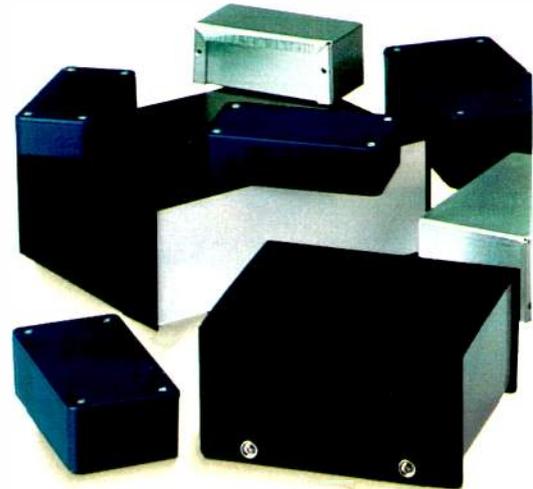
Aluminum P-box®. With assembly hardware.

Overall Size	Cat. No.	Each
2 <sup>3</sup> / <sub>4</sub> × 2 <sup>1</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> "	270-235	<b>1.99</b>
4 × 2 <sup>1</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> "	270-239	<b>2.39</b>
5 <sup>1</sup> / <sub>4</sub> × 3 × 2 <sup>1</sup> / <sub>8</sub> "	270-238	<b>2.79</b>

**(8) Deluxe two-tone steel box.** Our finest! Low-profile styling with eggshell-white bottom and black top. Easy-to-work steel. Includes assembly hardware and protective non-mar rubber feet. 3<sup>1</sup>/<sub>16</sub> × 8<sup>1</sup>/<sub>4</sub> × 6<sup>1</sup>/<sub>8</sub>". **270-274** ..... **11.99**

# Project Boxes

Give your electronic projects a "home" with a quality Radio Shack enclosure

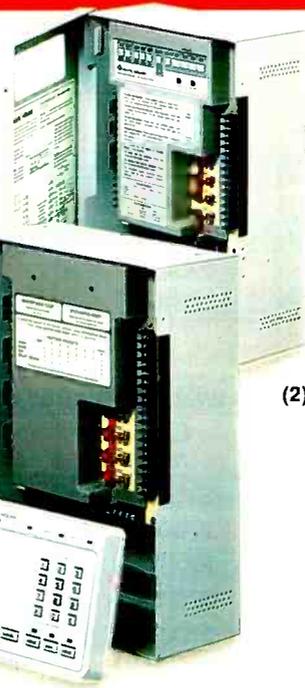


*Nothing protects better or adds more to the "finished" look of a project than an attractive enclosure. Radio Shack carries a wide selection of enclosures in the shapes and sizes most wanted for your home electronic projects. And, if we don't have what you need, over 100 more enclosures in many other styles, shapes and colors are available fast through our Special-Order Service (see page 130).*

*Radio Shack is your electronic hobby headquarters. Whether you're building a simple radio circuit or an advanced lightwave communications system, your local Radio Shack stocks 'most all the electronic components and tools you'll need. We also offer a library of useful, easy-to-understand books and engineer's mini-notebooks to help you complete every project.*

**8-zone burglar and fire alarm control center**

(1) Loaded with professional features! The seven independent burglar alarm zones are totally programmable. Each may be set for entry/exit delay or instant operation. A fire zone alerts you when a smoke or heat detector senses trouble. Panic zone lets you manually sound the alarm. Digital remote keypad lets you control all system functions from a convenient location. You can add a tamper switch to guard valuables, up to three more remote keypads, a phone auto-dialer to call for help, and virtually any security sensor or siren. Included owner's manual is easy to understand and helps you plan an effective system. 13 x 19 1/2 x 3 3/4" (TSP) 49-485 ..... 199.99  
 Extra remote control keypad. (CMC) 49-484 . . . 44.99  
 6V backup battery. Two required. 23-181, Each 11.99



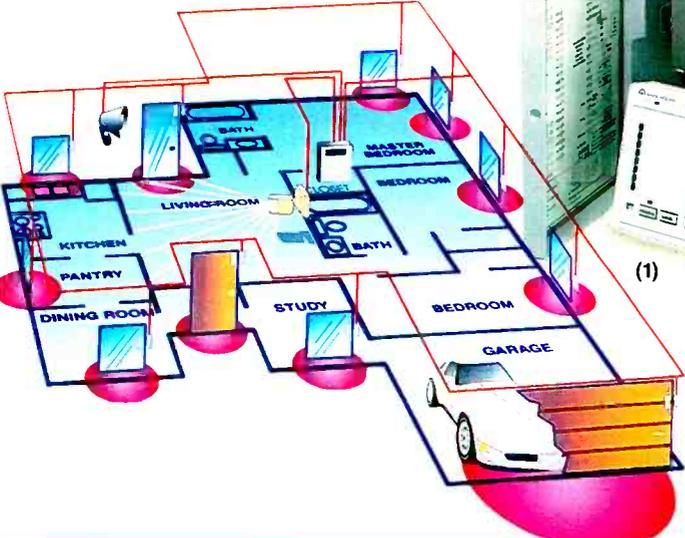
**Whole-House Protection**

A home security system consists of three basic elements: a control center, a siren, and sensors that are placed on windows, doors, and/or in other areas in and around your home. A digital keypad or key switch is used to turn the system on and off. You can also add infrared room sensors, an automatic security phone dialer, strobe lights, panic buttons, backup batteries and more.

Radio Shack wired-type security equipment meets or exceeds UL standards, assuring you of peak performance and fewer false alarms.

**4-zone burglar/fire alarm control center**

(2) Perfect for a mid-size home or apartment. Provides up to four independent zones for intruder protection, a 24-hour fire-alarm circuit, and a separate circuit for adding a panic button or tamper switch. You can also connect a phone auto-dialer to call for help when you're away. Variable entry and exit delays let you come in and leave without triggering alarm. Includes planning/installation manual. 13 x 9 1/2 x 3 3/4" (TSP) 49-475 ..... 149.99  
 6V backup battery. Two required. 23-181 ..... Each 11.99



**Peace-of-mind accessories**

**Contact switches**

- (1) **Magnetic switch.** For standard door and window applications. Easy to install. Normally closed. UL listed. 49-532, 4.99
- (2) **Magnetic switch.** As above, normally open. 49-533 ..... 5.99
- (2) **Spacers.** Use to align switches (above) or to position switches away from metal door or frame. 49-539 ..... Pkg. of 6/1.49
- (3) **Mini magnetic switch.** Use for smaller windows. Self-adhesive for easy mounting. Normally closed. UL listed. 49-497 ..... 3.99
- (4) **Concealed magnetic switch.** Mounts inside door or window frame. Normally closed. Weatherproof. 49-496 ..... 3.99
- (5) **Press-fit switch.** Installs inside door frame or wooden window. For normally closed loops. UL listed. 49-505 ..... 5.99
- (6) **Wide-gap switch.** Ideal for sliding glass doors. Normally closed. UL listed. 49-499, 6.49
- (7) **Threaded magnetic switch.** Screw-mount for metal and heavy wooden doors. Normally closed. UL listed. 49-503, 6.99

**Foil, contacts and breakage sensor**

- (8) **Window foil.** Self-adhesive. Attaches to alarm and glass. Provides normally closed circuit. 120-foot x 3/8" roll. 49-502 ..... 6.99
- (9) **Self-adhesive foil connectors.** Use for a neat and reliable professional-type foil installation. 49-504 ..... 3 Pair/2.59
- (10) **Garage door contact switch.** Normally closed. (CMC) 49-570 ..... 21.99
- (11) **Sliding window/door contact.** For use with foil or glass breakage detector. Allows normal use of window or door. Mounts half on door or window, the other half on its frame. 49-518 ..... 4.99
- (12) **Glass breakage detector.** Protects up to 32 square feet of glass. Works with normally open or normally closed circuits. Easy hookup. UL listed. 49-516 ..... 8.29

**Switches and vibration detector**

- (13) **Panic switch.** Feel more secure. Just push button to instantly trigger your alarm system in an emergency—perfect for bedrooms. Normally open (unpressed); press to close circuit. 49-517 ..... 1.49
- (14) **Contact switch.** For window or door frame. Normally closed (pressed), opens when door or window opens. With terminals, hardware. UL listed. 49-513 ..... 1.49
- (15) **Tamper switch.** Use with alarm panel, siren or bell box to protect a valuable such as a painting, TV, VCR or stereo. Normally open (pressed). UL listed. 49-528 ..... 1.99
- (16) **Jumper cord.** Perfect for adding protection to doors with decorative glass panels. 49-548 ..... 4.49
- (17) **Vibration detector.** Detects impact vibrations. Adjustable sensitivity. For normally closed loops; circuit opens when activated. UL listed. 49-521 ..... 3.99

**NEW**  
**Dialer calls up to three numbers**

Auto-dials up to three phone numbers and plays your recorded message when triggered by alarm system. A switchable monitor lets you turn speaker off so intruders cannot hear your message. Messages are stored in solid-state circuitry—no tape mechanism. Uses alarm system power for backup. UL listed. (TSP)  
49-434 ..... 89.99

**Smoke sensor triggers security system**

Sensor triggers your security system and sounds a loud built-in alarm when it detects smoke or combustion particles in the air. Powered by control center, cannot be used alone. Simple four-wire hookup. Mounts on wall or ceiling, includes mounting hardware. Requires 12VDC at 20mA.  
49-481 ..... 39.99

**Digital keypad for easy on/off switching**

Just enter the 4-digit personal code you program—there are 10,000 possible combinations. Works well as a panic button, too. Red and green lights show status at a glance. Built-in tamper switch. Wrong-number lockout to discourage random code number entries. For indoor use only. Requires 16VDC at 70mA. 49-535 ..... 22.99

**Complete your system with sirens and buzzers**

**High-power 2-sound siren.** Choose loud, pulsating rise-fall or steady tone. 2-circuit systems can use both. Weatherproof. Requires 4-12VDC at 1 amp.  
49-525 ..... 41.99

**Indoor/outdoor 2-sound siren.** Home or car use. Weatherproof. 12VDC, 550mA.  
49-488 ..... 19.99

**High-efficiency 2-sound piezo siren.** Extra-loud rise-and-fall or constant tone. Weatherproof, sealed housing. 12VDC, piezo circuit uses less than 1/3 amp.  
49-487 ..... 22.99

**Indoor 2-sound piezo siren.** High-efficiency piezo circuit designed for most residential alarm systems. Rise-fall "yelp" and steady tone. Mounts on wall or ceiling. 12VDC, 0.36 amp.  
49-490 ..... 13.99

**Piezo buzzer.** Pulsating or continuous. For pre-alarm buzzer. 4-28VDC, 0.2 amp.  
273-068 ..... 8.49

**High-efficiency indoor mini siren.** Small but loud. 6-12VDC, 200 mA.  
49-489 ..... 10.99

**Infrared photorelay sensor system**

One-piece receiver/transmitter projects an invisible pulsed beam of infrared light to the reflector which you can place up to 30 feet away—across a doorway, garage door or other entryway. When beam is broken, the sensor instantly alerts your alarm system. With mounting hardware. Requires 12VDC at 60mA. JL listed. 49-551 ..... 39.99

**Infrared motion sensor detects body heat**

Dual-element design extends coverage, virtually eliminates false alarms. Gimbal mounting allows wall or ceiling installation. Has programmable pulse counter. High immunity to RF disturbance fields. Gain adjusts from 1/2-1. With mounting hardware. Requires 12VDC at 20mA. (TSP) 49-550 ..... 59.99

**NEW Infrared sensor with miniaturized design**

Unobtrusive design—wall-mounts to take up minimum space. Four lenses let you customize it to the area you want protected, depending on the sensitivity needed (less susceptible to tripping by pets!). Tamper protection sets off alarm if someone attempts to disarm it. Requires 12VDC at 25mA. Available Oct. 15, 1994. 49-208 ..... 39.99

**Strobe, interface, wire and decals**

**Universal Plug 'n Power® interface.** Allows alarm system to activate wireless Plug 'n Power equipment. See pages 142-144. (CMC)  
61-2687 ..... 19.99

**Strobe light.** Super-bright flashing light helps emergency workers locate your home quickly. Requires 12VDC at 0.2 amp. 49-527, 21.99

**Alarm wire.** 22-gauge, stranded, 2-conductor.  
300 feet. 278-863 ..... 25.99  
100 feet. 278-862 ..... 9.99

**Warning decals.** Deter potential intruders by warning that your property is protected by a security system. 49-507 ... Pkg. of 4/1.29

**Key switches**

**Remote switch mounting plate.** LED system-status indicators. Includes tamper switch and mounting hardware. 6/12VDC.  
49-524 ..... 7.99

**Round lock switch.** Momentary contact. Two keys.  
49-523 ..... 9.99  
**On/off type.** Locks in off or on position. 49-511 ..... 9.99

**Covered on/off locking type.** Spring-loaded, with two keys.  
49-515 ..... 4.99

## Everything to Keep Your Home Safe and Sound



**16-zone wireless home security alarm system with remote**

Easy to install and operate—no wires to run! Console allows you to add wireless door/window, smoke and motion sensors for up to 16 different zones of operation, including panic zones. When a sensor is tripped, its transmitter tells the console to sound a loud 85 dB siren to scare off intruders and alert neighbors. Smoke-alarm detector "listens" for the siren of an existing smoke detector. The included handheld remote lets you arm/disarm the system at the touch of a button. The complete system includes the console, one door/window transmitter, keychain remote and smoke-alarm detector. Add more transmitters, optional siren, auto-dialer, motion detector or strobe light. Battery backup. (TSP)  
49-2010 ..... 199.99

- (1) Window/door transmitter. 49-2015, 29.99
- (2) Wireless motion detector. 49-2025, 59.99\*
- (3) Smoke-alarm siren detector. 49-2020, 24.99\*
- (4) Keychain remote control. 49-2030, 24.99\*

\*CMC special order



Camera has 6 built-in infrared LEDs that help illuminate dark areas—without visible light.



System scans up to 4 cameras so you can see more of what's going on around your home/business.

## **NEW** 4-channel audio/video observation system

A complete audio/video observation system that adds safety, security and convenience to your home or business. At home, see and hear baby's room or any other room from somewhere else in your home. Businesses can monitor storerooms, warehouses, entry/exitways or reception area from one central location.

System includes one camera and a 10" 800-line-resolution black-and-white monitor. CCD camera provides a superior picture even in low light—perfect for areas under after-hours lighting conditions. Built-in speaker and microphone on both camera and

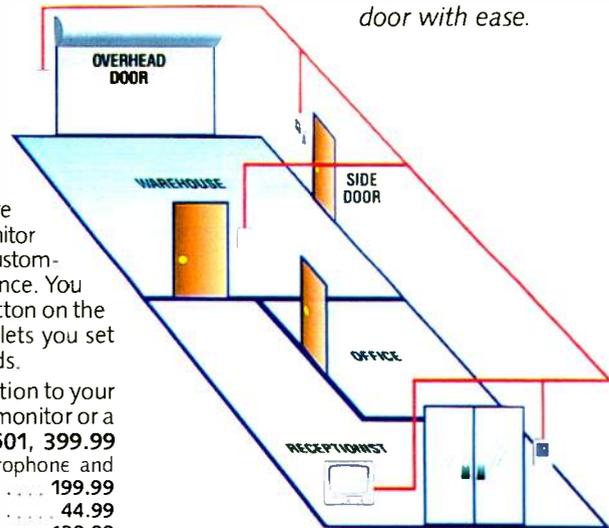
monitor let you have two-way conversations with the person at the camera.

As your needs expand, you can add up to three more cameras to monitor a total of four different areas. Monitor sequentially scans each camera from 1 to 4 or you can custom-program by deleting cameras from the viewing sequence. You can also select individual cameras at the touch of a button on the monitor control panel. Programmable pause feature lets you set the pause time at each camera from 1 to 60 seconds.

Monitor has audio/video in/out jacks for easy connection to your VCR for sound and video record and playback on the monitor or a TV. UL listed AC. For indoor use only. (TSP) **49-2501, 399.99**  
**Extra CCD camera.** With built-in speaker, condenser microphone and 60-foot cable. (TSP) **49-2502 . . . . . 199.99**  
**100-foot cable.** For above system. (CMC) **49-2525 . . . . . 44.99**  
**300-foot cable.** For above system. (CMC) **49-2526 . . . . . 129.99**  
**Cable adapter.** Joins two 100-foot cables. (CMC) **49-2523, 9.99**

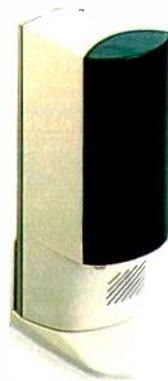
## Affordable Security and Convenience for Home/Business

Complete and ready to use! Two-screw mounting lets you install the small, high-resolution camera on a wall, ceiling or above a door with ease.



## Passive infrared motion alarm

Simple-installation—place on bookshelf or desk and plug into household AC. System detects motion and body heat to protect any room in your house, apartment or office. Infrared blankets a 30 x 30-ft. area in an "invisible" protective field with six upper and three lower security zones. When an intruder walks into the field, the infrared sensor triggers a loud 85 dB built-in alarm. Sensor head adjusts horizontally in twenty 3° increments for precise area coverage. Entry/exit delay lets you leave after arming the unit and lets you return to disarm the unit. Auto-shutoff silences alarm after five minutes and auto-resets alarm for continued protection. Terminals on back allow for adding an external alarm, remote arming switch and security dialer. 7<sup>7</sup>/<sub>8</sub> x 2<sup>9</sup>/<sub>16</sub> x 6<sup>11</sup>/<sub>16</sub>". UL listed AC. Backup requires 8 "C" batteries. (TSP) **49-320 . . . . . 99.99**



## **NEW** Invisible-beam entry alert

Use as a door monitor to let you know when someone enters your home or business. Lightweight and compact, it can be placed on a desk, countertop, window sill or mounted on a wall. When the beam is broken, the sensor triggers the built-in chime and lights the 3-digit LED counter which displays the number of times the beam has been broken. Up to 50-foot-wide coverage. Expandable—add a security dialer or external alarm. Backup requires 12V lantern battery. Reflector and UL listed AC adapter. 7<sup>1</sup>/<sub>2</sub> x 3 x 3". For indoor use only. Available Oct. 15, 1994. **49-316, 39.99** Like above, but without counter and has buzzer instead of chime. **49-311 . . . . . 69.99**

Prices apply at participating Radio Shack stores and dealers.



Advanced long-life sensor lasts approximately 10 years—no expensive modules to replace every two years.

## **NEW** Protect your family with a carbon-monoxide detector

An important addition to your home safety program! Protects your family against carbon monoxide, an odorless, colorless, tasteless gas which can kill without warning. Loud, 85 db alarm alerts you when carbon-monoxide concentration reaches a dangerous level. Use near sleeping areas, furnace rooms, fireplaces, garages, space heaters or any fuel-burning appliance. Very reliable operation—never needs recalibration. Plugs into any standard 120VAC outlet with supplied AC adapter. Can also be used in a camper, RV or boat with optional DC adapter (270-1528). Test and reset button. System-on and alarm LEDs. Exceeds UL standards. Includes wall mounting screws. **49-463, 79.99**



**Electronic door alarm and entry chime for convenience and security**

This electronic "doorman" is always on duty so you will never again be unaware of a customer entering your business, or have to worry about intruders sneaking into your home or your child opening a door without your knowledge. In the chime mode a visitor is announced by a pleasant-sounding electronic chime when the door is opened. In the alarm mode, when the door is opened, a piercing alarm gives you warning of unauthorized entry. Three-digit security code arms/disarms the system. Change security code as often as you like—up to 720 possible combinations. Battery-operated—no wiring required. 6<sup>3</sup>/<sub>8</sub> × 2<sup>3</sup>/<sub>4</sub> × 1<sup>1</sup>/<sub>4</sub>". Requires 9V alkaline battery. 49-422 . . . . . 25.99



**Personal alarm/motion detector**

Effective portable protection! Increase your personal security at home, on the street and while traveling. Carry it with you when walking or jogging—blasts loud alarm to startle attackers and call for help. When traveling, place near window or door—motion detector warns of intruders. Built-in flashlight lights your way. Requires 9V and 2 "AA" batteries. 49-415 . . . . . 14.99

tackers and call for help. When traveling, place near window or door—motion detector warns of intruders. Built-in flashlight lights your way. Requires 9V and 2 "AA" batteries. 49-415 . . . . . 14.99



**Deter thieves! Loud personal alarm**

Just pull the ripcord whenever you're in danger and the 110-dB piezo alarm startles and deters thieves and attackers. Attach ring clip to purse or briefcase and snap clip to your wrist or belt loop—in a theft attempt, the shrieking alarm stays with the thief, drawing attention to the situation. Solid-state electronics for maximum reliability. Requires 2 "N" batteries. 49-416 . . . . . 9.99

belt loop—in a theft attempt, the shrieking alarm stays with the thief, drawing attention to the situation. Solid-state electronics for maximum reliability. Requires 2 "N" batteries. 49-416 . . . . . 9.99



**Wireless door chime/pager**

Use as a doorbell or remote pager. It responds with a pleasant "ding-dong" tone and has three selectable channels to avoid interference with other units. Just push button to signal receiver. Has terminals for connection of a door contact switch (available at Radio Shack). Up to 50-foot range. No wiring required. Requires 9V and 3 "AA" batteries. 63-871 . . . . . 19.99

terference with other units. Just push button to signal receiver. Has terminals for connection of a door contact switch (available at Radio Shack). Up to 50-foot range. No wiring required. Requires 9V and 3 "AA" batteries. 63-871 . . . . . 19.99



**Key-operated electronic door alarm**

A 24-hour "electronic sentry". Mounts on window or door. Loud, piercing alarm—105 dB at 1 foot. Key-operated on/off switch. Choose instant alarm (for when you're home) or exit/entry delay so you can leave or enter the house without activating the alarm. 5<sup>1</sup>/<sub>8</sub> × 2<sup>1</sup>/<sub>4</sub> × 1<sup>1</sup>/<sub>8</sub>". Requires 9V alkaline battery. 49-421 . . . . . 13.99

(for when you're home) or exit/entry delay so you can leave or enter the house without activating the alarm. 5<sup>1</sup>/<sub>8</sub> × 2<sup>1</sup>/<sub>4</sub> × 1<sup>1</sup>/<sub>8</sub>". Requires 9V alkaline battery. 49-421 . . . . . 13.99



**Motion detector alarm/chime**

Mini-sized to fit easily in purse or briefcase—the ideal security system for the frequent traveler. Easy-to-use—just aim it and switch it on. When the sensor detects motion, the loud, 90 dB alarm activates to startle and deter intruders. Switch to chime mode and use to announce visitors. Up to 30-foot range, 60° detection angle. Requires 9V battery. 49-425 . . . . . 23.99

the frequent traveler. Easy-to-use—just aim it and switch it on. When the sensor detects motion, the loud, 90 dB alarm activates to startle and deter intruders. Switch to chime mode and use to announce visitors. Up to 30-foot range, 60° detection angle. Requires 9V battery. 49-425 . . . . . 23.99

**"Quiet reset" smoke detector**

Reliable 24-hour protection for your home, valuables and family! "Quiet reset" button allows you to silence alarm when non-emergency smoke causes nuisance alarms—ideal for locations near cooking areas. Extra-loud warning horn penetrates closed doors, awakens you quickly. Detector "beeps" when battery needs replacement. Meets or exceeds all normal fire code standards. Test button, easy installation. Includes 9V battery. Available Nov. 15, 1994. 49-466 . . . . . 11.99



**Easy smoke alarm**

No need to worry about batteries! Installs as easily as a light bulb! Screw into lamp socket and it's ready to work. Constantly monitors the air in your home—detecting smoke or invisible combustion particles present during the earliest stages of a fire. Built-in rechargeable battery maintains full charge with normal use of light fixture. Awakens you quickly with a loud, pulsating 101 dB horn. Meets or exceeds all normal fire code requirements. 49-468 . . . . . 29.99



socket and it's ready to work. Constantly monitors the air in your home—detecting smoke or invisible combustion particles present during the earliest stages of a fire. Built-in rechargeable battery maintains full charge with normal use of light fixture. Awakens you quickly with a loud, pulsating 101 dB horn. Meets or exceeds all normal fire code requirements. 49-468 . . . . . 29.99



**Motion-sensing indoor/outdoor twin floodlight**

Real convenience! Install over porch, outside doorway, garage entrance—lights come on automatically as you approach. Extra security! If intruders should come near your home, an unexpected light may frighten them away. Photocell deactivates sensor during daytime. Manual override. 300 watts. Available Oct. 15, 1994. 61-2606 . . . . . 19.99

Lightbulbs not included  
Real convenience! Install over porch, outside doorway, garage entrance—lights come on automatically as you approach. Extra security! If intruders should come near your home, an unexpected light may frighten them away. Photocell deactivates sensor during daytime. Manual override. 300 watts. Available Oct. 15, 1994. 61-2606 . . . . . 19.99

*Here's Why You Need a Timer*

*It's a great way to save energy and increase your family's safety. And you can give your home that "lived-in" look—while you're away!*



**Mini plug-in lamp/appliance timer**

Makes your home look lived-in! Program lights or appliances to turn on and off up to 2 times during a twenty-four hour cycle. Perfect for security lighting. 63-862 . . . 7.99



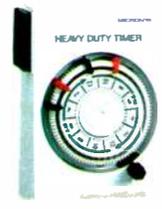
**Multisetting appliance timer**

Same as above, but has 24 programmable on/off times for extra versatility. Provides night and day protection for your home. Auto/manual operation. 63-864 . . . 9.99



**LCD display 7-day timer**

Convenience plus security! Program up to seven exact on/off times for either weekly or daily settings. Easy-to-read LCD clock display. Battery backup. 63-892, 29.99



**Air conditioner/appliance timer**

Save money and energy! Set up to two daily on and off times for an air conditioner, heater, other appliance or lamp. Auto/manual operation. 63-866 . . . . . 15.99



**Tabletop lamp/appliance timer**

Attractive tabletop styling. Select as many as 12 on/off programs during a 24-hour period. Heavy-duty load capacity. Automatic or manual operation. 63-865 . . . . . 14.99



**8-event LCD display timer**

Easy-to-read digital display. Can be set to turn on and off automatically up to four times a day. Battery-low and p.m. indicators. Requires "AA" battery. 63-891, 24.99

## Easy as 1·2·3



No assembly needed—works right out of the box.

Radio Sh



Just plug it in—no wires to install.

plug 'n power  
LAMP mod...

Control lights and appliances in and around your home.

## P L U G ' n P O W E R

*The easy way to start your day! With just the touch of a few buttons, you can quickly flip on the kitchen lights, start a fresh pot of coffee, fire up the central heater and switch on the TV or stereo for the morning news . . . all from the comfort of your bed or any other place in or around your home. And when you leave for work, one button turns it all off.*

*It couldn't be easier to install! Just plug it in and it's ready to work. Plug 'n Power controllers use your home's existing electrical wiring to send signals to remote modules you've connected to lights and appliances. You can automate your entire home without running a single wire! Stop into your nearby Radio Shack and let us show you how easy and convenient Plug 'n Power can make your life!*

**Controllers and Command Centers**

...plug into AC outlets to control remote modules connected to lights, fans and appliances. Depending on the type of controller, you can take command of up to 16 groups of modules—256 individual modules in all. Command Center #61-2670 even has a built-in timer so you can automate indoor and outdoor lights for a "lived-in" look while you're away. With some systems, you can use a handheld remote controller to activate Plug 'n Power modules from anywhere in or around your home.

**Remote modules and wall switches**

...receive signals from a controller to turn connected lights and appliances on and off in and around your home. Lamp dimmer modules control incandescent (bulb-type) lights. Appliance modules are rated to handle the extra power requirements needed to run motors and heating elements found in space heaters, fans and coffee makers. Remote wall switches work like ordinary wall switches, and can be placed wherever you want them. And, many of these switches can be attached to the wall without screws or wires.

## P L U G ' n P O W E R

# Home Security

YOUR HOME IS ALREADY WIRED

*With crime in America rising at a dramatic rate, reliable and affordable security is increasingly important to homeowners and renters. A Plug 'n Power security system provides protection for both your home and your family, plus convenient automation of lights and appliances with optional remote modules. Because it uses existing house wiring, it's simple to install yourself—just plug into any convenient AC outlet.*

*The security console monitors your home by using radio signals to communicate with remote sensors. Because there are no wires to run, Plug 'n Power is the perfect solution to security needs in apartments, condos and mobile homes.*

*Battery-operated sensors and motion detectors mount near doors or windows with screws or double-sided tape.*

*Plug 'n Power is versatile . . .*

*and expandable to meet your needs! You can add remote modules for flashing lights plus motion-sensing outdoor floodlights, door/window sensors, a remote siren and more. The handheld remote control lets you arm/disarm the system and control Plug 'n Power light and appliance modules from any convenient location in or around your home.*

Other Security

## TIPS

- Cut overgrown and tall shrubs where intruders can hide.
- Stop your mail and newspapers whenever you leave town. Also be sure to have someone maintain your lawn.
- Install a peep hole in the door.
- Mark your valuables and don't advertise them—keep drapes and blinds closed.
- Consider getting a dog to provide extra protection and as a deterrent to give an early warning of intruders.
- Place alarm warning decals on windows.
- Drill a small hole in window sash or frame, insert screws for extra protection.
- Walk around your home and check all doors and windows. Install deadbolts in doors where feasible. Install outside lighting.

**NEW** Instant home security! Wireless security system guards your home, calls for help when there's trouble

Why lie awake at night reacting to every strange noise you hear, or worry about your home when you're away? Now you can protect your home and family with an easy-to-install 24-hour security system! Just plug the Plug 'n Power home security console into an AC outlet and your telephone line, mount the window/door sensors, and relax. There are no long wires to run, and no expensive installation fees to pay.

**It's always on duty!** If would-be intruders set off a door or window sensor, or creep into the path of the motion detector, the console quickly sounds a loud alarm and flashes lamps plugged into remote modules. At the same time, a built-in auto-dialer begins to call up to four phone numbers of friends or family... even your phone at work if you like. The person called will hear your pre-recorded message and can listen in to determine if the police need to be called.

**What do you get?** The heart of this system is a controller console featuring a built-in alarm plus an automatic dialer which plays your prerecorded message. The system also includes two remote sensors that you can easily install on front and back doors (or any windows you choose), a wireless motion detector for rooms with multiple entrances, and a lamp dimmer module. You also get a keychain remote and a handheld remote to turn the system on and off from your driveway or anywhere in or around your home.

**Expandable? You bet!** It's a 16-zone system, which means you can add many more remote sensors to cover windows, doors or other rooms in your home. And you can use the handheld remote control anywhere in your home to turn lights, stereos and appliances on and off if you add more Plug 'n Power modules. Requires four 9V and four "AAA" batteries. UL listed AC. (TSP) 61-2610, 199.99



**Turns on lights all over your home**

It's an automatic outdoor floodlight and a Plug 'n Power command center that works on its own. Turns

on floodlights and controls other lights in and around your home when motion is detected to chase away unwanted visitors. Program it to turn on when darkness falls and add a chime module (below) to work with detector for an automatic doorbell. Bulbs not included. (CMC) 61-2604 ..... 49.99

**Door/window sensor**

Easy-to-install wireless sensor unit mounts near most doors or windows. When the magnetic sensor is tripped, the unit sends a signal back to a Plug 'n Power wireless security system (such as 61-2610 shown at left). Mounts with screws or double-sided tape. Requires a 9V battery.

61-2612 ..... 14.99

**Motion detector**

No wires on this one! Infrared motion detector sets off Plug 'n Power security system whenever it detects body heat and motion. Ideal for protecting hallways, large rooms or indoor areas that have more than one entry control, home/away mode.

point. Sensitivity (CMC) 61-2614 ..... 59.99

**Keychain remote**

You can arm and disarm your Plug 'n Power security system, as well as turn lights on and off as you enter and leave your home. Also works as "panic" button. (CMC)

61-2618 ..... 19.99

**POWERHORN® Siren**

A real screamer! Add a loud 110-dB remote siren to your Plug 'n Power security system. There is no extra wiring involved—just plug into any AC outlet. (CMC)

61-2613 ..... 49.99

**Chime/beeper**

Pleasant chime announces visitors and alerts you to intruders. Ideal for use with Motion Sensing Floodlights (61-2604 above). 16 selectable codes. (CMC)

61-2656 ..... 24.99



Ready to protect two doors or windows and hallway

Items noted "(CMC)" are available on fast special order—see page 130



## You're Already Wired for Home Remote Control!

Put a light switch where you need it, flip on a hard-to-reach lamp with ease, turn fans on and off—control almost everything in your home from a single location with the touch of a button. There are no wires to install with a convenient Plug 'n Power system—it uses your existing home wiring to communicate between controllers and remote modules. Just plug it in and it works!

### Easy as 1·2·3



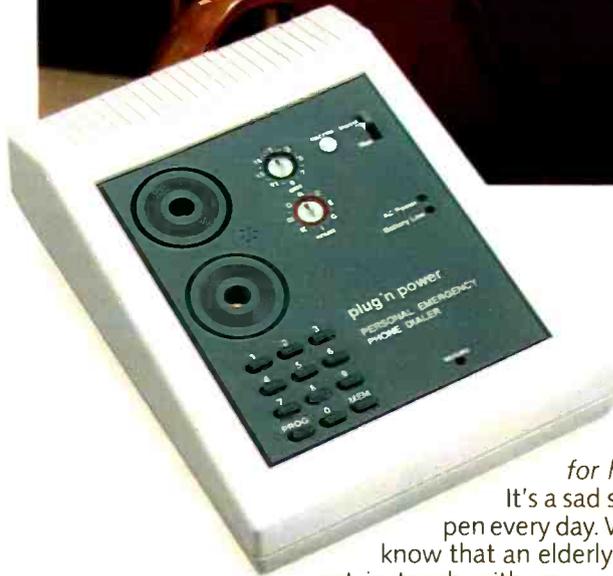
Ready to work right out of the box.



Simply plugs into your AC power outlet.



Turn on lights anywhere in your home!



### **NEW** Emergency dialer system "calls for help" with a touch of a button

*"There's been an accident. An elderly woman has slipped and fallen. She's alone and can't call for help".*

It's a sad situation, but events like this happen every day. When trouble strikes, you'd like to know that an elderly parent or close friend can easily get in touch with you, a friend or a neighbor. With our Emergency Phone Dialer, a loved-one can call for help anytime, even when unable to reach a phone.

**How it works.** The heart of the system is a miniature remote controller—a heart-shaped pendant that hangs around the neck and can be worn anywhere in the home, even in the shower. When the call button on the pendant is pressed, it sends a signal to activate the phone dialer console. The console will automatically dial up to four phone numbers of family members or friends, play a prerecorded emergency message and even let the person called listen through a built-in microphone to determine if emergency help is needed.

**Installs in minutes—anyone can set it up!** Just plug the dialer console into an AC outlet, connect it to the phone line just like a regular phone, record your message and enter the phone numbers to be called. That's all there is to it—no wires to install. It's a great way to give you and your loved-ones peace of mind knowing that help can be on the way in case of an emergency.

**And it's also completely Plug 'n Power compatible!** You can add remote modules to flash lights and sound a remote siren to attract attention. You can even add a remote Plug 'n Power wireless controller to easily turn hard-to-reach lamps and fans on and off. (see pages 140-144.) **61-2659** ..... **99.99**  
**Additional pendant.** (CMC) **61-2662** ..... **19.99**



### **Plug 'n Power remote command controller and timer system**

Hate to crawl out of a warm bed at night to see if you turned off all the lights? With a Plug 'n Power controller, you can control everything in your home with just a push of a button—it's the quick and easy way to put your house to bed at night without getting up. And if you hear a strange noise at night, you can hit the "all lights on" button to flood your home with light all at once to scare away any intruder (or just to chase away the dark). The controller/timer lets you control up to eight sets of remote control modules to turn on lights, air conditioners, TVs, stereos, coffee makers or other appliances—practically any device that works on AC power. The timer lets you program on/off times for lights, radios and TVs to give your home a lived-in appearance to anyone passing by, or program it to have your home lit up for safety's sake so you don't have to walk into a dark home at night after work. It can even double as a bedside alarm clock. Requires 9-volt backup battery.  
**61-2670** ..... **29.99**

## Remote command centers



### Convenient, easy-to-use mini controller

Don't get up to turn it off! Now you can instantly control up to eight sets of remote Plug 'n Power modules to turn lights on or off, or adjust brightness level right from your bedside table or living room chair—with just the touch of a button. You can also control appliances, including stereos, fans and more. **61-2677** ..... **12.99**  
**"Sundowner" controller.** Same features as above, with built-in photocell for dusk-to-dawn control of lights. (CMC) **61-2616** ..... **22.99**



### 16-button controller for whole house remote operation

Great way to turn the lights on in the morning, crank up the coffee maker and flip on the stereo—without ever getting up! This deluxe command center controls up to 16 sets of remote modules so you can turn lights on and off from your bedroom or any other location. Has convenient "all lights on" button to flood your home with light all at once. Turns lights off with a single button, too. Also dims or brightens lights connected to lamp and wall switch modules. (CMC) **61-2672** ..... **24.99**



### Lamp control set—makes a great Plug 'n Power starter system

Create mood lighting from a candlelight glow to full brightness from across the room or any place else in your home. This 2-piece set lets you turn on/off, dim or brighten any lamp, and is fully expandable to accept additional remote modules to control almost anything electrical. Your home is already wired so the system works right out of the box. Controller can command up to eight sets of remote modules. Lamp module for incandescent lamps only, rated up to 300 watts. **61-2674** ..... **24.99**

## Wireless controllers

### Keychain remote system

Never walk into a dark home again! This small, 2-channel pocket remote lets you turn lights on and off in your home or from your driveway or porch. Sends a wireless signal to any lamp plugged into the included remote transceiver module. Requires 2 "AAA" batteries. **61-2663** ..... **24.99**

### Controller/light dimmer

Turn on/off and dim/brighten lights with a touch of a button from anywhere in your home—even in your driveway. Plug-in receiver has one 15A outlet for lamp or appliance. Add plug-in modules to control up to 16 devices. Remote requires 4 "AAA" batteries. **61-2676** ..... **39.99**

### Infrared mini for easy control from your chair

Lets you use our full-function universal remote (15-1905, sold separately) to control your lights and appliances as well as your TV, VCR and stereo. Commands up to eight remote modules. Special order. (CMC) **61-2658** ..... **39.99**  
 Universal A/V remote. (Page 97) **15-1905**, **39.99**

### Wireless wall switch

Add a light switch without rewiring! Utilizes the Plug 'n Power transceiver module 61-2663 to control other remote modules. Also works with Plug 'n Power security systems. Requires 4 "AAA" batteries. **61-2664** ..... **14.99**  
 2-button switch. (CMC) **61-2562**, **12.99**  
 3-button switch w/dimmer. (CMC) **61-2563** ..... **15.99**

### Extra handheld remote

Now you can get several remotes for total home control—keep one in your bedroom and another in the family room. Lets you individually turn on or off up to 16 sets of lights and appliances. Great addition to Plug 'n Power remote-controlled security systems. **61-2560** ..... **19.99**

## Remote modules to expand your system!

### Heavy-duty module controls fans and appliances

With a quick click of a switch, you can easily turn on or off hard-to-reach floor fans, room air conditioners or any other type of motor-driven devices or appliances that require a three-prong outlet. Just plug it in—responds to your Plug 'n Power controller, or use a remote timer to set it to turn on just before you come home from work and turn off when you go to bed at night! Ideal for the elderly or individuals with disabilities. Rated 15 amps for coffee pot, 1/3 HP for motors and 500 watts for lamps. **61-2684**, **13.99**

### Appliance module

It's easy to take control—just plug it in! Works with any of our command centers to turn on/off your TV, stereo system, tabletop radio, lights, fan and other small appliances by remote control. Override feature lets you turn device on and off directly without using control center. For two-pronged appliances and lamps only. Rated 15 amps, 1/3 HP for motors, 500 watts for lamps. **61-2681** ..... **12.99**

### Remote wall switch

Control overhead lighting with ease—ideal for bedrooms, living room chandeliers, TV rooms, or outside lights! Installs in minutes with simple 2-wire hookup. Replaces your regular light switch to accept commands from any Plug 'n Power controller or timer. Turn on/off, dim or brighten any overhead incandescent light. Override lets you turn light on and off directly without using a controller. UL listed. **61-2683** ..... **12.99**

### 3-way wall switches

Set includes two switches that replace two existing wall switches controlling the same light. Fits in standard wall boxes. Turn on/off, dim or brighten lights—ideal for hallways and kitchens with incandescent overhead lighting. Has on/off override switch. UL listed. **61-2686** ..... **15.99**  
 Companion switch. Use with above switch for 4-way operation. (CMC) **61-2607** ..... **7.99**

### Lamp dimmer module

With just a touch of a button you can dim the lamps for a little romance, or set the lighting for a "Home Theater"-like atmosphere to watch movies! Just plug the module into an AC outlet and plug in lamp to turn on, dim or brighten—ideal for hard-to-reach lamps. Responds to any Plug 'n Power controller or timer. Override to turn on/off lamp without controller. For incandescent lamps only. **61-2682** ..... **12.99**

### Remote wall outlet

No better way to turn on or off hard-to-reach lamps and appliances! Simple to install—replaces an existing wall outlet. One socket responds to commands from a Plug 'n Power controller or timer, the second is a standard AC socket that remains on all the time. Simple installation, fits any standard wall box. Includes cover plate, instructions. UL listed. 15-amp rating. **61-2685** ..... **15.99**

### Lamp-socket dimmer module

No wiring or tools needed—dimmer module screws into standard light socket, light bulb screws into dimmer module. Perfect for hard-to-reach lights in living room, basement, laundry room, bedroom or home office. Dim/brighten or turn on/off a lamp or overhead light from anywhere in your home. Use only on indoor incandescent lamps rated 150 watts or less. **61-2566** ..... **15.99**



### Computer-automate your home

The Plug 'n Power computer interface with Windows®-compatible Automatic House software lets you automate your entire home! Control heating and cooling or schedule lights, appliances and TVs to turn on/off while you're away. You can even program it for your daily routine, so that when you wake, the lights come on and coffee is made. The interface connects to your PC to program up to 128 timer events and control up to 256 different Plug 'n Power remote modules. Create a layout of your home to show where remotes are placed and how they're programmed. When you're finished, just detach the module—no tying up your computer. Includes hookup cable. Requires Windows, mouse, Plug 'n Power remote modules and 9V battery for backup. (CMC) 61-2617 ..... 69.99

## Meet the Automated Home

Enjoy the convenience and security of a wireless remote-control system for your home. With Plug 'n Power, you can control lights, TVs, thermostats, a security system, automatic drapes and much more. Have a special application? See us for the solution!



### Telephone responder—call home to turn it on/off

Call home from any Touch-Tone phone to control up to 10 lights or appliances. Answers, then re-transmits the signals you send to your Plug 'n Power modules. At home, use the telephone responder as a manual Plug 'n Power control center. You can even set it to flash selected lights when the phone rings. Plugs into modular telephone jack like a regular phone. (CMC) 61-2692 ..... 79.99



### Set your thermostat by remote control

A great way to reduce heating/air conditioning costs. Just connect to appliance module and timer (sold separately, pages 142-143) and program the controller to automatically set back the temperature. Conserve energy at night, return to normal in the morning. Great for weekend hideaways. Requires no rewiring, works with any kind of thermostat. (CMC) 61-2689 ... 19.99



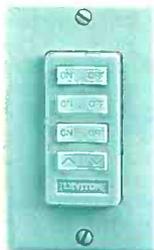
### Remote-control sounder/activator

On/off relay for low-voltage sprinklers or lighting, automatic draperies or auto-dialer. Use the built-in beeper as an intruder alert by linking it with motion-sensing outdoor floodlights (61-2604, listed below right). Works with all Plug 'n Power controllers/timers. Continuous or momentary. Rated 30VRMS at 100VA. (CMC) 61-2688 ..... 18.99



### Universal interface for Plug 'n Power modules

Here's a clever way to deter potential intruders. This versatile interface works with your alarm system, a contact switch or other sensor to turn on or flash lights controlled by Plug 'n Power modules when the sensor is tripped. Works with any contact switch or low-voltage AC, DC or audio output. Easy to install—just connect wires to control device and plug directly into AC. (CMC) 61-2687 ..... 19.99



Faceplate not included



Faceplate not included

### Commercial-type Plug 'n Power switches and modules

Wired controllers and switches are ideal for areas that prove to be inconvenient to install conventional Plug 'n Power equipment. Many of the items below can be easily wired directly into most standard electrical boxes to replace your existing wall switches.

- (1) **Wall-mount command center.** Flush-mounts in standard electrical wall box. Turns on/off or dims up to three Plug 'n Power remote light modules or groups. (CMC) 61-6319 ..... 89.99
- (2) **Wall switch/dimmer controller.** For incandescent lights only. Controls a single remote module or a group of modules. (CMC) 61-6381 .. 59.99
- Fluorescent light controller switch.** Controls lights and appliances that should not be dimmed. (CMC) 61-6291 ..... 64.99
- Signal bridge coupling.** Ensures that your Plug 'n Power command signals are strong and sufficient throughout your home. 120/240V. (CMC) 61-6299 ..... 59.99
- Noise block.** Can be wired on load side to cut any electrical noise from remote modules, low-voltage ballasts or any noise-generating sources. (CMC) 61-6287 ..... 39.99
- Plug-in noise filter.** Helps eliminate annoying electrical noise that may interfere with Plug 'n Power command center signals. (CMC) 61-6288 ..... 39.99
- Wall switch for incandescent lights.** (CMC) 61-6651 ..... 36.99

Items on these pages noted (CMC) are available on fast special-order—see page 130.

### Enhance your security system

**Motion detector.** Plug 'n Power infrared detector sets off security system whenever it senses body heat and motion. (CMC) 61-2614 ..... 59.99

**Keychain remote.** Miniature keychain lets you arm/disarm system, turn lights on/off as you enter and leave. Also works as an emergency "panic" button. (CMC) 61-2618 ..... 19.99

**POWERHORN® siren.** Loud 110 dB siren works with any Plug 'n Power security system. No extra wiring involved—just plug into any AC outlet. (CMC) 61-2613 ..... 49.99

**Remote chime/beeper.** Ideal for use with motion sensor floodlights (61-2604, below) to announce visitors or unwanted intruders. (CMC) 61-2656 ..... 24.99

**Motion-sensing outdoor floodlights.** Lights come on when sensor detects motion. Works by itself or set it to turn on other lights at dusk—just add Plug 'n Power modules. Bulbs not included. (CMC) 61-2604 ..... 49.99

## Consumer electronics grade



### Six-outlet surge protector

This convenient power strip provides full 3-line protection for a complete audio/video system while filtering AC line noise to reduce interference on stereo and TV sound. Circuit-breaker protected to 15 amps. Monitor light lets you know that the protector is operating. Heavy-gauge extruded aluminum housing with lighted on/off switch.

61-2780 ..... 29.99



### NEW With video input protection

Provides 3-line protection against damaging power surges for up to six properly connected electronics. Also has two coax jacks for protection on your cable/TV line. AC line-noise filter blocks interference in stereo and TV sound. 15-amp circuit breaker. LED visual indicator lets you know the surge protector is working. Available Oct. 15, 1994.

61-2130 ..... 29.99



### NEW Six outlets, metal housing

Inexpensive way to protect valuable home electronics from damaging power surges. Provides complete 3-line protection of properly connected equipment and features an AC line-noise filter to block interference in stereo and TV sound. Circuit-breaker protected. Metal housing with 6-foot cord. Protection "on" indicator light. Available Oct. 15, 1994.

61-2131 ..... 21.99



### Single-outlet protector

Shield your valuable home electronics from damaging power surges with this fuse-protected heavy-duty surge suppressor. An indicator light shows that the protector is properly shielding your equipment. Perfect for microwave ovens, bedroom TVs, compact stereo systems and more.

61-2792 ..... 7.99

## Appliance grade



### NEW Six-outlet surge protector

Low-cost "insurance" provides peace of mind. Plug in up to six household appliances for reliable 2-line protection against damaging power surges—ideal for use with microwave ovens, coffee makers and cordless telephones. Has a built-in circuit breaker for extra protection. Master on/off switch lets you turn all connected appliances on or off at once. High-impact molded housing, 4-foot power cord. Available Oct. 15, 1994.

61-2140 ..... 12.99



### NEW Six-outlet protector in metal housing

Reliable protection against damaging power surges—handy power strip provides 2-line surge suppression for your microwave oven, coffee maker, cordless telephone and other household appliances. Built-in 120-volt, 15-amp circuit breaker provides extra protection. LED indicator lets you know surge protector is operating properly. Heavy-duty metal housing. Master on/off switch. Available Oct. 15, 1994.

61-2141 ..... 15.99



### Wall-outlet surge protector

Provides four outlets for small appliances plus basic protection for TVs and VCRs. Has 75-ohm coax connector for antenna/cable-TV line protection. Protection "on" indicator light. 61-2787, 27.99

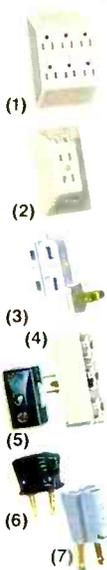


### Single-outlet protector

An easy and inexpensive way to protect a single small appliance from damaging power surges. Indicator light lets you know protector is operating properly.

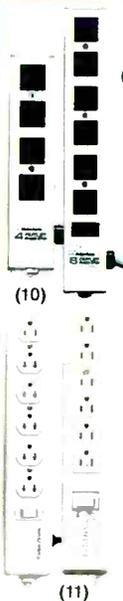
61-2791 ..... 6.99

## Other adapters, switches



### Outlet adapters, plugs (8)

- (1) Six-outlet. For use with 3-prong (grounded) AC outlets. 61-2622 ..... 3.99
- (2) Four-outlet. 2-prong. 61-2621 ..... 2.99
- (3) Three-outlet cube tap. 61-2714 ..... 1.99
- (4) Three-outlet AC socket. Converts one 3-prong outlet to three. 61-2705 ..... 2.49
- (5) Line cord on-off switch. Ideal for lamps and small fans. 61-2713 ..... 1.49
- (6) AC quick-plugs. Replace old plugs in seconds. 61-2702 ..... Pkg. of 2/1.49
- (7) Grounded plug adapters. Convert 3-prongs to 2. 61-2720 ..... Pkg. of 2/1.29



### (9) AC power strips

- Each has heavy-duty cord with grounded plug.
- (8) Four-outlet. Heavy-gauge extruded aluminum housing, industrial-type square outlets, 6-ft. cord, circuit breaker. 15A. 61-2620 ..... 14.99
- (9) Six-outlet. Heavy-gauge extruded aluminum housing, industrial-type square outlets, lighted on/off switch, circuit breaker, 6-foot cord. 15A. 61-2619 ..... 19.99
- (10) Six-outlet. Master on/off, circuit breaker, 6-ft. cord, metal case. 15A. 61-2151, 12.99
- (11) Six-outlet. Master on/off switch, circuit breaker. 4-foot cord. 15A. 61-2150 ..... 8.99



### 15-ft. remote AC power switch

Lets you turn a lamp, TV, stereo or other appliance on or off from up to 15 feet away. Polarized 2-prong plug helps protect against shock.

61-2715 ..... 7.49

Feet	Description	Cat. No.	Each
6	White, 3-Outlet	61-2744	1.99
6	Brown, 3-Outlet	61-2745	1.99
9	White, 3-Outlet	61-2746	2.39
9	Brown, 3-Outlet	61-2747	2.39
15	Brown, 3-Outlet	61-2748	3.39
10	Grounded, 1-Outlet*	61-2749	4.49
9	For Air Conditioner*	61-2758	7.99
25	Brown, 1-Outlet	61-2759	4.49
3	Grounded, 3-Outlet*	61-2764	5.49
10	Grounded, 3-Outlet*	61-2765	7.59

Heavy-Duty Outlets

# Stay Safe and Visible in an Emergency

A break-down on the road can be a motorist's worst nightmare. It doesn't happen often, but when it does it's important to find the problem, get it fixed and make sure others can see you.

At night, even the simplest of these tasks can become difficult without a dependable source of light. That's why so many trust Radio Shack for a wide selection of rugged flashlights and lanterns. We bring light to any emergency.



**NEW** High-visibility flashing wand

Our best handheld lightwand emits a highly visible red signal light bright enough to be seen for miles at night. Its flashing beam calls attention to you or your car in an emergency situation. Tough high-impact construction, non-slip hand-grip and water resistance make it ideal for use in almost any weather. 22 inches long. Strap for carrying. Also great for directing traffic. Requires 2 "D" batteries. 61-2769 ..... 27.99



**Wand flashlight**

Highly-visible yellow cone. Ideal for directing traffic. Requires 2 "D" batteries. 61-2516, 3.49



**Hi-power krypton**

Krypton bulb for brighter, whiter illumination. Adjustable beam. Heavy-duty aluminum housing. Requires 3 "D" batteries. 61-2537, 24.99



**Krypton focusing flashlight**

Beam adjusts from spotlight to floodlight. Requires 3 "D" batteries. 61-2541 ..... 6.49



**Halogen flashlight**

Halogen bulb provides 300% brighter light than ordinary bulbs. Shockproof case. Includes strap, 2 "D" alkaline batteries. 61-2737, 12.99



**Krypton "D" cell flashlight**

Textured surface for good grip. Flasher button. Requires 2 "D" batteries. 61-2540 ..... 5.49



**Four-cell flashlight**

Great buy! Rugged, lightweight design at a low price. Requires 4 "C" batteries. 68-1061, 1.99



**Heavy-duty "D" cell flashlight**

"D" Cell. Easy-gripping handle. Requires 2 "D" batteries. 61-2639 ..... 2.49  
 "C" Cell. Requires 2 "C" batteries. 61-2641 ..... 2.49



**Personal strobe**

Perfect for joggers or road emergencies. High-visibility xenon flash. Requires "C" battery. 61-2506 ..... 19.99



**Hands-free light**

Shines light where you need it, yet keeps your hands free for working.

Lightweight. Comfortable headband. Requires 2 "AA" batteries. 61-2510 .... 4.99



**Adjustable pocket krypton light**

Get the power of a super-bright krypton bulb in a pocket-size flashlight. Provides 70% brighter light than regular pocket flashlights. Tough aluminum housing to withstand heavy daily use. Adjustable focus lets you pinpoint light on small areas. Requires 2 "AA" batteries. 61-2736 ..... 10.99



**High-power krypton pocket ENERLITE**

This elegant penlight features solid brass case with black-matte finish and gold pocket clip. Super-bright krypton bulb. Requires 2 "AAA" batteries. 61-2536 ..... 8.99



**Durable pocket size penlight**

Great for troubleshooting or working on small projects. Pocket clip. Metal case. Requires 2 "AA" batteries. 61-2626 ..... 2.69



**Disposable cliplite**

Ideal when you need instant pinpoint light. Perfect size for pocket or purse. 61-2625 ..... 2.19



**Fluorescent lamp and spotlight**

Combines fluorescent area light on an adjustable arm, amber emergency flasher and bright krypton spotlight. Uses car DC (12VDC cord included), AC adapter or 4 "AA" batteries (both extra). 61-2742 ... 14.99



**Multi-use lantern**

All-in-one lantern includes fluorescent lamp, dual warning flashers and spotlight. Dual power—runs on batteries or plugs into car cigarette lighter receptacle. Six modes of operation. Krypton spotlight bulb. Built-in handle. Includes 12VDC power cord. Requires 6 "D" batteries. 61-2743 ..... 19.99



**Mini 2-in-1 lamp**

Great lantern for camping, hiking or car! It's lightweight and small enough to go in your backpack or glovebox. Turn on the fluorescent lamp and hang by wrist strap to add extra light inside your tent. Also has built-in extra-bright flashlight. Requires 3 "C" batteries. 61-2734 ..... 9.99



**NEW** Cordless monitor for baby's room gives peace of mind

Now you can keep an "ear" on a child's or dependent person's room from anywhere in or around your house and yard. This one-way intercom doubles as a security

monitor, so you can listen in on an area of your home which should be unoccupied—great for the garage, workshop, laundry room or storage area. Both the transmitter and receiver feature omnidirectional antennas for clearest possible sound, plus two selectable frequencies to help prevent signal interference. Installation is easy—just plug the transmitter into any AC outlet. It includes an AC adapter and features an LED power-on indicator. The battery-operated receiver clips to your belt or pocket for easy portability, and features an LED indicator to signal when the battery is low. You can also power it with its included AC adapter for stationary use or to save on batteries. Both adapters UL listed AC. Receiver requires 9V battery. Transmitter, 4<sup>3</sup>/<sub>4</sub> × 2<sup>7</sup>/<sub>8</sub> × 1<sup>7</sup>/<sub>16</sub>". Receiver, 2<sup>1</sup>/<sub>2</sub> × 4<sup>9</sup>/<sub>16</sub> × 1<sup>5</sup>/<sub>8</sub>". (TSP) **43-487** ..... Pair **39.99**

# Home & Office Step Savers

**Wireless Plug 'n Talk® systems**  
*Couldn't be simpler to set up and use—just plug into AC outlets and press to talk. You can even combine several of the same sets to cover every room in your home or office.*

**Battery-powered wired systems**  
*Like our Plug 'n Talk systems, our wired intercoms are easy to install. Just wall-mount stations or place them on a desk, then plug the wire into the stations.*



**NEW** 2-station wireless system

This attractive system is easy to set up and use—just plug into AC outlets. Room monitor function lets you keep an ear on an unattended room. Call button pages the other station. With power and talk/lock LED indicators. 4<sup>4</sup>/<sub>16</sub> × 6<sup>5</sup>/<sub>8</sub> × 1<sup>7</sup>/<sub>8</sub>". (TSP)

**43-486** ..... Pair **39.99**



**NEW** Hands-free wireless system

Keep in touch at work or at home while keeping your hands free. Just plug the stations into AC outlets and you're ready. Call button signals user at other end to respond. Locks for monitoring or one-way communications. 4<sup>1</sup>/<sub>8</sub> × 6<sup>1</sup>/<sub>4</sub> × 1<sup>3</sup>/<sub>4</sub>". (TSP)

**43-227** ..... Pair **79.99**



**Our best! Stylish 3-channel, 3-station system**

Simply plug each station into an AC outlet and press the talk-bar to speak. Three-channel operation lets you talk with one station or all at once for 3-way conferences. Talk-bars lock for hands-free use or room monitoring. FM operation reduces interference and noise. Squelch and volume controls. You can easily move units from room to room or add more sets to expand the system. 4 × 5<sup>7</sup>/<sub>8</sub> × 1<sup>5</sup>/<sub>8</sub>". UL listed AC. (TSP) **43-219** ..... Set of **3/99.99**



**2-station wireless system**

Call button alerts the other station. Lockable talk-bar allows continuous monitoring. FM operation. 4 × 5<sup>7</sup>/<sub>8</sub> × 1<sup>7</sup>/<sub>8</sub>". UL listed AC. (TSP)

**43-204** ..... Pair **39.99**



**NEW** Low-noise FM wireless system

Two-station system has compander noise reduction for quiet operation. Lighted talk-bar doubles as nightlight. Call button, lock bar. 4<sup>3</sup>/<sub>4</sub> × 6<sup>3</sup>/<sub>4</sub> × 1<sup>3</sup>/<sub>4</sub>". (TSP) **43-225**, Pair **79.99**



**2-station wired intercom**

Battery powered for noise-free conversation in home, camper or boat. Lets you send a signal to the other station, even when that station is turned off. Installation is

quick and simple. Master unit has volume control. Comes with 66-foot cable. Each unit is 4<sup>1</sup>/<sub>8</sub> × 3<sup>3</sup>/<sub>8</sub> × 1<sup>1</sup>/<sub>2</sub>". Requires 9V battery. (TSP) **43-222** ..... Pair **14.99**



**4-station wired intercom**

Set up four intercom stations all throughout your home, office or shop. Selector on master station lets you talk with remote stations individually. Intercoms can be wall-mounted or placed on a desk or table. Comes with three 66-foot cables. Master, 4<sup>3</sup>/<sub>4</sub> × 4<sup>1</sup>/<sub>8</sub> × 1<sup>1</sup>/<sub>2</sub>". Remote stations, 4<sup>1</sup>/<sub>8</sub> × 3<sup>7</sup>/<sub>16</sub> × 1<sup>1</sup>/<sub>2</sub>". Requires 9V battery or AC adapter. (TSP) **43-223** ..... Set **24.99**



**NEW** 2-station phone-line intercom

Simply plug into modular telephone jacks for communications between two rooms—uses the existing phone line for clarity surpassing FM systems without interfering with regular telephone use. Hold button places telephone calls on hold—when an extension is picked up, hold is automatically released. Features call button to alert other station, plus locking talk-bar for continuous room monitoring. For desktop placement or wall mounting. Easily expandable by adding more stations. 16<sup>1</sup>/<sub>8</sub> × 4<sup>3</sup>/<sub>8</sub> × 1<sup>3</sup>/<sub>4</sub>". (TSP) **43-483** ..... Pair **49.99**

Computer grade



**NEW** Our best! Six-outlet surge protector and noise filter

Specifically designed to protect high-end computer equipment from damaging power surges. Also has built-in phone jacks to protect modems and fax machines. Features amazing one picosecond response time, 3-stage, 3-line protection, extra-high joule rating of 880, 55 dB noise filter and 6' power cord. An audible alarm sounds to let you know if the surge suppressor circuit has become disabled—you don't have to climb under the furniture to see if it's still working. Available Nov. 15, 1994. **61-2122** ..... **59.99**

Why You Need an AC Surge Protector

Don't take chances with your valuable electronic equipment! momentary voltage surges can cause serious damage to TVs, VCRs, stereos, computers, microwaves, satellite systems and other expensive electronics.

**NEW** Six-outlet surge protector in metal housing

Delivers complete 3-line surge protection for valuable computer systems. Features 55-dB noise filter, a UL 1449 rating of 330V and a joule rating of 450. Has heavy-duty metal housing with 6-foot power cord and ground LED to help insure proper wiring. Has audible and visual alarms to warn of disabled surge suppression. Available Nov. 15, 1994. **61-2121** ..... **34.99**

**NEW** Six outlets, audible/visual alarm

Complete 3-line surge protection for your valuable computer system. Features 55-dB noise filter, UL 1449 rating of 330V and a joule rating of 600. Surge current capability of 48,000 amps. Has a 6-foot power cord and a ground LED to help insure proper wiring. Audible and visual alarms warn of disabled surge suppression. Available Nov. 15, 1994. **61-2120** ..... **34.99**

Wall-outlet phone/fax protector



Absorbs surges in both AC and phone lines to protect office equipment. Provides 3-line protection, features two modular phone/fax jacks and six grounded AC outlets. Filters out noise on

fax and modem lines for clearer reception, too. Fuse protected, includes indicator light to show that the protector is working properly. UL 1449 rating of 400V. **61-2788** ..... **39.99**

Single-outlet surge protector



Provides full 3-line protection for a single PC component or peripheral against dangerous and damaging power surges. Neutralizes harmful power spikes

and surges as well as radio and electromagnetic interference to assure you of safe, clean power. Surpasses UL 1449 minimum standards. LED visual indicator. Response time of 1 nanosecond. **61-2794** ..... **12.99**

Question: What are voltage surges?



Answer:

A surge is a rise in voltage in your AC power line that lasts only a fraction of a second, but can send up to 6000 volts surging through a 120-volt line. In the blink of an eye, damage to your TV, VCR, stereo system, computer, microwave oven or other equipment may occur.

A surge may come from the electric company's switching generators or power grids, from local industries, or after power interruptions when accumulated power suddenly surges back through AC lines. Even the on-and-off switching of electrical appliances can create surges.

How do surge suppressors help? Simply put, they "catch" the extra power coming through the AC line to protect your equipment. Because surges occur often, safeguarding equipment is a must. Why take chances when protection costs so little?



**UL 1449 Rating.** Maximum voltage allowed through the suppressor after it "clamps" the surge. Lower numbers are better.

**Joule Rating.** The maximum energy absorption the suppressor can tolerate before becoming impaired. Higher numbers are better.

**EMI/RFI.** Filters out interference coming through electrical lines or from outside sources. Higher numbers are better.

**Surge Current.** The maximum amount of current the suppressor can tolerate before becoming impaired. Higher numbers are better.

**Response Time.** Time it takes for the surge suppressor to respond when it detects a power surge. Look for response time of nano (billionths) or pico (trillionths) seconds. Lower numbers are better.

Model No.	Metal Case	Outlets	Cord	UL 1449	Joule Rating	Surge Current	Response Time	No. of Lines	EMI/ RFI	Indicators	Phcne/ Ccax
Appliance Grade											
61-2140	-	6	4'	400V	140	13,000 amps	1 nanosecond	2	15 dB	-	-
61-2141	yes	6	6'	400V	140	13,000 amps	1 nanosecond	2	15 dB	visual	-
61-2791	-	1	-	400V	80	-	<200 nanoseconds	2	15 dB	visual	-
61-2787	-	4	-	400V	110	4,500 amps	1 nanosecond	2	15 dB	visual	coax
Consumer Electronics Grade											
61-2130	-	6	4'	400V	280	26,000 amps	1 nanosecond	3	35 dB	visual	coax
61-2131	yes	6	6'	400V	280	19,500 amps	1 nanosecond	3	35 dB	visual	-
61-2780	yes	6	6'	400V	210	6,500 amps	1 nanosecond	3	15 dB	visual	-
61-2792	-	1	-	400V	75	4,500 amps	1 nanosecond	2	-	visual	-
Computer Grade											
61-2120	-	6	6'	330V	600	48,000 amps	1 nanosecond	3	55 dB	visual/audible	-
61-2121	yes	6	6'	330V	450	36,000 amps	1 nanosecond	3	55 dB	visual/audible	-
61-2122	-	6	6'	330V	880	65,525 amps	1 picosecond	3	55 dB	visual/audible	phone
61-2794	-	1	-	400V	300	9,000 amps	1 nanosecond	3	35 dB	visual	-
61-2788	-	6	-	400V	300	9,000 amps	<15 nanoseconds	3	15 dB	visual	phone



**Compact rechargeable flashlight**

No batteries? No problem. This power-failure flashlight plugs directly into AC outlet for charging. Lights automatically when AC power fails. Recharges after each use. Built-in belt-clip, charger and Ni-Cd batteries. **61-2545 . . . 14.99**



**Rechargeable lantern**

Durable power-failure lantern plugs into AC outlet and lights when AC fails.

Adjustable swivel head. Built-in charger, Ni-Cd batteries. **61-2741 . . . . . 21.99**



**Krypton lantern**

Want brighter, crisper white light from a lantern flashlight without paying a premium price? This inexpensive model gives you just that with its high-visibility krypton bulb. Its dependable large beam makes it ideal for camping, home or car. Rugged design—it even floats. Built-in handle. Requires 6V lantern battery. **61-2521 . . . . . 5.99**



**Halogen lantern**

Provides 300% brighter light than normal lanterns by using the same

halogen bulb relied on for years on aircraft and police/security vehicles. Computer designed parabolic reflector. Requires 4 "D" alkaline batteries. **61-2525 . . . . . 10.99**



**Car/boat halogen searchlight**

One of the brightest 12V lights you can buy! This super-power halogen searchlight plugs directly into cigarette lighter socket. Cuts through darkness, rain, fog and snow. 15-ft. heavy-duty 12V DC cord. **61-2505, 29.99**



**100x lighted slide microscope**

Discover a new world with this compact illuminated microscope. It's ideal for students, naturalists or hobbyists. Powerful 100x lens and 8x magnifier for incredible detail. Built-in light shines directly on object for easier viewing. Adjustable rotary focusing knob lets you easily sharpen microscopic images. Sturdy stand for steady, upright viewing. Kit includes six specimen slides in their own protective carrying case. Requires 2 "AA" batteries. **63-853 . . . . 12.99**



**30x illuminated microscope**

See objects in great detail. This microscope's illuminating bulb projects concentrated light directly on the object you want to view. Built-in 8x slide-out magnifier. Includes carry case. **63-851 . . . . . 9.99**



**Lighted magnifier**

What good is a magnifying glass if it's too dark to read? This one has a built-in light to make reading easier. Large 2<sup>3</sup>/<sub>4</sub>" lens and inset 1" lens. Requires 2 "AA" batteries. **63-848 . . . . . 5.99**



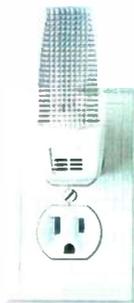
**Touch-lamp dimmer**

No more groping in the dark to turn on a lamp. This screw-in dimmer lets you turn a table lamp on/off or adjust it to one of three brightness levels with a simple touch of your hand! Delay-off mode lets you leave room before the light goes out. **61-2778 . . . . . 13.99**



**Light-bulb life extenders**

Easy-to-install extenders increase the life of light bulbs up to three times, decreasing energy consumption by more than 10%. You'll see a difference in your wallet without seeing a change in brightness. **61-2726 . . . Pkg. of 2/4.99**



**Automatic night light**

Conserves energy by brightening automatically as darkness increases. It stays on throughout the night, then dims and turns off at dawn. Ideal for use in nursery, bathroom or to provide an "at home" look when you're out or on vacation. **61-2646 . . . . . 4.99**



**Touch lamp converter kit**

Save on expensive 3-way bulb costs. This kit converts any lamp into a three-brightness-level "touch lamp." Just touch any metal part of the lamp to turn it on. Conserves energy, extends bulb life by 200% or more. **61-2771 . . . . . 14.99**



**Automatic light control**

This controller's photoelectric eye senses light and darkness allowing it to automatically turn on at dusk and off at dawn. Tough weather-resistant housing. Ideal for porch lights and other outdoor fixtures. Easy screw-in installation. **61-2776, 7.99**



**Flashing security light**

3-in-1 light controller. Turn light off and then quickly back on for an emergency flasher to signal for help or frighten burglars. Darkness sensor and automatic timer to turn on at dusk and off six hours later. **61-2779, 19.99**



**Power-failure night light**

Neon night light with long-life bulb brightens any hallway or kid's room. Emergency light turns on automatically when power fails. Lights up home escape routes in an emergency. Battery recharges when power is restored. **61-2773 . . . 14.99**



**Remote power switch**

This handy device lets you operate TV, light or appliance by remote control. Simple setup and use. With complete instructions. Rated to 15A, 500-watt incandescent, 400W TV. Requires 9V battery. **61-2667 . . . . 23.99**

Rechargeable flashlights are UL listed AC for safer operation.



(1)

### Universal DC-to-DC adapter

(1) Plugs into vehicle lighter socket. Selectable 3, 4.5, 6, 7.5 or 9VDC output voltages. Six included Adaptaplugs allow use with a wide variety of equipment. Up to 300 mA of current. 6-foot cord.

270-1560 ..... 12.99

**NEW!** Adaptaplug for Sony®. Type-2 style. 4.0mm O.D., 1.7mm I.D. (CMC) 270-1575 ..... 2.49

**NEW!** Adaptaplug for radar detectors. 3.0mm O.D., 1.0mm I.D. (CMC) 270-1576 ..... 2.49



(2)

### High-current DC adapter

(2) Selectable voltage output of 3VDC up to 400mA, 6VDC up to 600mA, 9VDC up to 900mA and 12VDC up to 3 amps. Ideal for portable TVs. Includes four Adaptaplugs. 270-1562 ..... 16.99

270-1563 ..... 7.49



(4)

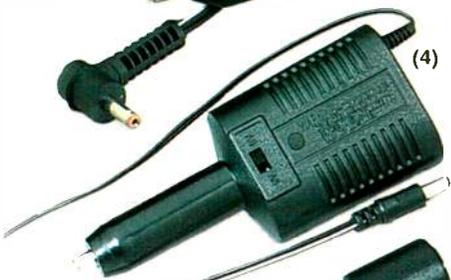
### Video game DC adapters

(3) **Universal Video Game DC Adapter.** Powers these games from car lighter socket: Nintendo™, Super Nintendo™, Nintendo Game Boy™, Sega™ Genesis™, NEC TurbografX-16™, Sega Game Gear™ and Atari™ Lynx™. 270-1504 ..... 19.99

**DC adapter for Game Boy.** 270-1506 ..... 9.99

**DC adapter for Nintendo and Super Nintendo.** 270-1505 ..... 15.99

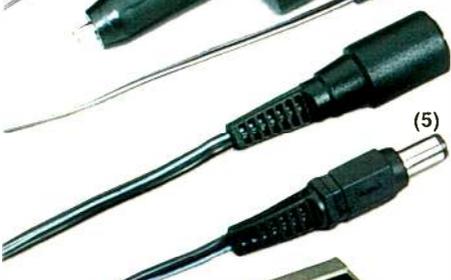
(See page 169 for more video game accessories)  
Trademark Notice: Brand names appearing above identify products by or for companies that own the registration of those marks. These products are not licensed, endorsed or approved by Atari, NEC, Nintendo or Sega.



(4)

### Light-duty DC-to-DC adapter

(4) Provides 6 or 9VDC output, up to 500 mA. Coaxial-type output plug fits many small portable cassette recorders. 14-844 ..... 6.99



(5)

### 5-foot DC extension cable

(5) Fits most AC and DC adapters. Ideal for use with video games and portables at home and in car's back seat. Has coax jack at one end, coax plug at the other in popular 5.5mm O.D., 2.1mm I.D. size.

273-1648 ..... 3.99

**DC power Y cable.** Lets you power two DC devices from one adapter. 273-1649 ..... 4.99



(6)

### 12VDC-to-115VAC portable inverter

(6) Just the thing for camping, tailgate parties and emergencies. Plugs into car's lighter socket. Operates small AC appliances, including shavers, electric blankets, TVs, VCRs, battery chargers, camcorders and more. Rated 140 watts continuous output. (TSP) 22-132 ..... 99.99

50-watt DC-to-AC inverter. (CMC) 22-133, 69.99

225-watt DC-to-AC inverter. (CMC) 22-134, 169.99

800-watt DC-to-AC inverter. (CMC) 22-135, 499.99

1500-watt DC-to-AC inverter. (CMC) 22-136, 849.99



(7)

### 120VAC-to-12VDC power supplies

(7) Regulated power supply. Ideal for powering most mobile CBs, car stereos, radios and other 12VDC devices from AC. Useful in troubleshooting, as well as powering car electronics for home use. Features push-to-reset circuit breaker, LED "on" light, heat sink for cool operation. Rated 2.5 amps continuous. UL listed. 22-120 ..... 39.99



(8)

(8) **Unregulated power supply.** Same function as above, but has a non-regulated output and is rated 1.75 amps continuous. UL listed. 22-127 .. 27.99

# Which Adapter?

Picking the right adapter is easy as 1-2-3

*NOTE: To be able to use a power adapter, your portable must have a DC input jack. The plug from the adapter should fit snugly into this jack.*

## 1... THE ADAPTER'S PLUG MUST MATCH THE POLARITY OF YOUR PORTABLE'S DC INPUT JACK

Most DC input jacks have a symbol nearby that looks like one of these:



This shows you the polarity of the jack. Symbol A means that the outside of the jack is positive (+) and the inside is negative (-). Symbol B means the reverse.

## 2... THE VOLTAGE FROM THE POWER ADAPTER MUST BE EXACTLY THE SAME NUMBER AS THE VOLTAGE REQUIRED BY YOUR PORTABLE

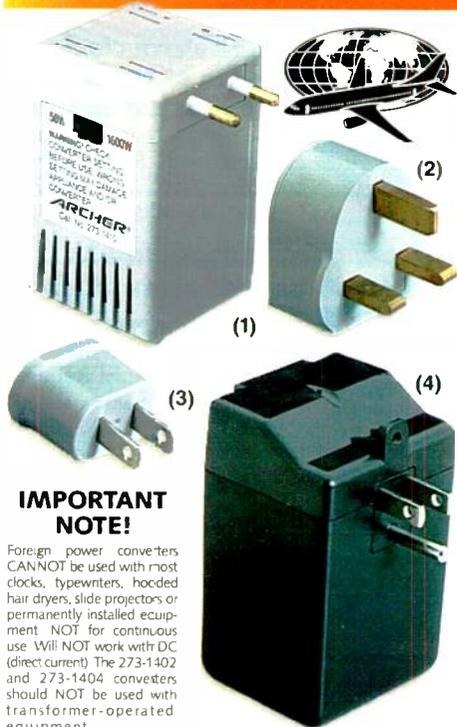
Most DC input jacks are labeled with the voltage required, such as 3VDC or 12VDC. VDC means volts DC. Another way to find the voltage on many products is to count the number of batteries in your portable and multiply by 1.5. For a portable with two batteries, the voltage is 1.5 times 2, or 3 volts.

## 3... THE POWER ADAPTER'S CURRENT (mA) MUST BE EQUAL TO OR MORE THAN THE CURRENT NEEDED BY YOUR PORTABLE

The power adapter also must provide enough current to power the portable. The current is usually given in mA, short for milliamps. You can usually find the amount of current a portable requires listed in the back of its owner's manual. If a portable requires 100 mA of current, an adapter rated at least 100 mA is fine. An adapter that provides more current, such as 500 mA, is often OK to use, too. Using an adapter that provides less current can damage the adapter and the portable.

## CONVENIENT ADAPTAPLUGS AND SELECTABLE-VOLTAGE ADAPTERS

Many Radio Shack adapters include a set of plugs so the adapter will fit different types of DC input jacks. We also have adapters with selectable output voltages. If you plan to use an adapter on more than one portable, one of these AC or DC adapters is your best value.



**IMPORTANT NOTE!**

Foreign power converters CANNOT be used with most clocks, typewriters, hooded hair dryers, slide projectors or permanently installed equipment NOT for continuous use. Will NOT work with DC (direct current) The 273-1402 and 273-1404 converters should NOT be used with transformer-operated equipment

**AC adapters for overseas travel**

- (1) **Dual-Power Foreign-Travel AC Converter.** Lets you use 120VAC (USA) equipment on 240VAC foreign power. For electronic/motorized devices rated up to 50 watts, such as radios or calculators. Also for heating devices up to 1600W, such as irons or handheld hair dryers. 273-1410 ..... 34.99
- (2) **1600-Watt Foreign Travel AC Converter.** Operates most 120VAC heating appliances from 240VAC. For irons, incandescent lamps and most hand-held hair dryers. 273-1404 ..... 19.99
- (3) **1000-Watt Foreign Travel AC Converter.** Same function as above, but rated 1000 watts max. 273-1402 .... 17.99
- (4) **50-Watt Foreign AC Converter/Transformer for Electronic Equipment.** Converts 240VAC to operate most recorders, radios, photoflashes, chargers, calcs. 273-1401 ... 16.99
- (2) **Plug Adapters.** Connect foreign AC converters to almost any outlet, including recessed. Must be used with a converter. 273-1405 ..... Set of 4/7.99
- (3) **Foreign Plug to USA-Outlet Adapter.** Lets you connect a dual-voltage appliance with a European AC plug to a USA-type 120VAC power outlet. 273-1406 ..... 1.99
- (4) **40-Watt Foreign Reverse Converter.** Converts USA power (110/120VAC) to foreign standard 220/240VAC. Operates many foreign appliances rated up to 40 watts on USA power. 273-1411 ..... 31.99

**Home AC testing devices**

- (5) **AC Voltage Sensor.** Indicates 70 to 440 volts AC without direct electrical hookups. Easy and safe way to check cords, switches, fuses and more. 22-103 ..... 12.99
- (6) **AC Outlet Analyzer.** Just plug into any 3-wire (grounded) 120VAC wall outlet to check for a variety of dangerous faults. 22-101 ..... 5.99
- (7) **AC Line Voltage Monitor.** Plug-in meter has a color-coded scale. Indicates safe zone at a glance. 96-130VAC. UL listed. 22-104 ..... 12.99
- (8) **Neon Circuit Tester.** Neon lamp glows to indicate voltages from 90 to 300 AC or DC. Use to check AC outlets, cables, circuits in equipment and more. 22-102 ... 1.99

**AC-to-DC and AC-to-AC Adapters**

- (9) **12VDC High-Current Adapter.** Heavy duty. Delivers up to one amp. Includes four Adaptaplug<sup>®</sup>s. 273-1653, 21.99
- (10) **NEW! Power Adapter for Super Nintendo<sup>™</sup>.** 273-1613 ..... 15.99
- (11) **NEW! 4-Piece Adaptaplug Set.** Available Oct. 30, 1994. 273-1647 ..... 3.99
- (12) **AC-to-DC Adapter for Nintendo Gameboy<sup>™</sup>.** 273-1660 ..... 7.99
- AC-to-AC Adapter for Many Phone Answerers.** 13VAC, 800 mA output. 273-1610 ..... 8.99
- (13) **9 VDC Adapter.** 500 mA. Two Adaptaplug<sup>®</sup>s. 273-1651 ..... 10.99
- 12VDC Adapter.** 500 mA. Four Adaptaplug<sup>®</sup>s. 273-1652 ..... 10.99
- 1.5 or 3VDC Selectable Output.** Up to 300 mA. Personal portable stereo AC adapter with special hum-free circuit. Includes two Adaptaplug<sup>®</sup>s. 273-1654 ..... 13.99
- 6-7.5VDC, 700 mA Output.** For many LCD TVs and portable CD players. Two Adaptaplug<sup>®</sup>s. 273-1655 ..... 17.99
- (14) **Universal AC-to-DC Adapter.** Selectable 3, 4.5, 6, 7.5, 9VDC output. 300 mA. Includes six Adaptaplug<sup>®</sup>s. 273-1650 ..... 12.99
- 11-Piece Adaptaplug Set.** 274-1501 ..... 7.29
- 3VDC, 600 mA CD Player Adapter.** For most portable CD players. Regulated output. (CMC) 273-1659 ..... 17.99
- Adapter for Nintendo<sup>™</sup> Video Game.** 273-1611 ... 15.99
- AC-to-DC Adapter for SEGA Genesis<sup>®</sup>.** 273-1612, 15.99
- (15) **General-Purpose AC-to-DC Adapters.** All are UL listed.

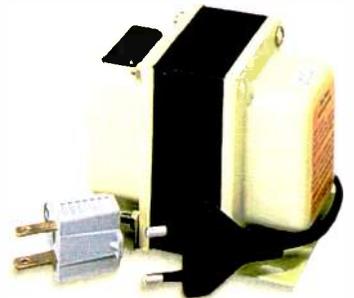
Output VDC	Output mA	Connector	Cat. No.	Each
9	300	5.5/2.1mm <sup>®</sup> Coax, Center Neg.	273-1455	7.99
9	800	5.5/2.1mm <sup>®</sup> Coax, Center Neg.	273-1656	12.99
9	9	9V Snap	273-1552	6.99
7.5	100	3/32" Plug, Tip Pos.	273-1431	6.99
6	150	5.5/2.1mm Coax, Center Neg.	273-1454	7.99
3*	200	3.4/1.3mm Coax, Center Neg.	273-1456	6.99
3	200	3/32" Plug, Tip Pos.	273-1435	6.99

\*For use with most Radio Shack STEREO-MATE<sup>®</sup> portables

## Take it along

Going overseas? Our converters and transformers let you adapt to foreign power

When you travel abroad, you don't have to leave your electric razor, lens sterilizer or other important personal items. Our Foreign Travel AC Converters let you use most small appliances on foreign power, and our new heavy-duty transformers (below) will let you operate your U.S.-made computers, cooking appliances, TVs, stereos and more. Our Plug Adapters (Fig. 3, top left) let you plug them into almost any AC outlet, anywhere, anytime, anyplace.



**Voltage transformers for larger appliances**

- 200-Watt Step Down Transformer.** Can be used with answering machines, computer monitors, dot-matrix printers, fans, small fax machines, hand blenders, hand mixers, juicers, keyboards, pasta makers, small stereo systems, televisions and VCRs (for playing tapes recorded in the U.S.), video games and word processors. (CMC) 273-1415 ..... 39.99
- 500-Watt Step Down Transformer.** Can be used with blenders, food processors, computer systems, small copiers, large fax machines, small hand drills, meat slicers, stand-type mixers, sewing machines, large stereo systems and small vacuums. (CMC) 273-1416 ..... 64.99
- 1000-Watt Step Down Transformer.** Can be used with bread machines, coffee/espresso makers, large copiers, large food processors, irons, laser printers, plain-paper faxes, popcorn poppers, power tools, toasters, large vacuums and waffle/sandwich makers. (CMC) 273-1417 ..... 99.99
- 1500-Watt Step Down Transformer.** Can be used with large espresso machines, frying pans, grills, kettles, microwave ovens and toaster ovens. (CMC) 273-1418 ..... 149.99

# They talk! Timekeepers that actually tell the time.

Great gift ideas—and Radio Shack has the largest selection of talking timepieces you'll find anywhere!



Our streamlined AC-powered talking alarm, above, speaks the time at the push of a button, or you can set it to chime and tell time on the hour. Wakes with spoken time or a beep alarm. Need extra winks? Just tap the snooze button for 10 minutes extra rest. Big 0.9" LED display. Battery Backup keeps you on time if AC fails. Battery Sentinel® LED warns if battery is weak or missing. 2 3/8 x 5 15/16 x 4 1/2". Requires 9V battery for backup. 63-909 ..... 39.99

### NEW Talking alarm watch with hands



This accurate quartz watch brings you classic beauty with its analog hour, minute and second hands. It has an LCD digital display, too. The voice speaks the time at the touch of a button and you can set it to announce time on the hour. Use the alarm to remind you of meetings. Gun-metal-gray housing, stainless steel band. With battery. Available Nov. 15, 1994 63-5045 ..... 39.99



### NEW Talking alarm and thermometer

Push a button to hear time and temp. Fahrenheit or Celsius format. Requires 2 "AAA" batts. Available Oct. 30, 1994 63-724 ..... 29.99



### Desk cube talking LCD alarm clock

Tap the button to hear time or set it to chime and tell time hourly. LCD display/controls underneath. 2 3/8" high. Req. 2 "AA" batts. 63-914, 24.99



### Talking fold-up LCD travel alarm clock

Folds to only 1 5/16 x 4 x 2 7/8", travels well. Selectable beep or rooster crow alarm. Hourly chime/spoken time. Req. 2 "AAA" batts. 63-717, 17.99



### NEW Talking alarm watch with timer

Push a button to hear time or set this watch to chime and announce time on the hour. Use the alarm as a fancy reminder, wherever you go. Displays hour, minute, second, month, date, day. Countdown timer with 59-minute, 59-second maximum. Includes battery. 63-5043 .... 29.99



### Talking alarm clock for desk or travel

Easy-to-read 1/2"-high LCD digits. Hourly chime and time announcement. Req. 2 "AA" batteries. Was 21.99 in 1994 Catalog. 63-908 ..... 19.99



### NEW Talking "time period" alarm clock

Add a timely spot of color to a desk. Speaks time at the touch of a button or hourly. Requires 2 "AA" batts. Available Sep. 30, 1994 63-913 ..... 14.99



### NEW Talking keychain LCD alarm clock

Time and key-keeper for folks going places. Hear time at the touch of a button or every hour on the hour. Includes batteries. 63-910 ..... 12.99



### Talking alarm watch with calendar

A clear voice announces the time hourly or at the touch of a button. Use the alarm to remind you of calls to make and appointments. Hourly spoken time on/off switch. LCD time and date display. Includes battery. Was 19.99 in our 1994 Catalog. 63-5042 .... 17.99



### Talking clock in a super-deluxe pen

Beautiful, hefty, enamel-finish ball-point tells the time with the touch of a button. Pleasant "crowing rooster" alarm. LCD time/date display. With battery. 63-5094 ... 19.99  
ink refill. (Special order CMC). 63-5095 ..... 1.99

## Super values in quartz watches and stopwatches



### NEW LCD chrono alarm watch with full display lighting

Don't be in the dark about the time. Just press a button and the entire display of this watch is bathed in a cool green glow, superior to others that light only a corner of a display. Shows hours, minutes, and seconds with 1/100-second resolution, plus month, day and date. Selectable hourly chime. Stopwatch. Water resistant. Durable metal case. Includes battery. Available Sep. 30, 1994 63-5020 ..... 29.99



### Neat gift! LCD watch/pen

Displays time and date. Pen accepts standard ink refill. Handsome brushed-chrome metal housing. Includes battery. 63-5093 ... 5.99



### NEW LCD alarm watch

Hourly chime, calendar, backlight and water-resistant case. 63-5034, 9.99  
Available Sep. 30, 1994



### NEW LCD alarm watch

Metal case and band. Backlight, chime, timer, and stopwatch. 63-5035, 14.99  
Available Sep. 30, 1994



### NEW Watch with calculator

8-digit calc, alarm, hourly chime, calendar, timer. Includes battery. 63-5021, 14.99  
Available Oct. 30, 1994



### Watch with pacer beep

Has alarm, stopwatch, timer, calendar, beep with adjustable speed for workouts. Includes battery. 63-5080, 19.99



### NEW Multifunction LCD stopwatch

(1) Times to 24 hours. Stores 9 lap times. Pacer beep. Chime, alarm. With battery. 63-5013 ... 24.99

### LCD sports stopwatch

(2) Times to 10 hours. Confirming tones. Water resistant. With battery, neck cord. 63-5011, 19.99

Looking for a battery? Radio Shack has factory-fresh batteries for watches, clocks, timers, cameras, calculators and hearing aids.

Our AC-powered alarm clocks, shown in the column below, stay on time even if power fails



**Battery Backup System.** If AC fails, a battery powers the clock for up to eight hours (without display) and sounds alarm at the correct time.



**Battery Sentinel®.** Monitors the backup battery. An LED alerts you if the battery is weak or not installed.



**Alarm clock with 1.8" digits**

Time at a glance, even from across the room. The LED display has a high/low brightness control and selectable 12/24-hour format. A rotary control makes time and alarm setting quick, easy and accurate. Extra-large snooze button gives you a few extra winks before alarm sounds again. 4" high. 63-748, 24.99



**Clock with 1.4" digits**

LED display is readable across a room. High/low brightness. On-top snooze button. 63-763, 17.99



**Easy-to-set alarm clock**

Just turn the dial to rapidly set. 0.6" LED digits, snooze. 63-771 . . . . . 14.99



**Clock with green LED**

Easy-on-the-eyes 0.6" LED display. On-top snooze button. 63-757, 13.99



**Designer LED alarm clock**

Stylish and practical. Easy-access on-top controls. 0.6" digits. 63-769 . . . . . 12.99



**Compact LED alarm clock**

Excellent choice for a crowded bedside table. 0.6" digits. 63-770 . . . . . 9.99



**Clock/calendar with 1.75" -high LCD digits**

Classy! Jumbo digits embedded in a transparent display is easy to read from a distance. Shows time or alternating month-date and time. Tubular metal frame. 4 1/2" high. With battery. 63-729, 19.99



Available Oct. 15, 1994

**"Blue Seas" LCD desk alarm clock**

Check time by looking into a soothing seascape. Uniquely styled clock "floats" behind a lone boat sailing on a serene blue sea. Big 3/4" -high digits. With battery. 63-732, 14.99



**LCD clock/calendar with solar calculator**

Fold-out calc. Switches from solar to battery power in dim light. Requires "AAA" battery. 63-728 . . . . . 19.99



**LCD alarm clock with hourglass timer**

Just flip to start or restart the 1 to 99-minute LCD "sand" hourglass display. 5 1/2" high. With battery. 63-747, 24.99



**Travel clock with crescendo alarm**

Alarm's 4-step volume wakes gently. Snooze, backlight, LCD display. Requires "AAA" battery. 63-720 . . . . . 14.99



**Travel clock with built-in flashlight**

Handy bright flashlight, 0.9" LCD display, snooze, fold-out stand. Requires 3 "AAA" batteries. 63-714 . . . . . 14.99



**Mini travel clock with pushbutton light**

Luminous hands, easy-to-set alarm. Only 2 1/4" high, ideal for travel or desk. Requires "AA" battery. 63-716, 11.99



**Ultra-thin LCD travel alarm clock**

This clock has large 3/4" -high digits, yet folds to credit-card size for travel. Snooze. With battery. 63-722 . . . . . 11.99



Available Sept. 30, 1994

**LCD travel alarm clock/calendar**

Large 3/4" digits, 12/24-hour format, snooze. Folds to 2 5/8 x 2 5/8 x 1 3/8". Requires "AAA" batt. 63-723 . . 9.99



Available Oct. 15, 1994

**LCD "clip clock" with magnet and slot**

Spring clip plus slot for wall use and magnet to hold to fridge or file. 3/4" -high digits. With battery. 63-733, 7.99



**LCD Anywhere® clock with bracket**

Mount bracket on wall, car dash, anywhere! Clock with 3/4" -high digits slides in/out. With battery. 63-736, 7.99



**LCD decorative desk clock/calendar**

Transparent display, 3/4" -high digits, 4" -long chrome and simulated granite base. With battery. 63-734 . . . . . 7.99



**Stick-on mini LCD clock/calendar/timer**

Easy-to-use 15-minute timer can help you limit your long-distance calls. 1 1/2" diameter. With battery. 63-840, 3.99

Accurate timing for sports, cooking, workouts, school tests and more.



**Precision quartz LCD countdown timer**

Time workouts, cooking, or any event up to 99 minutes, 59 seconds. Easy entry. Beeps when time runs out. Handy belt clip, magnet mount and desk stand. 2 1/2" high. With battery. 63-893 . . . . . 14.99



**Dual-timer/clock with jumbo display**

Count up, down, or both at once. 29 hours, 59 minutes max. timing. LCD. 12 or 24-hour clock format. 1 3/8 x 2" display. Magnet mount, desk stand. Requires "AAA" battery. 63-894 . . . . . 17.99



**LCD dual-memory timer/clock**

Time two events at once, each up to 99 hours, 59 minutes. 12/24-hour clock. 3/4" -high digits. Handy clip/stand/magnet mount. Includes battery. 63-884, 15.99



Available Oct. 30, 1994

**Count up/down timer with 3/4" digits**

Easy to read LCD. Counts down, beeps, counts up. 99 minutes, 59 seconds maximum timing. Clip, magnet-mount, desk stand. Includes battery. 63-897 . . . . . 11.99



**We can make it easier for you to get to the heart of good health**

Good health is an important part of an active lifestyle and needs to be preserved. At Radio Shack, we have an assortment of great products to help you monitor your health or to help track a personal fitness program.

Two compact blood pressure monitors, with special auto-inflate feature, let you check important numbers almost anywhere without a stethoscope. Our digital fever thermometer provides fast and accurate temperature readouts. Miniature-sized biofeedback stress monitor helps you learn to relax. Belt-clip distance meters let you track your workout and display how far you have gone—AND to show you how far you have come!



**NEW Automatic blood pressure monitor with LCD display**

The convenient way to check vital numbers. Arm cuff auto-inflates to the correct pressure at the touch of a button. Easy-to-read LCD display shows systolic, diastolic and pulse rate without a stethoscope. Visual symbols guide you through the entire procedure. Checks blood pressure from 20-280mm/Hg and pulse rate from 40-200 beats per minute. Built-in memory stores last readings. With auto-shutoff and low-battery indicator. Requires four "AA" batteries. Available Nov. 15, 1994. 63-639 ..... 79.99

**Facts about blood pressure**



Blood pressure is measured in two components: Systolic—the pressure when the heart contracts, and Diastolic—the pressure exerted when the heart rests. Of course, the pulse rate—the number of heartbeats in a given amount of time—is also important.

**NEW Compact, automatic blood pressure monitor**

A lightweight, compact, instrument that makes it easy to check your blood pressure components: systolic, diastolic and pulse rate. Easy one-hand operation—simply insert your finger into the adjustable finger cuff and the monitor auto-inflates to the correct pressure at the press of a button. LCD shows blood pressure and pulse rate. Rejects any false readings resulting from arm movement. Small enough to travel with. Requires 9V battery. Available Sep. 30, 1994. 63-638 .... 79.99



**Digital display workout monitor**

Compact fitness monitor with digital LCD display measures distance in miles or kilometers and calculates calorie burn. With stopwatch and workout timer. Detachable belt clip. With battery. 63-615 ..... 29.99



**Precise digital pedometer**

Digital pedometer accurately measures up to 99,999 steps and up to 999.99 miles. Large easy-to-read LCD display. Includes built-in belt clip and RS386A battery. New low price (was 19.99 in '94 Cat). 63-682 .. 14.99



**LCD fever thermometer**

You get a precise digital readout, accurate to  $\pm 0.2^\circ$ . Beeper sounds when temperature measurement is complete. Uses disposable sterile tip covers (available in most local drug-stores). Low battery indicator. Automatic shut-off feature extends battery life. Includes RS357A battery. 63-655 ..... 9.99



**Biofeedback stress monitor**

Learn to control stress. Electronically detects body changes caused from stress. Changing tones help you slow down after a busy day. Measures galvanic skin resistance. Requires 2 "AA" batteries. 63-664 ..... 14.99



**Rechargeable cordless massager**

Relax yourself after a tough day. Portable cordless massager helps reduce tension and relieve tired, aching muscles. Soft, beaded and spot massage surfaces are perfect for getting to the "exact" spot. Compact, lightweight design. Handy wrist strap. UL listed AC charger. 63-650 ..... 21.99



## We've got the time, the temperature and the relative humidity

Radio Shack personal electronics can help make your life more comfortable.

Electronic humidity gauges and thermometers provide accurate readouts of current conditions so you can adjust a humidifier or heating and cooling system to the most comfortable settings. Plus, you can recall the highest and lowest temperature since last reset at the touch of a button.



## Get the right temperature!

Why call for the temperature from a service that may be miles away or on the top of a tall building? Our indoor/outdoor thermometers let you know what the temperature is inside or outside your own home or office!



## Indoor/outdoor thermometer

Attractive thermometer sits on your desk or mounts on a wall if you use the included wall bracket. Constantly monitors changes to provide up-to-the-second temperatures with

precise electronic accuracy. Easy-to-read digital display. Backlight for use in the dark. Selectable Celsius or Fahrenheit readout. With battery. 63-854 ..... 14.99



## Jumbo dual-display thermometer

Large, easy-to-read digits show you the indoor and outdoor temperatures at the same time, so you can get both with a single glance. The memory stores minimum and maximum

temperatures since you last reset it. Has switchable Fahrenheit or Celsius format. Requires "AA" battery. 63-869 ..... 29.99



## Dual-display indoor/outdoor thermometer

Displays current indoor and outdoor temperatures at the same time. Temperature memory lets you push a button for the highest and lowest readings since last reset. Wall mount or use with built-in desk stand. Requires "AA" battery.

63-1020 .... 21.99



## Indoor thermometer & humidity gauge

Shows indoor temperature and the relative humidity. Displays "comfort" indicator when the temperature and humidity are ideal. Stores last high and low temperatures and humidity readings. Requires 2 "AAA" batteries.

63-855 .... 24.99



## In/outdoor thermometer with memory

Separate LCD displays show indoor and outdoor temperatures. Switchable C° or F° readout. High/low memory saves readings until reset. Wall mount or desk stand. 11-foot sensor wire. Requires "AAA" battery.

63-859 ..... 29.99



## Barometer, thermometer and forecaster

Measures barometric trends and predicts weather changes up to twelve hours in advance by displaying simple weather symbols. Built-in digital alarm clock. Calendar. F° or C° readout. Requires 4 "AA" batteries.

63-856 ..... 79.99

## In/outdoor dual-display thermometer/humidity gauge

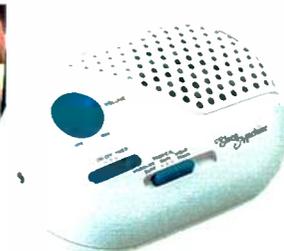
Feature-packed! Designed to accurately display both indoor and outdoor temperatures simultaneously. Measures indoor relative humidity, too. Lets you know if you need to turn on a humidifier to add moisture or an air conditioner to dry out the air. Comfort indicator and Wet/Dry indicators tell you when relative humidity is optimum, a benefit both you and your house plants will appreciate. Constantly samples temperature and humidity for the latest measurements. Selectable Fahrenheit or Celsius readouts. Minimum and maximum temperatures are automatically stored in built-in memory for instant recall. Requires 2 "AA" batteries. 63-867 ..... 29.99

# Rest easier with a relaxing sleep machine.



## Non-prescription sleeping aid

Sleep Machine®. Soothing sleep-inducing sounds like tropical forest rainfall, gentle lapping of surf or the rhythmic "clickety-clack" of a train. One-hour automatic shutoff timer with auto-fade. Built-in 3" speaker plus pillow speaker. 1/8" earphone jack. UL listed AC. 63-646 ..... 39.99



## Portable Sleep Machine

Small size makes it easy to move or pack on business trips. Three soothing sound choices: tropical forest rainfall, gentle ocean surf or railroad "clickety-clack". The 30-minute timer gradually lets the sound fade away. With 1/8" earphone jack. Requires four "AA" batteries. 63-636 ..... 34.99



# Optimus Audio for Your Car

Choosing the right stereo for your car, truck or sport/utility vehicle is as easy as coming to Radio Shack. Whether you're replacing an underpowered factory stereo or installing a multi-component custom system, we've got it all.

Choose from our top-of-the line 32-watt AM/FM stereo with CD player or any of our great sounding AM/FM cassette models with CD inputs—ready-made for digital audio. Add an equalizer or power amp for improved sound and a subwoofer for incredible bass. Sounds good! A new sound system from Radio Shack makes traffic "jams" a good thing!

## AM/FM stereo CD player with detachable faceplate

The ultimate addition to any vehicle—AM/FM and CD player! This jam-packed unit features a 16-track programmable compact disc player with single-bit D/A conversion. Plus intro-scan, search, repeat and popular "shuffle" play. 4x oversampling. With anti-theft faceplate—pop off the front panel and take it with you. Without the controls, the system is unusable. A clever way to deter would-be thieves.

And there's a lot more! AM/FM tuner with search and scan. Three environment presets remember bass, treble, fader and volume settings—perfect for multiple-driver families! 16-watt-per-channel amp. 30-station presets: 18 FM and 12 AM. Line-out jacks for external amplifiers or powered subwoofers, auto-mute for use with mobile phones. Night illumination. DIN-E. (TSP) 12-1995, 329.99



## NEW AM/FM with auto-reverse cassette and anti-theft face

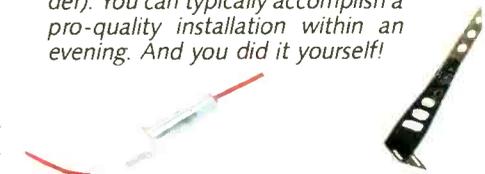
This full-featured cassette deck offers auto-reverse, advanced music search function, and Dolby B noise reduction.

The built-in 14 watts-per-channel amplifier powers up to four speakers. Line-out jacks let you add external power amps or equalizers. Fader controls both the line outputs and internal power. The tuner uses advanced PLL circuitry for precise digital tuning. 30-station memory presets: 18 FM and 12 AM. With bass, treble, balance, fader, loudness and volume controls. Anti-theft face plate removes to render the unit inoperable and worthless to would-be thieves. DIN-E. (TSP) 12-2104 ..... 189.99



## Install it yourself—we can show you how!

Even if you have never installed a car stereo before, you'll be surprised just how simple it is—with help from Radio Shack. To start, remove your present stereo which can usually be accomplished with just a screwdriver. Next, using an installation kit and wiring harness adapter from Radio Shack (see pages 159-163), assemble the faceplate and plug in connectors to complete the wiring. We can show you everything you'll need to know. Finally, mount the new stereo into your dash. Just screw it in or in some cases, use a special adapter we carry (some may be special order). You can typically accomplish a pro-quality installation within an evening. And you did it yourself!



## Installation tool checklist

Common household tools that you may need to install your new stereo:

- ✓ Screwdriver
- ✓ Wire strippers/crimpers
- ✓ Electrical tape
- ✓ Wire ties
- ✓ Wire tap-ins

Some installations may require the use of additional tools.



## NEW AM/FM stereo with auto-reverse and music search

Classic styling, unbeatable performance and an easy-on-the-budget price. With 14 watts of power per channel, this is an ideal upgrade for original factory-installed

models or aging stereos. Features a continuous auto-reverse tape deck with Dolby B noise reduction and auto selection and metal tape selector. AM/FM tuner features precise digital PLL tuning and line-level outputs. 30-station memory: 18 FM and 12 AM. Automatic search, scan, memory scan, and built-in loudness circuitry. Separate controls for bass, treble, fader and balance for optimum listening pleasure. Automatic local/distance circuitry adjusts tuner sensitivity offering the best radio reception. Easily mounts in cars with opening for shaft-type stereos. A front panel input lets you connect a portable CD or minidisc player. DIN-C. (TSP) 12-1996 ..... 169.99



### Auto-reverse cassette

With detachable control panel. Remove the panel and unit is inoperable. LED flashes when panel is missing. 14-watt-per-channel. Tuner with auto-storage and memory scan. Auto-mutes when car phone is in use. 2-color night illumination. DIN-E. (TSP) 12-1993 . . . 169.99



### High-power AM/FM cassette

With 32-watt output. Anti-theft 3/4" panel—remove it and the unit is inoperable. 16-watts-per-channel. Full-featured cassette. Tuner with auto-storage, seek/memory scan. 30 presets: 18 FM/12 AM. Amber and green illumination. DIN-E. (TSP) 12-2103 . . . 149.99



### Cassette with line outputs

With 1/2 detachable control panel. Stereo is inoperable without panel—discourages theft. With carrying case. Cassette with fast-forward and auto-reverse. Tuner 18 presets: 12 FM/6 AM. Seek, scan, local/DX switch. Amber night illumination. DIN-E. (TSP) 12-2102 . . . 129.99



### AM/FM auto-reverse cassette

AM/FM stereo auto-reverse cassette. With locking FF and reverse. Precise PLL digital tuner stores 30 presets: 18 FM and 12 AM. Memory scan and seek tuning. Tone control. Amber-lighted LCD display with digital clock. DIN-C. (TSP) 12-2002 . . . 129.99



### 28-watt AM/FM cassette

AM/FM cassette with detachable control panel. Remove control panel and unit is disabled—LED flashes, discouraging theft. 14 watts per channel. Tuner auto-stores strong stations. Auto-stop cassette. Line out. Amber night illumination. DIN-E. (TSP) 12-1994 . . . 129.99



### AM/FM cassette with clock

AM/FM stereo auto-reverse cassette. 14-watt output. Tuner stores 30 stations: 18 FM/12 AM. Preset station scan, automatic local/DX switch, FM signal enhancer for best reception. Optional amber or green night illumination. DIN-E. (TSP) 12-2101 . . . 119.99



### With detachable control panel

Anti-theft panel renders stereo inoperable. Cassette with auto-stop and locking fast forward. Bass, treble and balance. 30-station presets: 18 FM/12 AM. Memory, seek and scan. CD input jack. DIN-E. 12-1998 . . . 99.99



### AM/FM auto-stop cassette

PLL for precise digital tuning. Advanced FM optimizer circuitry automatically adjusts for the best sound. 12 presets: 6 FM/6 AM. Memory, seek and scan tuning. Amber-lighted LCD display. Digital clock. DIN-C. 12-1997 . . . 89.99



### Mini-size in-dash AM/FM stereo

Designed to fit small spaces. Amber back-lighted dial. Cassette auto-stop to protect tapes. FM stereo LED indicator. Rotary volume, tone, tuning and balance controls. Mini/Universal size. (TSP) 12-1814 . . . 59.99

## This practical car stereo chart will help you select the stereo with the features you want

Cat No	Amplifier					Tape							CD	Radio					FM Specs		Style
	Watts/Channel	Bass & Treble	Line In/Out	Spkr. Fader	CD Jack	Loudness Control	Auto Reverse	Dolby NR	ASMS	Metal Crtl.	Auto Stop	Locking FF/Rew.		Station Presets	Clock Display	Mono/Stereo	Local/DX	Auto Seek	Mem Scan	Stereo Sep.	
12-1814	4	Tone									FF		30		✓	✓			33	3.2	Mini/Universal
12-1993	14	Tone	✓	✓			✓				FF		30		✓	✓	✓	✓	40	2.0	DIN-E
12-1994	14	Tone	Out	✓							FF		30		✓	✓	✓	✓	30	3.0	DIN-E
12-1995	16	✓	Out	✓									30	✓	✓	Auto	✓	✓	30	3.0	DIN-E
12-1996	14	✓	Out	✓	✓	Auto	✓	✓	✓		✓		30	✓	✓	Auto	Up	✓	36	3.0	DIN-C
12-1997	4	Tone			✓					✓	FF		12	✓	✓		Up	✓	30	3.0	DIN-C
12-1998	4.5	✓	✓		✓					✓	FF		30	✓	✓	✓	✓	✓	30	3.0	DIN-E
12-2002	4	Tone		✓			✓				✓		30	✓	✓	Auto	Up	✓	36	3.0	DIN-C
12-2101	7	Tone				Auto	✓				✓		30	✓	Auto	Auto	Up	✓	30	3.0	DIN-E
12-2102	4	Tone	Out			✓	✓				✓		18		Auto	✓	Up	✓	30	3.0	DIN-E
12-2103	16	✓	✓	✓						✓	✓		30	✓	Auto	✓	UP	✓	35	4.0	DIN-E
12-2104	14	✓	Out	✓		✓	✓			✓	✓		30	✓	Auto	✓	✓	✓	36	3.0	DIN-E

### Installation information for Radio Shack in-dash car stereo equipment

DIN-E-Flat face" chassis design that fits the single rectangular dash opening in most late-model vehicles. Requires 2 1/8"-high by 7 1/4"-wide dash opening and a space behind the dash at least 2 1/8" high and 7 1/4" wide.

DIN-C- These players require dash openings for two control shafts and an opening between the shafts at least 1 3/4" high by 4 3/16" wide for the player's nosepiece. Control shafts of these players adjust from 5 1/8" to 5 13/16" spacing.

MINI/UNIVERSAL- #12-1814 has control shafts that adjust 5 1/8" to to 5 13/16". Requires a dash opening at least 1 7/8" high by 4 1/4" wide and space behind dash of 2 x 7 1/16 x 5 3/8".

GENERAL INFORMATION-All models include plug-in wiring harnesses with leads, fuse, switched power lead for accessories. CAUTION: High-power players require ungrounded speaker wiring, two wires to each speaker. Some vehicles may require dash modification. NOTE: Shaft spacing in most older domestic trucks is 6 5/16".



### 72-watt, 7-band equalizer/booster

Powerful 4-channel amplifier for incredible sound. Slide-action EQ controls with 12 dB range let you make precise tone adjustments. Front/rear speaker fader, 10-LED power meter. Front-panel CD input jack and bypass control. Line-level and speaker-level inputs—works with virtually all car stereos. 18 watts of power into each of 4 channels. Power-on LED. Ultra-compact, slim-line design fits easily under most dashes—only 1 x 7 x 6<sup>7</sup>/<sub>8</sub>". (TSP)

12-1972 ..... 79.99



### 60-watt, 7-band EQ/booster

Boost your car stereo performance with 30 watts per channel of audio power and wider dynamic range. Slide-action EQ controls with 12 dB range. Features a large, rotary front/rear speaker fader, 10-LED power meter with high/low sensitivity switch, power-on LED, amber backlit panel. Comes with a jack for connecting a portable CD player. 4/8-ohm impedance speaker switch. 1<sup>7</sup>/<sub>8</sub> x 7 x 6<sup>5</sup>/<sub>16</sub>". (TSP)

12-1969 ..... 79.99



### 40-watt, 7-band EQ/booster

Get higher performance from your car stereo by boosting the power and use the 7-band equalizer to customize the sound to match your personal taste or your vehicle's interior. Front-rear speaker fader for 4-speaker systems, 10-segment LED power meter, line-level and speaker-level input jacks. Comes with a jack for connecting a portable CD player. Mounts easily under the dash—for use only with high-power-handling speakers. 1<sup>3</sup>/<sub>4</sub> x 6<sup>3</sup>/<sub>8</sub> x 5". (TSP)

12-1966 ..... 59.99



### 7-band passive equalizer

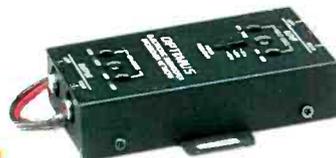
Adds precise tonal control to amps and equipment with line-level input/output jacks. Features slide-action controls with 12 dB range, fader control to balance 4-speaker systems, and front-panel CD input jack for connecting a portable CD player. Pushbutton bypass control for quick comparison of equalized and non-equalized sound. Compact thinline design mounts easily under dash—only 1 x 7 x 5<sup>7</sup>/<sub>8</sub>".

12-1973 ..... 44.99



### 3-way electronic crossover system for multiamp/multispeaker installations

Recommended for multi-amp stereo systems, this crossover adds flexibility and improved speaker response. Two pairs of inputs, three pairs of outputs. Low-pass 80/120/180/250 Hz, mid-pass between 80/120/180 Hz & 2.4/3.5/5/7 kHz, high-pass 2.4/3.5/5/7 kHz. Crossover slopes: 12 dB/octave. 12VDC neg. gnd. 12-1968 ..... 49.99



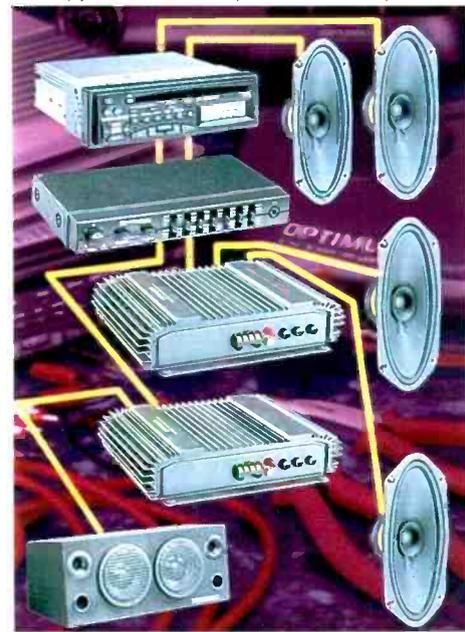
### Electronic subwoofer crossover network with 12 dB Bass Boost

Boosts and directs low-end frequencies to subwoofer amplifier. Adjustable crossover frequencies of 70/90/120 Hz let you "fine tune" your system to meet speakers' demands. Coupled with a 12 dB boost at 45 Hz for bass you can feel. Perfect with one of our amps and Band Pass Box. #12-1931. 12-1974 ..... 29.99

# Build a Better Car Stereo!

Get the most out of your car stereo! Equalizers let you adjust frequencies with pinpoint accuracy. Boosters give you added punch for enhanced listening pleasure. Crossovers for controlling awesome multi-speaker and multi-component systems.

Power up your car stereo with Optimus car audio components



### LED mini car clock

(1) Quartz-accurate timepiece features hi/low brightness control for easy viewing in any light. For 12VDC negative or positive ground. 63-833, 17.99

### Line-out converter

(2) Just what you need to connect amplifiers, boosters and equalizers to car stereos not equipped with line-out jacks. 12-1337 ..... 24.99



### FM signal booster

(3) Great for "fringe" areas. Boosts FM signals by more than 10 dB to bring in stations more clearly. For 12VDC neg./pos. ground. 12-1873 ... 19.99

### CD-to-cassette adapter

(4) Quickly connects a portable CD player to your current car cassette player. It's easy—no installation or special wiring needed! Just load like a regular cassette tape. 12-1951 ..... 19.99



### Wireless CD adapter

Play your portable CD through your car speakers—without wires! This CD-to-car stereo adapter is a miniature FM "radio station". Converts audio from the player's headphone jack to a high-quality radio signal you can hear through your FM radio. You can select from four FM frequencies for the best reception. Requires 2 "AA" batteries. 12-2051 ..... 39.99

Note: Boosters rated total watts rms output, all channels. Boosters require 4-wire ungrounded speaker wiring. For 12VDC Negative Ground Only. Illustrated Instructions and Mounting Hardware Included.



## We Make It Easy...

By including the accessories that our competitors leave out! All Radio Shack power amps include heavy-duty power cables for easy installation.

### 170-watt MOSFET amplifier for added punch

Delivers incredibly clean sound through metal-oxide silicon field-effect transistor technology. Use as an 85-watt-per-channel stereo amp or 170-watt mono amp to drive a subwoofer for thundering bass. Regulated MOSFET power supply. Mute circuit eliminates speaker-damaging "thumps" when turning power on. Bass and treble controls. High and low-level inputs. (TSP) 12-1967 ..... 149.99

### **NEW** Pump it up! 4-channel, 150-watt amplifier

Feel the music come at you from front and rear—loud and clear, without added distortion. Front/rear level controls. Power MOSFET rear-channel circuitry for high efficiency with less noise. Noise-isolated line-level and RCA-type input jacks let you connect either high or low-level signals. Integral heat sinking for cool, reliable operation. (TSP) 12-1975 ..... 119.99



### 100-watt trunk-mount MOSFET amp

50 watts per channel of awesome sound. Integral heat-sinking design for cool, reliable operation. Power supply has MOSFET circuit for high efficiency with less noise. Input gain control, remote power-on. Gold-plated, low-level RCA-type input jacks and high-level input/output screw terminals. Built-in overload and circuit protection. (TSP) 12-1971 ..... 89.99



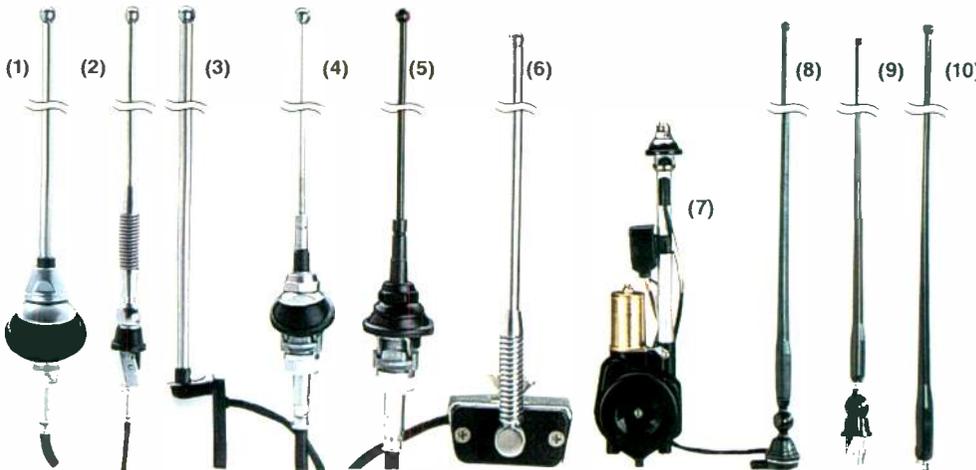
### 50-watt trunk-mount MOSFET amp

25 watts per channel—ideal for rear-speaker amplification. Integral heat-sinking design for cool, reliable operation. Power supply has MOSFET circuit for high efficiency with less noise. Gain control, remote power-on. Gold-plated, low-level RCA-type input jacks and high-level input/output screw terminals. Built-in overload and circuit protection. (TSP) 12-1970 ..... 49.99



### 40-watt under-dash booster amp

Boost the power of your car stereo at a budget price! Compact design lets you mount under dash or seat to deliver 20 watts per channel. You'll hear music at a more enjoyable level and probably hear some instruments you've missed before. Features power on/off button and LED "on" indicator, speaker-level input. Comes with hardware for easy mounting. For use only with high-power handling speakers. 1 x 4<sup>3/16</sup> x 4<sup>5/16</sup>". (TSP) 12-1869 ..... 19.99



### Universal "8-ball" antenna

(1) Top cowl/fender mount. Extends from 21 to 55", adjusts 35°. Stainless steel whip. 54" cable. 12-1306 ..... 6.99

### Stainless steel spring antenna

(2) Swivel ball mount for cowl/fender. Extends from 25 to 55". Adjusts 90°. 48" cable. 12-1307 ..... 8.79

### Pillar mount antenna

(3) Fits most Japanese cars except Honda. Extends from 19 1/2 to 51". 61" cable. 12-1320 ..... 8.49

### One-piece mini antenna

(4) For narrow fenders. 31" stainless steel whip. 54" cable. 12-1322 ..... 6.99

### Black one-piece mini antenna

(5) 12-1334 ..... 7.99

### Gutter-mount antenna

(6) Three-section whip extends to 29 1/2". 78" cable. 12-1324 ..... 7.99

### Power antenna

(7) Needs only 13" of room below mounting surface. Extends/retracts when radio or ignition are turned on or off. Extends to 39". Stainless steel. 12-1330 ..... 41.99

### Rubber ducky antenna

(8) Roof/truck/fender mount. 16" long. 50" cable. 12-1327 ..... 6.99

### Flexible universal antenna

(9) Fender or cowl mount. 15" long. 54" cable. 12-1331 ..... 6.99

### Flexible replacement whip

(10) 14" long. 12-1333 ..... 4.99



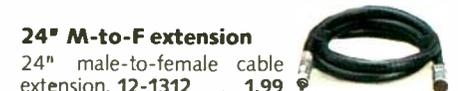
### Windshield AM/FM antenna

Transparent antenna tape attaches easily to windshield. There are no holes to drill, no difficult hardware to install. Comes with lead-in cable and fender cap. 12-1325 ..... 4.99



### 12-ft. M-to-F extension

12-ft. male-to-female extension. Built-in capacitor. 12-1311 ..... 4.99



### 24" M-to-F extension

24" male-to-female cable extension. 12-1312 ..... 1.99



### 24" M-to-M extension

24" male-to-male cable extension increases cable length. 12-1314 ..... 1.99

### 3-way connector

Couples two antennas to one radio, one antenna to two radios. 12-1313 ..... 1.99



### GM antenna adapter

For connecting to General Motors vehicles. 12-1336 ..... 2.19



**8" bandpass box speaker**

375-watt max. capacity. Features 4th-order bandpass technology, one of the hottest new trends in car audio. Its advanced design actually places the speaker completely inside the enclosure for incredibly low, chest-pounding bass. It all makes for a deep, cleaner sound produced at greater efficiency—a full 93 dB SPL at 1 watt/meter. Poly-coated 8" woofer with large 14 oz. magnet. Gold-plated terminals. Carpeted. Measures 22 x 10 x 12". 4 ohms impedance. (TSP) 12-1731, Each 149.99



**8" 2-way hatchback box**

100W max. capacity/channel. This box sounds great and takes just minutes to install. Ideal for location in hatchback, van or behind truck seat. Can easily be moved outside vehicle for beach or tailgate party. Delivers rich stereo sound with 2-way ported design. Carpeted, computer-tuned enclosure. Poly-coated 8" woofers with 10 oz. magnets, 3/4" piezo tweeters. Measures 11 x 27 x 11 1/2". 4 ohms impedance. Installation guide. (TSP) 12-1728 ..... Each 139.99



**8" 2-way truck/van system**

100W max. capacity/channel. Awesome bass! Carpeted, two-way ported enclosures for incredible sound. Setup is easy—turn up the volume and enjoy the music within minutes. Has polypropylene 8" woofer with a 10-ounce magnet. Top-firing piezo tweeter delivers crystalline highs. Sturdy metal grille. 16 x 12 x 6" each. 4 ohms. (TSP) 12-1727, System 119.99



**6 x 9" 3-way flush-mount**

100-watt RMS, 300-watt max. capacity per channel—great for high power decks and amps. Delivers full 3-way stereo sound. Ideal for rear deck and front/rear door panels. Moisture-proof polypropylene woofer and extra-large 20-oz. magnet. 3" mylar mid-range speaker. 1" polyimide tweeter. 4 ohms impedance. (TSP) 12-1719 ..... Pair 99.99



**3-way air-link surface mount**

60W RMS, 180W max. capacity per channel. Uniquely designed speakers mount on rear deck and use the trunk as each speaker's ported enclosure. Install easily in minutes. Deliver lively, full stereo sound from 6 1/2" woofer, 3" midrange speaker and 1 1/2" tweeter. Large 10.94-oz barium magnet. Protective metal grille. 4 ohms impedance. 80-20,000 Hz frequency response. (TSP) 12-1730, Pair 99.99



**Component speaker system**

50W RMS, 150W max capacity/channel. Everything you need for incredible sound from your car stereo. This system has two 6 1/2" cone woofers with 10-oz. magnets plus two 1" tweeters. Two matched crossovers distribute the sound evenly and cut noise. Combined, these high-performance components deliver home-stereo sound quality in your car. 4 ohms. (TSP) 12-1723 ..... System 99.99



**6 x 9" 3-way flush mount**

60-watt RMS, 180-watt max. capacity per channel—ideal for high-power equipment. An uncompromising blend of power-handling, efficiency and innovative design. Flush-mount for rear deck or speaker box installation. Sets up in minutes. Moisture-proof 6 x 9" polypropylene woofer plus 2 1/2" midrange and 1 1/2" piezo tweeter. Heavy 16-oz. magnet. 4 ohms. (TSP) 12-1720 ..... Pair 79.99



**4-way bass reflex car speakers**

50-watt RMS, 150-watt capacity per channel. 4-way design to give you superb, clean sound with powerful bass. Mounts quickly and easily. Each has 4" woofer with 8-oz. barium magnet, 2" midrange speaker, dual 1" tweeters. Super-efficient—gives you 95 dB SPL at 1 watt/meter. 8 ohms impedance. 5 1/16 x 11 7/16 x 6 11/16". 60-20,000 Hz frequency. (TSP) 12-1713 ..... Pair 79.99

**Sound Tune-up for a Sluggish Car Stereo**

Just bought a new car stereo but haven't noticed a big difference in sound? The problem probably isn't your stereo but may be its factory speakers. Low quality elements in some car speakers can make poor use of your stereo's best features. Radio Shack, on the other hand, can make your stereo sound better than you thought it could. We offer many quality speakers plus everything you need to make installation a snap.

**The right speaker is essential for balanced sound & easy installation.**

The diagram below shows recommended mounting locations for most vehicles. Locations may vary depending on installation and make.

Speaker Location Guide	
A	Front dash
B	Front kick panels
C	Front door panels
D	Rear door or rear seat side panels
E	Rear deck (below rear window)
F	Trunk, hatchback, cargo area or extended cab
G	Rear or side panels or rear wheel wells
H	Tailgate
I	Behind seat, cab corners or lower side wall
J	Mid-rear side panels

**Use the comparison chart below to determine which speakers have the key features you're looking for.**

Cat. No.	Capacity each speaker	Location	Mounting	Impedance
12-1727	50W RMS/100W max.	F,I	Surface	4 ohm
12-1719	100W RMS/300W max.	C,E,G,H,I,J	Flush	4 ohm
12-1730	60W RMS/180W max.	E	Surface	4 ohm
12-1723	50W RMS/150W max.	B,C,D	Flush	4 ohm
12-1720	60W RMS/180W max.	C,E,G,H,I,J	Flush	4 ohm
12-1713	50W RMS/150W max.	F,I	Surface	4 ohm
12-1722	60W RMS/180W max.	C,E,G,H,I,J	Flush	4 ohm
12-1729	30W RMS/90W max.	E,F,H,I	Surface	4 ohm
12-1721	30W RMS/90W max.	B,C,D	Flush	4 ohm
12-1716	40W RMS/120W max.	E,F,H,I	Surface	4 ohm
12-1717	30W RMS/90W max.	A,B,D	Flush	4 ohm
12-1725	30W RMS/90W max.	E,F,H,I	Surface	4 ohm
12-1714	10W RMS/30W max.	A,B,D	Flush	8 ohm
12-1724	15W RMS/45W max.	E,F,H,I	Surface	4 ohm
12-1728	50W RMS/100W max.	F,I	Surface	4 ohm
12-1731	125W RMS/375W max	F	Surface	4 ohm



### 2-way 6 x 9" flush-mount

60-watt RMS, 180-watt max. capacity per channel. Upgrade your existing car audio system and experience dramatically improved sound. You'll get 2-way performance that will remind you of home stereo speakers. 6 x 9" woofer and 2 1/4" tweeter. 15-oz. high-efficiency magnet for rich, powerful bass. Wide 60-20,000 Hz frequency response. Handsome molded grilles look great in any vehicle. 4 ohms impedance. 12-1722 . . . Pair 59.99



### 4 1/4" 3-way surface-mount

40-watt RMS, 120-watt max. capacity per channel. These 3-way surface-mount speakers sound as good as they look! Each speaker housing features 4 1/4" woofer with heavy 8-oz. barium magnet, 2 1/2" midrange, 1" tweeter. Metal screen grille. Complete with detailed instructions to make installation quick and simple. Measures 5 x 11 x 6 1/2". Ideal size and design for hatchback or utility vehicle. 4 ohms. (TSP) 12-1716, Pair 59.99

**The low-down on top and bottom mounting.**

**Top-mount**  
**Bottom-mount**

*Not all speakers fit the same for every vehicle. When depth is limited, top-mounting can often provide the extra space needed to get speakers into tight spaces. When choosing a new pair of speakers always measure the space they will occupy, then let Radio Shack help find the right speaker and mounting method for you.*



### 6 1/2" 3-way flush-mount

30-watt RMS, 90-watt max. capacity per channel. It doesn't take long to mount these 3-way speakers and it takes even less time to hear the difference they make in your stereo's sound! Great for mounting in doors, rear deck or anywhere space is limited—require less than 2" depth. 6 1/2" woofer, 2" midrange, and 1" tweeter. Wide 50-20,000 Hz frequency response. 4 ohms. 12-1721 . . . . . Pair 49.99



### 3 1/3" 3-way bass-reflex

30-watt RMS, 90-watt max. capacity per channel. Delivers full stereo sound and deep, rich bass for your car, truck or utility vehicle. Feature bass-reflex design for improved low-end response. Each has a 3 1/3" woofer with 3.5-oz. barium magnet, 2" midrange and 1 1/2" tweeter. 4 1/2 x 11 x 5 3/8". Surface-mount. Tough metal mesh grilles. Easy-installation instructions. 4 ohm impedance. 12-1725 . . . . . Pair 49.99

Get full power to your entire system!



### Easy amplifier installation kit

Premium wiring and connectors for amps up to 200W. 20-ft., 10-ga. power cable, 17-ft. line in/out cable with 4 RCA jacks, 10-ga. AGC fuse holder, 30 amp AGC fuse, firewall grommet, spade terminals. 12-1370, 29.99

### Wiring harness adapters

The easy, sure-fitting way to attach new car stereo wiring to manufacturer's wiring harness. Each 9.99



### 5 1/4" 3-way flush-mount

30-watt RMS, 90-watt max. capacity per channel. These heavyweights deliver amazing bass and 3-way stereo sound for super full-range performance! Each has a 5 1/4" woofer with super-heavy 17.72-oz. magnet, 2" midrange and a 1" tweeter. 4 ohm impedance. Complete step-by-step instruction manual for quick installation. 12-1717, Pair 49.99



### 3" 3-way bass-reflex

15-watt RMS, 45-watt max. capacity per channel. If you're budget-shopping for a pair of surface mounts, this is the system for you. Each speaker's bass-reflex enclosure gives you deeper, more extended audio response. Features 3" poly-coated woofer with high-efficiency 3.5-oz. barium magnet, 2" midrange and 1" piezo tweeter. 100-20,000 Hz frequency response. 3 3/4 x 8 1/8 x 4 1/4". 4 ohm impedance. 12-1724 . . . . . Pair 29.99



### Ground loop isolator

Helps eliminate electrical noise and hum caused by ground loops. For home or car stereo. Installs in-line between head unit or CD player and equalizer or amplifier input. 270-054 . . 11.99



### Economical 5 1/4" speakers

10-watt RMS, 30-watt max. capacity per channel. Spruce up the sound of your car audio without spending a fortune. These over-achievers will amaze you with their clean, accurate sound reproduction. Wide-range driver, 2.9-oz. magnet. Wide 80-20,000 Hz frequency response. Handsome black molded grille. 8 ohms. 12-1714 . . . . . Pair 19.99

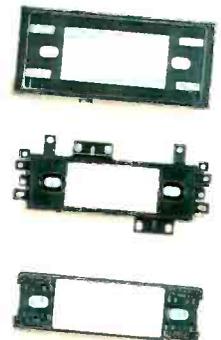


### 4" full range speakers

30-watt RMS, 90-watt max. capacity per channel. These compact flush-mount speakers deliver big, full-range stereo sound that's better than some larger models. 4" woofer with 4.2-oz. magnet. Ideal size and design for rear deck or pickup cab mounting. Protective black metal mesh grilles. Easy-to-follow instructions for quick installation. 4 ohms. 12-1729 . . . . . Pair 24.99

### Complete in-dash installation kits

GM. Fits 79 different models. 12-1384, 10.99  
 Ford. Fits 74 different models. 12-1385, 10.99  
 Universal. Fits imports. 12-1396 . . . . . 12.99  
 DIN to shaft conversion kit. Fits many vehicles from '81 and up. Installs stereos with control shafts into dashes of newer cars. 12-1386 . . . . . 7.99



**We now have installation kits & harness adapters for virtually every car!**

## Upgrade Your Car Audio

If you want to improve your car audio system, start with speakers and accessories from Radio Shack. From replacement speakers to tweeters, midranges, grilles and enclosures, we have what you need.



- (1) 5" round. 20 watts rms, 40 watts max. 9.8 oz. magnet. 40-1284 ..... 10.99
- 5" round. 10 watts rms, 20 watts max. 5.3 oz. magnet. 40-1909 ..... 8.99
- 5" round, 5 watts rms, 10 watts max. 2.8 oz. magnet. 40-1240 ..... 6.99
- (2) 5 1/4" round. 40 watts rms, 80 watts max. 10 oz. magnet. 40-1354 ..... 13.99
- 5 1/4" round. 8 watts rms, 16 watts max. 3.3 oz. magnet. 40-1241 ..... 6.99
- (3) 4" round. 10 watts rms, 20 watts max. 6.8 oz. magnet. 40-1197 ..... 10.99
- 4" round. 2 watts rms, 4 watts max. 0.53 oz. magnet. 40-1208 ..... 6.99
- (4) 3 1/2" round. 20 watts rms, 40 watts max. 5 oz. magnet. 40-1325 ..... 8.99
- 3 1/2" round. 4 watts rms, 8 watts max. 2.8 oz. magnet. 40-1333 ..... 4.99

- (5) 6 x 9" oval. 30 watts rms, 60 watts max. 10 oz. magnet. 40-1265 ..... 16.99
- 6 x 9" oval. 6 watts rms, 12 watts max. 3 oz. magnet. 40-1269 ..... 11.99
- (6) 4 x 10" oval. 30 watts rms, 60 watts max. 10 oz. magnet. 40-1297 ..... 15.99
- 4 x 10" oval. 10 watts rms, 20 watts max. 5.3 oz. magnet. 40-1243 ..... 13.99
- (7) 5 x 7" oval. 10 watts rms, 20 watts max. 2.8 oz. magnet. 40-1261 ..... 11.99
- (8) 4 x 6" oval. 10 watts rms, 20 watts max. 5.3 oz. magnet. 40-1298 ..... 7.99



### 2-way speaker crossover network

Sends lows to woofer, highs to tweeter. 100-watt capacity. Crossover: 3000 Hz. 12 dB/octave. 40-1305, 17.99

### Choke coil

Use to make your own custom crossover. High linearity. 200-watt capacity. Cutoff: 150 Hz at 4 ohms, 300 Hz at 8 ohms. 40-1326 ..... 13.99



### Selector switch

Lets you switch speakers between a separate stereo tape player and radio. Color-coded leads. 8 ohms. With mounting hardware and instructions. 270-045 .. 5.99



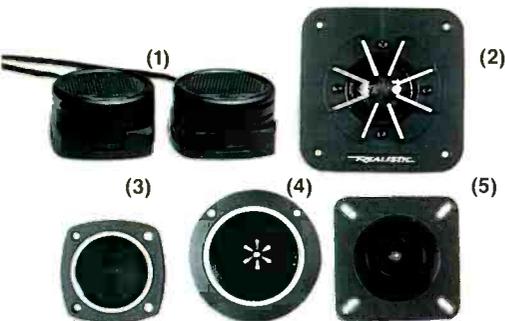
### 6 x 9" speaker enclosures

Deluxe, extra-sturdy wood boxes covered in carpet. Spring terminals for fast hookup. 8 1/4 x 12 1/4 x 7 1/2". 40-171 ..... PAIR 34.99



### 8" subwoofer enclosures

Add speakers for awesome bass! Tuned port. Spring terminals. 8 1/2 x 8 1/2 x 8 1/2". 40-175, PAIR 69.99



### Add a tweeter or midrange

- (1) 3/4" dome tweeter set. Restores high frequencies absorbed by a car's carpeted interior. Built-in crossover. 5 kHz-20 kHz. 80W rms, 160W max. 4 ohm. Includes mounting base, hardware. 40-1391, Set 29.99
- (2) 2" dynamic midrange. Smooth 1.5-10 kHz adds realism. 70 watts rms, 140 watts max. 10.8 oz. magnet. 40-1281 ..... Each 23.99
- (3) 2" piezo tweeter. No crossover needed. 75W rms, 150W max. 5-25 kHz response. 40-1383, Each 4.99
- (4) 3 3/4" piezo tweeter. No crossover needed. 75W rms, 150W max. 4 kHz-25 kHz. 40-1397, Each 9.99
- (5) 2 1/2" horn tweeter. 6-16 kHz response. 50W rms, 100W max. 40-1278 ..... Each 13.99



### Polypropylene-cone woofers and dual-voice-coil subwoofers

- (6) 12" subwoofer. 120 watts rms, 240 watts max. 19 oz. magnet. 40-1350 ..... 61.99
- (7) 8" subwoofer. 100 watts rms, 200 watts max. 18 oz. magnet. 40-1348 ..... 41.99
- (8) 10" woofer. 50 watts rms, 100 watts max. 12 oz. magnet. 40-1014 ..... 37.99
- (9) 12" woofer. 50 watts rms, 100 watts max. 19 oz. magnet. 40-1026 ..... 53.99
- (10) 8" woofer. 35 watts rms, 70 watts max. 10 oz. magnet. 40-1024 ..... 33.99



### Custom speaker grilles

- 5 1/4" round. Wire mesh grille. 40-1336 ..... 4.99
- 6 x 9". All-steel grille. 40-1175 ..... 3.69
- 8" round. All-steel grille. 40-1345 ..... 7.99
- 10" round. All-steel grille. 40-1357 ..... 8.99
- 12" round. All-steel grille. 40-1346 ..... 10.99
- 15" round. All-steel grille. 40-1358 ..... 16.99

### Molded speaker grilles

- 4" or 5" round. Door mount. 40-1321 ..... 3.29
- 6 x 9". Rear-deck mount. 40-1322 ..... 5.99



- (1) Universal 12VDC fused, coiled cord. Tangle-resistant. Four coax-style plugs fit a variety of 12VDC devices. Replaceable 2-amp fuse. 270-1528 ..... 10.49
- Heavy-duty 12VDC fused cord. 6-ft. 3-amp fuse. Coax plug 270-1534 ..... 5.99
- Ten-foot 12VDC extension cord. Rated 6 amps. 270-1536 ... 5.99
- (2) Modular two-outlet 12VDC adapter. Rated 8 amps, total. 270-1525 ..... 6.99
- Two-outlet 12VDC Y-adapter. Power two 12VDC devices from one lighter outlet. Rated 8 amps, total. 270-1535 ..... 5.99
- (3) Standard 12VDC fused cord. 8-ft. 2-amp fuse. Coax plug. 270-1533 ..... 3.99
- (4) 12VDC lighter plug. With 8-ft. cord. 270-021 ..... 3.49
- Heavy-duty 12VDC power plug. Plugs into vehicle lighter socket. Accepts standard 1/4 x 1/4" -diameter glass fuse up to 7.5 amps. 274-335 ..... 2.29
- 12VDC lighter plug. Fits standard lighter socket. Rated 6 amps. 274-331 ..... 1.69
- (5) 12VDC accessory outlet. Mounts under dash or in camper for powering 12VDC devices such as car phone or radar detector. 270-1539 ..... 5.99
- (6) Auto electrical system tester. Just plug into lighter socket. Color-coded LEDs help you spot battery and charging system problems before you're stranded. Use as part of your regular car maintenance. For use in all 12VDC negative ground vehicles. 22-1635 ..... 5.99
- (7) 12VDC cord with battery clips. Attach directly to 12-volt battery to power 12VDC devices such as vacuum cleaners and safety lights that have a lighter-style plug. 270-1527 ..... 5.99
- (8) Triple 12VDC accessory outlet. Rated 15 amps, total. 270-1544 ..... 9.99
- (9) Control shaft nuts and washers. 6 each. For Hong Kong car stereos. 270-028 ..... 1.29
- (10) Universal mounting bracket set. Three pairs of brackets, support strap. 270-023 ..... 3.79
- (11) Glass fuse kit. Set of 10 commonly needed ratings. 270-1262 ..... 1.99
- (12) "Blade" fuse kit. Set of 5 commonly needed ratings. 270-1201 ..... 1.99
- Mini blade fuse kit. Set includes 8 fuses and fuse puller. 270-1203 ..... 2.99
- (13) Fuse tool. Install/remove glass/plastic fuses without damaging them. 270-1199 ..... 99c
- Auto sound knobs. Fit "D" and split shafts. Sets include two inner and two outer knobs.
- (14) Matte-black. 274-425 ..... Set 1.99
- (15) Chromed. 274-427 ..... Set 3.19
- (16) Inline fuse holder for glass fuse. Rated for fuse up to 20 amps. 270-1211 ..... 1.19
- (17) 4-conductor accessory cable. 12" long. With polarized plug and jack. Useful for connecting trailer lights and other accessories. 270-027 ..... 2.19
- (18) Inline "blade" fuse holder. For fuse up to 30 amps. 270-1213 ..... 1.99
- (19) 5-pin car stereo plug. 12" leads. Fits Realistic®/Optimus® car stereos. 270-041 ..... 2.49
- (20) 18-ft. car stereo cable assembly. Includes prewired 5-pin plug, fuse holder and 18-ft. leads for two speakers. 270-014, 5.49
- (21) Universal car stereo plug. Fits 4- or 5-pin sockets. 12" leads. Inline fuse holder. 270-017 ..... 2.49
- (22) 5-pin inline car stereo socket. 7" leads. 274-1215 ... 1.59
- (23) 2-conductor accessory cable. 12" long. Polarized plug and jack. 270-026 ..... 1.19
- (24) 4-ft. fused DC cable set. Prewired with polarized plug and jack. 270-025 ..... 2.19
- (25) 14-pin car stereo harness. Replacement harness for recent Radio Shack and Optimus car stereos. 12-1387 ..... 7.99

## Stop the Static

**Question:** What causes car stereo interference?



**Answer:** Interference can come from many sources. The alternator, ignition, improper grounding, even wires located close to your stereo can cause problems. Our sales associates can help you determine the probable source of noise and recommend a solution.

Radio Shack also stocks a wide assortment of adapters, cables, wiring harnesses, in-dash kits, mounting hardware, and switches.

### 10-amp noise filter



Reduces noise and interference entering through the 12VDC power lead. Easy hookup. 270-051 ..... 13.99

### Noise eliminator kit



Includes filter choke, capacitor and instructions. 270-030 ..... 3.99

### 20-amp noise filter



Heavy-duty design for extra suppression of alternator and ignition noise. 270-055 ..... 18.99

### 3-way noise filter



Reduces noise entering through main power, clock display or memory power leads. 10 amps. 270-056 ..... 21.99

### Resistive noise filter



Plugs inline at distributor cap to suppress auto ignition noise. 270-012 ..... 2.29

### Feedthrough filter capacitor



Helps cut noise from ignition system, fan motor or DC generator. Simple to install. Capacitor is rated 0.5µF, 40 amps, 60WVDC. 272-1085 ... 6.49

### 12-volt DC switches

Control lights and accessories in car, boat or motor home. Designed to handle high current.



Lighted rocker switch panel. SPST. 20amps at 12VDC. 275-704 ..... 4.49



Dual lighted flip switch panel. Switches rated 20A each. 275-702 ..... 3.19



Lighted flip switch. Rated 20 amps. 275-706 ..... 2.59



SPST flip switch. Rated 16 amps. 275-701 ..... 1.99



Heavy-duty flip switch. Rated 25 amps. 275-708 ..... 1.99



DPDT flip switch. Center off position. 20 amps. 275-710 ..... 2.39



DPDT momentary flip switch. Spring return to center off position. 20 amps. 275-709 ..... 2.79

Automotive lighting relay. SPST contacts rated 30 amps. 12VDC, 66-ohm, 160 mA coil. 275-226 ..... 5.99

# Radio Shack radar and laser detectors.

(1)



**NEW** Front/rear laser detection plus "ghost" coverage of X, K & super-wide Ka

(1) This detector covers the entire arsenal of speed-monitoring devices. In addition to detecting X, K and super-wide Ka bands, it alerts you of laser signals aimed at both the front and rear of your car. Advanced false-signal rejection distinguishes true police radar from other optical and EMF sources. Features the latest "ghost" technology to let your detector operate unnoticed by new detector-finding devices. 22-1653 ..... 269.99

**NEW** Laser detector with remote rear laser unit plus X, K and super-wide Ka

(2) Get the most for your money. This compact model detects X, K and the entire Ka band of police radar, plus complete front and rear laser coverage. A remote unit (not shown) mounts to windshield for optimum detection of speed-monitoring laser fired at the rear of your car. Separate alerts for each band and for instant on/pulsed radar and laser. With visor mount and hook and loop fastener. Available Nov. 1, 1994 22-1655 ..... 199.99

(2)



**NEW** Laser, X, K and super-wide Ka detector

This high-performance compact covers all electronic speed detection methods including laser and the entire Ka band of police radar. Has separate tone and light alerts for laser, X, K, Ka. Digital signal processor to reduce annoying false signals. Rotary volume control, dark mode, mute and 4-LED strength meter. Includes visor clip, cigarette-lighter cord and hook and loop fasteners to let you choose your own mounting method. 22-1654 ..... 149.99



**NEW** 3-band radar detector with super-wide Ka

Ultra-compact radar detector. Covers all police radar systems including entire Ka bandwidth. Provides separate audio alerts for X, K, and Ka bands. FAST®—False Alert Suppression Technology—helps to reduce false radar alerts. City/highway select, rotary volume control, dark mode, mute and 4-LED strength meter. Comes complete with visor clip, power cord, hook and loop fastening tape, spare fuse and retaining clip. 22-1648 ..... 99.99

Feature Comparison Chart

Cat. No.	Description	Band	Audible Alert	Visible Alert	Anti-false	Signal	C/Hwy	Mute	Dark	DSP	Laser	Memory
22-1648	X, K, KaSW Radar	3	3	—	X	4	X	X	X	—	—	—
22-1654	X, K, KaSW Laser	4	4	4	X	4	X	X	X	X	X	—
22-1653	X, K, KaSW + F/R-L Ghost	4	5	5	Advanced	Digital	2	X	2	X	F/R	X
22-1655	X, K, KaSW + F/R Laser	4	4	4	X	X	X	X	X	—	F/R	—

## Complete selection of radar/laser detector accessories

**DC-Y adapter**

Lets you power radar detector and separate laser detector or any two 12-volt DC devices. 270-1535, 5.99



**Coiled power cord**

Includes 4 plug adapters to fit almost any radar detector or 12-volt DC TV. Has 2-amp fuse. 270-1528, 10.49



**2-outlet adapter**

Convenient adapter runs two detectors or other 12-volt DC operated devices from one cigarette lighter socket. 270-1525 ..... 6.99



**Bracket**

Our best adjustable radar or laser detector bracket. 270-038, 14.99

**Universal clip**

Stainless steel. Use for mounting on visor or as belt clip. 270-033 ... 3.99

**Detector power cord**

For replacement of lost or worn radar/laser detector cords with 2.1mm plug. 6 ft. length, coiled. 270-032, 6.99



**Detector power cord**

For replacement of lost or worn radar/laser detector cords with 1.3mm plug. 6 ft. length, coiled. 270-031, 6.99



**Suction-cup mount**

For mounting radar or laser detector on any car windshield. Suction-cup attachment. 270-034, 7.99



**Adjustable bracket**

Mounts radar or laser detector anywhere on car windshield using suction-cup design. Adjustable. 270-037 ... 9.99

Radar detectors not offered where prohibited by law/use may be regulated by state or local laws.

## Talking car alarm adds extra security

Effective high-tech alarm installs in ten minutes or less with simple one-wire connection to battery. Tapping or light shock triggers loud warning from a male voice. Hit one-button panic on remote to set off a woman's voice calling for help and a 127-dB siren. Car finder. Easy-to-program sensitivity. Two key-chain remotes. 49-730 ..... 99.99



## Alarm with starter disable and pager

Complete security with some of the most advanced features available. Upon activation, alarm automatically disables starter, making theft virtually impossible. Includes pager to alert owner of break-in. Omnidirectional motion sensor activates alarm before thief gains entry. Blinking LED light inside car acts as a visible deterrent to thieves. Alarm override for valet parking service. 2 key-chain remotes. 49-722 ..... 199.99

## NEW Alarm with blinking LED light

Remote lets you arm, disarm and trigger the siren up to 20 ft. away. Automatic arming with entry and exit delays. Super-loud siren responds to motion or opening of doors, trunk or hood. Valet switch. Blinking light to deter thieves. 49-720 ..... 69.99



## NEW Alarm with LED and 2 remotes

Excellent value! Features 2 extended range remotes. Automatic arming with entry and exit delays. Separate sensors to detect motion from tampering and electrical current from open door or trunk lights. Valet override. High-power siren (104 dB at 10 ft.). 49-771 .. 79.99



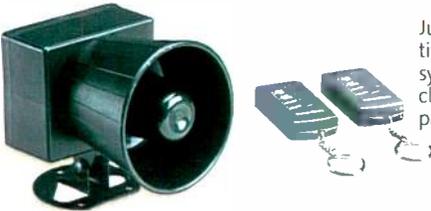
## NEW Alarm with starter disable

Starter disable prevents engine from starting until you disarm with remote. Remote has arm and disarm functions. System is triggered by motion or opening of trunk, door or hood. Override switch for valet parking. Automatic arming with entry and exit delays. 2 keychain remotes. 49-721 ..... 89.99



## NEW One-wire easy-install car alarm

Just mount the siren, connect one wire, set the sensitivity level you desire and your high-tech auto-alarm system is ready for use—all in 10 minutes or less. Includes 2 keychain remotes, each featuring arm, disarm, panic and locator buttons. Loud 127-dB siren. 49-731 ..... 69.99



## Safety Back-Up Alert® light and alarm

Even careful drivers can't avoid what they can't see. Back-Up Alert lets you warn others with a flashing light and "beep-beep" whenever your car is in reverse. Installation is as easy as changing a light bulb. #1156 style bulb, 272-1525 ..... 21.99 #3156 style bulb, 272-1526 ..... 21.99



## Extra-loud 2-sound alarm siren

Mounts easily under hood. Requires 12VDC at 500 milliamps. 49-488, 19.99

## Electronic shock/motion sensor

Quick response, extremely low current drain. Includes instructions, easy installation. 49-630 ..... 12.99



## Short pin switches

Triggers alarm when switched. For limited space. Solderless lug terminals for safe, simple installation. 49-508 .. Pkg. of 2/2.99



## Long pin switches

Easy and effective way to add extra protection to your car alarm system. Crimp-style connector. 49-509 .. Pkg. of 2/2.99



## Window switch

Ideal for sliding truck windows or for use with garage or home doors and windows. Very effective. 49-533 ..... 5.99



## Window decals

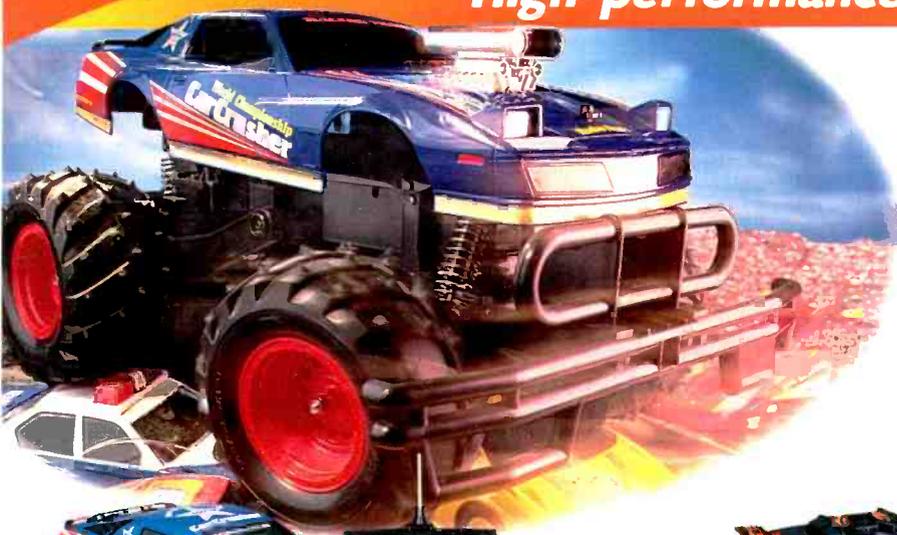
A clever way to deter theft without spending a lot of money. For use with car, garage, home, anywhere. 49-507 .. Pkg. of 4/1.29



Cat. No.	Current Sense	Motion Sense	Keychain Remotes	Remote Range	Passive Arm	Passive Disarm	Panic	Lec	Remote Codes	Car Locator	S.Kill	Valet	Pager
49-731	X	X	2	Extended	--	--	1 but	--	2,100	X	--	--	--
49-771	X	X	2	Extended	X	X	2 but	2 color	59,000	X	--	X	--
49-720	X	X	2	50 ft.	X	--	2 sec	X	59,000	X	--	X	--
49-721	X	X	2	50 ft.	X	--	2 sec	X	59,000	X	X	X	--
49-730	X	X	2	Extended	--	--	1 but	--	2,100	X	--	--	--
49-722	X	X	2	50 ft.	X	--	2 sec	X	59,000	X	X	X	X

# Radio-Controlled Action and Fun

We're America's leading retailer of RC vehicles. From rugged-terrain 4-wheelers to sleek, speedy racers, we offer you a fabulous selection in every price range. All are designed for performance and durability. Different control frequencies on some models let you compete against others.



**NEW Car Crusher/ Rock Runner**

(1) Two cars in one! Switch cabs for a whole new look. With big oversized wheels and rugged design to handle the roughest terrain. Spring sus-

pension really absorbs bumps. With this off-roader, you can tackle rocky hills with 30° inclines. Cruise along at 710 feet per minute—control from up to 197' away. 17 1/10" long. 27MHz. Requires 7.2V pack and 6 "AA" batteries. 60-4133, 149.99



**NEW Desert Viper**

(2) This is one big and powerful racer! Designed for speed on any terrain. 19 1/4" long! Speeds along straightaways at a blazing 1475 feet per minute. With 4-

wheel drive action, you can take on steep hills—conquers up to 40-degree inclines! Cruise smoothly over rocky terrain, spring suspension absorbs all the bumps. 27MHz power. Control box works even from nearly 200 feet away! Requires 7.2V pack and 10 "AA" batteries. 60-4132 ..... 149.99



**NEW Two-channel Tsauo Z**

(3) Digital-proportional, front and rear suspension. 16 1/2" long. Requires 7.2V pack and 10 "AA" batteries. 60-4131 ..... 119.99



**NEW Black Wolf II**

(4) Digital-proportional steering. Shock absorbers. 16 1/4" long. 27MHz. Requires 7.2V pack and 10 "AA" batteries. 60-4130, 79.99



**NEW Blue Shark**

(5) Spring suspension absorbs bumps. 2-wheel drive, 27MHz power, 15 1/4" long. Conquers 45 degree inclines. Requires 9.6V pack and 6 "AA" batteries. 60-4129 ..... 69.99



**Off-Road Tiger**

(6) It has two gears—low for climbing, high for super speed on straightaways. 13" long. 27MHz and 49MHz. Requires 2 9V and 4 "C" batteries. 60-4113 ..... 59.99

**Power charge your RC car**



**AC/DC fast charger**

Use 120V house current or 12VDC car or truck battery to charge 7.2 or 8.4-volt RC Ni-Cd battery pack. Recharges in 30 minutes or less. With quick-connect terminal clips. 23-235 ..... 69.99



**DC fast charger**

Connect to a 12VDC car or truck battery to recharge. Fully recharges a 7.2V Ni-Cd pack in just 20 minutes! 23-232 ..... 29.99



**Ni-Cd battery packs and chargers**

7.2V battery pack. 23-230 ..... 19.99  
 Charger. For 7.2V pack. 23-241 ..... 9.99  
 9.6V battery pack. 23-229 ..... 19.99  
 Charger. For 9.6V pack. 23-240 ..... 9.99  
 4.8V battery pack. 23-245 ..... 10.99  
 Charger. For 4.8V pack. 23-244 ..... 4.99



**NEW** Hot Machine

(7) Heat up the action and the road with this turbo-powered machine. With 7-function remote. Requires 2 9V and 8 "AA" batteries. 60-4127 ..... 59.99



**NEW** Flying Arrow

(8) High/low gear, spring suspension and turbo for an extra boost of power. Super-sleek design. 7-function remote. Requires 9V and 8 "AA" batteries. 60-4128 ..... 59.99



**NEW** Flame Thrower

(9) You'll burn up the road—4-wheel spring suspension smooths out the bumps on rough terrain. High and low speeds. Requires 9V and 8 "AA" batteries. 60-4138 ..... 49.99



**NEW** Javelin

(10) Flies down the road, with spring suspension. 13" long. Requires 9V and 8 "AA" batteries. 60-4126 ..... 49.99



**NEW** Sound Bat II

(11) Pierce the air—turbo feature gives an extra boost of speed. Requires 9V and 8 "AA" batteries. 60-4137 ..... 39.99



**NEW** Razer

(12) Spring suspension absorbs bumps. High and low gears. 27or 49MHz. 12" long. Requires 9V and 6 "AA" batteries. 60-4134 ..... 39.99



**NEW** Range Buster

(13) Tame the toughest terrain with this rugged off-roader! Requires 9V and 8 "AA" batteries. 60-4136 ..... 34.99



**NEW** Sneaker II

(14) Sneak past other racers! With extra-traction rear tires. Requires 9V and 8 "AA" batteries. 60-4135 ..... 29.99



**NEW** Wild Runner

(15) It's a wild thing! With clutch steering and oversized tires. Requires 9V and 6 "AA" batteries. 60-4122 ..... 17.99



**NEW** Road Pounder

(16) This baby makes the competition tremble. Requires 9V and 6 "AA" batteries. 60-4124 ..... 27.99



**Force I Rally**

(17) Super off-roader! 27MHz power. 13" long. Requires 9V and 6 "AA" batteries. 60-4108 ..... 19.99



**NEW** Silver Racer

(18) A sleek speedster. 7-function remote. Spring suspension and turbo feature. Requires 9V and 8 "AA" batteries. 60-4125 ..... 29.99



**NEW** Champ Racer

(19) Small but powerful. Only 6<sup>5</sup>/<sub>8</sub>" long. Climbs 23 degree inclines. 49MHz. Requires 9V and 4 "AA" batteries. 60-4119 ..... 11.99



**Police Car**

(20) You'll be in hot pursuit, with a siren and lights! Requires 2 9V and 4 "AA" batteries. 60-4120 ..... 14.99

Fig.	Cat. No.	Frequency (MHz)	Remote Functions	Length (Inches)	Scale Speed	Speed (MPH)	Battery Requirements
1	60-4133	27	digital proportional	17 <sup>1</sup> / <sub>10</sub>	80	4.4	7.2V pack, 6 "AA"
2	60-4132	27	digital proportional	19 <sup>1</sup> / <sub>4</sub>	106	13.3	7.2V pack, 10 "AA"
3	60-4131	27	digital proportional	16 <sup>1</sup> / <sub>2</sub>	159	15.9	7.2V pack, 10 "AA"
4	60-4130	27/49	7	16 <sup>1</sup> / <sub>4</sub>	160	15.8	7.2V pack, 10 "AA"
5	60-4129	27	digital proportional	15 <sup>1</sup> / <sub>4</sub>	168	12	9.6V pack, 6 "AA"
6	60-4113	27/49	7	13	52.8	4.4	2 9V, 4 "C"
7	60-4127	27/49	7	13	105	7.5	2 9V, 8 "AA"
8	60-4128	27/49	7	16	132	11.6	9V, 8 "AA"
9	60-4138	27/49	7	14	133	10.2	9V, 8 "AA"
10	60-4126	27/49	7	13	132	8.8	9V, 8 "AA"
11	60-4137	27/49	7	13	123	10.2	9V, 8 "AA"
12	60-4134	27/49	7	13 <sup>1</sup> / <sub>2</sub>	81	5.8	9V, 6 "AA"
13	60-4136	27/49	7	12 <sup>1</sup> / <sub>2</sub>	57	4.1	9V, 8 "AA"
14	60-4135	27/49	7	11	109	6.8	9V, 8 "AA"
15	60-4122	27	2	8 <sup>1</sup> / <sub>4</sub>	68	3.4	9V, 6 "AA"
16	60-4124	27/49	7	9	82	4.1	9V, 6 "AA"
17	60-4108	27	3	13	40	2.5	9V, 6 "AA"
18	60-4125	27/49	7	11 <sup>1</sup> / <sub>2</sub>	113	7.5	9V, 8 "AA"
19	60-4119	49	2	6 <sup>1</sup> / <sub>2</sub>	40	3.4	9V, 4 "AA"
20	60-4120	27	3	9 <sup>1</sup> / <sub>2</sub>	61	3.4	2 9V, 4 "AA"

# Science Fair®

Ever wonder how you can hear music on your radio from a station 20 miles away? Have you ever had questions about metal-detecting, burglar alarms or lie-detectors? Radio Shack has kits and labs that let you create your own working models of the things you have questions about—and some stuff you haven't even thought of. You'll see that building projects that really work makes science fun and easy to learn.



**NEW 60-in-1 explore electronics lab**

This kit provides the opportunity to discover electronics the fun way! Now you can build your own transistor radio, wireless microphone, sleeping aid, Morse code circuit, lie-detector and 55 other fun projects. Completely safe, requires no soldering or wiring and has no exposed parts or mechanical connections. Comes with easy-to-follow lab manual to guide you through your projects. All ages. Requires 2 "AA" batteries. Available Oct. 30, 1994. **28-147** ..... **39.99**



**300-project lab**

Learn about transistors, capacitors and electronic circuits. Build electronic games, battery checker and a whole lot more. It even includes a breadboard for adding your own components. Complete with manual. Requires 6 "AA" batteries. (TSP) **28-270** ..... **59.99**



**200-in-1 lab**

Kit has sleek "out-board" control panel with analog meter. Integrated circuits for teaching computer basics. Burglar alarm and 199 other projects. Requires 6 "AA" batteries. **28-265** ..... **49.99**



**130-project lab**

Build your own AM broadcast station, electronic organ, timer and more. Premounted parts, pre-cut wires and simple coil-spring connectors for safety. Requires 6 "AA" batteries. **28-259** ..... **29.99**



**75-project lab**

No special tools or soldering required. Start with simple circuits and work toward more complex ones. Projects include strobe light, touch switch, metronome, sound-level meter and much more. Easy-to-follow manual. Requires 4 "AA" batteries. **28-267** ..... **24.99**



**60-in-1 electronic lab**

Provides the tools needed to learn the fundamentals of electronics. Teaches the basics of electricity, physics and electronics. Build a radio, metal detector, or other fun projects. With earphone. Solderless. Requires 4 "AA" batteries. **28-261** ..... **19.99**



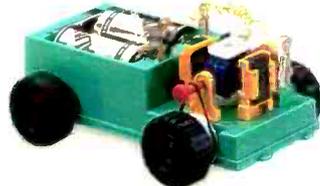
**30-in-1 electronic lab**

Safe and easy! This simple electronics kit safely teaches the basics of electronics—no soldering is required. Build a radio, alarm, timer and more. Earphone for private listening. Uses safe battery power. Requires 4 "AA" batteries. **28-161** ..... **14.99**



**Experiment kit**

Take the hands-on approach to learning about electricity and electromagnetism. Build an electric bell, motor and generator to use in experiments. Requires 2 "AA" batteries. **28-145** ..... **24.99**



**Electric car kit**

Experiment with electromagnetism and build a toy car that runs on its own electric power. Provides hours of fun. Complete instructions included. Requires 2 "D" batteries. **28-143** ..... **8.99**



**Water analyzer**

Water analyzing test can tell if you have acid rain. Chemical analysis kit also includes various tests for PH, calcium, iron, Vitamin C and sodium levels. Safe. **28-142** ..... **7.99**



**Electric swing**

Have fun while you learn! Assemble this kit's easy-to-build electromagnetic motor, then see how magnetic attraction and repulsion can keep a swing in constant motion. Requires 2 "AA" batteries. **28-144**, **6.99**



**Solderless AM/FM kit**

Follow easy directions to make a working AM/FM radio. Features preassembled FM tuner and coil-spring connectors for easy and quick assembly. Great for beginners. Requires 9V battery. 28-175 ..... 12.99



**Solderless AM/VHF kit**

The beginning hobbyist will enjoy this do-it-yourself AM/VHF radio. Hear AM stations plus air, police, weather VHF band 108-174 MHz. With earphone for private listening. Requires 9V battery. 28-163 ..... 12.99



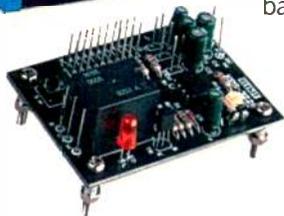
**Solderless AM/shortwave kit**

Listen to distant shortwave and local AM stations on a kit you build! Quick coil-spring assembly. Earphone and manual. Requires 9V battery. 28-176 ..... 12.99



**Crystal AM radio kit**

Tunes local AM stations. Plays forever without batteries or AC power. How does it work? Build it and find out! With earphone. 28-177 ..... 6.99



**Electronic timer kit**

This fun-to-build kit includes PC board, instructions and all parts needed to build a compact single-event timer module. Includes on-board relay that can switch an external device such as a lamp or buzzer, making it ideal for realistic model-building. Wiring options allow timing lengths from 1 to 1000 seconds. Requires 4.5-6VDC. Soldering required. 28-4032 ..... 19.99



**Crank it! 1-watt amplifier kit**

Kit includes PC board, instruction and all parts needed to build a 1-watt audio amplifier module. Ideal for projects. You can use it to boost the output from a line-level audio jack, a headphone jack, a microphone, even a crystal radio. (Two modules required for stereo). A wiring option lets you select 26 dB or 46 db total gain. Requires 4 to 28VDC power. Soldering required. 28-4031 ..... 9.99



**FM wireless mike kit**

Everything you need to build an FM wireless microphone module. Once completed, this module will transmit sounds to any nearby FM radio—without wires. Use it to monitor sounds from another room, as an intercom or mini "radio station". The mike is tunable from 80 to 106 MHz. It requires an "N"-type 1.5-volt battery which provides about 40 hrs. operation. Soldering required. 28-4030 .. 9.99

Make your video games even better!



**Fighter-style joystick**

Get precision joystick action for Sega®, Commodore®, Amstrad®, MSX® and Atari® video games. Contour grip for comfort and maximum control. Two sure-fire buttons. 60-5806 .. 14.99



**Controller for Super-Nintendo®**

Demand more from your controller! Features 8-direction thumb-control pad, 6 fire buttons with independent turbo-control, start and select. Handsfree auto-fire. Long 6-foot cable 7-pin connector. 60-5807 ..... 14.99



**Controller for Sega Genesis®**

Features sleek-design and comfortable contour grip, 6 turbo-firing buttons, start/select and 8-direction thumb-control pad. Long 8-foot cable to give you more mobility. 9-pin connector. 60-5808 ..... 14.99



**Game Boy® pack**

Game Pack rechargeable Ni-Cd battery and charger. Save money on batteries. Snap Game Pack battery into Game Boy battery compartment for up to 10 hours of play. 60-701 ..... 19.99

**AC-to-AC adapters**

Replaces lost or broken AC adapters for Sega Genesis, Nintendo or Super-Nintendo. Adds AC power to Game Boy.

For Sega Genesis. 273-1612 ..... 15.99  
 For Nintendo. 273-1611 ..... 15.99  
 For Game Boy. 273-1660 ..... 7.99  
**NEW!** For Super-NES. 273-1613 ..... 15.99



**Selector switches**

Switch easily between video games and TV. 300-ohm TV switch.

15-1255 ..... 4.49  
 300/75-ohm antenna input switch. 15-1269 ..... 4.49  
 300/75-ohm splitter switch. 15-1268, 6.49  
 Automatic TV/game switch. 15-1267, 8.99

**Car adapters**

Uses the car's DC power for video games. Many popular video games.

270-1504 ..... 19.99  
 Nintendo and Super-NES. 270-1505, 15.99  
 Game Boy. 270-1506 ..... 9.99



**Upgrader for Game Boy**

Tired of squinted eyes and tired hands from playing Game Boy? Take advantage of BIG improvements when you

customize your Game Boy for easier, more accurate play. Magnifier "zooms in" screen for better viewing. Features stereo for awesome sound effects, and larger thumb controls for accurate, comfortable maneuvering. Handy storage compartment for game cartridges. 60-5805 ..... 29.99



**NEW Security Wand Body scanner/ metal detector delivers true professional quality**

Ideal for security use in public buildings, court-rooms, schools, nightclubs, etc. Made in the USA, this handheld body scanner is rugged and easy

to use. No tuning or critical positioning is required. At maximum sensitivity, it can detect either concealed weapons or smaller items like coins or hat pins. It responds to all kinds of metal with an audio alert and lighted LED indicator. A jack lets you add an earphone and silence the audio alert. "Desense" button cuts sensitivity for scanning a subject's ankle area on floors that contain steel reinforcement. 3 x 16 x 1 3/8". Requires 9V alkaline or rechargeable battery. (TSP) 63-3010 ..... 99.99

**Our best metal detector can spot coins up to 8" underground**

(1) Locate coins and metal objects. High-performance Discovery 2 can indicate large metal objects buried up to five feet deep. Its search coil is waterproof, submersible in fresh or salt water. Features a meter to indicate approximate depth of coin-sized objects, speaker and a 1/4" jack for adding headphones. (A headset saves batteries and makes it easier to hear subtle responses.) Controls let you minimize response to items like pull tabs, while boosting indications to potentially valuable objects. Low-battery indicator. Adjustable shaft with arm rest. Requires 2 9V batteries. (TSP) 63-3004, 199.99

**VLF discriminator-type metal detector really knows its stuff**

(2) Very low frequency design and discriminator circuit help to distinguish between ferrous metals (iron or steel) and non-ferrous metals such as gold and silver. Waterproof search coil. Has speaker, meter, 1/4" jack to add headphones. Adjustable shaft length. Requires 3 9V batteries. (TSP) 63-3003 ..... 99.99

**This affordable detector will get you started in a fascinating hobby**

(3) You're sure to find fun! Separate peak and ferrous/non-ferrous controls boost response on different types of metals. Has meter, speaker and 1/8" jack for adding an earphone. Adjustable shaft length. Requires 6 "AA" batteries. (TSP) 63-3001 ..... 39.99

**Discriminator metal detector with auto-tune and battery-test**

(4) Auto-tune button simplifies tuning and a switch lets you check battery condition using the meter. This detector has a discriminator control, speaker, and 1/4" jack for adding headphones. Adjustable shaft length. Requires 6 "AA" batteries. (TSP) 63-3002, 59.99



Don't forget batteries! Radio Shack sells millions every week—they're the freshest you can buy.



**NEW Mega Chess blends power and style with advanced play options**

This elegant, table-top chess computer boasts a strong and flexible program that's bound to appeal to the keen chess player. Its big, clear custom LCD screen lets you quickly view special status reports, including an evaluation of your play and the search depth of the computer. You get 64 different levels of play to choose from, including Blitz and Tournament. Choose the way you want the computer to respond—you can limit its options with Selective Search or let it play Brute Force, examining every possible option. A library of opening moves lets you face off against a variety of grand-master styles of play. Lets you take back and replay up to 30 moves. Automatically powers down with a long-term memory to save battery life. Requires 6 "C" batteries or AC adapter. (TSP) 60-2441 ..... 99.99



# Check Mate!

*The Ultimate Mind Game—  
For Beginners or Experts  
Enjoy the classic game of strategy with an electronic partner that teaches and challenges you every step of the way. There's one just right for any age or skill level.*



**NEW Chess Partner—a stylish game with a sensory chessboard**

A top-quality electronic chess game that's fit for a king! Enjoy chess competition on any level with this attractive table-top chess computer. A big, clear, custom LCD screen gives you a wealth of information, including the level of play. There are 16 different skill-playing-levels—including fun and puzzle levels to help you advance at your own pace. The Set-Up function lets you arrange the playing pieces any way you wish, so you can practice escaping difficult situations. And you always have the option of taking back up to six moves. The 8" sensory keyboard with 2" tall pieces are set in a stylish cabinet—it's attractive enough to keep on permanent display. Requires 4 "AA" batteries or AC adapter. (TSP) 60-2428 ..... 69.99



**Chess Champion—the game advanced enough for masters**

Ideal for any chess lover, from the beginner to the most accomplished. The powerful 32K program provides 64 levels of play—16 difficulty levels for standard play, 37 time-controlled play levels (including several that simulate various levels of tournament play), and 11 analysis play levels that let you learn from the computer's solutions to special chess problems. Pause feature lets you turn off the computer and continue the game later—with fresh alkaline batteries, it remembers information for up to two years! Opening-Book Memory lets the computer respond more rapidly during the opening moves. A Help function lets you ask the computer to suggest your next move, plus you can take back and replay up to 50 moves. A special Auto-Play setting lets you learn by watching the computer play against itself. Markers let you mark crucial points in the game so you can take another look later. LCD board display. Endorsed by chess champion Garry Kasparov. Requires 6 "C" batteries or AC adapter. (TSP) 60-2254 ..... 159.99



**Portable Chess—a challenging companion for players on the go**

Take it anywhere—a folding case makes it easy to carry to work, to school, or on trips. Features 16 levels of play. Position Verification lets you determine the position of the pieces in case the board is disturbed. Pause feature lets you turn off the computer and continue the game later—it's perfect for commuters. You can take back moves and try a new approach, or even ask the computer to help suggest your next move. Endorsed by chess champion Garry Kasparov. Requires 3 "AA" batteries. (TSP) 60-2252 ..... 49.99



**NEW Companion Chess: inexpensive chess fun, loaded with features!**

A total of 64 playing levels lets you adjust the computer's strength to match your skill and style, as well as letting you progress as you learn. If you change your mind about a move, you can always take it back. The 8" sensory chessboard records all your moves, and a watch-size LCD screen lets you keep track of the game. The built-in memory can record a game in progress for up to two years. And to save on battery wear, the game will automatically shut off the power if left unattended. Requires 2 "AA" batteries or AC adapter. (TSP) 60-2439 ..... 39.99

Prices apply at participating Radio Shack stores and dealers.



**NEW Exciting two-player tabletop slot machine**

Can you beat the one-armed bandit? Grab a roll of coins and find out against our best slot machine for exciting casino action! It's like playing the slots at Vegas without the expense (or the lounge singers). Play alone or with a friend, it keeps score automatically either way and plays a melody when you win. Choose your bet, then win on any of five lines. Authentic spinning sound for added excitement. Jackpot payout on/off and sound on/off. Requires 2 "C" batteries.

60-2443 ..... 49.99



**NEW Two-player tabletop electronic draw poker**

Card sharks, if you know when to hold and when to fold, this is the game for you. Realistic electronic draw poker lets you take cards, place bets and win the pot! Keeps score of your betting automatically. Jackpot activates ringing bell, flashing light and melody. Payout and sound on/off switches. Requires 2 "C" batteries.

60-2433 ..... 49.99



**Handheld mini blackjack**

Viva Las Vegas! Try your luck at home or on-the-go against the electronic blackjack machine. Uses full 52-card deck. Requires 2 "AA" batteries.

60-2463 ..... 9.99



**Vegas-style micro slot machine**

Play the "slots" anywhere with your own handheld slot machine. "Legal" in all 50 states. Realistic casino action. Requires 2 "AA" batteries.

60-2464 ..... 9.99



**Electronic handheld mini draw poker**

This poker machine is small enough to take anywhere, so you can sharpen your skills before you hit the casinos. Sound on/off control. Requires 2 "AA" batteries.

60-2465 ..... 9.99



**NEW Two-in-one poker game**

Two games in one. Play straight poker or practice betting with pro poker. Flashing display and music. Includes batteries.

60-2430 ..... 24.99



**Two-player mini draw poker**

Lets you hold, draw and bet—plays just like the casinos' video poker machines. Easy-to-read LCD display. With batteries.

60-2417 ..... 19.99



**NEW Blackjack & poker combo**

Get two casino favorites in one game. Flashing display and music. Selectable betting. On/off sound control. Includes batteries.

60-2431 ..... 24.99



**Handheld two-player electronic golf game**

Championship Golf II®. "Tee off" on one of two challenging courses. Select club and adjust swing to get the lowest score. One or two players. Dual screens to give you more playing information. Requires 3 "AAA" batteries.

60-2423 ..... 29.99



**NEW Mini video poker game doubles as a nifty keychain**

If you're always game for a quick hand of video poker, this keychain is for you. It features sound effects and melody for winning hands. Follows standard casino video poker rules. Automatic shutdown to conserve battery. Easy-to-play keys. Battery included.

60-2429 ..... 9.99



**NEW Mini tabletop video poker**

Have hours of card-playin' fun! Follows the same rules and plays the same as the big casino games. Jackpot payout on/off switch. Easy-to-use playing keys. Sound on/off switch. Flashing "win" light and winning melody. Requires 2 "C" batteries.

60-2432 ..... 29.99



**NEW LCD game & mini-ball challenge**

Blast your way past the flame-throwing dinosaur in this action-packed LCD game, or score points on the challenging rolling ball puzzler. Three different game modes and eight levels of difficulty. Exciting sound effects. Requires "AAA" battery. 60-2479 ..... 9.99



**NEW Double the action! Electronic basketball and invader game**

Two LCD games in one. Battle evil invaders or take your fighting to the court with action-packed basketball. Six levels to challenge your skill and reflexes. Battery included. 60-2480 ..... 9.99



**Electronic pocket repeat**

Test your memory skills! This game flashes colored buttons and sounds musical tones while challenging you to repeat the patterns it plays. Things get fun as the pattern gets longer and faster. Play against computer or friend. Four skill levels. Requires "9V" battery. 60-2482 ..... 11.99



**Two-player electronic sea battle**

Be a fleet commander! Strategically place your ships in the ocean grid and fire to destroy your opponent's ships. Dual screens show you hits and misses. Realistic sound effects of explosions make you feel like you're in an actual sea battle! Requires 2 "AA" batteries. 60-2475 ..... 29.99



**Exciting handheld LCD sea battle**

Sink 'em or swim! Fast-paced naval action game you can play anywhere. Aim carefully and use your ammunition wisely as you defend your ship from screaming jet fighters, roaring tanks and enemy battleships. Exciting sound effects. Built-in clock. Requires "AA" battery. 60-2245 ..... 11.99



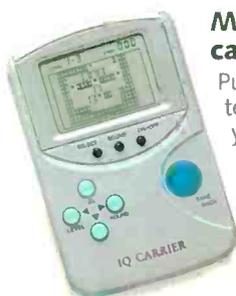
**Helicopter attack LCD game**

Fly your attack chopper and destroy the enemy! Drop bombs and fire missiles against hostile helicopters and ground fortresses. Three different games with three skill levels. Sound on/off button. Comfortable handheld design and easy-to-use controls. Requires 2 "AA" batteries. 60-2460 ..... 14.99



**Sonic rally LCD race game**

Action-packed handheld car race with sound effects and turbo key to bump up the action. LCD screen with scoring. Two games, ten skill levels. Requires 2 "AAA" batteries. 60-2469 ..... 14.99



**Mind-teasing IQ carrier game**

Put your intelligence to the test. See how many steps you need to maneuver the boxes to their destinations. Complete four rounds of play to advance each level. Seven skill levels. 60-2471 ..... 15.99



**4-in-1 electronic stacking game**

This quick and challenging game of concentration and hand-eye coordination is hard to put down. Four fun games. Auto power-off to conserve batteries. Adjustable picture contrast. Requires 2 "AA" batteries. 60-2474, 24.99



**NEW Arcade-style action! Handheld LCD pinball game**

Disciple of the silver ball? Got crazy flipper-fingers? Even the biggest fan of gameroom pinball will love the arcade sound and action on this handheld LCD game. This one feels like real pinball thanks to lifelike vibrating action. Take it anywhere for pinball fun in the palm of your hand. With eight different skill levels and patterns to choose from, even the best pinball wizard will find this game a challenge. Automatically keeps high scores. Flashing LED light and exciting flipper, bell and bumper sound effects. Comfortable design and big easy-to-use flipper controls. Auto power-off to save batteries. Requires 2 "AA" batteries. 60-2481 ..... 19.99



**NEW Sing-along tape recorder/ player**

**CTR-92.** Kids use the detachable mike to sing along with cassettes or record their own songs. Auto-stop saves batteries. Easy one-touch recording. Requires 4 "C" batteries or AC adapter. Available Sep. 30, 1994  
14-862 ..... 29.99



**NEW Colorful cube kids' radio**

**AM/FM Cool Cube radio.** Colorful cube shape with fold-down carry handle. Features rotary tuning and volume controls. Choose from three different colors. Requires 4 "AA" batteries.  
12-457 ..... 12.99



**Hop in for our FM "Frog" radio**

Hear favorite FM stations through the included earbuds or share the sound through the built-in speaker. Features rotary volume and tuning plus a flexible antenna. Requires 2 "AA" batteries.  
12-737 ..... 9.99



**Make a colorful light show**

Rainbows of light! Great for creating mood effect with music or by itself! Light inside a faceted dome casts an array of colors around the room. 7" high. Great for parties or attention-getting store displays. UL listed AC.  
42-3018, 14.99



**Palm-size AM/FM radio**

Molded design fits neatly in the palm of your hand. Rotary volume and tuning controls. In jet black or cherry red. With wrist strap. Requires 2 "AA" batteries.  
**Black, 12-738. Red, 12-740, Each 14.99**



"Hey Tommy, meet me at the corner"

**Headset walkie-talkie**

Voice-activated for hands-free conversations—transmits when you talk into the boom mike, receives when you aren't talking. Kids can use them to keep in touch with each other when out playing in the neighborhood. High/low volume switch, adjustable head-band. Each requires 9V battery. 49 MHz.  
60-4023, Pair 24.99



**NEW AM/FM bike radio**



Listen to your favorite stations as you pedal along. Features built-in electronic horn. Rotary tuning and volume controls. Mounts easily on handlebars with the included mounting hardware. Requires 4 "C" batteries.  
12-453 ..... 24.99

**Flashing strobe for a wild look**



Switch on this fun light at your next party for a totally cool look! Vary the flash rate to see people "freeze" or move in slow motion. Great for dancing to!  
Polished reflector. Walnut vinyl finish. UL listed AC.  
42-3009 ..... 34.99



**Handheld Karaoke music system**

Take it to your next party and take turns singing along to your favorite cassettes! Features rotary mike/tape balance, volume, music/voice mixer and echo controls. Jack for adding mike. Requires 4 "AA" batteries or AC adapter.  
14-856 ..... 39.99

**Kids' Stuff!**

Take and make the music with radios, walkie-talkies and cassette players. Then add special-effects lighting to set the mood for a real party time!



**NEW Kids' stereo tape player**

**CTP-73 Carry Cassette.** Kids can listen to tapes in stereo with included headphones. Big, colorful buttons are easy for little fingers to push. Auto-stop saves batteries. Requires 2 "AA" batteries. Available Oct. 15, 1994  
14-864 ..... 19.99

**Micro-size walkie-talkies**



Our Space Patrol micro model is less than 1" thin so it easily fits in your pocket or backpack. Great for camping and hiking trips or just outside playing. Has flexible antenna and a push-to-talk button. Each requires 9V battery. 49 MHz.  
60-4021 ... Pair 19.99

**Standard model walkie-talkie**



Buy several and you and all your friends can stay in touch while playing outside. Has a Morse code transmit button and code alphabet displayed on the front panel. Requires 9V battery. 49 MHz.  
60-4020 ... Each 9.99

**2-way headset**



With adjustable boom mike and headset-mounted antenna. Belt clip. Each requires 9V battery. 49 MHz.  
60-4022 ... Pair 19.99



**Our best! Touch-responsive keys and MIDI-compatible**

**Concertmate-1000.** Full-size keys increase volume as finger pressure increases. Features 100 preset sounds and 100 rhythms. Real-time memory stores your compositions for playback. Can connect to a MIDI-equipped PC or other instrument. Requires 6 "D" batteries (or AC adapter, extra). (TSP)

- 42-4020 ..... 329.99
- Sustain pedal. (CMC) 42-4021 ..... 29.99
- MIDI-cable. (CMC) 42-2468 ..... 34.99

**NEW Versatile—great for beginners and more experienced musicians**

**Concertmate-950.** 61 full-size keys, 5-octave range. Features 120 preset sounds, 16-note polyphonic sound and 40 preset auto-rhythms. Also has auto accompaniment, fill-in rhythm and auto intro/ending rhythm. Requires 6 "D" batteries (or AC or DC adapter, extra). (TSP)

- 42-4023 ..... 249.99

**100 preset tones and 100 pre-programmed rhythms**

**Concertmate-670.** Features 49 full-size keys with a 4-octave range, and 8-note chords. Also has automatic fill-in rhythms and adjustable tempo control. Separate main volume control. Requires 6 "AA" batteries (or AC adapter, extra). (TSP)

- 42-4012 ..... 119.99

**Lesson function makes this a great keyboard for beginners**

**Concertmate-470.** 32 mini keys make the keyboard compact so you can play it anywhere. Has 10 built-in demonstration tunes and 24 preset accompaniment patterns. Tempo control to speed up or slow down the tempo. Requires 4 "AA" batteries (or AC adapter, extra). (TSP)

- 42-4019 ..... 59.99

**Kids love this great-sounding mini keyboard**

**Concertmate-380.** Only 15" wide so it's easy to carry around. Features 100 sounds plus 24 accompaniments, 5 demo tunes and tempo control. 32 mini keys, 2-note chords. Requires 4 "AA" batteries (or AC or DC adapter, extra). (TSP) 42-4018 ..... 39.99

**Stand holds your keyboard steady and secure**

Sturdy keyboard stand supports up to 75 pounds so you can play your keyboard standing up, professional style. Quick and easy to assemble—no special tools are needed. Reg. 42-4050 ..... 39.99

# Electronic Music Keyboards

Radio Shack makes it easy to make your own music. Our electronic keyboards are portable and easy to take along. We have several different models for all levels of skill—choose the one that best fits your needs and start playing today.



**NEW Learn to play the fun way**

**Getting Started.** Easy-to-follow illustrated manuals, instructional cassette and current hits songbook. 51-1108 ..... 9.99



Keyboard sold separately



Model	Cat No	Keys/Octaves	Auto-Rhythms	Preset Sounds	Compatible AC Adapter
Concertmate-1000	42-4020	61 Full-Size/5	100	100	#273-1650
Concertmate-950	42-4023	61 Full-Size/5	40	120	#273-1650
Concertmate-670	42-4012	49 Full-Size/4	100	100	#273-1656
Concertmate-470	42-4019	32 Mini/2 1/2	24	25 x 4 Tone Variations	#273-1650
Concertmate-380	42-4018	32 Mini/2 1/2	24	25 x 4 Tone Variations	#273-1650

Use Radio Shack's "factory-fresh" batteries in your keyboard, and see pages 150-151 for AC and DC adapters. Due to size, weight or other restrictions, items on this page may be unavailable for gift packaging, delivery or may require special handling. Please contact store or call 1-800-THE-SHACK for details.



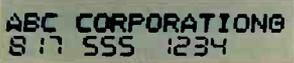
Telephone Directory

**Information Electronics—We Make it Easy for You**

New electronic marvels are coming along faster and faster every day, and they're getting more and more complicated! At Radio Shack, we're very good at taking the mystery out of new technology—we've been at it for 72 years. In this Catalog, we've included comparison charts for electronic organizers (opposite page) and scientific calculators (page 183). In our stores, there are open displays of these products, so you can try them out. Plus, you'll find a "Feature Card" that explains each product in plain, easy-to-understand words.



Data Link

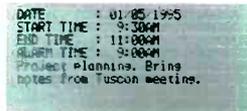


Speed Dialing

**Organizers** (pages 177-179, 184). Electronic directories/schedulers manage your data and time automatically. Just enter a name; it's stored alphabetically. Enter an appointment; shortly before the appointment time, an alarm sounds a reminder. You can look up a name and phone number at computer speeds with the organizer's easy-to-use Search function, even with up to 2,000 names stored. Some even



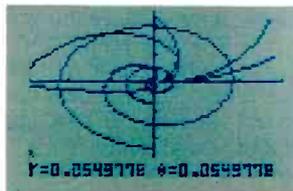
Icon Menu Selection



Appointment Scheduler

have sophisticated expense managers to track your business expenses. All of our organizers are easy to use—some feature icon menu selection, so you can enjoy the same effortless method of operation that you have on your home PC. Some even let you transfer files to another organizer or your PC via infrared links or optional cables.

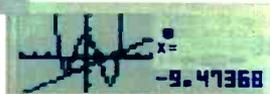
**Scientific Calculators** (pages 182-183). All calculators are not created equal. What puts scientific calculators in a class by themselves is their ability to handle very large and very small numbers. For instance, if an astronomer wanted to convert the distance from Earth to Alpha Centauri from 4.4 light years to miles, he would need a calculator with a display that could show the number 25,863,200,000,000! That's too many zeroes for a calculator with only 10 digits in the display. Scientific calcs solve the problem with Scientific Notation; big numbers are split into two parts—the mantissa and exponent (see Buzzwords). The number of digits in the mantissa is one of the best ways to rate the degree of precision in a scientific—the higher the number, the more accurate the calculator.



Polar-Coordinate Graphs

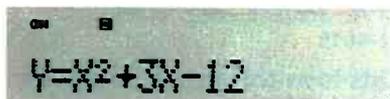


Dot Matrix Screens



Programmed Graphs

Scientific calculators are "number crunchers" with trig and statistics functions. The more powerful have features that scientists, engineers, mathematicians and science/math students need in their work—complex numbers, physical constants, programming capability and graphing of complex mathematical equations.

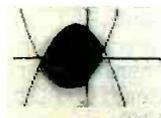


Formula Displays With Prompts

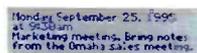
Scientific calculators are "number crunchers" with trig and statistics functions. The more powerful have features that scientists, engineers, mathematicians and science/math students need in their work—complex numbers, physical constants, programming capability and graphing of complex mathematical equations.

**Electronic Reference Books**

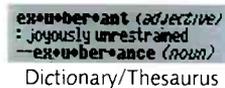
(pages 180-181, 184). We sell a large selection of electronic translators, dictionary/thesauruses and spell checkers, plus a baseball encyclopedia, Scrabble® dictionary and more. The new Franklin electronic King James Bible lets you adjust type size to your personal preference.



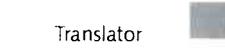
Inequality Graphs



Electronic Book



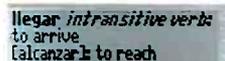
Dictionary/Thesaurus



Translator



Word Games



Holy Bible

Check out our exciting new talking "books". Pronunciation guides in dictionaries can be helpful, but you always wonder if you're saying it "right". Talking books end that worry—you'll know what the correct pronunciation sounds like. Our Digital Book is a virtual shirt-pocket library! The "books" are matchbook-size cartridges that pop into the back of a compact case. By changing cartridges you can have the Bible, Columbia Encyclopedia, organizer/scheduler, translator, Physician's Desk Reference, Webster's Dictionary, or many other titles available.

**Got Questions About Organizers, Calculators or Spell Checkers?**

You'll find the answers at Radio Shack. We have the best selection of information electronics in the country. If you're looking for a special electronic calculator, organizer, Bible, spell checker, translator or dictionary/thesaurus, you're almost certain to find it at Radio Shack. You'll also find friendly, knowledgeable sales people who'll be happy to answer your questions and assist you in making the right choice.



**Organizers**

**Anniversary Reminder**—Audible alarm alerts you to birthdays, anniversaries or weekly sales meetings. Set the dates and time once, and you'll be reminded every time the special event comes up.

**Business Contact File**—Format for organizer records that lists name, address and phone numbers. Often there is room for a company name and memos. Also called Business Card File.

**Expanded Entry**—Each record can contain up to 75 or more characters and digits. Some even take several hundred characters/digits. Usually applies to more powerful organizers.

**Scientific Calculators**

**Formula Entry/Replay**—The last equation entered is stored in a special memory. You can recall the equation, change any part and re-execute it. This feature is also called Last Equation Replay.

**Mantissa/Exponent**—Scientific notation used to display very large and very small numbers. Long numbers are split into two parts. The mantissa portion holds significant digits, the exponent portion tells you how many places to move the decimal. For example, 25,863,200,000,000 would be shortened to  $2.58632 \times 10^{13}$  in scientific notation. 2.58632 is the mantissa, 13 the exponent.

**Electronic Reference Books**

**Phonetic Spelling Correction**—You type a word the way it sounds into the electronic spell checker or dictionary. Your spelling is either confirmed as correct or the correct spelling is displayed.

**Scrolling**. Many of our personal electronics products provide more information than can be displayed on a single screen. Screens with horizontal scrolling show characters moving across the display with new characters appearing on the right side as others disappear off the left, ticker-tape fashion. There is also vertical scrolling with new lines appearing at the bottom of the display as lines move off the top.

## ROLODEX

### Electronic Rolodex® directories

We stock electronic desktop and pocket organizers from Rolodex, the company that sets the standard for office organization. You'll find top-of-the-line models of these popular and convenient desktop tools as close as your nearby Radio Shack store.

### **NEW** 128K Rolodex with icon menu & expense manager

EC-359. Now you can have the same ease of use in a sophisticated organizer that you enjoy in your home PC! The LCD displays icons for the functions—just select the icon of the function you want and press Enter. If you get stuck during operation, press a button and simple on-screen directions provide step-by-step guidance. Directory entries can be recalled by individual or company name instantly with the search function or by scrolling. Expense Manager provides an effortless system for keeping track of your itemized business expenses. Scheduler with alarm reminds you of appointments. Has month-at-a-view calendar; dates with appointments are marked. Calculator, digital clock/calendar, currency converter and electronic memo pad. Built-in transmitter shares data with other compatible Rolodex directories. An optional PC link will be available by mid '95. Includes CR2430 battery and backup CR1616 battery. **65-841 ..... 139.99**



### Rolodex desktop phone directory/dialer

EC-342. Reduces unnecessary "paper pushing" and saves you valuable time. Locate a name with the search function or by scrolling with the Rolodex knobs, then touch a button to dial the telephone number. 48K memory stores up to 700 business-contact files with name/company cross referencing. An advanced 85,000-word spell checker lets you enter a word the way it sounds; your spelling is either confirmed or corrected. A clock/calendar and calculator complete this handy desktop tool. Has IR link for sharing files with another EC-342 directory. Requires 4 "AA" alkaline batteries. **65-860 .. 69.99**

### Rolodex pocket telephone directory

EC-339. A great traveling companion! 64K memory stores up to 1000 expanded records. Large LCD displays 6 lines and scrolls vertically, each record having room for up to 60 lines of information! Cross referenced by name and company. Easy-to-use search function finds any record instantly. Four filing categories with data sharing between files—saves you from having to re-keyboard entries. IR transmitter/receiver shares data with other compatible directories; or add an optional PC interface and link to your computer. With 1 CR2016 and 2 CR2430 batteries. **65-939 ..... 99.99**

### Portable folding desktop office by Rolodex

EC-348. Opens up to display the neatly organized information you need for daily business tasks—closes to just 9<sup>5</sup>/<sub>16</sub> × 6<sup>7</sup>/<sub>16</sub> × 1<sup>7</sup>/<sub>8</sub>" for carry-around convenience. Connect it to the telephone line, and you can call any number on the speed-dial list with the touch of a button. Scroll through files using the Rolodex knob or find any entry instantly with the search function. 128K memory stores up to 2000 expanded-entry records. Built-in IR link shares files with any compatible Rolodex directory. Includes CR2430 backup battery, requires 4 "AA" alkaline batteries. **65-840, 149.99**

## Organizer Chart to Help You Make an Informed Comparison/Selection

Model No.	Catalog No.	Page No.	Advanced Features		Information Management				Time Management		Clock/Calendar		Calculator Functions		Data Link	
			Expense Account Manager	Icon Menu	Built-in Phone Dialer	Maximum Number of Names	Search by Name or Company	Memo Pad	Credit Card/Bank Account Memories	Sched. With Alarm	Anniversary Reminder	Clock/Calendar	World Time Clock	Built-in Calc.	Currency Converter	Organizer to Organizer
EC-212	65-830	178				250*	Both			✓		Both	✓	✓		
EC-328	65-944	179				50	Name					Both	✓	✓		
EC-331	65-948	179				100	Name	✓	6	✓		Both	✓	✓		
EC-339	65-939	177				1000*	Both	✓				Calendar	✓	✓		
EC-342	65-860	177			✓	700*	Both	✓				Both	✓	✓	✓	✓ <sup>1</sup>
EC-344	65-861	179				50	Name			✓		Both	✓	✓		
EC-348	65-840	177			✓	2000*	Both	✓				Calendar	✓	✓	✓	
EC-353	65-852	184				250	Name		6	✓		Both	✓	✓		
EC-354	65-863	178				140	Name			✓		Both	✓	✓		
EC-355	65-864	178				500	Name		6	✓		Both	✓	✓		
EC-356	65-865	178		✓		1000*	Name	✓		✓		Both	✓	✓	✓	✓ <sup>2</sup>
EC-357	65-866	178		✓		500*	Name	✓		✓	✓	Both	✓	✓	✓	✓ <sup>2</sup>
EC-359	65-841	177	✓			2000*	Both	✓		✓		Both	✓	✓	✓	
EC-361	65-869	178	✓			1000*	Name	✓		✓	✓	Both	✓	✓	✓	✓ <sup>2</sup>
EC-362	65-831	179				50	Name			✓		Both	✓	✓	✓	
EC-363	65-832	179				200	Name	✓		✓		Both	✓	✓	✓	✓
EC-364	65-833	179				200	Name	✓		✓		Both	✓	✓	✓	✓
EC-365	65-871	178				600*	Name			✓		Both	✓	✓	✓	

\*Expanded Entries—see explanation on opposite page. <sup>1</sup>Requires optional PC interface #65-132A (CMC) <sup>2</sup>Requires optional PC interface #65-848 (CMC). †Requires additional accessory (CMC)



**NEW** Organizer with same ease-of-use as popular PC programs

EC-356. LCD displays icons for the functions—simply select the symbol of the function you want and press Enter. 64K memory stores up to 1000 expanded phone book entries—each with full name, address, phone and fax numbers, plus room for notes. Has scheduler with alarm, anniversary reminder, electronic memo pad, monthly calendar, clock with both home time and current time in any of 29 major cities worldwide. There's even a built-in poker game just for fun. With an optional cable (CMC), two EC-356s can share data. Add an optional PC interface (CMC), to link with a computer. **65-865 ... 79.99**



**NEW** 64K organizer with business expense manager

EC-361. Ideal for the business executive—packed with sophisticated functions, yet it's smoothly easy to operate. Has the most useful, powerful business-expense manager you'll find outside a computer program. Phone directory stores up to 1000 expanded business/personal entries. Anniversary reminder with alarm keeps you informed of weekly/monthly meetings, birthdays, etc. Scheduler with alarm, memo pad, month-at-a-view calendar, clock with home/world time, calculator. **65-869, 119.99**



Phone book with 1000 expanded entries—name, address, phone and fax numbers plus notes.



Scheduler with audible alarm keeps you on-time for important appointments.



Month-at-a-view calendar with appointments indicated by marks next to the dates.



Electronic memo pad stores notes and other important bits of information.



**NEW** Rolodex executive planner—the common-sense organizer

EC-365. Combines a powerful electronic directory and a practical paper planner. Weekly paper calendar helps you organize your appointments and "to-do" lists. Directory stores up to 600 names and phone/fax numbers, recalls entries instantly with Search function. Scheduler alarm, calculator, clock with alarm and currency converter. **65-871 ... 49.99**



**NEW** Rolodex® pocket planner

EC-354. Combines the practicality of a paper planner with the efficiency of an electronic directory. Directory stores up to 140 names alphabetically, recalls entries instantly with easy-to-use Search function or by scrolling. Paper planner organizes appointments, memos and reminders. Replacements for the standard Rolodex notepads are available in most office supply stores. There's also a Scheduler with alarm to remind you of appointments, full-function 10-digit calculator, currency converter and clock with alarm. Password protection for sensitive information. With CR2025 battery. **65-863 ... 19.99**



**NEW** Organizer with menu-driven functions

EC-357. LCD displays icons of the functions—just select symbol of the function you want and press Enter. 32K memory stores up to 500 expanded entries—name, address and phone/fax numbers. Has month-at-a-view calendar, scheduler with an alarm, plus clock with home time and world time in any of 29 major cities. 10-digit calculator and electronic memo pad. Shares data with another EC-357 with optional cable. Optional PC interface lets you link to your computer (CMC). With two CR2032 batteries. **65-866 ... 59.99**



Organizer with personal scheduler

EC-212. Stores more than 250 entries—name, company name, address, phone and fax numbers. Searches for entries by either person's or company's name, finds names instantly or by scrolling. Scheduler with alarm reminds you of appointments. Date and time display, world-time clock for 32 major cities, home time with daily alarm, calendar, 10-digit calculator. Password code lets you protect sensitive information. With 2 CR2032 batteries. **65-830 ... 39.99**



**NEW** Personal directory with account manager

EC-355. A handy tool to help you organize your busy life. Stores up to 500 names and phone numbers alphabetically. The account manager holds up to six bank or credit-card accounts. Easy-to-use search function finds names instantly. Scheduler with alarm keeps you on time for your appointments. Clock/calendar displays date/day/time, has daily alarm. 12-digit calculator with 4-key memory. Currency exchanger converts money between three currencies. Security code protects sensitive information. Auto shutoff saves batteries if the EC-355 is left on accidentally. With two CR2032 batteries. **65-864 ... 29.99**



**Super-value data and time organizer**

EC-331. Feature-packed—phone directory, scheduler with appointment alarm, count-up/down timer with alarm, 12-digit calculator, clock/calendar with daily alarm and six special memories for holding bank

or credit-card accounts. Stores 100 names and phone numbers alphabetically, recalls names instantly. Currency converter for up to three currencies. With two CR2016 batteries.

65-948 ..... 19.99



**Card-size organizer by Rolodex®**

EC-344. Phone directory alphabetically stores up to 50 names and phone numbers. Finds any entry quickly with search function or by scrolling. Scheduler alarm keeps you on-time for

appointments. Time and date appear on display when the organizer is not in use. Built-in foreign-currency converter and 12-digit calculator. Includes case with a pocket for business cards. With CR2032 battery. 65-861 ..... 11.99



**Directory/calculator**

EC-328. Handy card-sized phone directory with built-in calculator slips easily into a

pocket or purse. Automatically stores up to 50 names and telephone numbers alphabetically. Locates names instantly with the search function or by scrolling. Built-in currency converter and metric converter functions. Password protection for your sensitive information. So convenient you'll carry it everywhere. Includes billfold-style case and a CR2025 battery.

65-944 ..... 12.99

**Data for kids**

1 Silly faces on the displays add to the fun!

2 Have your daily fortune told and get advice to help you plan a fun-filled day

3 Choose a secret password only you know and lock your diary's secrets away

4 Matchmaker tells you about that special person



**Electronic organizer designed especially for kids**

My Magic Diary™ EC-362. Holds up to 50 of your friends' names and telephone numbers. Names are recalled instantly with an easy-to-use search function. My Magic Diary will tell your fortune and give you match-making advice. Friendly dinosaur changes expression, depending on whether the answer he is giving is good or bad news. Built-in 10-digit calculator and secret password lock. Includes CR2032 battery. 65-831 ..... 39.99



**Draw a silly face to go with each friend's name**

My Magic Diary EC-363. Make a file of your friends' addresses and phone numbers, and give them really silly faces. Built-in scheduler with alarm reminds you of appointments. Matchmaker and Fortune Teller give important advice. Type in your most secret thoughts—only your secret password can open My Magic Diary! Built-in calculator, alarm clock and world-time clock with map. With two CR2032 batteries. 65-832, 59.99



**Magic Beam™ lets you send secret messages to friends**

My Magic Diary Secret Sender™ EC-364. Invisible beam sends secret TV messages across a room to a friend's Magic Diary EC-364! Magic Beam also works as a TV remote control. Create fun faces to go with names and phone numbers. Scheduler alarm reminds you of appointments. You and your friends will have fun with Matchmaker and Fortune Teller. Has world-time clock, calculator, alarm clock. With 2 "AAA" batteries. 65-833 ..... 99.99

**Calcs for kids**



**Dual-powered pencil box calculator**

Oversize keys are color-coded to make it easy for little scholars to distinguish between keys for numbers and the keys for functions. Box has ample room for pencils, sharpener, and an eraser (not included). With CR2025 battery. 65-525 ..... 12.99



**Kids' talking math calculator**

EC-208. Youngsters enjoy doing the same visual and spoken math drills that teachers use in classrooms. Multiplication tables and quizzes in basic arithmetic are both displayed and spoken aloud in a clear, pleasant voice. Requires two "AA" batteries. 65-526, 29.99



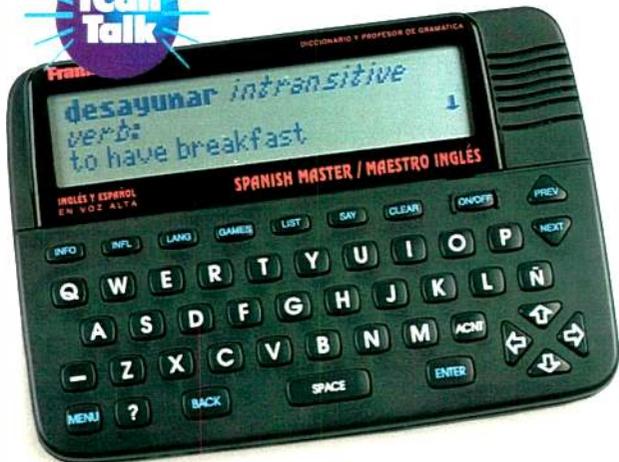
**Explore fractions and decimals**

EC-205. Displays fractions in standard fractional form with numerators above denominators. This familiar format lets students work directly with the same symbols they see in math books and the classroom. Requires two "AAA" batteries. 65-559 ..... 17.99



**Fun 'n Numbers kids' first calculator**

EC-209. Number-shaped keys and easy-to-read display make calculating an adventure! Keyboard with extra-large keys helps little fingers find the right keys every time. Auto-off turns calculator off after several minutes of non-use. Requires "AA" battery. 65-527 ..... 9.99



**Franklin**



**NEW Spanish/English speaking dictionary**

Franklin Speaking Spanish Master™. According to experts, the fastest way to learn a new language is to hear it spoken as well as see it written. 250,000-word bilingual dictionary translates and pronounces words out loud in Spanish and English. Touch a button to switch between Spanish and English.

Very easy to use. Built-in spelling correction lets you translate a word even when you don't know the correct spelling. Display shows verb conjugations and inflected forms. Built-in grammar guide gives assistance. Seven language-learning word games. Requires four "AAA" batteries. **63-2005 ... 129.99**

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*Why waste valuable time searching back and forth through pages of a printed book when you can find the information you need effortlessly, instantly?*

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Spanish Master™. Much more than a translator—Franklin's bilingual dictionary is a powerful learning tool! Translates 250,000 words between Spanish and English, and displays full inflections of verbs, nouns and adjectives. Gives grammar assistance in either language at the touch of a key. Has a built-in phonetic spell checker—enter a word the way it sounds, and the Spanish Master corrects and translates it. Includes seven exciting, educational word games in English and Spanish. Requires four "AAA" batteries. **63-2006 ... 99.99**



**Word/phrase translator**

Translates sentences of up to 32 characters between English, French, German, Spanish and

Italian. Translates 15,000 words and 1000 essential travel phrases. World clock for 128 major cities, currency converter, calendar, metric converter and calculator. With CR2032 battery. **63-935, 49.99**



**5-language translator**

Translates 4,000 of the most-useful words among Italian, French, Spanish, German and

English. World clock displays time in 128 cities around the globe. Converts US dollars to your choice of any three foreign currencies. With two CR2032 batteries. **63-683 ... 39.99**



**English/Spanish translator**

Translates 10,500 of the most useful words between English and Spanish. Preprogrammed with

480 essential travel phrases. Features calculator, currency and metric converters, and a world-time clock. With two CR2025 batteries. **63-797, 29.99**



**Card-size translator**

Slip it into your shirt pocket. So small you

won't even know you've got it—until you need it. Translates 4,000 of the most useful words and 100 travel phrases between English, German, French and Spanish. With 2 CR2016 batteries. **63-666, 19.99**

**Phonetic spelling correction**



**Pocket-size spell checker**

It's a snap to use, even for the poorest of spellers! Just enter a word the way you think it's spelled and press a button—the display either confirms the spelling as correct or shows the corrected spelling.

Don't know a few letters in the word you want to spell? That's okay; just enter "?" for the letters you aren't sure of and a list of all the words that fit are displayed. Spelling correction for over 80,000 words. Built-in 12-digit calculator. Auto-off feature saves battery power—turns the calculator off if no key is pressed for a few minutes. Includes carry case and two CR2016 batteries. **63-656 ... 27.99**



**4 essential desktop accessories in 1**

Incredibly handy—takes no more work space than a ruler, yet combines four important office tools in one.

Phonetic spell checker for 80,000 words, four-function calculator, 12-inch/30-cm ruler scales and a metric conversion chart. Includes two CR2016 batteries. **63-657 ... 29.99**

**Franklin Pocket Spelling Ace™**

SA-95. Carry this 80,000-word spelling checker in your shirt pocket or purse, and you'll never get stuck if you're away from your dictionary when you need to write a letter or a note. Enter a word the way it sounds, get the correct spelling instantly. Helps with words that sound alike but are spelled differently. Crossword puzzle solver. With CR2032 battery. **63-691 ... 29.99**

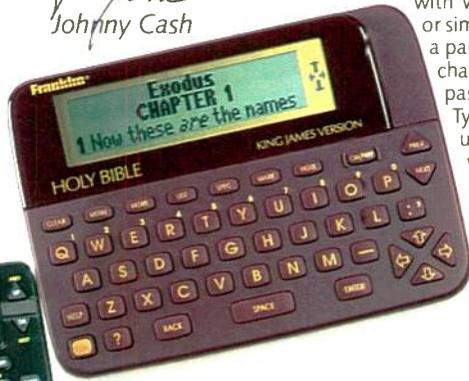
**Franklin Spelling Ace with crossword puzzle solver**

SA-98. Advanced phonetic spelling checker helps with "sound-alike" words and hyphenation. Big, easy-to-read display. Built-in crossword puzzle helper—just enter the known letters of a word. You'll get back a list of words that fit the pattern of letters you entered. Also has three challenging word games. Requires four "AAA" batteries. **63-677 ... 29.99**



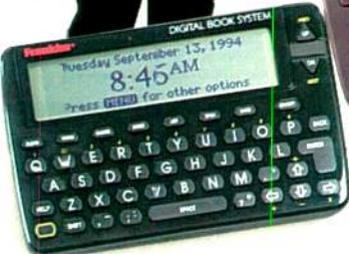
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I've found for reference  
and concordance work.  
And it's fun.

*Johnny Cash*  
Johnny Cash



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Franklin® King James Bible. The world's best-selling book in easy-to-use electronic form. A complete concordance with powerful search function finds scripture at computer speed. Type in the word or phrase you're looking for and touch a button—in seconds the verse appears. Also looks up scripture with words having the same or similar meaning. To turn to a passage, just type in book, chapter and verse, and the passage appears instantly. Type size can be adjusted up or down to fit your viewing preference. Has built-in thesaurus and spelling correction. Requires 4 "AAA" batteries. (TSP) 63-2002 ... 99.99  
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Franklin Digital Book System™. Put a library in your pocket! Powerful Digital Book makes vast amounts of information available to you—see listed below for just a few of the available titles. The included directory/scheduler cartridge features easy-to-use search methods that instantly find names, addresses, phone numbers and appointments. 63-2040 ... 149.99

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- King James Bible ■ NIV Holy Bible ■ Word Games
- Wine Guide ■ Handbook of Drug Interactions
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- Spanish/English Dictionary ■ Bartender's Guide
- French/English Dictionary ■ Medical Therapeutics
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Digital Book cartridges are Express Order/CMC



**Baseball Encyclopedia**

Franklin BLB-2. Instant access to over a million big league stats! More than 620,000 batting statistics; over 270,000 pitching stats, team batting records, Cy Young winners, MVPs, more! Biographical info on every player in big league history—over 100 years. With two CR2032 batteries. 63-931 ... 49.99



**Crossword puzzle solver**

This pocket-sized marvel contains a quarter of a million words in categories such as sports, people, geographic names and many more. Just enter the letters you know and a "?" for those you don't. Display shows a short list of words that fit. Includes CR2032 battery. 63-694 ... 39.99

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**10 challenging word games**

Great for entertaining the kids while traveling and a fun way to improve your vocabulary. With the all-time favorites Hangman, Word-Train, Anagrams, Memory, Spelling Bee, as well as five more brainbusters. Offers helpful hints if you get stuck. Five skill levels. With CR2016 battery. 63-919 ... 34.99



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Franklin Official Scrabble Players Dictionary. Palm-sized dictionary makes Scrabble easier and more enjoyable. Contains more than 100,000 words and 42,000 definitions. Just enter your letters, and you'll see a word list ranked by score. Was \$59.99 in '94 Catalog. 63-918, New Low Price! ... 49.99

**Dictionaries and thesauruses**



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Franklin Language Master™. Unless you're an English professor, it's hard to figure out all those funny pronunciation and accent marks in a dictionary—but you don't have to. Now when you look up a new word, you can learn the correct spelling and hear it pronounced out loud! You'll be able to start using the word right away in speech, so you'll remember the word more easily.

Has 274,000 definitions and 496,000 synonyms plus phonetic spelling correction and 11 challenging word games. Earphone jack. Includes vinyl carrying case. Requires 4 "AAA" batteries. 63-2003 149.99



**NEW Dictionary/thesaurus**

Franklin Language Master. This handy desktop electronic reference book provides 274,000 definitions, 496,000 synonyms, an 83,000-word spelling checker and 11 word games. Type size can be adjusted up or down to your preference. Requires 4 "AAA" batteries. 63-2004 ... 79.99



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Franklin Wordmaster™ Thesaurus. It sure beats digging through a printed thesaurus—the computer does all of the hard work! Provides 496,000 synonyms for 40,000 entry words and phonetic spelling help for 83,000 words. Requires 4 "AAA" batteries. 63-692 ... 49.99

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### King-size digits

EC-441. Protective case opens to a big display and comfortably-spaced keyboard. Dual powered\*. 65-919 ..... 14.99



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EC-433. Opens to provide a big, roomy keyboard for fast and easy operation. Markup, percentage keys. Dual powered\*. 65-916 ..... 13.99



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### Extra-large digits

EC-447. Adjustable display with big LCD digits for the ultimate in viewing comfort. Markup/down function. Dual powered\*. 65-891+ ..... 11.99



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EC-451. Smart-looking—folds to slip into a pocket or purse. Dual powered\*. 65-893 ..... 9.99



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EC-427. Large, easy-to-read digits. Three-key memory. Percent and square-root keys. Dual powered\*. 65-895+ ..... 7.99



### Solar calculator

EC-443. No batteries to buy! 3-key memory, percent and sign-change keys. Leatherette case. 65-597 ..... 5.99

## Calcs for special uses



### Electronic checkbook balancing

EC-430. It's a snap to keep accurate records of your checking/charge accounts with this calculator. Just enter bank and charge account transactions as they occur. Stores three separate account balances, even when off. Case holds register, checks, pen and up to five credit cards. Dual powered\*. 65-570 ..... 15.99



### Metric-conversion with big digits

EC-352. Just press two keys to change a measurement from metric to U.S. units, or vice versa. 20 built-in functions to convert weight, volume, distance and temperature. Big, easy-to-read display. Dual powered\*. 65-828+, 15.99



### Preprogrammed business calc

EC-5001. With built-in formulas for amortization tables, investments, cash flow, interest rates, margin and more. Single- and paired-variable statistics. Manual includes step-by-step instructions and real-life sample problems. 65-874+ ..... 34.99



### Time/log calc

EC-2026. Time calculations made easy! Just enter hours, minutes and seconds the way you write them—the calculator does the rest. Alarm clock, countdown timer, eight-digit calculator, three-key memory. 65-829 ..... 17.99



### A must for time billing!

EC-341. Built-in timer keeps track of time spent on a task. Calculate time-log by entering hours and minutes the way you write them; calculator functions do the rest! Decimal/hexadecimal number system. Was \$29.99 in '94 Catalog. 65-827+, New Low Price! 24.99

## What's New in Scientifics?

Come to Radio Shack to find the best selection in scientific calculators. We have everything from a top-end model that handles differential calculus and fifth-order simultaneous equations to a very affordable student scientific.

We make it easy for students and professionals alike to find Radio Shack calculators that are matched to their needs. Our complete line is on open display for you to try out—you'll know the calculator you select has the features you need before you buy it. No surprises. Of course, our store personnel will be happy to answer questions, too.



### Programmable graphic

EC-4033. Graphs help you visualize complex mathematical relationships. Plot trigonometry functions and single/paired-variable statistics. Up to 400 programmable steps; or up to 76 memories in standard or array-type format. Trig calculations with inverse, hyperbolic and inverse hyperbolic functions. Handles fraction calculations and base  $n$  math. Formula entry/replay in non-programming mode. Statistical functions for standard deviation, regression analysis, single and paired-variables. 10-digit mantissa, 2-digit exponent. Comprehensive manual with step-by-step instructions. With hard-case cover and two CR2032 batteries. 65-803, 49.99



### Advanced scientific calculator

EC-4044. Custom design your own sophisticated computational tool. Store up to 12 frequently used formulas, and run any of them with just a few keystrokes. You'll be able to include the latest and most-wanted functions in your stored formulas—solutions for up to fifth-order simultaneous equations, complex number calculations and more. The advanced EC-4044 finds complex and real roots of a 2nd-, 3rd- or 4th-order polynomial. Has one and two-variable statistics, base  $n$  math. 10-digit mantissa, 2-digit exponent. With billfold case and CR2032 battery. 65-808 ..... 44.99



### Programmable graphic with icons

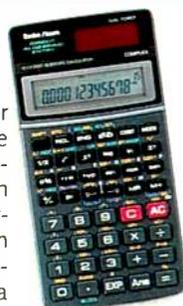
EC-4037. Advanced scientific calculator gives you 4000-step programming and enhanced graphing. Plus, with icon-menu selection you enjoy the same ease-of-use that today's popular PC computer programs provide. Features differential and integral calculus, simultaneous linear equations with two or three unknowns, quadratic equations, matrix calculations, formula entry/replay, engineering symbols. Single and paired variables, standard deviations, regression analysis. 475 functions, up to 528 memories. 10-digit mantissa, 2-digit exponent. Includes four "AAA" batteries and an extended-life backup battery. 65-805 ..... 89.99  
Data transfer cable. Links two EC-4037 calculators together for data sharing. (CMC) 65-137 ..... 19.99

\*Dual powered—calculator operates on solar power, automatically switches to battery in dim light / †Comes with billfold case.



### Formula programmable

**EC-4040.** Store one or more equations in the 79-step formula memory, then execute them anytime. Complete formulas are displayed on the screen and alphabetic prompts make data entry really convenient. Has one and two-variable statistics, fraction calculations, base *n* math, regression analysis, engineering symbols and more. 10-digit mantissa, 2-digit exponent. With LR44 battery. **65-806 ..... 39.99**



### Features 128 physical constants

**EC-4039.** Constants for all major fields in science and engineering. Physicists, chemists and mathematicians will appreciate the number-crunching capabilities—precision to 12 significant digits, fraction calculations, engineering symbol notation, complex numbers, seven memories and more. Solar powered with auto battery backup. 12-digit mantissa, 2-digit exponent. With two LR44 batteries. **65-819 ..... 34.99**



### Advanced scientific calculator

**EC-4043.** Features all the functions you expect in a powerful scientific calculator—trig and hyperbolic functions, regression analysis, one- and two-variable statistics, base *n* math and fractions calculations. Plus there are Boolean logic operators, physical constants, English/metric conversions, permutations and combinations. Three memories. Handy quick reference guide. Solar powered so it never needs batteries. 10-digit mantissa, 2-digit exponent. **65-807\* ..... 29.99**



### Formula scientific

**EC-4027.** What a value! You can store one or two formulas in the 40-step memory and run them anytime. Features integral calculus, regression analysis, base *n* math, one and two-variable statistics, 15 levels of parentheses, fraction calculations, seven memories. Displays math symbols during operation. 10-digit mantissa, 2-digit exponent. With two RS357A batteries. **65-999\* ..... 24.99**



### Dot-matrix display screen

**EC-4041.** Dot-matrix display provides more information than a standard LCD; most formatting is in standard textbook notation. Features complex numbers, engineering symbol notation, 7 memories, Boolean logic operators, fraction calculations and base *n* math. Automatically switches from solar to battery power in dim light. 10-digit mantissa, 2-digit exponent. With LR44 battery. **65-820 ... 22.99**



### Our best student scientific

**EC-4042.** Easy to use scientific and mathematics functions provide fast solutions for schoolwork. Has trig and hyperbolic functions, polar/rectangular conversions, common and natural logarithms, one-variable statistics, standard deviations, fraction calculations, combinations and permutations. Three memories. 10-digit mantissa, 2-digit exponent. Includes two RS76 batteries. **65-821\* ..... 18.99**



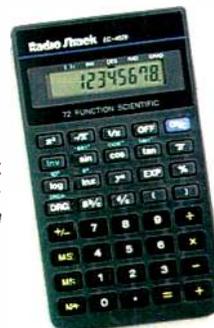
### Affordable formula programmable

**EC-4036.** Enter a formula you use frequently in programmable memory and run it anytime with a few keystrokes. 8-digit mantissa, 2-digit exponent. With RS357 battery. **65-817\* ..... 17.99**



### Student scientific

**EC-4028.** Has trig and inverse functions, complex numbers, one-variable statistics and base *n* math. 8-digit mantissa, 2-digit exponent. With case and RS389 battery. **65-815\* ..... 14.99**



### Basic scientific calculator

**EC-4029.** Trig and inverse functions, logarithms. Algebraic operating system. Has slide-rule calculations. 6-digit mantissa, 2-digit exponent. With case and two RS76 batteries. **65-816\* ..... 13.99**

## Radio Shack Has Scientific Calculators for Every Need and Budget—Why Shop Anywhere Else?

We have everything from sophisticated programmable graphic calculators to basic student scientifics. Save time, save money—come to Radio Shack first.

Model Number	Cat. No.	Max. No. Program Steps	Max. No. Memories	Graphing Functions	Engineering Symbols	Integral Calculus	Physical Constants	Mantissa/Exponent	Formula Entry/Replay	Complex Numbers	Fraction Calculations	Matrix Calculations	Regression Analysis	1-Variable Statistics	2-Variable Statistics	Base <i>n</i> Math
EC-4027	65-999*	40	7			✓		10/2			✓		✓	✓	✓	✓
EC-4028	65-815*		1					8/2		✓				✓		✓
EC-4029	65-816*		1					6/2			✓					
EC-4033	65-803	400	76	✓				10/2	✓		✓		✓	✓	✓	✓
EC-4036	65-817*	40	3					8/2						✓		
EC-4037	65-805	4000	528	✓	✓	✓		10/2	✓		✓	9 rows 9 columns	✓	✓	✓	✓
EC-4039	65-819		7				128	12/2		✓	✓		✓	✓	✓	✓
EC-4040	65-806	79	9		✓			10/2	✓		✓		✓	✓	✓	✓
EC-4041	65-820		7		✓			10/2		✓	✓		✓	✓	✓	✓
EC-4042	65-821*		3					10/2			✓		✓	✓	✓	✓
EC-4043	85-807*		3				8	10/2			✓		✓	✓	✓	✓
EC-4044	65-808*	440	36			✓		10/2	✓	✓			✓	✓	✓	✓

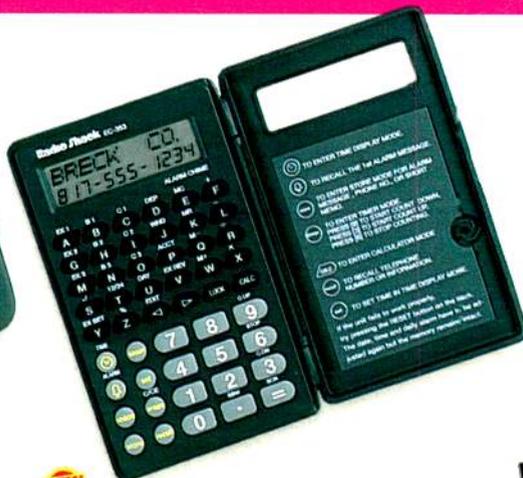
\* Comes with billfold case. / All calculators are covered by our one-year limited warranty—see store for details.



### Talking dictionary/thesaurus

**Franklin Language Master™.** Now when you look up a new word, you can get its correct spelling *and hear it pronounced out loud!* You'll be able to remember the word easier, and start using it right away. Unless you're an English professor, it's hard to figure out all those funny pronunciation and accent marks in a dictionary—now you don't have to.

Features 274,000 definitions; 496,000 synonyms grouped by meaning; phonetic spelling correction; 11 word games—a fun way to improve your vocabulary. Requires 4 "AAA" batteries. **63-2003 . . . . 149.99**



### NEW Directory "tells" the number

**EC-353.** So simple and convenient you'll wonder why no one ever thought of it before! Find the name you want instantly with the easy-to-use Search function, then just touch a button. The talking directory announces the phone number out loud so you can dial in a single, smooth operation, without having to recheck the number.

Also has scheduler with alarm, 12-digit calculator, clock/calendar, currency converter. Built-in account manager stores up to six bank or credit-card accounts. Folding case. **65-852 . . . . . 34.99**

## Six Things That Will "Tell" You All They Know!



### Nine-language talking calculator

**EC-210.** A *must* when you are trying to communicate numbers over a telephone to someone in a foreign country, and it's handy when you're traveling abroad. Speaks English, French, German, Spanish, Italian, Mandarin Chinese, Cantonese, Arabic, Russian. Requires 3 "AAA" batteries. Was 29.99 in '94 Catalog. **65-556 . . . . . New Low Price! 24.99**

Also has scheduler with alarm, 12-digit calculator, clock/calendar, currency converter. Built-in account manager stores up to six bank or credit-card accounts. Folding case. **65-852 . . . . . 34.99**



### Desktop talking calculator

**EC-208.** A pleasant voice confirms every keystroke, then announces calculation results when you push "=".

Jumbo display has digits over 200% bigger than most standard calculators. Beeper sounds twice when calculator is turned on and once when it's turned off. Voice off/on/max control switch. Requires 2 "AA" batteries. **65-554 . . . . . 24.99**



### Handheld talking calc

**EC-209.** Slip this talkative little calculator into your pocket or purse. Voice announces calculation results. Built-in clock with alarm. Four-key memory, percent key and auto constant calculation.

lutions. Voice-on/off, volume control. Requires 2 "AAA" batteries. **65-555 . . . . . 19.99**



### NEW Bilingual talking dictionary

**Franklin Speaking Spanish Master™.** The fastest, easiest way to learn a language is to hear it spoken as well as see it written. Speaks both Spanish and

English. Translates words even when you don't know the correct spelling. Translates over 250,000 words. Gives all verb conjugations and inflected forms. Requires 4 "AAA" batteries. **63-2005 . . . . . 129.99**



### Shopping calculator

Monitoring your shopping has never been so simple. To keep a running total of your purchases, you just enter the numbers. You don't need to enter decimals or "+".

Let's say you buy a pound of bananas for 59¢ and a bag of potatoes for \$1.79. Just enter 59 and 179. Prices are totaled and decimal points placed automatically. Includes CR2025 battery. **65-571, 14.99**



### Stylish folding calculator/clock

**EC-437.** Great looks and very practical—a handsome folding desk clock, a neat travel-alarm and an eight-digit calculator with markup and percentage keys. Plus, there are special tip-amount

and sales tax buttons for dining out and shopping. Display folds out to reveal a makeup mirror. With RS357A battery. **65-918 . . . . . 17.99**



### Jumbo-digits display time/date

**EC-448.** Convenient 3-in-1 combination gives you the time and date in a fun-to-use calculator with a giant-digit display. Delta doubles as markup key. Has sign-change, square-root, percent keys. Dual powered—auto switches from solar to battery power in dim light. Auto power-off conserves battery. With billfold case and LR1130 battery. **65-892 . . . . . 12.99**

Let's say you buy a pound of bananas for 59¢ and a bag of potatoes for \$1.79. Just enter 59 and 179. Prices are totaled and decimal points placed automatically. Includes CR2025 battery. **65-571, 14.99**



### NEW Executive desktop calc

**EC-2027.** More than a calculator—imaginative design makes it almost a work of art! Rounded non-skid rubber keys help ensure accuracy. Extra-large 12-digit LCD display. Item-count, auto 3-digit commas, last-digit correction and "00" key. Has 3-key memory. Five-position decimal switch. Dual power—automatically switches from solar to battery power in dim light. Includes 389A battery. **65-587 . . . . . 29.99**

Let's say you buy a pound of bananas for 59¢ and a bag of potatoes for \$1.79. Just enter 59 and 179. Prices are totaled and decimal points placed automatically. Includes CR2025 battery. **65-571, 14.99**



### NEW Credit-card size calculator

**EC-452.** Full-function calculator slips easily into wallet or purse with your credit cards—a mere  $3\frac{3}{8} \times 2\frac{1}{8} \times \frac{1}{8}$ ". Touch-sensitive keys are protected by a "film-face" from dirt and humidity; they're large and widely spaced for easy operation. Solar powered to run in almost any light—never needs batteries. Three-key memory, square-root, percent keys. Handy billfold vinyl case included. **65-894 . . . . . 7.99**

Let's say you buy a pound of bananas for 59¢ and a bag of potatoes for \$1.79. Just enter 59 and 179. Prices are totaled and decimal points placed automatically. Includes CR2025 battery. **65-571, 14.99**



### Computer keyboard calculator

**EC-435.** Now you don't have to leave an application in order to perform calculations. Fits atop your keyboard where it's always handy. Auto constant calculations. Three-key memory, plus square-root, percent and sign-change keys. With RS389A battery. **65-826 . . . . . 5.99**

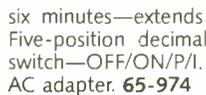
**NEW** Two-color printing calc

EC-3028. A home/office calculator with the most-wanted business-machine features—an easy-to-read 12-digit fluorescent display with 1/2"-high digits, fast two-color printing with subtractions printed in red, last-digit correction, reference-number printing, auto 3-digit comma, four-key memory, plus delta, percent and markup functions. Paper-feed key. Five decimal options—AA/0/2/3/F. Printing switch: OFF/ON/(NP/IP). The sturdy design will give you years of reliable service. 65-751 ..... 79.99



**NEW** Stylish cordless calc

EC-3027. Great combo—a printing calculator with full-sized keyboard in a battery-powered desktop. Features big easy-to-read LCD digits, "00" key, reference number printing, oversized "+" and four-key memory. Auto power-off feature turns calculator off if no keys are pressed for six minutes—extends battery life. Paper-feed key. Five-position decimal switch—A/0/2/3/F. Printing switch—OFF/ON/P/I. Requires 4 "AA" batteries or AC adapter. 65-974 ..... 39.99



# America's Electronic Specialists

We've been introducing innovations in technology to homes, offices and schools across the country since 1921.

**Laser-dot pointer**

Great price! Throws a 1/4" laser beam of light approximately 65 feet—ideal for use in classroom, lectures, business presentations, slide shows. Requires 3 "N" batteries. 63-1040 ..... 49.99



**Ten-digit fluorescent**

EC-3022. Here's a rugged workhorse you can count on! Sturdy "10-key" calculator features bright easy-to-read 10-digit display, last-digit correction, "00" key, auto-constant, delta percentage, paper-feed, sign-change and markup keys. Four-key memory lets you save subtotals, add to or subtract from them, and recall them for main calculations. Printing switch. Especially designed for anyone who's paying attention to the bottom line. UL listed AC. 65-972, 59.99



**Mini-size desktop calc**

EC 2030. Small enough to slip into briefcase or purse, yet has a roomy keyboard for easy operation and a big easy-to-read display. Auto switches from solar to battery power in dim light. Calculates the selling price from the base price and desired markup. Has three-key memory, square-root, sign-change and percent keys. Auto power off turns the calculator off if no key is pressed for a few minutes, saves batteries. With 389A battery. 65-589 ..... 11.99



**Programmable scrolling signboard**

Ideal for retail establishments, trade-show displays—or just for fun! Easy message editing on typewriter-style keyboard. With UL listed AC adapter. (TSP) 63-950 ..... 149.99

**Printing handheld calc**

EC-3024. Compact printing calculator fits easily into a briefcase or travel bag for folks on the go—measures 1 1/2 x 3 7/8 x 7 3/8". Business ten-key design and a large easy-to-read ten-digit display. Impact printer uses standard 2 1/4" paper roll. Paper tape feeds from internal compartment or from a convenient fold-out roll holder. Display only and display/print modes. Four-key memory. So handy to have, you'll take it everywhere. Requires 4 "AA" batteries or AC adapter. 65-957 ..... 29.99



**Dual-powered compact desktop**

EC-2023. Small enough to fit into a briefcase or purse with plenty of room to spare, yet has a spacious keyboard designed for operating comfort and a big easy-to-read LCD display. Attractive two-color styling. Features include last-digit correction, 3-digit commas, double-size "+" and, three-key memory. Keys for "00", sign-change, percentage and square root. Dual-powered—automatically switches from solar to battery power in dim light. Includes RS357A battery. 65-586 ..... 19.99



**Executive folding desktop**

EC-2024. This handsome calculator folds to become an elegant desk accessory. It opens to present a striking display with 3/4"-tall digits and a generous keyboard. Has all the features you expect in a fine, non-printing calculator—"00" key, last-digit correction, 3-digit commas, square-root, 5/4 rounding, 5-position decimal-point control, percent, three-key memory. Automatically switches from solar to battery power in dim light. Includes 389A battery. 65-588 ..... 24.99



**Battery-powered pencil sharpener**

No tangling cords. Space-saving and easy to use portable sharpener. Includes spare blades. Requires 4 "AA" batteries. 61-2768 ..... 3.99



**Deluxe cordless pencil sharpener**

Cordless convenience, but with the quality of an AC-powered pencil sharpener. Requires 4 "AA" batteries. 61-2590 ..... 10.99



Plain printing-calculator paper			
Size	Use With	Cat. No.	3-Pack
2 1/4"	65-751/952/954/957/958	65-710	2.49
	65-959/965/966/967/968		
	969/970/971/972/974		
2 1/4"	65-945/957/956	65-715	2.99
1 1/2"	65-666 (CMC)	65-712	2.49
1 1/2"	65-951/953/955 (CMC)	65-713	2.99

Thermal paper for early models. 2 1/2" size fits 65-643/644/645/646. 65-706 3-Pack, 4.19

**Accessories for our #63-686 copier**

Replacement drum. (CMC) 63-687 . . . 199.99  
 Black toner cartridge. (CMC) 63-688 . . . 99.99  
 Blue and red cartridges also available through CMC.

**Cartridges for Professional Labeler**

Replacement tape cartridges for Professional Labeler machine #63-647. (CMC)			
Tape Description	Cat. No.	Quantity	Price
Black on white	63-648	2-pack	24.99
Black on clear	63-649	2-pack	24.99



## A computer system is composed of several different components:

- The computer itself, including its operating system and application software
- A monitor
- A printer
- Peripherals
- Accessories and Supplies
- Service •Support

## The CPU—the computer's "brain"

The Central Processing Unit routes information to and from the various parts of the computer, and performs arithmetic functions. Most mainstream PCs use a CPU in the "486" series. CPUs are rated by **clock speed**—a faster speed generally means a speedier computer.

## The different kinds of memory

**RAM**—random access memory is where the CPU temporarily stores data and programs. Today's computers come with at least **4MB** (four megabytes) of system RAM. Be sure your computer can be upgraded to at least **16MB**.

**Storage media**—copies of your data and programs are recorded on either **floppy drives** that accept **removable diskettes**, or on **hard disk drives** that are built into the computer for larger storage and quick retrieval. Look for a system that comes with a 3½" **1.44MB floppy drive** and at least a **100MB hard drive**.

**Graphics and video memory.** Look for a computer that sports **local bus video** technology that lets video communicate with other parts of the computer more quickly. Make sure your computer has at least **512K** ("kilobytes") of video memory, expandable to **1MB**.

## Ports, slots and device bays

**Ports**—these connectors on your computer are where various external devices plug in. Be sure your computer has the following ports: **monitor, keyboard, mouse, parallel printer, 1 or 2 serial** (for devices such as scanners).

**Expansion slots**—sockets inside the CPU case that let you plug in circuit cards, such as fax modems and sound boards. Look for a computer with at least **3 available slots** (if it doesn't already have a modem and sound board).

**Device bays**—areas in the computer where **disk drives, CD-ROM drives** and other storage devices can be added. Make sure you have room to grow—at least one open 5¼" bay.

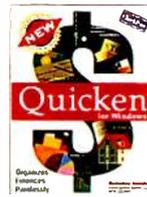


## Input devices

Most computers come with two input devices: a **keyboard** and a **mouse**. The mouse is a pointing device—by moving it around on a flat surface, you can direct many aspects of a computer program without having to type anything.

## Software

**Operating system** software, such as **MS-DOS** and **Windows**, includes programs that control the "inner workings" of the computer, as well as the way images appear on the monitor. **Applications** include word processing, mailing lists, drawing programs, spreadsheets, games and more. Check to see that your computer comes with operating-system and some applications software pre-installed.



## Monitors

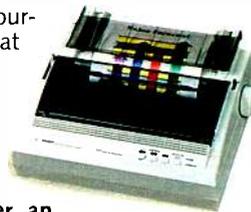
Most monitors today have 14" Cathode Ray Tubes (CRTs), with an increasing number of 15" CRT models (actual viewing size may vary). **Dot pitch** refers to the space between the dots (or "pixels") in the screen image. 0.39mm and 0.28mm are the most



popular today; the lower number, the better. **Resolution** measures how many pixels appear on the screen. For example, standard **VGA** resolution is **640 x 400**. **SVGA** (Super-VGA) is **800 x 600**. **Radio Shack's** monitors offer **flicker-free operation**—especially when the monitor is **non-interlaced**, meaning that the screen is drawn in one pass. Also, look for **VLMF** and **MPR II** status, the standards for electromagnetic shielding. Finally, see for yourself by looking at several monitors in operation.

## Printers

With printers, the first big choice is between a **laser printer**, an **inkjet printer** or a **dot-matrix printer**. **Laser printers** are more expensive, but have much higher print quality and resolution, and are best for professional and graphics-intensive work. **Inkjet printers** are an affordable alternative, with print quality that comes close to laser printing. **Dot-matrix printers** are the standard for general-purpose use. Look for a dot-matrix printer with **24 pins** to get the best print quality.



## Peripherals

There are many devices that you can install inside your computer in order to increase your computer's versatility. A few examples:

**Modem or fax/modem**—a modem allows your computer to be "**online**" (connected) with other computer systems and dial-up services. A modem equipped with a fax feature also lets you send and receive faxes.

**CD-ROM drive**—software available on CD-ROM discs expands your computer's potential enormously, often using advanced graphics and animation. CD-ROM programs include interactive games, databases, even complete encyclopedias with digital sound and full-motion video.

**Sound card**—allows your computer to record and play back music and speech through audio speakers.

**Multimedia kit**—brings out your computer's full potential. Includes a CD-ROM drive, a sound board, magnetically shielded speakers, connecting cables and software.

**Extra memory**—improves your computer's performance by adding system RAM.

**Hard drive**—as you keep adding software to your computer, you may begin running out of storage space. You can replace your hard drive with a larger one, or add an additional drive.

**Floppy drive**—if you exchange data with older computers, you may need to add a 5¼" 1.2MB floppy drive to your system.

## Accessories

**Protection and maintenance** accessories include dust covers, head cleaning kits for disk drives, disk boxes and spike protectors. There are also many **comfort and productivity** accessories like printer supports, mouse pads, wireless mice, copy holders, monitor filters, letter trays, wrist rests, and furniture.

## Supplies

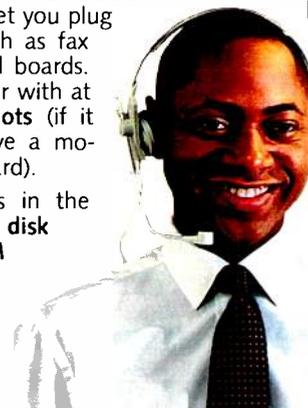
These are the "consumable" items all computer users need, including **floppy disks, printer ribbons, printer paper and labels**. Stop by **Radio Shack** to choose from our large selection of these items whenever you need them.

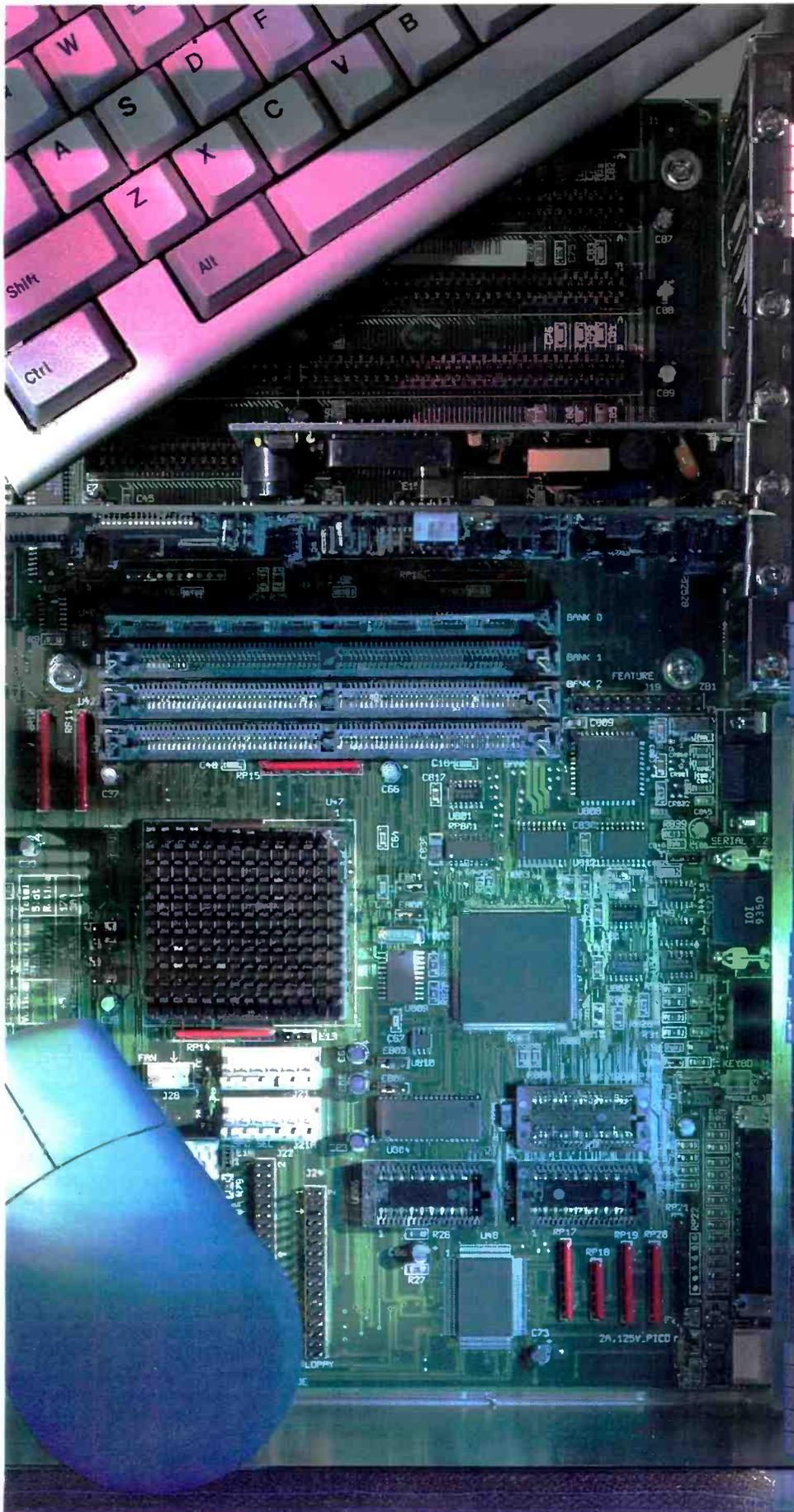
## Service

Let's face facts—all computer systems may need service at some point. **Who does the service is what's important.** Computer companies either have a dedicated team of service technicians, or they contract service work to outside companies. **Radio Shack** has its own professionals that are thoroughly trained to service Tandy computers, and if you choose to buy a brand-name computer from Radio Shack, it will be fully serviced and supported by the manufacturer of that brand.

## Support

You've got questions. We've got answers. **Support** is what you need to solve your computer problems. Every computer we sell is backed by knowledgeable salespeople and expert service and support specialists who can diagnose and fix many problems over the phone.





# The Perfect PC

... is the one you design yourself!

What's your idea of the perfect computer? Radio Shack offers you the chance to put your ideas into action by giving you all of the options. We provide the basics with a high-powered "shell"—choose the platform that makes sense for you and start building from there.

Power users will love the freedom of choice, but if you're unsure of the exact specs you need, never fear—if you've got questions, we've got answers. We'll be happy to help you select the options and peripherals that offer you the right combination of value, features and performance. And Tandy Service Centers can even professionally install the options you choose. For example, to complete *your* dream system, you might add:

- **A hard drive**—choose anywhere from 340MB to 1GB! See page 195.
- **Multimedia devices**—a CD-ROM drive, sound card, or complete MPC kit. See page 194.
- **More memory**—to make sure you have enough RAM to run today's most advanced applications. See page 195.
- **A fax/modem**—get connected to the world and send faxes, e-mail and link to online services. See page 200.
- **Your choice of monitors**—including Super-VGA and full-page vertical monitors. See page 193.
- **Additional 3 1/2" or 5 1/4" floppy disk drives.** See page 195.

And of course, we offer hundreds of software options with our in-store selection *and* our exclusive Express Order program which delivers your selection right to your door.

So come into Radio Shack today—we're waiting to help you design your own version of the "perfect PC".

# ADVANTAGE! ADVENTURE 6066d



Stereo speakers and microphone included!

**NEW** The AST Advantage!  
Adventure 6066d  
Multimedia PC

Take the adventure of a lifetime with this very special multimedia PC. The features are astounding, with room to add even more! Here's everything you could want in an MPC: 486DX processor, 66MHz clock speed, 8MB RAM, 1MB VRAM, a 420MB hard drive, dual speed CD-ROM drive with Photo CD compatibility, a 14.4bps fax/data/voice modem, local bus video, a SoundBlaster audio card, microphone and speakers.

A wealth of software was hand-picked and bundled especially for the AST

Advantage! Adventure 6066d—a collection of programs so useful you can make them an important part of your lifestyle (see next page).

With all these features, the Adventure is much more than an "ordinary" MPC. Although its power and PC compatibility make it perfect for a home office, it's also the perfect family PC. Interactive multimedia computing brings applications to life—there are hundreds of MPC programs available. Young children can discover the fun of learning through programs that feature vivid characters, activities, images and sounds. Older kids will explore a wealth of information and reference material. It actually makes research fun!

You'll enjoy all that the AST Advantage! Adventure 6066d has to offer, whether your needs are for business, education or recreation. Experience *this* Adventure today! (TSP) 25-404 . . . . . 1999.00

**Add a monitor and save**

Save \$49.99 on AST Advantage! Adventure 6066d with 14" CRT (13.2" viewable diagonal) Super-VGA 39mm color monitor. Reg. separate items 2248.99 25-404/4091 . . . . . 2199.00

Save \$99.99 on AST Advantage! Adventure 6066d with 14" CRT (12.9" viewable diagonal) Super-VGA 28mm color monitor. Reg. separate items 2398.99 25-404/4094 . . . . . 2299.00

Save \$99.99 on AST Advantage! Adventure 6066d with 15" CRT (13.7" viewable diagonal) Super-VGA 28mm color monitor. Reg. separate items 2598.99 25-404/4095 . . . . . 2499.00

There are 6,500 Radio Shack stores and dealers to serve you.

**Question:**

What is multimedia computing—and what can it do for me?



**Answer:**

Multimedia computing offers exciting interactive programs with dynamic graphics, full-motion video and digital sound. Imagine, for example, a moving, talking encyclopedia, complete with sound, pictures and animation. Multimedia uses an information-handling breakthrough that unlocks the potential of the computer through CD-ROM, allowing your PC to become a rich, one-on-one interactive environment. Come to Radio Shack to discover the magic of multimedia and what it can do for you!

**Question:**

How can I use this computer for communications?

**Answer:**

With its 14.4K-bps fax, modem and unique StarCom software, the AST Advantage! Adventure 6066d can serve as a sophisticated home telecommunications center. Send and receive faxes and use it as an advanced Voice Mail answering system. You can even use Caller ID\* to screen your calls, verify your messages and even leave personalized messages for specific callers. Plus, there are advanced answering machine features, like toll-saver, handset recording/playback, distinctive ring, alphanumeric paging and even a speakerphone function. You can access an electronic address book and calendar by phone, and have it "read" your schedule to you. You also get voice message forwarding and fax forwarding, especially convenient when you go out of town.

**Software included with the AST Advantage! Adventure 6066d**

To help you get started, this Advantage is packed with programs that when sold separately cost hundreds more. Pre-installed software includes:

- Microsoft MS-DOS and Windows
- Microsoft Encarta interactive multimedia encyclopedia
- Intuit Quicken SE for Windows financial software
- Microsoft Multimedia Works with word processing, spreadsheet and more
- Multimedia Experience, containing sound effects, photos, fonts, video clips, icons and games
- Prodigy ■ America Online
- CompuServe ■ Lotus Organizer
- Fax Send/Receive Software Utility
- StarCom Communications Software
- AST Works!

Plus, Radio Shack makes many other titles available to you, in store and through our Express Order program.

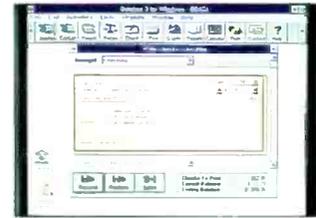
**Work wonders with AST Works!**

The new AST Advantage! Adventure 6066d includes AST Works!, a host of easy-to-use mini-applications that make it amazingly useful in everyday life. The specially designed AST Works! software offers printing applications for making greeting cards, name tags, notices, signs, flyers and banners. There are also applications such as a Mortgage Calculator, Home Inventory, Auto Maintenance, Savings Calculator, Financial Calculator, Loan Calculator and a Diary.

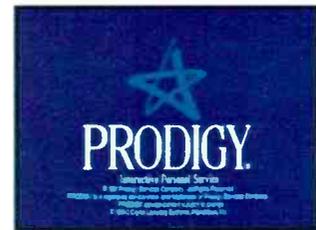
Put it all together, and you have a remarkable system that can improve the way you work, play, learn and communicate.



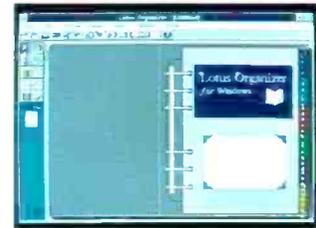
Microsoft Works



Intuit Quicken SE for Windows



Prodigy



Lotus Organizer



America Online



AST Works!



Microsoft Golf

This is just a sample of all the software included with the Adventure. Hundreds of additional titles are available through Radio Shack.

Key Features	AST Advantage! Adventure 6066d, 25-404
Microprocessor	66MHz 80486DX2
Memory	8MB RAM (expandable to 64MB). 1MB video RAM
Storage	3 1/2" 1.44MB floppy drive. 420MB hard drive.
Graphics Support	16-bit local bus video
CD-ROM Drive	Dual speed, multi-session Kodak Photo CD compatible
Sound	SoundBlaster 16-bit
Fax/Data/Voice Modem	14.4K-bps send/receive
Software (included)	MS-DOS, Microsoft Windows, Microsoft Multimedia Works, Microsoft Encarta, Microsoft Golf, Lotus Organizer, Intuit Quicken for Windows, CompuServe, Prodigy, America Online, AST Works!, AST Multimedia Experience, StarCom Communications software with fax utilities, SoftDisk "try and buy" software offer
Open Expansion Slots	One 16-bit ISA
Open Device Bays	One
Built-In Ports	Serial, parallel, mouse, keyboard, game
Keyboard	Deluxe 101-key enhanced
Mouse	Two-button PS/2-style
Power Supply	100 watt, dual voltage

\*Caller ID requires additional service from your telephone company, not yet available in all areas. See page 13 for details.



Monitor and stereo speaker/amp sold separately.

# Experience the Power of Multimedia!

With their amazing sights, sounds and information, Multimedia PCs have become the new standard for home computing. The Tandy Multimedia PC, with all this included software, is a great starter system.

Key Features	Tandy Multimedia PC, 25-1641
Microprocessor	80486SX
Clock Speed	25MHz
Memory	4MB RAM, 512K video
Floppy Drive	3 1/2" 1.44MB
CD-ROM Drive	375ms with multi-session Kodak Photo CD capability
Hard Drive	130MB
Display Modes	SVGA, 640 x 480 in 256 colors. 800 x 600 in 256 colors. 1024 x 768 in 16 colors.
Built-in Audio	Sound Blaster compatible
Bundled Software	MS-DOS 6 with tools, Windows 3.1, Microsoft Works Multimedia edition, America Online, San Diego Zoo Presents... The Animals!, World Atlas, Toolworks Reference Library, Talking Parrot, Intelligent Organ, Bicycle Game Collection
Expansion Slots	2 open slots
Built-in Ports	Game/MIDI port, serial port, parallel port
Keyboard	101-key enhanced, 2-button
Power Supply	145-watt switchable
Footprint (H x W x D)	4.2 x 15.5 x 15"
Certification	FCC Class B, UL listed

**The Tandy Multimedia PC.** Powered by a 25MHz 80486SX microprocessor, this terrific value has the Multimedia PC difference: digital audio, advanced video-style graphics and a high-speed CD-ROM drive that gives you access to amazing amounts of information.

The Multimedia PC lets you explore new worlds, with sights and sounds that ordinary PCs can't offer. Imagine taking your children on a walk through the San Diego Zoo. With the included MPC software, they won't just learn about animals, they'll actually hear a lion's roar, see a baby rhino run, and much more.

Also includes more great software to get you started: Microsoft MS-DOS 6, Windows 3.1 (the industry standard for ease-of-use and productivity) and the

Multimedia version of MS Works. An incredible Multimedia World Atlas and Toolworks Reference Library are included, and there's a fantastic selection of MPC software available on CD-ROM (see pages 205 and 208). This powerful 100% IBM PC compatible offers a full complement of high-performance features (see chart at left) and is even Kodak Photo CD™ compatible, so you can view CD photos right on the monitor. Was \$1599.00 in 1994 Catalog (TSP)  
**25-1641 . . . . . New Low Price! 1199.00**  
**MMS-10 stereo speaker/amp** (shown above). **25-1096 . . . . . 79.99**  
**256K x 16 70ns DRAM.** Upgrade video memory from 512K to 1MB (requires 2 kits). **25-1082 (NP) . . . . . 39.99\***

Next to your PC, nothing beats a Tandy printer—see page 197. \*May be special-ordered in some stores. The Intel Inside logo is a trademark of Intel Corp. †Requires speakers or speaker/amp, sold separately. ‡Requires additional software.



# Notebook PCs Deliver Power to Go

Come to Radio Shack for the best name-brand notebook computers on the market. These computers will give you the option to stop "all-nighters" at the office and finish work more comfortably at home.

We can tailor a solution to your exact needs with the winning combination of performance, features and value.

In 1983, Radio Shack became one of the very first providers of notebook computers. Today, we're continuing to move forward by offering some of the most advanced name-brand notebook computers on the market. These notebooks can do almost anything desktops can—and can do it anywhere!

Today's notebooks have more energy-efficient processors, higher quality displays, longer battery life and bigger hard drives than ever before. They also have more options for you to consider. Here are a few of the most important features you should look for in a notebook computer:

### Notebooks and subnotebooks

Notebooks aren't the only portables to choose from. Subnotebooks are now available. Subnotebooks are smaller, lighter computers, but give up some conveniences like a larger screen, a standard-size keyboard and an internal floppy drive.

### CPU power

The power of a notebook's CPU is vital. A 25 MHz (or even faster) 486-class CPU is recommended—it's engineered for energy efficiency, high performance, long battery life and will provide fast processing and crisp graphics. If your notebook is used solely for word processing, then a less expensive, less powerful CPU may be all you need.

### Hard drive storage

Hard drive space is something you can never have enough of, so get as much as you can afford. A 100MB hard drive is enough for most uses, but a 200MB drive or bigger is better.

### Memory

Memory is another instance where more is better. 4MB RAM can handle Windows and most applications. However, 4MB expandable to 8MB is a wise investment.

### Video display

If you don't need color, a monochrome display with 64 or 256 shades of gray provides a clear picture at low cost. For color, the active (TFT) type display is brightest and fastest. Passive (STN) color is not as vibrant but costs less and uses less power. Dual-scan (D-STN) is a good compromise between TFT and STN displays.

### Other options

If you plan on using Windows, you'll need a built-in pointing device, such as a trackball or joystick. If you plan on going "on-line," a fax/modem (either standard or as an option) is essential. In addition to having parallel printer and serial ports, make sure you can connect an external keyboard and monitor. If connecting to a network or using an external hard drive or modem is important, consider a notebook computer with a PCMCIA expansion slot.

For more information about these or other notebook features, visit Radio Shack and talk to a member of our knowledgeable sales staff. If you've got questions, we've got answers!

## Accessories and upgrades for Tandy® notebook computers

### Replacement batteries

For Tandy 1100 FD/1110 HD. (CMC) 25-3536	44.99
For Tandy 1400 LT. (CMC) 25-3520	79.99
For Tandy 1400FD/1400 HD. (CMC) 25-3521	79.99
For Tandy 1500, 1800, 2810, 2820, 3800, 3810 and 3820HD. (CMC) 25-3526	79.99
For Tandy 2800 HD. (CMC) 25-3556	49.99
For Tandy 3830 SL. (CMC) 25-3579	199.99
For Tandy 3900, 3950, 3950C. (NP) 25-3584	99.99
For Tandy 4800/4860 HD. (CMC) 25-3541	109.99

### Memory upgrade kits

1MB. For 1500/2810/3810. (NP) 25-3507	199.99
2MB. For 1800 HD/3800 HD. (NP) 25-3504	259.99
1MB. For 2800 HD. (NP) 25-3554	399.99
2MB. For 2820/3820/3830. (NP) 25-3508	219.99
6MB. For 3820 HD/3830 SL. (NP) 25-3527	499.99
2MB. For 3900. (NP) 25-3582	199.99
6MB. Upgrades 3900, 3950, 3950C to 8MB. (3950/3950C requires removal of one existing 2MB SIMM) (NP) 25-3585	569.99
4MB. For 4800/4860. (NP) 25-3543	399.99
8K RAM module for PC6. (NP) 26-3674	19.99
32K upgrade for WP101. (NP) 26-3971	69.99

### Modems

2400 BPS/9600 send/receive fax/modems.	
For Tandy 1500, 1800, 2810, 2820, 3800, 3810, 3820 and 3830. (CMC) 25-3532	249.99
For Tandy 2800 HD. (CMC) 25-3555	199.99
For Tandy 3900, 3950/3950C. (CMC) 25-3581	199.99
For Tandy 4800/4860. (CMC) 25-3542	299.99

### Notebook accessories

AC adapter. For Tandy 102/200 (NP) 26-3804	6.99
Battery charger. For 25-3526 batteries. Requires AC adapter. Charges two batteries. (CMC) 25-3537	189.99
Mini-trackball. For Tandy 4800/4860 HD. (CMC) 25-3545	89.99
Universal carry case. 25-3512	39.99
PC5/6 interface cable. (NP) 26-3671	16.99

# EXPRESS ORDER

Have popular name-brand computer products delivered directly to your doorstep when you select from the Express Order catalog at Radio Shack. We have hundreds of competitively priced computer products and accessories available from top manufacturers.



## Mustek

Mustek, Inc. is an industry leader in the manufacturing and marketing of image scanners for both IBM® PC-compatible and Macintosh® computers. Mustek carries the widest selection of image scanners available, and with each scanner you'll get all the software, hardware, and technology needed to maximize your scanning capabilities.



## APC

AMERICAN POWER CONVERSION

The world's best value in UPS protection is APC Back-UPS, and it's available to you via Express Order. Back-UPS will end data loss and system damage due to blackouts, brownouts, sags and spikes by providing instantaneous backup power for your computer. Back-UPS has over one million satisfied customers and backs its product with a two-year warranty.



## TEXAS INSTRUMENTS

Texas Instruments offers two new series of laptop computers with processors ranging from 25MHz to a racy IntelDX4™/75MHz. Both series feature computers with an integrated pointing device and built-in PCMCIA slot. The multimedia-ready 4000M series offers an option for a double-speed CD-ROM drive and built in stereo speakers.



## MicroSolutions

Get extra hard drive storage, have the ability to read floppies and tapes or experience the power of CD-ROM with a Backpack external drive from MicroSolutions. They're totally portable and attach easily to your computer's printer port. MicroSolutions Backpack drives work with any IBM PC-compatible computer and you won't lose the use of your printer.

## Available Expressly for You!

Express Order offers many of today's most popular software titles.



Radio Shack's Express Order catalog features hundreds of the newest and the most popular software titles—all competitively priced and available with delivery direct to your doorstep.

Software available from Express Order includes titles from Microsoft, Wordperfect, Lotus, Broderbund, Psygnosis, Borland, Corel, Quarterdeck, Norton Lambert, Autodeck, Symantec, Claris and Adobe.

Our comprehensive catalog is updated regularly. So, if you can't find a new software title, just ask us—it's probably a new arrival.

### Shopping the Express Order catalog is convenient and easy.

Ordering great computer products directly from your nearby Radio Shack is simple. Come in and look through the catalog at the Express Order display located within the store.

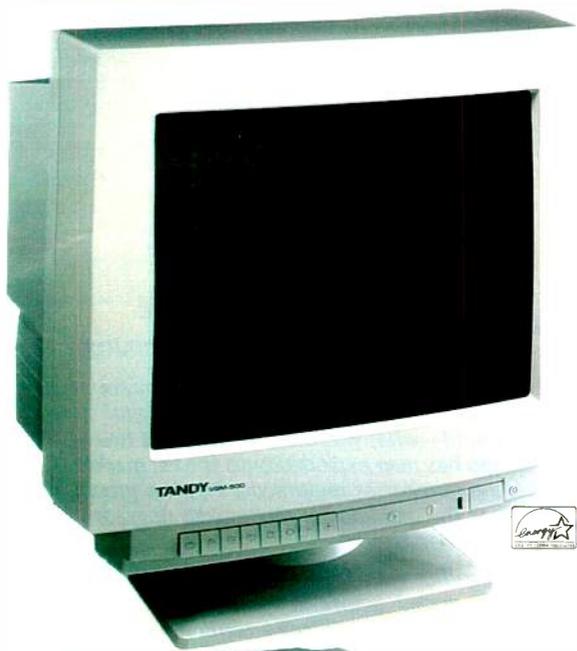
Once you've found the product or products you want, simply have one of our knowledgeable staff help you complete your order.

Experience the benefits of Express Order at the Radio Shack nearest you. You'll find that the huge selection of fine products and our direct delivery to any U.S. location is the ultimate in convenience.



These are just a few of the many other great companies Express Order represents:





**NEW Super-VGA color monitor with MPRII**

**VGM-500.** 15" CRT (13.7" diagonal viewable size). Our finest Super-VGA monitor features front-panel digital controls. This high-resolution color monitor displays characters and graphics in a virtually unlimited number of vivid colors! You'll get a sharp, flicker-free picture with a dot pitch of .28 mm. The VGM-500 is compatible with a wide variety of video standards, including VGA, Super-VGA, 8514/A and 1024 x 768 non-interlaced graphics adapters. Its non-glare screen is low-static, to reduce dust accumulation. Very-Low-Magnetic Field (VLMF) meets strict MPRII emission standards and reduces exposure to emissions. Energy Star design reduces the amount of power consumption when used with a compatible computer. Tilt/swivel base included. (TSP)

25-4095 ..... 599.99

**NEW VESA and Energy Star compliant Super-VGA color monitor**

**VGM-470.** 14" CRT (12.9" diagonal viewable size). You have a great computer, why not top it off with a great monitor? In fact, why not top it off with one of the best we have to offer? This Super-VGA monitor has a .28 mm dot pitch to deliver stunning graphics in sharp flicker-free detail. Features a non-glare anti-static screen with extra shielding for reduced emissions at Very-Low-Magnetic Field (VLMF). Compatible with VGA, Super-VGA, 8514/A, VESA VGA at resolutions of up to 1024 x 768 non-interlaced. Front-panel controls. Meets Energy Star standards for reduced power consumption when used with a compatible computer. Tilt/swivel base. (TSP)

25-4094 ..... 399.99

**Budget-priced Super-VGA VESA-compliant color monitor**

**VGM-390.** 14" CRT (13.2" diagonal viewable size). Contrary to popular belief, you don't have to spend a fortune to get the vibrant colors and sharp detail of a Super-VGA monitor. This high-resolution Super-VGA color RGB analog monitor delivers crisp characters and graphics in a virtually unlimited number of colors. The .39mm dot-pitch display is noninterlaced in most modes for flicker-free transmission and the highest possible resolution. Front-panel brightness and contrast controls let you adjust the picture to suit the room's lighting. Compatible with a wide variety of video standards including VGA, Super-VGA, and 8514/A. Non-glare screen. Tilt/swivel base included. Was \$399.99 in 1994 Catalog. (TSP)

25-4091 ..... New Low Price! 249.99

**Full-page monochrome VGA monitor is great for desktop publishing!**

**VGM-150.** 15" CRT (12.4" diagonal viewable size). If your computer is used primarily for word-processing, desktop publishing or basic spreadsheets, this low-cost monitor is the perfect choice for you. You'll be able to accurately visualize what a final hard copy will look like *before* you print, due to the paper-white display and crisp, full-page text that's provided by this monochrome VGA monitor. Front-panel controls let you adjust picture to match the lighting in a room. Features tilt/swivel base and non-glare screen for the ultimate in viewing comfort. Complete instructions and long connecting cable make hook-up easy. Does not require special graphics adapter. (TSP)

25-4090 ..... 199.99

# Advanced PC Monitors

For the demands of today's advanced home computers.

Radio Shack answers the call for better PC video graphics with quality VGA and Super-VGA monitors from Tandy.

**Shop Radio Shack for the best in monitors and accessories.**

Whether you're looking for a monitor to make the most of your computer's stunning visual capabilities or simply want a good monitor for everyday use, you'll find that Radio Shack has a wide selection to match your needs and your budget.

Monochrome monitors are the most economical choice—great for text-based applications and basic spreadsheets. VGA color monitors are ideal for engineers or anyone who needs crisp graphics. Super-VGA offers even higher resolution modes.

When buying a monitor, look for anti-static screens, front-panel picture controls and extra shielding at Very-Low-Magnetic-Field (VLMF). Also note that VESA-compliant monitors have met guidelines for picture quality set by the Video Electronics Standards Association, and an MPRII rating shows that a monitor has met strict electrical and magnetic emissions standards set by the Swedish National Council for Metrology and Testing.

Radio Shack also carries many monitor accessories to make viewing easier, more comfortable and more vibrant.

Whatever you're looking for to improve your graphics, you'll find it at Radio Shack. If you can't, just ask, we'll be glad to help you find what you're looking for.

**Video upgrade kit and accessories for your home computer.**

1MB SVGA accelerated video board. Get more productivity from your computer. Upgrades your PC with Super-VGA graphics for faster redraws. (NP) 25-4055 .... 149.99

6' VGA monitor extension cable DB15M-DB15F. Make installation easier. 6' cord lets you place your VGA monitor anywhere on your computer desk. (CMC) 26-255 ..... 14.99

6' CGA monitor extension cable DB9M-DB9F. Make installation easy. 6' cord lets you place your CGA monitor anywhere on your computer desk. (CMC) 26-257 ..... 14.99



**NEW SoundBlaster™ 16-bit audio card package for your PC**

You'll hear the difference when you experience true 16-bit stereo sound from SoundBlaster and your home or business PC! The best 16-bit audio value available, SoundBlaster 16 Value Edition provides everything you need in an audio card. Create multimedia presentations, add sound to interactive software and add music to video productions and training programs with 8- or 16-bit stereo sampling and a CD-ROM interface. Includes software programmable volume control, bass and treble controls plus stereo mixer and music synthesizer for customizing your music. Built-in amplifier. Stereo recording from line-in and CD-audio. MIDI/joystick port. From Creative Labs. (TSP) 25-0201 ..... 129.99



**NEW SoundBlaster Discovery CD™ 16 CD-ROM multimedia kit**

Discovery CD 16. Don't let your family miss out on all the exciting possibilities from CD-ROM multimedia. Embark on incredible adventures with the Discovery CD 16 upgrade kit, an extraordinary educational tool for the PC! It's specifically designed to satisfy the needs of adults, teens and kids alike. Discovery CD 16 features a double speed technology (300 KB/sec transfer rate) CD-ROM drive that has multi-session photo-CD compatibility and access to huge amounts of data plus photo-quality graphics and animation. With SoundBlaster 16 audio card for incredible 16-bit sound, stereo speakers and software including The San Diego Zoo presents . . . The Animals, The Software Toolworks Multimedia Encyclopedia and Aldus Photostyler SE for enhancing and modifying photo images. From Creative Labs. (TSP) 25-0200 ..... 399.99

*Join the Multimedia Revolution*

*Let Radio Shack help change the way you interact with your computer*

*Access to huge volumes of information, full-motion photo-quality video and digital stereo sound—what was unheard of only a few years ago has now exploded onto the PC market. As the number of multimedia PCs has grown, so has the demand for multimedia upgrades and peripherals.*

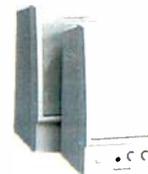
*Together with Creative Labs™, Inc., the world-recognized leader in multimedia peripherals, Radio Shack has made a commitment to make innovative multimedia packages affordable and accessible to you and your family.*

*Creative Labs back their famous SoundBlaster 16 sound card and all their CD-ROM and multimedia upgrade kits with a full one year warranty. Quality Creative products and famous Radio Shack service—just two great reasons to join the multimedia revolution.*



**NEW Creative OmniCD™ Upgrades your PC to CD-ROM multimedia**

Creative OmniCD. Experience the power and versatility of multimedia. Creative Labs gives you everything you need to add state of the art CD-ROM technology to your 386SX or faster PC. You'll get unparalleled performance from the double-speed, multi-session photo CD compatible CD-ROM drive. The OmniCD drive is fully MPC-2 compliant and features a software-controlled automatic loading tray. The CD-ROM drive also features a front-panel headphone jack and volume control so you can listen to your favorite audio CDs while at your computer. The OmniCD package also includes CD-ROM software that makes use of some of the best features of your new CD-ROM drive, so you can enter the world of multimedia right away! (TSP) 25-0202 ..... 239.99



**AMX-16 amplified speaker system**

This 5-watt stereo speaker system is shielded for use with a PC. Comes with AC adapter. 40-1363 ..... Pair 119.99



**Amplified speaker system with Bass Boost**

3.5 watts per channel. 3" woofer and 2" tweeter. Shielded for PC use. Bass Boost. 40-1361 .. Pair 59.99



**AMX-2 amplified speaker system**

Shielded. Includes monitor side mounting brackets. Bass boost. 2-watts per channel output. 40-1359 ..... Pair 29.99



**MMS-10 stereo speaker amplifier**

Get the most from your PC's enhanced sound system! Provides stereo sound with 2 full-range speakers and 1 woofer. Ideal design places speakers between monitor and CPU. Magnetically shielded. Volume, tone, balance and A-B input mixing controls. RCA phono jack. Terminals for adding external speakers. 19-watt system capacity. (TSP) 25-1096 ..... 79.99



**NEW MMS-20 stereo speaker amp**

This stereo speaker amplifier features a 5-band equalizer to custom tailor PC sound to match a room's acoustics or your personal preferences. Each speaker has 2" tweeter for crisp, lively highs. Dual voice coil woofer for greater fidelity over the entire audio spectrum. 24-watt capacity per system. (TSP) 25-1109 ..... 99.99



**PC sound system plus**

The affordable PC sound board and game pack. Sound board is fully compatible with SoundBlaster, ADLib® and Windows 3.1 sound. The system also includes two full-range stereo speakers with mounting brackets, an auto-fire joystick

with suction-cup stabilizers and three popular video games. 25-1701 ..... 79.99



# Ready to Grow?

Upgrading your hard drive may be the best answer for your growing needs.

If your Windows applications are running slower than they ever have, if you're running out of old files to delete and the hard drive you never thought you could fill is full, it's time to upgrade. In addition to the obvious problem of a lack of space on your hard drive, your computer's performance and your productivity are greatly affected by how much room is left on your PC's hard drive.

Today's complex computer software may be part of the blame. Our PCs need more and more memory to run advanced desktop publishing programs and to create computer-aided designs and multimedia applications. As software technology continues to grow, it becomes harder for computers to keep up.

Radio Shack offers a variety of choices for upgrading your hard drive. If you're planning on buying a new computer in a couple of years, a low-priced upgrade may be all you need. However, in other cases it may only be a short-term solution to a long-term problem. The best rule of thumb: buy as much hard disk space as you can possibly afford.

Memory boards... expansion kits... hard drives... the choices to solve your problem can be overwhelming. If you're unsure of the best answer for your computer's growing pains, come talk with a member of Radio Shack's friendly, knowledgeable sales staff. We'll help find the best upgrade to meet your needs and your budget.

## **NEW** The Western Digital® Caviar™ Hard Disk Upgrade Kit—the easy solution to increasing your computer's hard drive capacity

Get the best solution for your computer's "nearly full" hard drive. The Western Digital Caviar Hard Disk Upgrade Kit comes with high-performance 3.5" low-profile AT-IDE drives in several capacities, plus all the necessary hardware: 5.25-inch mounting frame, IDE cable, 5.25-inch faceplate with LED and user guide. Also included with each kit is a free auto-installation software program for quick and easy installation.

Caviar goes above and beyond what's expected in an upgrade kit, as demonstrated by CacheFlow2™, a disk caching system that constantly evaluates the way data is being retrieved from the drive and adapts on-the-fly to the optimum caching method. Other features include logical block addressing—which allows the computer to "break" the 528MB limit—and low power consumption for energy savings.

Caviar's quality disk drives provide the high capacities as well as the performance and power conservation required by today's complex computer systems: a sound assurance for

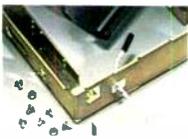
all the important data you keep stored on your computer's hard disk.

Caviar drives provide the highest level of compatibility in the industry because they are tested with a wide range of operating systems, applications software, other peripherals and computers in Western Digital's FIT™ Lab.

Don't risk losing information. Don't worry about deleting files to save space, and don't waste time with an upgrade kit that's too small for your needs. Solve the problem easily and effectively with the Caviar system.

The upgrade kit is backed by a 3-year warranty, the best warranty in the computer industry. Plus, Western Digital has an award-winning customer support phone line to answer any questions you may have about your upgrade kit—open Monday through Saturday with an electronic bulletin board available 24 hours.

- 1 Gigabyte HD kit. (TSP) 25-0104 ... \$799
- 540MB HD kit. (TSP) 25-0103 ... \$449
- 340MB HD kit. (TSP) 25-0101 ... \$299
- IDE XT-AT adapter. (TSP) 25-1095 ... \$9.99



Complete set of mounting hardware & cables.



Just a few easy steps & you're ready



Simple setup with installation software

## PC memory and storage accessories

- External 3.5" 720K drive for EX/HX. (CMC) 25-1061 ... 99.99
- Internal 3.5" 720K floppy drive. (CMC) 25-1075 ... 109.99
- Internal 5 1/4" 1.2MB floppy drive. (CMC) 25-4050 ... 119.99
- Internal 3.5" 1.44MB floppy drive. Industry-standard. With 5 1/4" mounting kit. Fits 25-1624, 25-1632/33, 25-1640/41, 25-1651, 25-5000, 25-5140/45, 25-5160, 259-5146 through 259-5150, 259-7706 through 259-7717. (CMC) 25-4054 ... 99.99
- 128K memory kit. Upgrades the Tandy 1000TX and TL series from 640K to 768K RAM, the Tandy 1000SL from 384K to 640K (requires two kits), and the Tandy 1000SL/2 from 512K to 640K. Contains four 64K x 4 DRAMS. (NP) 25-1078 ... 29.99
- 256K memory kit. Upgrades Tandy 1000SX from 384K to 640K. Eight 256K x 1 DRAMS. (NP) 25-1079, 39.99

- 256K memory kit. Upgrades the Tandy 1000RL from 512K to 768K RAM. Contains two 256 x 4 50ns DRAM chips. Upgrades video from 512K to 1MB (requires 2 kits) for the Tandy 4800 series and 25-1640/1641 MMPC desktops. (NP) 25-1082 ... 39.99
- 512K ZIP memory kit. Adds 512K RAM to the Tandy 1000RLX. Four ZIP chips. (NP) 25-1083 ... 59.99
- 2MB memory kit. 2 1 x 9 60ns SIMMs. (NP) 25-5137 ... 149.99
- 4 MB memory kit. Contains one 1 x 32 70ns SIMM. (NP) 25-5138 ... 199.99
- 8MB memory kit. 2 4 x 9 60ns SIMMs. (NP) CFSYMBD 25-5136 ... 329.99
- 8MB memory kit. Contains one 2 x 32 70ns SIMM. (NP) AX259-7220 ... 439.99
- 64K cache memory for Tandy 4100MT. (NP) AX259-7230 ... 49.99
- 256K cache memory for Tandy 4100MT. (NP) AX259-7232 ... 99.99

- 512K video memory upgrade. 256K x 16 70ns PSSJ DRAM. Use one kit to upgrade the Tandy 3200 from 512K to 1MB video memory. For the Tandy 4100MT, use one kit to upgrade video memory from 512K to 1MB, two kits to upgrade from 1MB to 2MB, or 3 kits to upgrade from 512K to 2MB. (NP) AX25-9999 ... 39.99
- PLUS RS-232 adapter for Tandy 1000 EX/HX (NP) 25-1031 ... 59.99
- SmartWatch automatic time/date entering system for Tandy 1000SL, 1000RL, 1200HD (NP/CMC) 25-1033 ... 39.99
- Memory PLUS expansion adapter. Adds 384K to Tandy 1000EX or HX. (NP) 25-2062 ... 189.99
- 0K memory board. For 4016DX, 4020LX, 4025LX, 4033LX. Uses up to four 25-5136 or 25-5137 SIMM kits. (NP) 25-6030 ... 109.99

### Printing labels

Print labels quickly and easily. Pack of 1000 labels. **26-1328** ..... **6.29**

### Computer paper

Pack of 1000 sheets. White, letter-size (9 1/2" x 11"), 20lb. weight. **26-134** ..... **11.99**



### Print 'n Press iron-ons

Design your own t-shirts! Make a design on your computer, place a transfer sheet in the printer, print it, then iron on the design. Includes five blank iron-on transfer sheets. **26-1437** ..... **5.99**



### Get on a roll! Stock up on paper

Type	Size	Rolls-per-Package	Cat. No.	Price
Thermal Paper	4 1/8" x 80'	2	26-1332	<b>5.49</b>
Electrostatic Paper	8 1/2" x 75'	3	26-1333	(CMC) <b>10.99</b>
Thermal Paper	2 3/8" x 75'	2	26-1412	(CMC) <b>11.99</b>
Electrostatic Paper	4 1/2" x 150'	3	26-1428	(CMC) <b>6.49</b>
Thermal Paper	2 1/4" x 7'	5	26-3592	<b>2.49</b>
Electrostatic Paper	1 3/4" x 18'	6	26-3506	(CMC) <b>2.29</b>
Thermal Paper	2 1/4" x 30'	6	26-3606	(CMC) <b>2.99</b>

### Tandy laser printer accessories and supplies

Laser Printer	Part/supply	Cat. No.	Each
Tandy LP 1000	LP 1000 Toner	26-2807	<b>27.99*</b>
	LP Kit A	26-2805	(CMC) <b>199.99</b>
	LP Kit B	26-2806	(CMC) <b>99.99</b>
Tandy LP 950/990	Sheet Feeder (Requires 26-2860 and 26-2863)	26-2861	(CMC) <b>229.99</b>
	Envelope Feeder	26-2862	(CMC) <b>259.99</b>
	Letter Paper Cassette	26-2863	(CMC) <b>59.99</b>
	Legal Paper Cassette	26-2860	(CMC) <b>59.99</b>
	1.5MB Memory Upgrade	26-2852	(NP) <b>599.99</b>
	Toner Cartridge	26-2841	(CMC) <b>64.99</b>
	Developer Cartridge	26-2843	(CMC) <b>149.99</b>
	Drum Cartridge	26-2842	(CMC) <b>149.99</b>
	Font Cards:		
	"B"	26-2854	(CMC) <b>139.99</b>
	"E"	26-2855	(CMC) <b>179.99</b>
	"L"	26-2857	(CMC) <b>179.99</b>
	"M"	26-2856	(CMC) <b>179.99</b>
	"N"	26-2858	(CMC) <b>179.99</b>
"P"	26-2859	(CMC) <b>179.99</b>	
Tandy LP 800	Toner Cartridge	26-2894	(CMC) <b>23.99</b>
	Drum Kit	26-2895	(NP) <b>119.99</b>
	Developer	26-2898	(CMC) <b>159.99</b>
	2MB Memory Upgrade	26-2893	(NP) <b>399.99</b>
Tandy LP 400/410	2nd Bin Sheet Feeder Letter/Legal Size	26-2902	(CMC) <b>189.99</b>
	Developer	26-2897	(CMC) <b>159.99</b>
Tandy LP 400/410/800	2nd Bin Sheet Feeder Letter-Size Only	26-2901	(CMC) <b>189.99</b>
	1MB Memory	26-2892	(NP) <b>199.99</b>
Tandy LP 410/800	Pagestyler™ PDL Cartridge Postscript Emulation (Requires 3MB memory in printer)	26-2891	(CMC) <b>399.99</b>

### Top-quality printer ribbons

Printer	Ribbon	Cat. No.	Each
LP I, II, IV	Fabric Pack (3/PK)	26-1413	(CMC) <b>19.99</b>
LP III, V	Fabric Cart.	26-1414	(CMC) <b>9.99</b>
LP VI/VIII, DMP 400/420	Fabric Cart.	26-1418	(CMC) <b>9.99</b>
LP VII, DMP 100	Re-inking Fabric	26-1424	(CMC) <b>13.99</b>
PC1	Ribbon	26-3507	(CMC) <b>2.75</b>
DMP 110	Re-inking Fabric	26-1283	(CMC) <b>8.99</b>
DMP 107/130/130A/132/133/134/135	Black Ribbon	26-1236	<b>10.99</b>
DMP 107/130/130A/132/133/134/135	Refill (3/PK)	26-1238	(CMC) <b>14.99</b>
DMP 107/130/130A/132/133/134/135	Color Ribbon Pack	26-1235	(CMC) <b>19.99</b>
DMP 500	Fabric Cart.	26-1482	(CMC) <b>13.99</b>
DMP 120, 200	Fabric Cart.	26-1483	(CMC) <b>11.99</b>
DMP 105, 106	Black Fabric Cart.	26-1288	<b>8.99</b>
DMP 136, 240, 250, 207	Black Fabric	26-2824	<b>10.99</b>
DMP 136, 240, 250, 207	4 Color	26-2826	<b>29.99</b>
DMP 202/203/204/205/206	Black Fabric	26-2871	<b>13.99</b>
DMP 137/204/205	4 Color	26-2900	<b>29.99</b>
DMP 310	Black Fabric	26-2878	(CMC) <b>14.99</b>
DMP 430	Black Fabric Cart.	26-1296	<b>14.99</b>
DMP 440	Fabric Cart.	26-2809	(CMC) <b>34.99</b>
DMP 2100, 2100P, 2110	Fabric Cart.	26-1442	(CMC) <b>9.99</b>
DMP 2120	Black Ribbon	26-2834	(CMC) <b>39.99</b>
DMP 2120	Black Refill	26-2836	(CMC) <b>18.99</b>
DMP 2130	Black Fabric	26-2846	(CMC) <b>34.99</b>
LMP 2150	Black Cartridge	26-1287	(CMC) <b>17.99</b>
TRP 100	Black Thermal Film	26-1297	(CMC) <b>7.99</b>
DMP 2104	Black Fabric	26-2869	(CMC) <b>16.99</b>
DW II, DWP 410, 510	Multi-Strike (3/PK)	26-1419	(CMC) <b>19.99</b>
DW II, DWP 410, 510	Nylon Cart.	26-1449	(CMC) <b>7.99</b>
DWP 210, 230, 520	Multi-Strike (3/PK)	26-1445	<b>19.99</b>
DWP 210, 230, 520	Fabric Cart.	26-1458	(CMC) <b>7.99</b>
DWP 220	Multi-Strike (3/PK)	26-1299	(CMC) <b>24.99</b>
DMP 300/302/442/2102/2103	Black Ribbon	26-2819	<b>7.99</b>
DMP 202/203/206	Color Ribbon Pack	26-2907	(CMC) <b>19.99</b>
DMP 2200	Black Ribbon	26-2825	(CMC) <b>22.99</b>
DMP 440	Refill	26-2827	(CMC) <b>19.99</b>
PC-2 Plotter/CGP 115	Black (3/PK)	26-1480	(CMC) <b>2.99</b>
PC-2 Plotter/CGP 115	Color	26-1481	(CMC) <b>2.99</b>
WP-100/101	Black Single-Strike	26-3952	<b>9.99</b>
WP-100/101	Lift-Off Correction	26-3953	(CMC) <b>3.99</b>
WP-100	Black Multi-Strike	26-3954	(CMC) <b>11.99</b>
WP-100	Cover-Up Correction	26-3955	(CMC) <b>6.99</b>
Star® NX1000 & others	Black	26-2908	<b>7.99</b>
Apple® Imagewriter	Black	26-2909	<b>7.49</b>
Apple® Imagewriter	4 Color	26-2910	<b>11.99</b>
Epson® LQ 800	Black	26-2911	<b>7.99</b>
IBM® Proprinter	Black	26-2912	<b>7.99</b>
Panasonic® 1090, 1124	Black	26-2913	<b>10.99</b>
Epson LQ 1000	Black	26-2914	<b>8.99</b>
Epson LQ 100	Black	26-2915	<b>11.99</b>

### Ink-jet printer accessories

#### For the JP 250 printer

Inkjet cartridge. Black. (CMC) **26-2874** ..... **29.99**

Ink refill kit. Black. **26-2916** ..... **29.99**

#### For the JP 500 printer

Ink refill cartridge. Black. Available Oct. 1, 1994. **26-2951** ..... **35.99**

Rechargeable battery pack. (CMC) Available Oct. 1, 1994. **26-2952** ..... **69.99**

#### For the JP 1000 printer

Ink refills. Black. Package of 2. Available Oct. 1, 1994. **26-2961** ..... **10.99**

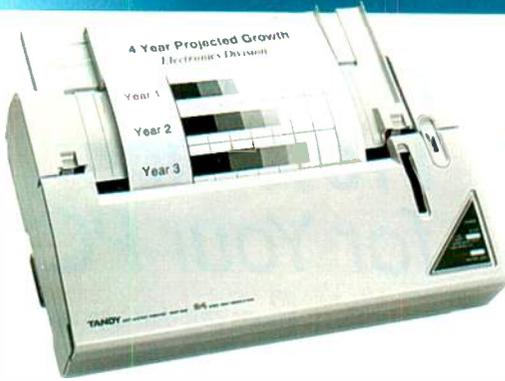
Replacement printhead and ink cartridge. (CMC) Available Oct. 1, 1994. **26-2962** ..... **39.99**

NOTE: Printhead for JP 1000 must be replaced after 7-8 ink refills are used.

Color kit. Available Oct. 1, 1994. **26-2963** ..... **69.99**

Refill cartridge. Color. Available Oct. 1, 1994. **26-2964** ..... **49.99**

\*Special order in some stores. CMC items available through Consumer Mail Center. NP items available through National Parts. See store for details.



**DMP 206.** Prints up to 180 characters per second and 360 × 360 graphics. Features 24-pin print head for high-resolution printing. Epson LQ-850 emulation. Automatic paper loading, push tractor feed for printing with fanfold paper, friction-feed for single-sheet use. 4<sup>9</sup>/<sub>16</sub> × 15<sup>3</sup>/<sub>4</sub> × 9<sup>1</sup>/<sub>4</sub>". (TSP)  
**26-2906** ..... **249.99**



**DMP 203.** Prints up to 240 characters per second and contains four resident fonts. Has 24-pin print head for high-resolution printing. IBM Proprinter X24/24e emulation. Has automatic paper loading, push tractor for fanfold paper, friction-feed for single-sheet use. Only 7.9 lbs. 4<sup>3</sup>/<sub>4</sub> × 15<sup>3</sup>/<sub>8</sub> × 11<sup>3</sup>/<sub>8</sub>". (TSP)  
**26-2880** ..... **269.99**



**DMP 207.** A superb value, this printer really delivers. It's great for home or office, with quality features like 24-pin letter-quality printing, built-in 50-sheet automatic sheet feed, color capabilities†, quiet printing and more. Prints up to 240 characters per second. (TSP)  
**26-2917** ..... **299.99**  
 Tractor feed. (CMC) **26-2918** ..... **39.99**



**DMP 250.** Ideal for school presentations and home or office correspondence. Color-ready† 24-pin print head. Roman and Sans Serif type fonts scalable from 8-40 points. 360 × 360 dpi graphics. Paper park, push tractor with 1" tear, plus pull tractor for bottom and rear feed without paper parking. 5<sup>1</sup>/<sub>2</sub> × 16 × 12<sup>1</sup>/<sub>2</sub>". (TSP) **26-2886** ..... **349.99**



**JP 500.** Small and lightweight with built-in automatic sheet feeder—perfect for travelers. Bubble ink-jet technology produces professional laser-like print quality. Wide selection of resident bitmap fonts and 25 TrueType scalable fonts for Windows. Includes alkaline battery holder, AC adapter and slip case. (TSP) Available Oct. 1, 1994. **26-2950** ..... **399.99**



**JP 1000.** Advanced, graphics-oriented color-ready† printer with bubble ink-jet technology built-in. You can print professional-quality reports and presentations using 28 resident fonts and 25 TrueType scalable fonts. For snap-in color printing, add Color Kit 26-2963 (sold separately—see page 196). (TSP) Available Oct. 1, 1994 **26-2960** ..... **399.99**

Key Features	DMP 206, 26-2906	DMP 203, 26-2880	DMP 207, 26-2917	DMP 250, 26-2886	JP 500, 26-2950	JP 1000, 26-2960
Printing Technology	24-pin dot matrix, impact-type, bidirectional logic seeking	24-pin dot matrix, impact-type, bidirectional logic seeking	24-pin dot matrix, impact-type, bidirectional logic seeking, color ready†	24-pin dot matrix, impact-type, bidirectional logic seeking, color ready†	Bubble ink-jet	Bubble ink-jet, color ready†
Printing Speed	Draft 120 cps (10/12 cpi) Super-speed draft 180 cps (15 cpi) High speed LQ 60 cps (12 cpi) Letter quality 40 cps (12 cpi)	Draft 160 cps (10 cpi) Super-speed draft 240 cps (15 cpi) Letter quality 84 cps (12 cpi)	Draft: up to 240 cps Letter quality 53 cps (12 cpi)	Draft 200 cps (10 cpi) Letter quality 80 cps (12 cpi)	Economy or letter quality 100 cps	Draft 180 cps Letter quality 120 cps
Fonts	Pitch. 10, 12, 15, 17, 20	Pitch. 10, 12, 15, 17, 1	Letter quality: Roman and Sans Serif, scalable 8-40 points; Courier; Prestige.	Roman and Sans Serif, scalable 8-40 points; Script; Draft and Proportional	14 resident bitmap, 25 TrueType	28 resident bitmap, 25 TrueType
Graphics Resolution	360 × 360 dpi	360 × 180 dpi	360 × 360 dpi	360 × 360 dpi	300 × 300 dpi	300 × 300 dpi
Emulations	Epson LQ-850	IBM Proprinter X24/X24e	IBM Proprinter X24e Epson LQ-570/860/2500/2550 Citizen Color, GSX-140 Plus/140/145/130/220	IBM Proprinter X24/24e Epson LQ-850/860/2500/2550 Citizen Color: GSX-140 Plus/140/145/130/220	PCL3 Extended HP DeskJet 500	PCL3/3+ HP DeskJet 500
Input Buffers	32K	12K	8K	8K		
Paper Handling	Push tractor, Single-sheet; Automatic paper loading	Push tractor; Single-sheet; Automatic paper loading	Automatic 50-sheet feeder; Manual feed for single sheet; multi-part forms and envelopes; Optional push tractor; Auto load; Paper park; Auto tear-off	Push tractor; Single-sheet; Pull tractor; Paper park	Automatic sheet feeder	Automatic sheet feeder; Manual feeder for sheets and envelopes
Ribbon/Ink	26-2871 Black	26-2871 Black	26-2824 Black 26-2826 Color	26-2824 Black, 26-2826 Color	26-2951	26-2961 (Refill 2-pack); 26-2963 Color

†See page 196 for color ribbons and ink cartridges, sold separately.



**NEW Power switching system**

**Power center with surge protector.** Consolidates power needs and protects computer and printing equipment from any combination of surges between hot, neutral and ground. Provides line-noise and static-discharge protection for up to 6,000 volts in less than a nanosecond. Built-in shielded phone-line connections offer phone-line spike protection for faxes, modems and phones. Sophisticated circuitry filters out electromagnetic and radio interference caused by common electrical devices. Master switch and surge indicator LEDs. Five grounded outlets with 6' cord. Resettable 15-amp circuit breaker. UL listed AC. Available Oct. 1, 1994. 26-363 ..... 79.99



Increase your productivity

**Expandability—you can connect two printers to one serial port**

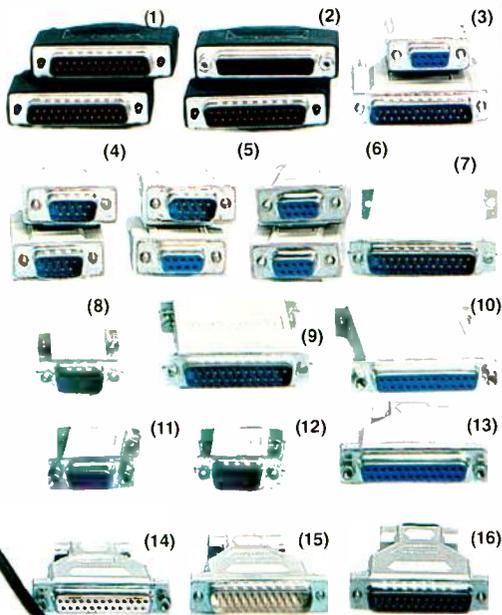
Shielded A/B switch. Lets you select from two devices connected to one serial port. Ideal for easily switching computer from laser printer to dot-matrix printer and back. DB25 female connectors for both input and output. Shielded to reduce signal interference. No external power supply required.

26-115 ..... 24.99\*

# Power-Line Protection for Your PC

Power fluctuations can damage your PC and destroy data. Because power line transients often occur, all electronic equipment is susceptible to a power "hit". We have low-cost, power-surge protection that could save your system!

When dependability is your top priority, come to Radio Shack. If you have misplaced your computer cables, need a handy extension or need a new cable for an upgrade, depend on us. We stock the most-used power cords and cables and our speedy special order department can get you up and running quickly.



**Serial RS-232C cables and adapters get you connected**

No matter which computer, printer or modem you have, see us for the correct cable! Our adapters can save you money when you decide to upgrade your system

Fig.	Description	Connectors	Cat. No.	Each
1	6' Round Shielded	DB25 male/DB25 male	26-249	12.99
1	10' Round Shielded	DB25 male/DB25 male	26-291	(NP) 24.99
1	25' Round Shielded	DB25 male/DB25 male	26-292	(NP) 32.99
1	50' Round Shielded	DB25 male/DB25 male	26-293	(NP) 46.99
1	100' Round Shielded	DB25 male/DB25 male	26-294	(NP) 69.99
2	6' Round Shielded	DB25 male/DB25 female	26-240	12.99
3	6' Round Shielded	DB25 male/DB9 female	26-269	9.99
4	6' Round Shielded	DB9 male/DB9 male	26-116	9.99
5	6' Round Shielded	DB9 male/DB9 female	26-117	9.99
6	6' Round Shielded	DB9 female/DB9 female	26-152	9.99
7	Null Modem Adapter	DB25 male/DB25 female	26-1496	4.99
8	Null Modem Adapter	DB9 male/DB9 female	26-264	3.99
9	Gender Changer	DB25 male/DB25 male	26-243	4.99
10	Gender Changer	DB25 female/DB25 female	26-1495	4.99
11	Gender Changer	DB9 female/DB9 female	26-266	3.99
12	Gender Changer	DB9 male/DB9 male	26-280	3.99
13	Port Adapter	DB25 female/DB9 female	26-265	4.59
14	Port Adapter	DB25 female/DB9 male	26-287	4.59
15	Port Adapter	DB25 male/DB9 female	26-209	4.59
16	Port Adapter	DB25 male/DB9 male	26-1388	4.59

**Power cords**

- (17) 6-ft. CEE cord. 278-1257 ..... 3.99
- 12-ft. CEE cord. 278-1261 ..... 5.99
- 6-ft. shielded CEE cord. 278-1262 ..... 4.99

**Angle connector**

- (18) 6-ft. cord with right-angle CEE connector. Fits where other power cords can't—great for tight spaces. 278-1260 ..... 5.99

**Hard-to-find**

- (19) 6-ft. CEE extension. 278-1259 ..... 4.99
- Cassette recorder cable. For Color Computer. 5-pin to audio. 26-1207 ..... 5.99

**Printer accessories help give your letters and business documents a more professional look while you save time and money!**

- JP 250 sheet feeder. Holds 30 single sheets—perfect for letterhead correspondence. 26-2884 ..... 89.99
- CSF 300 sheet feeder. Adds speed and convenience to single-sheet printing. (CMC) 26-2816 ..... 179.99
- DMP 240 32K RAM kit. Expands memory capability. (NP) 26-2853 ..... 29.95
- DMP 310 battery box. Holds two rechargeable Ni-Cd batteries. (CMC) 26-2877 ..... 59.99
- DMP 310 6V battery. For portable operation of your DMP-310 printer (for use with 26-2877). (CMC) 26-2885 ..... 49.99

**Add Style! Get several print wheels**

Printer	Font	Cat No	Each
DWP 210	Courier 10	26-1467	(CMC) 9.99
DWP 210	Prestige Elite 12	26-1468	(CMC) 9.99
DWP 210	Venezia PS	26-1469	(CMC) 9.99
WP100/WP101	Courier 10	26-3956	(CMC) 16.99
WP100/WP101	Courier 12	26-3957	(CMC) 16.99
WP100/WP101	Pica 10	26-3958	(CMC) 16.99
WP100/WP101	Gothic 10/12	26-3959	(CMC) 16.99
WP100/WP101	Script 12	26-3960	(CMC) 16.99
WP100/WP101	PSG Elite 12	26-3961	(CMC) 16.99

**We can help with hard-to-find printer supplies.**

Print wheels, plotter pens and roll paper for all Tandy and Radio Shack daisy wheel printers and plotters, plus copier supplies, are available by special order. If the items you need are not currently in stock, we will order them for you at no extra charge.

\*May be special order in some stores.



### Printer extender

50-ft. parallel printer extender. Transmission up to 1200'. (1200 ft. cable extra) **26-2903, 49.99\***

### Helpful Accessories

Serial-to-parallel port converter. (CMC) (TSP) **26-2829, 99.99**

Four-way printer switch. (CMC) (TSP) **26-2828, 59.99**

Cable extender. (CMC) **26-2840 . . . . . 29.99**

**Adapters**  
Angled for tight spots.  
90° Right angle. **26-2867 . . . . . 10.99**  
90° Left angle. **26-2870 . . . . . 10.99**

## We have the correct printer cable for any Tandy computer—a Tandy cable!

The interconnecting cable between your computer and printer is just as important as the internal components. You're assured of correct connections with our printer cables. Manufactured to the highest standards using the state-of-the-art materials and superior craftsmanship.

Fits	Description	Length	Cat. No	Each
Tandy 1000 Series (Except RL/RLX and TL/3)	Edge Card/36-pin Tandy port for most Tandy printers	6' S	26-225	<b>19.99*</b>
	Edge Card/36-pin IBM port	12' S	26-222 (CMC)	<b>24.99</b>
		6' S	26-289	<b>19.99*</b>
Tandy 1000 RL/RLX/TL3/3000/4000/5000/MPC/Sensation/WP-2 IBM All Tandy Laptops	25 pin male/Tandy port for most Tandy printers	6' S	26-227	<b>11.99</b>
		12' S	26-223 (CMC)	<b>17.99</b>
	25-pin male/36-pin IBM port	6' S	26-288	<b>11.99</b>
		12' S	26-1258	<b>14.99</b>
Color Computer/MC-10	4-pin DIN/4-pin DIN Special Serial Cable	6'	26-3020 (CMC)	<b>5.99</b>
Model I/III/4/4P/4D	Edge Card/36-pin Tandy port	6'	26-1401 (CMC)	<b>19.99</b>
Model II/12/16/16B/2000/6000	34-pin female header/36-pin Tandy port	6'	26-4401 (CMC)	<b>19.99</b>
Extension Cable for 26-2840	36-pin male/36-pin male. Requires 26-2840	25'	26-290 (CMC)	<b>39.99</b>
Models 100/102/200/600	Printer Cable 26 pin female/36 pin male	6'	26-1409 (CMC)	<b>14.99</b>
Models 100/102/200/600	Modem Cable	4'	26-1410 (CMC)	<b>19.99</b>
Color computer 3	Cassette recorder 5 pin to audio	3 1/2'	26-1207	<b>5.99</b>

Note: An "S" after the cable length indicates shielded round cable



## Tandy Printer Cable Quick Reference Chart—The fastest and easiest way to find the cable you need!

If you move or reorganize your computer workcenter, you may need cables of different lengths to accommodate the changes. This handy quick-reference chart will help you pick the exact cable your system requires, and includes listings for older printers.

Computer	Tandy 1000 RL/RLX/TL3/3000/4000/5000/MPC/Sensation/WP-2 IBM/All Tandy Laptops	Tandy 1000 Series (Except RL/RLX/TL3)	Color Computer MC-10	Model I / III 4/4P/4D	Model II/12/16/16B/2000/6000	Model 100/102/200/600
Printer	6 feet/12 feet	6 feet/12 feet	6 feet	6 feet	6 feet	6 feet
CGP 200			26-3020	26-1401	26-4401	26-1401
HP 215			26-3020	26-1401	26-4401	26-1401
JP 250, JP 500, JP 1000	26-288/26-1258	26-289/26-1259		26-1401	26-4401	
LMP 2150				26-1401	26-4401	
LPI/LPIII/LPIII				26-1401	26-4401	
LPIV/LPV/LPVI				26-1401	26-4401	
LPVII/LPVIII			26-3020	26-1401	26-4401	
LP 400/410	26-288/26-1258	26-289/26-1259				
LP 800/950/990	26-288/26-1258	26-289/26-1259				
LP 1000	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 100/105/106 107/110	26-227/26-223	26-225/26-222	26-3020	26-1401	26-4401	26-1409
DMP 120/130 130A/132/133	26-227/26-223	26-225/26-222	26-3020	26-1401	26-4401	26-1409
DMP 134/135 136/137	26-288/26-1258	26-289/26-1259				
DMP 135	26-288/26-1258	26-289/26-1259				
DMP 136	26-288/26-1258	26-289/26-1259				
DMP 137	26-288/26-1258	26-289/26-1259				
DMP 200	26-227/26-223	26-225/26-222	26-3020	26-1401	26-4401	26-1409
DMP 202/203/204 205/206/207	26-288/26-1258	26-289/26-1259		26-1401	26-4401	26-1409
DMP 240/250	26-288/26-1258	26-289/26-1259				
DMP 300	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 302/310	26-288/26-1258	26-289/26-1259				
DMP 400/420 430/440/	26-227/26-223	26-225/26-222	26-3020	26-1401	26-4401	26-1409
DMP 442	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 500	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 2100/2100P/2102	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 2103/2104	26-288/26-1258	26-289/26-1259				
DMP 2110/2120	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DMP 2130	26-288/26-1258	26-289/26-1259				
DMP 2200/DWII	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
DWP 210/220/230	26-227/26-223	26-225/26-222	26-3020	26-1401	26-4401	26-1409
DWP 410/510/520	26-227/26-223	26-225/26-222		26-1401	26-4401	26-1409
TP 10/TRP 100			26-3020			

CMC items available through Radio Shack Consumer Mail Center. \*Special order in some stores

### Internal 2400-bps modem with 9600/4800-bps send/receive fax

Save time by faxing directly from your PC! Receive, view and edit fax documents right on your computer—saves paper! Sends at 9600 bps and receives faxes at 4800 bps through your PC. Automatically determines incoming calls as fax/modem calls. Asynchronous 2400/1200/300-bps data modem. Modem has V.42 bis and MNP 2-4 error correction support to ensure continuous error-free transmission. Includes fax and communication software on 3 1/2" high-density disk. 25-3027 ..... 79.99

### NEW Int. multiple-speed modem with 14,400-bps send/receive fax

Super speed for your faxes! Compatible for fax and data over all international telephone lines. Multispeed data modem has 14,400, 12,000, 9600, 7200, 4800, 2400, 1200 and 300 bps. Pulse/tone detection auto-adjusts to appropriate dialing conditions. Two phone jacks allow you to share voice and data on a single line. Auto-mode detection with step up and step down. Non-volatile RAM stores up to 4 dial strings of up to 36 digits each. Compatible with all major communication software. With fax modem software disk, phone cable and manual. 25-3036 ..... 119.99

### Pamper your wrists!



#### Keyboard wrist rest

Positions hands properly to help reduce keyboarding fatigue. Select from three angles for maximum typing comfort. May help relieve symptoms of Carpal Tunnel Syndrome. 26-329 ..... 12.99



#### NEW Padded wrist rest

Cushions your wrists with soft foam padding. Elevates your wrists to the ideal typing angle. May help relieve symptoms of Carpal Tunnel Syndrome. Non-slip base stays put on your desktop. 26-359 ..... 7.99  
Enhanced PS/2-style keyboard. As shown above. (NP) 25-4032 ..... 99.99\*

### For your monitor and keyboard



#### NEW Glass filter

Reduces glare with increased light transmission. Perfect for VGA high-resolution monitors. Adjustable clip for easy mounting. Fits all 14" and 15" monitors. 26-358 ..... 39.99



#### Mesh filter

Helps prevent eye-strain and fatigue brought on by reflected room lighting. Improves screen contrast. Fits any screen up to 14". 26-338 ..... 19.99

#### Keyboard adapters

(1) Connects AT 5-pin M(KBD) to PS/2 6-pin F(CPU). (CMC) 26-142 ..... 4.99\*  
(2) Connects PS/2 6-pin M(KBD) to AT 5-pin F(CPU). (CMC) 26-143 ..... 4.99\*



#### Keyboard/mouse cable

Six-foot shielded. For keyboard or mouse. 26-149 ..... 8.99

### Question: What is the "Information Superhighway"?

Q&A

#### Answer:

What started out several years ago as the Internet—a complex computer network designed to link military bases and universities—has grown into an intricate web of networks called "The Information Superhighway", and everyone wants to hitch a ride.

In the not-too-distant future, communicating via letters and faxes may be passe. At this moment, thousands of notes and files, volumes of information are being transferred back and forth all across the country—electronically.

### Question: What is "e-mail"?

#### Answer:

Through electronic mail, or "e-mail", computer users are able to send and receive not only messages, but even lengthy text documents and graphics files. When contacting someone via e-mail, your message will always get through—no busy signals, no holding and no phone tag.

### Question: How can I get an e-mail address of my own?

#### Answer:

With a computer modem and one of the many great online services (see page 209), you can communicate and share news, work and ideas with over 20 million people around the globe.



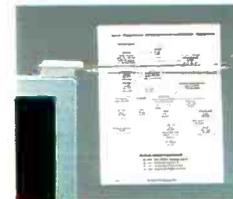
#### Monitor-top file tray

Reduce desk clutter and make your files easier to reach. Tray mounts securely on top of your monitor. Easy assembly. 26-330 ... 12.99



#### Put your monitor on a pedestal

Lets you adjust monitor for comfortable viewing. Base measures 11 x 10". 26-1369, 16.99

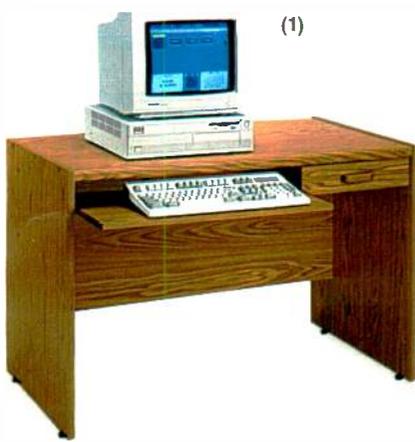


#### Copy holder

Tilts and swivels for best reading angle. Mounts on either side of monitor. 26-336 ..... 4.99

**EXPRESS ORDER**

See our in-store Express Order Catalog for more computer accessories.



(1)

### Space-saving workcenter desk

(1) Easy-to-assemble desk for your complete computer system. Has drawer for floppy disks and other small items—keeps your desktop clear. Keyboard shelf slides under your desktop for space-saving convenience. Includes illustrated assembly instructions. Compact; it's only 28<sup>3</sup>/<sub>4</sub> × 43<sup>3</sup>/<sub>8</sub> × 23<sup>5</sup>/<sub>8</sub>". 26-150 ..... 79.99



(2)

### Easy-rolling mobile workcenter

(2) End the hassle of setting-up and tearing down your computer system. Rolls on four casters—easily moved around your home, dormitory or office. Has four accessible shelves for computer and monitor, keyboard, printer and printer paper. Compact; it's only 30<sup>3</sup>/<sub>4</sub> × 22 × 15<sup>7</sup>/<sub>8</sub>". With illustrated assembly instructions. 26-118 ..... 69.99



(3)

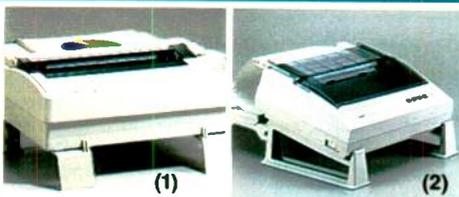
### Workstation with printer cart

(3) A complete workcenter that's ideal for small spaces. Lightweight yet sturdy construction for years of dependable use. No-tool assembly and disassembly. Includes desk with pull-out keyboard drawer and rolling printer cart. Reversible mouse tray for lefties and righties. Workstation: 26 × 22 × 31", printer cart: 22 × 16<sup>1</sup>/<sub>4</sub> × 14". 26-362 ..... 119.99

## Computer Add-Ons for Increased Productivity!

Radio Shack has all the accessories you need to keep your computer operations running smoothly and your workspace organized and efficient. Accessories can increase your productivity by making time spent at your computer more enjoyable and comfortable. From mice to modems, workcenters to wrist rests, you can find it at Radio Shack—your computer-friendly one-stop shop for add-ons that not only make your system look better, but prolong the life of your investment.

## Workspace maximizers



(1)

(2)

### Space-saving printer supports

(1) Fanfold paper stores under your 80-column printer. Feeds rear-loading printers. Easy to assemble. 26-236 ..... 6.99

### Printer stand with paper tray

(2) Fanfold paper stores underneath and feeds smoothly to all rear-loading 80- and 132-column printers. 26-1392 ..... 9.99

### Universal computer stand

Sturdy two-piece floor stand saves work space and raises CPU off the floor to prevent carpet dust from reaching the unit. Wide-base supports prevent tipping and are padded to resist scratching—keeps your CPU looking new! Adjustable from 3<sup>5</sup>/<sub>8</sub>" to 6<sup>7</sup>/<sub>8</sub>" to hold most CPUs safely upright underneath or beside your workstation. 26-119 ..... 9.99



### Cable security system

This low-cost, effective theft deterrent safeguards your valuable computer system by discouraging the average grab-and-run thief. Properly mounted, this system cannot be removed with ordinary handtools. Includes three quick-mount plates, high-adhesion glue, cable and tamper-proof lock with two keys. 26-348 ..... 17.99



### Monitor cover

Protects your monitor from damaging dust. Fits most monitors up to 14", even with screen filters in place. 26-342 ..... 9.99



### Keyboard cover

Fits most keyboards. Helps keep dust, grit from getting in the keys. 26-343 .. 4.99



### Printer cover

Fits most 80-column printers. Keeps your printer looking new, extends time between cleanings. Lightweight nylon. 26-356, 6.99



### Computer accessory starter kit

The perfect way for computer users to get "accessorized"—and save money too! This super value includes a mouse pad, three 3<sup>1</sup>/<sub>2</sub>" HD disks, disk storage box, slide-on copy holder, disk drive cleaner and a voltage spike protector to safeguard your equipment against destructive line surges. 26-352 ..... 29.99

### Portable copy stand

Stand is set at best angle for comfortable reading. Converts from vertical to horizontal format in seconds. Has sliding line guide for easy referencing. Can be used with standard and wide paper. Spring clip holds papers securely. 26-344 .. 6.99



Some items shown with optional computer components (sold separately).



## Competition joystick for IBM® PCs and compatible computers

Avenger 700 gives you the competitive edge you need—the pistol grip feels like it was custom designed just for you! Highly accurate 8-direction control has fine-tuning X and Y trim adjustments to keep you right on target. Also features ultra-sensitive fire buttons, high-speed auto fire, turbo, auto-centering. Four suction-cup stabilizers keep the Avenger 700 firmly in place when the action gets hot. High-impact molded construction won't let you down under pressure. 4½-foot cord. 26-377 . . . . . 19.99



## Game card for PC compatibles

Compete with friends on 2-player games. Dual 15-pin ports support 2 joysticks. For IBM PCs running between 4.77 and 66 MHz. 26-376, 19.99

## **NEW** Serial port Y-adapter

Now you can compete with your friends on two-player games. Lets you plug two joysticks into a single game port. 15-pin connector. 26-380 . . . . . 4.99



## Mouse cleaning kit

Your mouse works better when it's squeaky clean. With six foam swabs plus our specially formulated cleaning fluid and cloth. 26-347 . . . . . 3.99



## A better mouse pad

Be kind to your mouse. Hard matte surface provides better traction. Wipes clean easily and doesn't absorb stains. 26-353 . . . . . 9.99



## Mouse pad

Keeps the tracking ball clean. Provides excellent tracking on a uniformly smooth surface for improved mouse operation. 26-237 . . . . . 4.99



## MC-1 Mouse startup kit

Has everything you need to add a mouse to your system—mouse, mouse pad, cover, holder, plus software for installation. 26-346 . . . . . 29.99



## **NEW** Cowboy Joe mouse cover

Change your mouse into a furry cowpoke. Helps to keep your mouse free of dust. Country's in—don't let your mouse feel left out. 26-354 . . . . . 4.99



## Handy mouse holder

Keep your mouse handy but safely out of the way. Attach holder to the side of your monitor, CPU or desk with peel-and-stick adhesive. 26-275, 2.49

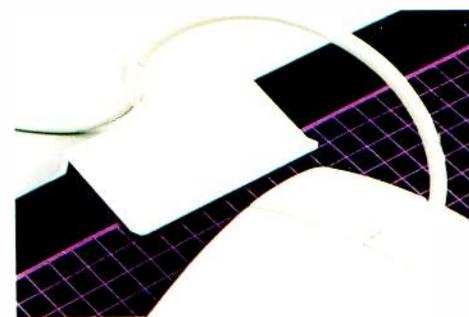


## Joystick for Apple® and IBM

High-speed, auto-firing joystick has free-floating and auto-centering modes. With 15- and 9-pin connectors. IBM XT and Apple IIe/c compatible. 270-1707 . . . . . 24.99

## **NEW** Our best joystick

Advanced flight control console. Features right- or left-hand throttle control, on-board rudder control, constant "G" 360° tracking, plus dual fire buttons with feedback. 26-384 . . . . . 49.99



## **NEW** Clip your mouse's cord

It's the handiest gadget! Clip it onto the edge of your mouse pad. Fasten your mouse cord to the top of the clip, leaving just enough slack to be able to move your mouse anywhere on the pad. The cord stays up and out of the way—no more tangled or snagged cords. 26-365 . . . . . 1.99



## **NEW** Cordless mouse

Work faster and smarter with our advanced desktop pointing device. No cord to get tangled or interfere with your work. Easy to set up and comfortable to use—with pinpoint accuracy. The mouse is kept handy but out of the way in the charger/receiver pouch when not in use. An overnight charge of the rechargeable batteries lasts a whole working day.

Charger/receiver attaches to serial port. With manuals and disks with software mouse drivers. 25-2006 . . . . . 49.99



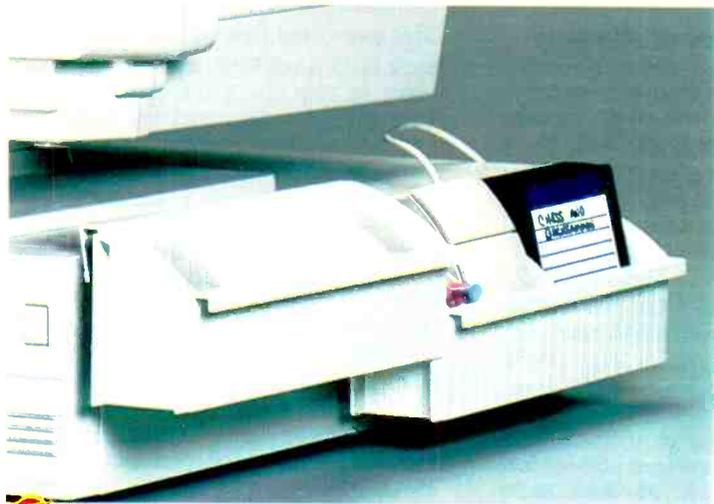
## Combination mouse

Supports PS/2-style and DB-9 serial ports. Two-button operation, accurate cursor movement. Perfect for Windows. 25-2001 . . . . . 39.99



## Handheld trackball

Enjoy precision control. For handheld or desktop operation. 6-foot cord, 9-pin serial and PS/2-style connectors. 25-2003 . . . . . 39.99



**NEW** Keep your tools where you want, the way you want

Is desktop clutter driving you crazy? Don't let it go to your head! Get things in order with this fantastic Workstation Organizer. Removable dividers let you arrange it to fit your exact needs—store your mouse, diskettes and other supplies. Units lock together, so get two (or more!) and find out what your desk really looks like under all that stuff. 26-360 ..... Each 4.99



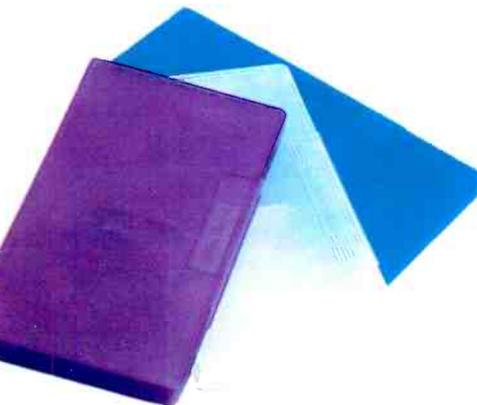
**Deluxe diskette organizer box**

Protect and organize your valuable disk library with this attractive, convenient box. Holds 35 3 1/2" disks. Dividers with labels help classify the library sections. 26-140 ..... 8.99



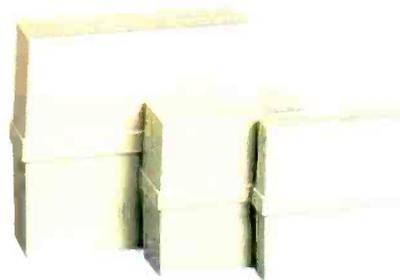
**NEW** Economy disk storage box

Safeguard disks against moisture and contaminants. Keeps up to 40 3 1/2" disks organized and off your workspace. Perfect storage container for archived and backup disks. 26-357 ..... 3.99



**Personal diskette protectors**

Avoid data loss! A handy, safe way to transport 3 1/2" disks in a coat pocket, purse, briefcase or student's backpack. Protects disks from moisture, dust and everyday wear. Each case holds six disks. Three colors: purple, blue and gray. 26-341 ..... Pkg. of 3/4.99



**Protect disks at home & away with our economy tote boxes**

Protective case safeguards disks against physical damage and dust during transport. Also great for building permanent libraries that need to be conveniently portable.  
 Holds three 3 1/2" disks. 26-213 ..... 1.09  
 Holds ten 3 1/2" disks. 26-273 ..... 1.29  
 Holds ten 5 1/4" disks. 26-274 ..... 1.39



**Tandy preformatted disks have lifetime warranties!**

Use the best quality diskettes for your data. Each Tandy preformatted disk is warranted against defects in workmanship and materials for the lifetime of the purchaser or we will replace it free. See store manager for details. Ten-packs come in a bonus protective plastic tote box.

Double-sided 3 1/2" disks				
Density	Capacity	Qty.	Cat. No.	Price
Double	720KB	3	26-432	<b>2.99</b>
		10	26-430	<b>7.99</b>
High	1.44MB	3	26-433	<b>3.99</b>
		10	26-431	<b>10.99</b>

Double-sided 5 1/4" disks				
Density	Capacity	Qty.	Cat. No.	Price
Double	360KB	3	26-452	<b>2.49</b>
		10	26-450	<b>6.99</b>
High	1.2MB	3	26-453	<b>2.99</b>
		10	26-451	<b>7.99</b>



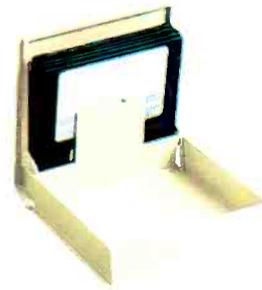
**Diskette labels**

For 3 1/2" disks. 25 each of four colors. 26-244, Pkg. of 100/2.99  
 For 5 1/4" disks. 25 each of four colors. 26-245, Pkg. of 100/2.99



**Tape/cartridge storage**

150MB tape cartridge. DC 6150 compatible. (CMC) 26-204 ..... 39.99  
 60MB tape cartridge. DC 2120 compatible. (CMC) 26-246 ..... 34.99  
 40MB tape cartridge. DC 2000 compatible. (CMC) 26-218 ..... 29.99  
 20MB 5 1/4" Bernoulli disk cartridge. (CMC) 26-221 ..... 119.99  
 2.8" disks/WP100 (CMC) 26-3951 ..... Pkg. of 2/16.99  
 C-10 cassette digital tape. 26-302 ..... 1.89  
 C-20 deluxe digital tape. (CMC) 26-308 ..... 3.79



**3 1/2" disk library**

Handy library boxes work equally well for desktop or portable use. Opens to display your disks for easy access and reference. Each library box holds five. 26-1380, 2/2.99



**Disk drive cleaner kit**

Includes special 3 1/2" and 5 1/4" cleaning disks and 1/2 ounce of a formulated cleaning fluid—enough for 20 cleanings. Loads like an ordinary disk; removes oxide buildup in double-sided disk drives. Takes only seconds. 26-295, 7.99

Prices apply at participating Radio Shack stores and dealers. Not all items in all stores—ask about our ordering service (items subject to availability).

**Hours of fun for kids of all ages!**

**Kid Pix.** Turns a PC into a magical art studio, with bright colors and fun sounds. Every brush and tool has a unique sound effect. Includes English and Spanish versions! 25-1447, 29.99

**MyPaint.** The paint program that's just for kids. No reading skills required, MyPaint uses large, easy-to-understand icons. There's a hidden "Parent Menu" for printing and saving to disk. 25-1839 ..... 29.99

**MetroGnomes' Music.** A fun and interactive way for children to learn music basics. For ages 4-7. 25-1835 ..... 29.99

**the HUMANS.** Lead your tribe in the development of civilization. Work as a team to develop new tools in order to survive. Score points by reaching the next level without losing members of your tribe. 25-1846, 29.99

**Origins of Pre-History.** Journey through pre-historic times and learn about land formation and early life forms. A great reference tool for dinosaur lovers! 25-1855 ..... 29.99

**Snap Dragon.** The building blocks to math, science and reading. Kids can play with electronic building blocks, color fun pictures, listen to amusing sounds and music and more. 25-1865 ..... 23.99

**Putt-Putt Joins the Parade.** Logic puzzles help increase problem-solving and critical thinking skills. Includes Junior Adventurer's Handbook, Junior Adventurer's Toolkit, with pencil, crayons and a sharpener in a fun carrying case, and a night light. 25-1895, 29.99

**Show and Tell for Kids.** Kids will have hours of fun creating multimedia filmstrips. They can incorporate their own artwork, lettering and even recorded sounds. 25-1947 ..... 29.99

**Finigan's Logic.** Use logic and clues from the computer to identify a three digit number. The fewer guesses, the higher the score. Play without clues for a real challenge. Develops abstract thinking skills. 25-1981 ..... 19.99

**The Addams Family Print Gallery.** Kids will have loads of fun making their own posters, signs, party invitations, personalized stationery, coloring pages, banners and more. 25-1951 ..... 19.99

**The Wizard of Oz Audio Clips with VHS Movie.** Add fun sound effects to your computer. Includes a VHS copy of *The Wizard of Oz* movie. 25-1990 ..... 19.99

**Earring Magic Barbie Software Pak.** Includes Earring Magic Barbie doll and two software programs: Barbie, a magical adventure, and Barbie Design Studio, which lets you design and print cards, posters and more. 25-1992 ..... 29.99

**Turtle Mania!** Includes two software programs: Teenage Mutant Ninja Turtles World Tour, an educational computer coloring book, and Teenage Mutant Ninja Turtles, in which kids control the Turtles on a dangerous mission to rescue April O'Neil. With Turtle audio cassette and comic book. 25-3135 ..... 19.99

**Creature Maker.** Mix and match different body parts and use 120 different colors to create creatures. Includes a surprise transformer dinosaur egg. 25-3137 ..... 19.99

**Discover the fun of learning!**

**Back to School First Aid Kit.** Six programs to help kids brush-up on math, reading, spelling skills and more. Includes a calculator, three pencils and a pencil sharpener. 25-1995 ..... 39.99

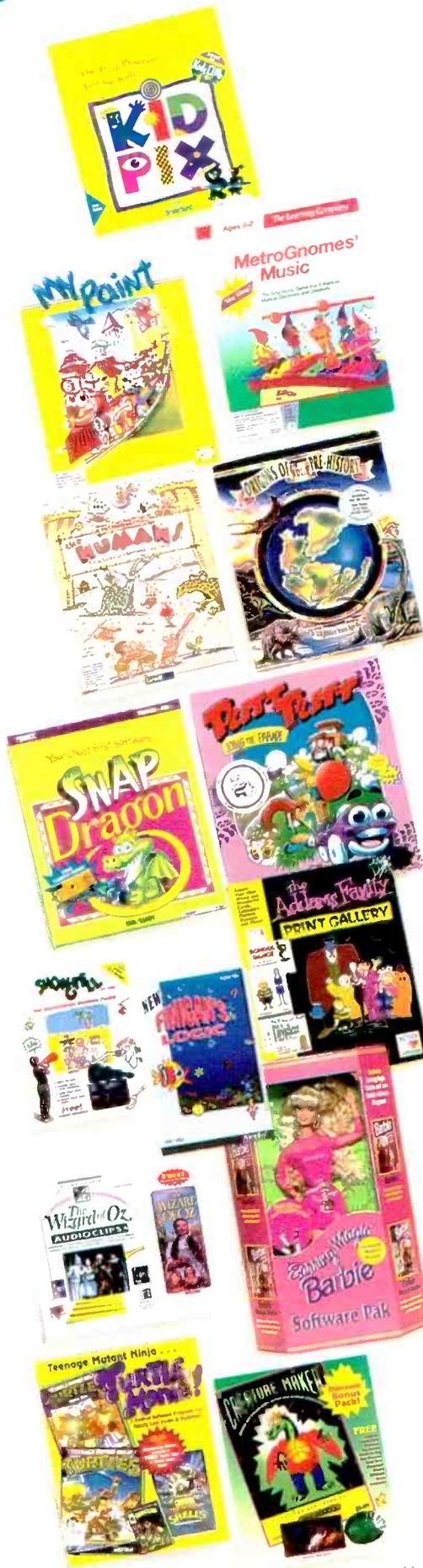
**Fun School Learning Adventures with Sammy Spy.** Combines colorful graphics, sound effects and animation. Six multilevel learning adventures: Spy Travels, Timetable, Exchange Rates, Spy Quiz, Proportions and Desert Dates. 25-1998 ..... 19.99

**Fun School Learning Adventures with Freddy Frog.** Includes six adventures: Log Cabin, Library, Opposites, Typing, Shopkeeper and Basketball. 25-1999 ..... 19.99

**Fun School Learning Adventures with Teddy Bear.** Six adventures that make learning fun: Teddy Paint, Teddy's House, Addition, Teddy's Books, Fun Train and Karaoke. 25-3125 ..... 19.99

**Where in the World is Carmen Sandiego?** Learn about exotic places as you chase Carmen and her gang all over the world. Comes with *The World Almanac & Book of Facts*. 25-3130 .. 49.99

**Millie's Math House.** Helps young children build a solid foundation in math. 25-1867 ..... 19.99





## Multimedia software for kids

**Mr. C.D. Bear.** Includes 2 programs: Race the Clock, match animated squares before your time is up, and Kid-Fun, a karaoke sing-along with pictures and lyrics. Comes with stuffed Teddy bear. 25-3131 ..... 19.99

**Playing with Language French.** Teaches fundamental skills for learning languages. For ages 4 and up. 25-4250 ..... 19.99

**Playing with Language Spanish.** Children learn the basics of Spanish. For ages 4 and up. 25-4296 ..... 19.99

**The Line and the Shape Eater.** Introduces children to basic shapes and their relationship to the world around us. 25-4260 ..... 17.99

**The Musical World of Professor Piccolo.** Filled with musical games and lessons. 25-4264 ..... 29.99

**Allie's Playhouse.** A fun-filled fantasy world. Your child will hear stories and music and sing and play with the playhouse characters. 25-4265 ..... 29.99

**Dandy Dinosaurs.** A delightful interactive adventure, with lots of games and easy-to-make projects for children and parents to do together. 25-4266 ..... 29.99

**Interactive Storytime Volume 1.** Three stories: Goldilocks and the Three Bears, The Little Red Hen and The Boy and the Donkey. 25-4286 ..... 19.99

**Interactive Storytime Volume 2.** The Boy Who Cried Wolf, The Milkmaid and Her Pail and Belling the Cat. 25-4287 ..... 19.99

**Mixed-Up Mother Goose.** An adventure simple enough for very young children. Delightful stories entertain while teaching early reading skills. 25-4289 ..... 19.99

**Composer Quest.** Takes you on a tour to get to know the greatest composers in classical and early jazz music. 25-4291 ..... 39.99

**Curtain Call.** Gives you everything you need to produce stories, presentations and videos using graphics, digital sound and MIDI music. Disk-based. 25-4284 ..... 39.99

## Multimedia Reference CD-ROMs

**Great Cities of the World Volume 2.** An extensive source of facts about cities and cultures. Includes Berlin, Buenos Aires, Chicago, Jerusalem, Johannesburg, Rome, San Francisco, Seoul, Singapore and Toronto. 25-4282 ..... 29.99

**Fitness Partner.** Uses full-motion color video to demonstrate and perform exercise routines. But, unlike video tapes, Fitness Partner allows you to edit the routine to your liking. 25-6150 ..... 29.99

**Video Movie Guide 1993.** A video encyclopedia of over 12,000 films. 25-6151 ..... 19.99

**America's National Parks.\*** An interactive directory, providing you with comprehensive information on 230 National Parks. 25-6202 ..... 29.99

**Americans in Space.\*** The complete video and photographic history of American manned space flight. 25-6203 ..... 29.99

**Time Almanac 1992.** Includes historical articles, video stories, facts and figures, fun and challenging news quizzes and more. 25-6204 ..... 39.99

## Books and stories by Discis

Award-winning Discis Books introduce children and teenagers to the wonderful world of reading. Discis Books bring classic stories to life, combining real-voice narration, vibrant illustrations, music and sound effects. All Discis titles are MPC compatible when used with a utility program available free of charge from Radio Shack (see store for details).

**The Night Before Christmas.** By Clement C. Moore. For all ages. 25-6135 ..... 19.99

**Mud Puddle.** By Robert N. Munsch. For ages 3 and up. 25-6128 ..... 19.99

**The Tale of Peter Rabbit.** Beatrix Potter's original and authorized edition. For ages 3 and up. 25-6125 ..... 19.99

**The Tale of Benjamin Bunny.** The original and authorized edition by Beatrix Potter. For ages 4 and up. 25-6126 ..... 19.99

**Thomas' Snowsuit.** By Robert N. Munsch. For ages 4 and up. 25-6129 ..... 19.99

**A Long Hard Day on the Ranch.** By Audrey Nelson. For ages 4 and up. 25-6132, 19.99

**The Paper Bag Princess.** By Robert N. Munsch. For ages 5 and up. 25-6127 ..... 19.99

**Heather Hits Her First Home Run.** By Ted Plantos, illustrated by Heather Collins. For ages 5 and up. 25-6133 ..... 19.99

**Moving Gives Me A Stomach Ache.** By Heather McKend, illustrations by Heather Collins. For ages 5 and up. 25-6134 ..... 19.99

**Scary Poems for Rotten Kids.** By Sean Ohuigin. For ages 7 and up. 25-6130 ..... 19.99

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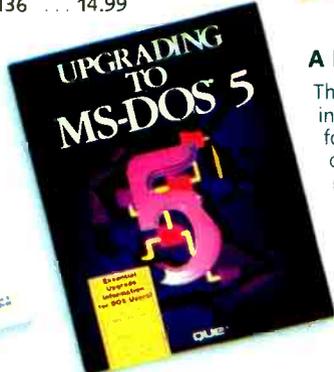
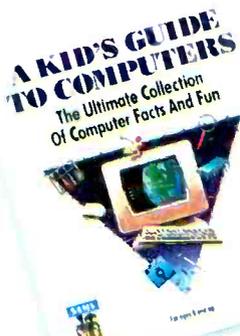
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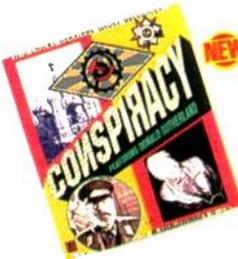


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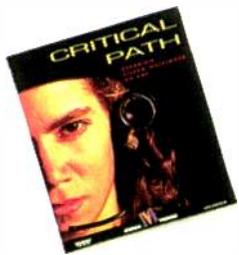


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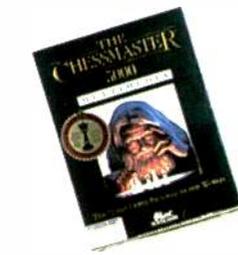


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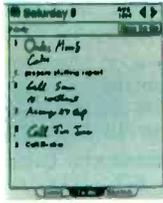
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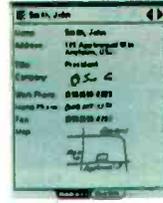
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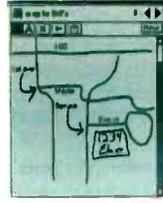
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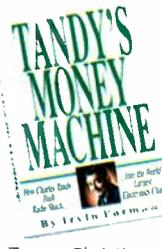
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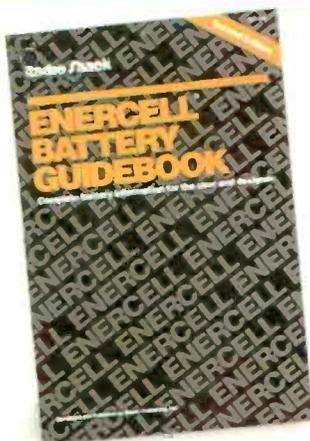
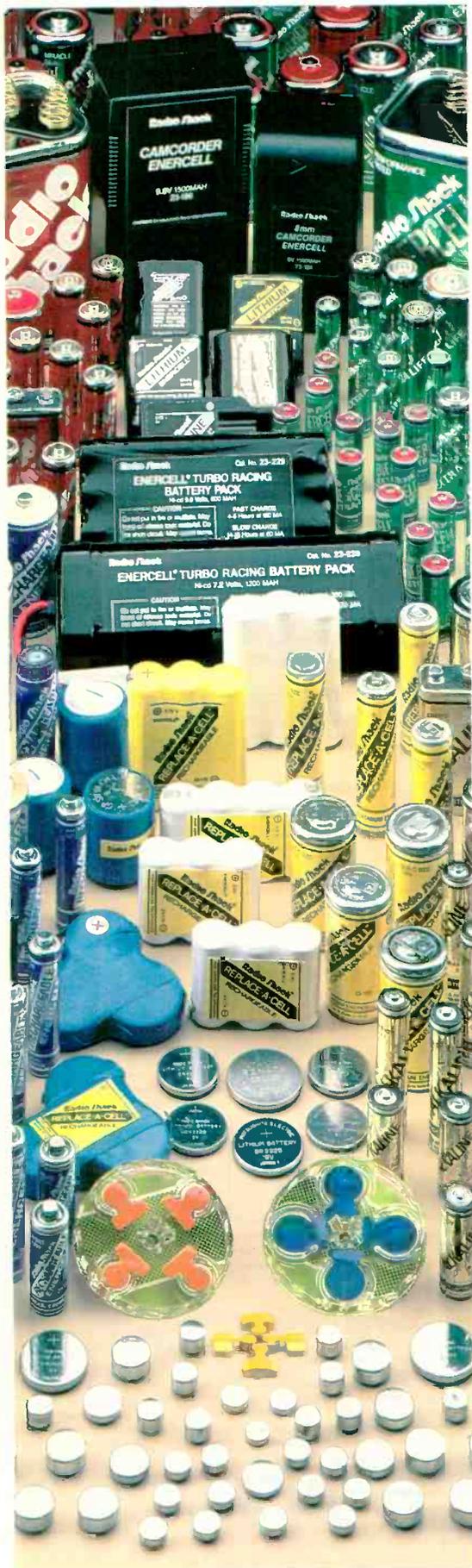
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## Butt WORDS

**AMPERE (A)**—The unit for measuring electrical current. Often noted as milliamps (mA), thousandths of an ampere.

**AMPERE-HOURS (Ah)**—The measure of battery capacity. Ampere-hours equals current in amperes multiplied by time. The higher the number, the longer the battery will deliver useful power. Often noted as milliamp-hours (mAh), 1000ths of an Ah.

**DC**—Direct current. Batteries produce direct-current electricity.

**ENERGY**—A battery uses chemicals to store energy. It converts this energy into useful electrical power when needed.

**LEAKAGE**—Over time, batteries can leak damaging chemicals. If you are not going to use equipment for some time, always remove the batteries.

**POLARITY**—Batteries have two terminals. One is positive (+). The other is negative (-). Follow correct polarity (+ or -) when you install batteries.

**VOLT (V)**—The unit for measuring electrical pressure. A "D" size flashlight battery produces 1½ volts. Batteries are usually connected in series, which adds the voltages. For example, a radio that uses two "AA" batteries operates on 1½ + 1½ volts, or 3 volts DC (3VDC).

**QUESTION:**  
What are the different types of batteries and what are the advantages of each?

**ANSWER:**  
Radio Shack EXTRA-LIFE standard batteries (page 213) offer long storage life, low cost and good performance at lower temperatures. They're perfect for things you use occasionally, like flashlights, lanterns, portable radios and cassettes, walkie-talkies, metal detectors and toys. Radio Shack ALKALINE batteries (page 213) deliver up to seven times the service life of standard batteries. They're an excellent choice for smoke alarms, battery backup systems, remote controls, test equipment and high-current devices such as portable TVs, stereos, powered stereo speakers, CB walkie-talkies, and RC toys. Radio Shack Ni-Cd batteries (page 214) can be recharged and used over and over. Even though initial cost is higher, Ni-Cds are by far the most economical power source for often-used portable equipment. Our selection includes standard sizes and packs for camcorders, cordless phones and RC toys.

**QUESTION:**  
What are button-cell batteries?



**ANSWER:**  
"Button" batteries (page 216) include Alkaline, Lithium, Silver Oxide and Zinc-Air types. These batteries pack a large amount of power capacity into a small package. We stock replacement batteries for hearing aids, cameras, watches, vehicle alarm remotes, calculators, handheld electronic games and measuring instruments.

**QUESTION:**  
What about special-purpose batteries?

**ANSWER:**  
We're the source for hard-to-find batteries, too. Radio Shack can supply almost any currently produced battery including "communications" types for police and fire walkie-talkies, special batteries for cordless phones, computer backup, camcorders, pagers, medical equipment, flash units and more. See page 215.



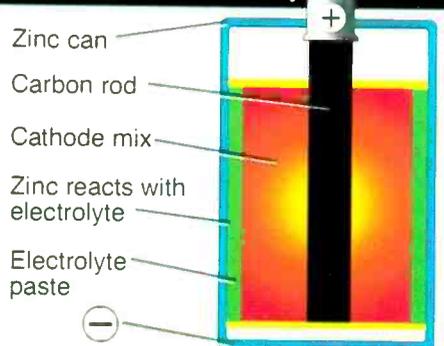
## Learning about batteries

Billions of dollars are spent on batteries every year, yet few of us know that much about how they work or what type of battery would be best for a given device or project. Whether you're into a technical hobby, curious or simply want to become a better battery buyer, this page will help you learn how batteries work and how to choose the right one.

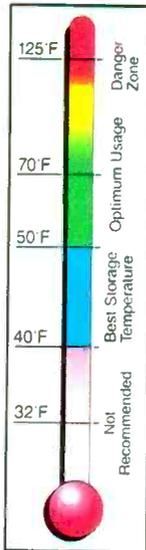
## History of batteries and how they work

In 1789, Alessandro Volta put a zinc rod and a copper rod together in some acid. As the acid ate away at (or reacted with) the zinc rod (the negative electrode), the copper rod (the positive electrode) captured the energy released from the reaction. That energy created a voltage between the rods—Volta had invented the wet battery! The first dry-cell battery (like the ones we use now) wasn't developed until 1888—almost a hundred years later—but it was based on the principles Volta discovered.

### Cross section of a battery



Today's general-purpose batteries are more sophisticated. Even though they are dry cells, they share many similarities with Volta's first battery. Look at the diagram above. The outside of the battery is a can made of zinc. This can is the negative electrode. The positive electrode is the carbon rod in the middle of the can. Between the electrodes, taking the place of the acid in Volta's battery, are an electrolyte and something called a cathode mix. The battery produces electricity when the zinc can reacts with the electrolyte and the electrolyte reacts with the cathode mix. As the three substances are used up, the battery's voltage drops until it can't power anything—a "dead" battery.



## How hot & cold affect battery life

There are lots of things that influence how well batteries perform and how long they last. The most obvious one is how much they're used. If you turn on your flashlight, you expect the life of the batteries to be shortened. Not so obvious is that temperature affects batteries, too.

When you use or store batteries, the temperature plays a big part in how well they work and how long they last. General-purpose carbon-zinc batteries work best when used at about 70 degrees Fahrenheit.

If you use a battery on a really hot day, it produces more energy. But if you store a battery in a hot place, you'll reduce its shelf life. Batteries stored at a temperature above 125°F will deteriorate especially quickly, without even being used.

Cold has a big effect on batteries, too. If you use a battery when it's cold, two things will happen: it will put out less energy than it would at room temperature and it won't last as long. However, storing batteries in a cool place (between 40°F and 50°F) will increase the shelf life. If you move them from cool to hot several times, though, you'll actually shorten the shelf life!

## How to test the capacity of batteries

Batteries don't have gauges on them to show us how much power is left in reserve. The best way to test your batteries is with a tester designed specifically for the type of battery you are using.

Simply testing the voltage of a battery with a multimeter, for instance, won't give you an accurate measure of how much life is left in the battery. Batteries of different design discharge their power reserves at different rates. Certain batteries provide their peak power throughout their life-cycle and die a relatively quick death while others deliver their peak power for only a short time and then slowly fade with use. Therefore, testing the voltage at any single moment doesn't provide any insight to their life expectancy.

The best way to estimate how much power remains is to test a battery under load (a condition which simulates the battery's intended power use). Testing the voltage of a battery doesn't indicate the battery's ability to deliver power under load.

Radio Shack offers a variety of battery testers specifically designed to measure the life expectancy of your batteries under load. You'll also find a wide selection of quality battery checkers that measure the voltage of a battery under a fixed load. Stop in today and let a member of our staff help find the battery tester or checker that's right for you.

## Getting the right battery for the job

Choosing the right ENERGIZER battery from the many available isn't that difficult. But it's much easier when you analyze the job you want the battery to do. Make a checklist of the characteristics you're looking for in a battery, then use the chart below to match the best battery with your needs.



ENERGIZER Type	Common name	Classification	Volts Per Cell*	Characteristics	Applications
Extra Life	Zinc Chloride	Primary	1.5	Service capacity at moderate to light current is 50% greater than Carbon Zinc. Good low temperature performance.	Motor driven toys, cassette players/recorders, radios, clocks, calculators.
Alkaline (Includes Button Cells)	Alkaline Manganese Dioxide	Primary	1.5	Good low temperature characteristics. Discharge voltage falls with usage. Good service under continuous or heavy duty high-current usage. May last 5-7 times longer than Carbon Zinc under same loads. Has low impedance.	High current drain radios, shavers, electronic photoflash, movie and VCR cameras, toys, tape players/recorders, Walkie-talkies, calculators, motor driven toys, clocks, heavy-usage flashlights, radio-controlled models.
Rechargeable	Nickel-Cadmium	Secondary	1.2	Maintenance free, hermetically sealed, flat discharge voltage curve with usage. Good high and low temperature performance. Resistant to shock and vibration. Can recharge over and over. High effective capacitance.	Portable power tools, appliances, shavers, toothbrushes, tape recorders, radios and calculators, Photoflash units, gasoline engine starting, portable communication equipment, radio-controlled toys.
Button	Silver Oxide	Primary	1.5	Flat discharge characteristics. Fair low-temperature performance. Similar to Mercuric Oxide except provides higher voltage and higher service capacity to volume ratio.	Hearing aids, watches, calculators, photo electric exposure meters, instruments, pagers, reference voltage source.
Button	Lithium Manganese	Primary	3.0	Good shelf life. Contains high energy density. Wide application temperature range (-10°F to 140°F). Suitable for heavy drain/pulse discharge uses.	Watches, calculators, cameras, measuring instruments, electronic watches with backlights and alarms.
Button	Zinc Air	Primary	1.45	Excellent shelf life. Lightweight. High energy density. Application temperature range (32°F to 104°F). Cell must have access to atmospheric oxygen to activate the cell.	Hearing aids, pagers.

\*Higher voltage batteries are obtained by internal series connection of cells.

You'll find the freshest batteries for all your projects at your local Radio Shack

*You can't buy a better, longer-lasting alkaline battery—guaranteed!\**



## Energy-plus alkaline batteries

Keep your equipment working harder and longer! High output at low temperatures, long shelf life and dependable service under heavy-duty usage are just a few of the advantages you get from these batteries. They're great for portable radios, shavers, flashlights and more.

Radio Shack	Replacement for			Cat. No.	Price
	Duracell	Eveready	Ray-O-Vac		
"AA"	MN1500	E91	815	23-557	<b>Pkg. of 2/1.69</b>
"AA"	MN1500	E91	815	23-552	<b>Pkg. of 4/2.99</b>
"AAA"	MN2400	E92	824	23-555	<b>Pkg. of 2/1.69</b>
"AAA"	MN2400	E92	824	23-558	<b>Pkg. of 4/2.99</b>
"C"	MN1400	E93	814	23-551	<b>Pkg. of 2/2.59</b>
"D"	MN1300	E95	813	23-550	<b>Pkg. of 2/2.59</b>
"N"	MN9100	E90	81C	23-023	<b>Pkg. of 2/1.69</b>
9V Rectangular	MN1604	522	A-1604	23-553	<b>Each 2.19</b>



## Save! Buy larger-quantity multi-packs

Stock up with convenient multi-packs of alkaline batteries. We pass on even bigger savings to you when you buy batteries in larger quantities. Get our alkaline batteries in packages of 4, 8 or 12. Ideal for stocking up at home, for powering your portable stereo or for all the kids' toys at Christmas.

Radio Shack	Replacement for			Cat. No.	Price
	Duracell	Eveready	Ray-O-Vac		
"AA"	MN1500	E91	815	23-652	<b>Pkg. of 12/6.99</b>
"AAA"	MN2400	E92	824	23-655	<b>Pkg. of 12/6.99</b>
"C"	MN1400	E93	814	23-651	<b>Pkg. of 8/7.99</b>
"D"	MN1300	E95	813	23-650	<b>Pkg. of 8/7.99</b>
9V Rectangular	MN1604	522	A-1604	23-653	<b>Pkg. of 4/6.99</b>

\*You must be satisfied with our Energcell-brand alkaline batteries or return them with your receipt, within 30 days from date of purchase, for a one time replacement or refund.



## Extra-Life, heavy-duty batteries

Why pay more? Each battery's special electrolyte core gives longer service life, plus up to three years storage life. You'll appreciate the "Miracle-Seal" leak protection, too.

Radio Shack	Replacement for		Cat. No.	Price
	Eveready	Ray-O-Vac		
"AA"	1215	5AA	23-582	<b>Each .39</b>
"AAA"	912	400	23-584	<b>Each .39</b>
"C"	1235	4C	23-581	<b>Each .69</b>
"D"	1250	6D	23-580	<b>Each .69</b>
"N"	...	810	23-585	<b>Each .39</b>
9V Rectangular	1222	D1604	23-583	<b>Each .99</b>
6V Lantern	1209	944	23-016	<b>Each 3.99</b>
"C"	1235	4C	23-681	<b>Pkg. of 4/2.19</b>

# Rechargeable Ni-Cd batteries and chargers.

## **NEW** 7-hour Ni-Cd battery conditioner/charger

Conditions Ni-Cd batteries by completely discharging them before beginning the charging cycle. Your batteries charge to fuller capacity each time, so they work better, longer. Charges two or four "C", "D", "AA", or "AAA" nickel-cadmium batteries in 7 hours, or two 9V batteries in just 14 hours. Reverse-polarity protection prevents damage to charger from incorrectly inserted batteries. Has LED discharging and charging indicators. **23-243 ..... 21.99**

## Nickel-Cadium Batteries Save You Money

Even though Ni-Cds cost more than regular batteries, they save you money in the long run. Here's one example: An independent study has shown that the total cost of using alkaline batteries in a headset radio operated two hours a day for three years is about \$633. The cost of using Ni-Cds instead—including the cost of the recharger and electricity—would be about \$26. That's a \$607 savings! What's more, Ni-Cds are friendlier to our environment. Using them in place of standard batteries produces much less waste



## Deluxe overnight charger

Accepts up to 10 Ni-Cd batteries of different sizes at the same time. Charges 9V, "D", "C" and "AA" sizes, plus "AAA" sizes with adapter modules below. LED charging indicators. **23-134 ..... 29.99**



## Overnight "AA"-size battery charger

Economical choice for recharging batteries for personal portables and camera accessories. Fully charges two or four "AA" Ni-Cd batteries in about 14 hours. Plugs directly into an AC wall outlet. Compact and ideal for traveling. Red LED charging indicators. **23-133 ..... 6.99**



## Standard charger

Universal Ni-Cd charger to fit any budget. For use with 9V, "D", "C" and "AA" sizes, plus "AAA" and "N" sizes with the adapter modules below. Recharges two pairs of different sizes at the same time (total of four batteries). **23-132 ..... 12.99**



## 2-hour universal Ni-Cd charger

Super-fast charging rate is regulated to prevent damage to batteries. Charges two or four "D", "C", "AA" or "AAA"-size batteries in only two hours, or two "9V" batteries in five hours. Two-hour timer with auto shutoff. **23-239 ... 29.99**



## Universal quick charger

Charges standard "D", "C", "AA", "AAA", 9V Ni-Cd batteries in 5 hours. HIGH-CAPACITY "D", "C" and "AA" Ni-Cd batteries require longer charging time. Holds six batteries at a time (except 9V). **23-233 ..... 27.99**



## "AA", "AAA", and 9V 7-hour quick charger

Fully charges up to two 9V or four "AA" or "AAA" Ni-Cd batteries in seven hours. Automatic regulation prevents battery overcharging. Reverse polarity protection prevents damage from incorrectly inserted batteries. **23-236 ..... 9.99**



## **NEW** Pocket-size "AA" and "AAA" quick charger

Compact size slips easily into a pocket or purse. Great for traveling—you can recharge batteries for cameras or personal electronics anywhere there's a 120VAC outlet. Fully recharges two or four "AA" or "AAA" Ni-Cd batteries in just 7 hours. Automatic regulation prevents overcharging. Charging LED indicators. **23-246 ..... 12.99**



## **NEW** 3-hour "AA" battery charger/conditioner

Automatically discharges your batteries for one hour before beginning the charging cycle. This keeps your batteries fresh, so they deliver more power over a longer period of time. Timer switches charger off automatically after 3 hours. Reverse polarity protection prevents batteries from being installed incorrectly. Discharging/charging LED indicators. **23-242 ..... 16.99**



## Standard rechargeable Ni-Cd batteries



## HI-CAPACITY™—our rechargeable Ni-Cds with an extra edge in performance

Our heavy-duty rechargeables are the perfect power source for high-current equipment such as cordless tools. They also deliver long service between charges in lower current equipment such as radios, talkies, CD and cassette players.

Size	Volts	Amp Hour	Replacement for			Cat. No.	Price
			Duracell	Eveready	GE		
"D"	1.25	1.600	NC13	CH50	GC3	23-123	Pkg. of 2/6.99
"C"	1.25	1.600	NC14	CH35	GC2	23-124	Pkg. of 2/6.99
9V	7.2	0.065	NC1604	CH22	GC9	23-126	Each/9.99
"AA"	1.25	0.650	NC15	CH15	GC1	23-125	Pkg. of 2/4.99
"AAA"	1.25	0.180	NC24	CH12	...	23-127	Pkg. of 2/5.99
"N"	1.25	0.150	...	...	...	23-121	Pkg. of 2/5.39



"AAA" Modules. Adapt "AAA" Ni-Cd batteries for use in chargers **23-135 ..... Pkg. of 4/1.99**  
 "N" Modules. Adapt "N" Ni-Cd batteries for use in chargers (CMC) **23-137 ..... Pkg. of 4/1.99**

Size	Volts	Ampere Hour	Cat. No.	Price
"D"	1.25	4.3	23-140	<b>7.99</b>
"C"	1.25	2.0	23-141	<b>6.99</b>
"AA"	1.25	0.85	23-149	<b>5.99</b>

**NEW** 4.8V turbo racing battery-pack charger

Step up to our matched-pair turbo-charger and racing pack for best results. The turbocharger will recharge the turbo racing pack at right in 14 to 16 hours. Tamiya connector makes connecting the battery and charger easy and safe. LED charging indicator.

23-244 ..... 4.99



**NEW** 4.8V turbo racing pack

Matching turbo racing pack. Tamiya connector. Recharges in 30 minutes or less.

23-245 ..... 10.99

**Featherweight RC racing 7.2V rechargeable battery pack**

You'll get the most speed from your radio-controlled vehicles with this ultralightweight Ni-CD battery pack. Six-cell battery-pack weighs a mere 320 grams!

23-230 ..... 19.99

**"Hotshot" 9.6V Ni-Cd turbo-charged battery pack**

Put extra zip in your radio-controlled equipment and leave the competition eating dust! Eight-cell short pack is rated 9.6 volts at 600mAh.

23-229 ... 19.99

**Portable AC/DC fast charger**

Uses 120VAC house current or 12VDC car/truck battery to charge 7.2 or 8.4-volt RC Ni-Cd battery pack in 30 minutes or less.

23-235 ..... 69.99

**Portable DC fast charger**

Connects to 12VDC automotive battery. Recharges 7.2V Ni-CD battery pack in just 20 minutes!

23-232 ..... 29.99

**For Phones And Camcorders**

**For 12V cellular phones & camcorders**

Top-quality sealed lead-acid battery pack for use with our Tandy Cellular Trans-

portable Phone CT-1033 plus many popular name-brand video camcorders and cellular phones. 12V, 2300mAh.

23-187 ..... 39.99

**For 12V VHS camcorders**

For our Model 100 MovieCorder and many others. 12V, 1500mAh.

23-183 .. 39.99

**9.6V VHS battery pack**

For Radio Shack Models 101/125 and many others. 9.6V, 1500mAh.

23-186 .. 39.99

**6V 8mm Tri-Pak**

For Sony Handycam, VHS-C Palm-corder, others. 9V, 1500mAh.

23-215 ... 24.99

**NEW** 8mm hi-capacity

Greatly extends snooting time between charges. 6V, 2000mAh.

23-216 .. 69.99

**NEW** For RCA, Hitachi

For use with many RCA and Hitachi camcorders. 6V, 1600mAh.

23-217 .. 39.99

**NEW** For Canon, SunPak

For use with many Canon, SunPak camcorders. 6V, 1200mAh.

23-218 .. 39.99

**7.2V Ni-CD battery pack charger**

Recharges a 7.2V racing pack in 14 hours. For use with #23-230 above and most other 7.2V battery packs. With Tamiya battery-pack connector, LED charging indicator.

23-241, 9.99

**9.6V Ni-CD racing pack charger**

Recharges a 9.6V battery pack in 14 hours. For use with #23-229 above and other 9.6V racing packs. Tamiya battery-pack connector, LED charging indicator.

23-240 ..... 9.99

**Radio Shack is Your "Hotline" to Everything in Batteries And Battery Packs—Shop Us First and Save Time**

Your nearby Radio Shack store can supply virtually any consumer-type battery currently in production. Our comprehensive selection includes "communications" batteries used in police, fire and emergency walkie-talkies, special batteries for cordless phones, computer memory, camcorders, pagers, medical equipment, camera flash units, and many more. Whatever you need in a battery, we can probably get it for you. We place your order on our "hotline" and your batteries are rushed directly to your Radio Shack store from our special order services (see page 130). We'll notify you the same day they arrive.

# Wide selection of special-purpose batteries.



## Batteries for photography, computers and other electronic equipment

Hard-to-find batteries and battery packs to fit many cameras, personal computers, plus lots of other electronic equipment. Includes high-energy lithium and alkaline types.

Fig.	Radio Shack	Replacement for			Cat. No.	Price
		Duracell	Eveready	Panasonic		
1	BRP2	...	...	BPR2	23-175	12.99
2	2CR5	DL245	EL2CR5BP	2CR5	23-178	12.99
3	DL223	DL223	EL223A3P	CRP2	23-179	12.99
4	7K67	7K67	539	...	23-471	4.99
5	DL123	DL123	EL123AP	CR123	23-155	7.99
6	2CR $\frac{1}{2}$ N	PX28L	L544	...	23-266	8.29
7	CR $\frac{1}{2}$ N	DL $\frac{1}{2}$ N	2L76	...	23-265	4.79
8	"AA" Lithium	...	L91	...	23-664	<b>Pkg. of 2/6.99</b>

## Radio Shack silver-oxide watch and calculator batteries

(9) Specially formulated to keep working longer and harder than "regular" batteries. Custom engineered for electronics applications. We have a replacement for most brands.

Radio Shack	Replacement for				Cat. No.	Price
	Duracell	Eveready	Ray-O-Vac	Other		
76	D357	EPX76	RW22/42	G13, 541	23-009	2.79
389	D389	389	389-1W	G10, V10GS	23-101	2.79
392	D392	392	392-1W	G3, 547	23-102	2.79
393	D393	393	393-1W	G5, 546	23-103	2.79
303	D303	303	303-1W	GS14, 521	23-104	2.79
357	D357	357	357-1W	G13, 541	23-105	2.79
386	D386	386	386-1W	G12, 548	23-106	2.79
391	D391	391	391-1W	G8, V8GS	23-107	2.79
362	D362	362	362-1W	Type S, 532, SR721	23-110	2.79
364	D364	364	364-1W	Type T, 531, SR621	23-111	2.79
396	D396	396	396-1W	Type V, 556, SR726	23-112	2.79
399	D399	399	399-1W	Type W, 543, SR926	23-113	2.79
390	D390	390	390-1W	603, 534, SR1130	23-201	2.79
329	D329	329	329-1W	24, 525	23-202	2.79
371	D371	371	371-1W	SR920, 30, 537	23-203	2.79
377	D377	377	377-1W	SR626, 37	23-204	2.79
384	D384	384	384-1W	SR41, 10, 527	23-205	2.79
395	D395	395	395-1W	SR926, 25, 523	23-206	2.79
397	D397	397	397-1W	SR726, 26, 536	23-207	2.79
319	D319	319	319-1W	SR527SW, 615, 8067	23-208	2.79
379	D379	379	379-1W	SR521SW, 8073	23-209	2.79



## High-energy lithium batteries for watches and calculators

(10) Deliver high-energy output and long life to keep all your equipment working harder and longer! Easily outperform ordinary batteries. Always keep extras on hand.

Radio Shack	Replacement for			Cat. No.	Each
	Duracell	Eveready	Ray-O-Vac		
CR2016H	DL2016	ECR2016	BR2016	23-160	2.79
CR2025	DL2025	ECR2025	BR2025	23-161	2.79
CR2032	DL2032	ECR2032	BR2032	23-162	2.79
CR2430	DL2430	ECR2430	BR2430	23-166	2.79
CR1616	DL1616	ECR1616	...	23-167	2.79
CR2325	...	...	BR2325	23-169	2.79
CR1220	DL1220	ECR1220	...	23-188	2.79



## Heavy-duty alkaline and silver-oxide batteries for games and calculators

(11) Long-lasting batteries keep on performing, even under high-current drain conditions. Choose alkaline, or silver oxide for even longer life. Keep extras on hand.

Radio Shack	Replaces			Alkaline		Silver Oxide	
	Duracell	Eveready	Maxell	Cat. No.	Each	Cat. No.	Each
357A	PX76A	A76	LR44	23-115	1.99	23-105	2.79
386A	D186AB	186	LR43	23-116	1.99	23-106	2.79
389A	D189AB	189	LR1130	23-117	1.99	23-101	2.79
391A	D191AB	191	LR1120	23-118	1.99	23-107	2.79

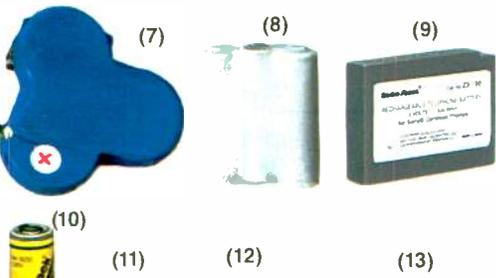
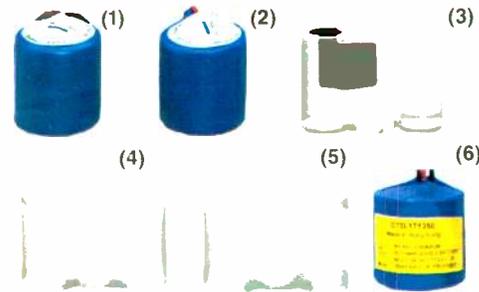


## Air-activated hearing aid batteries are ready to go when you need them

(12) Long-life batteries are lightweight, yet have about twice the capacity of other types. Air-seal protected for long shelf life—they're fresh and strong when you open them. 1.45V.

Radio Shack	Replaces			Cat. No.	Package of 4
	Duracell	Eveready	Ray-O-Vac		
675HPX	DA675	AC675E	R675ZA	23-257	3.39
13HPX	DA13	AC13E	R13ZA	23-258	3.39
12HP	DA312	AC312E	R312ZA	23-259	3.39
230HPX	230HPX	AC230E	R10ZA	23-256	3.39





### Cordless telephone replacement battery packs

Replace those tired cordless phone batteries with a fresh set of Radio Shack rechargeables. Photos at left show the type of connector plug used on each battery pack.

Fig.	Volts	Ah*	Connector	Cat. No.	Each
1	3.6	.280	A	23-194	7.99
2	3.6	.280	B	23-195	7.99
3	3.6	.250	Plate	23-172	9.99
4	3.6	.250	B	23-196	9.99
5	3.6	.250	B	23-197	9.99
6 <b>NEW!</b>	3.6	.280	C	23-199	6.99
7	3.6	.280	B	23-192	7.99
8	3.6	.650	B	23-193	9.99
9 <b>NEW!</b>	4.0	.500	For Sony	23-198	16.99

### Your nearby Radio Shack stocks these unique Ni-Cd batteries and packs

Replacement rechargeable batteries for many types of cordless equipment—power tools, kitchen appliances, flashlights, telephones, toothbrushes, electric razors, much more.

Fig.	Type	Volts	Ah*	Cat. No.	Price
10	"AA"	1.25	0.650	23-191	<b>Pkg. of 2/4.99</b>
11	Pack	3.60	0.280	23-171	6.99
12	Pack	3.60	0.250	23-176	9.99
13	Pack	4.80	0.250	23-173	11.99
14	Sub "C"	1.25	1.600	23-190	<b>Pkg. of 2/6.99</b>
15	Pack	3.60	0.280	23-177	6.99
16	Pack	3.75	0.650	23-170	8.99

### We stock the hard-to-find batteries you won't find at other stores

Radio Shack carries an immense number of batteries, including many special types you can't find anywhere else. Since we sell so many, so fast, ours are always fresh and strong.

Fig.	Volts	Replacement for			Cat. No.	Price
		Duracell	Eveready	Ray-O-Vac		
17	9.0	U9VL Lithium			23-665	6.99
18	7.0	TR175	E175	T175	23-1503	5.99
19	6.0	PX32A	E164	...	23-1502	6.99
20	22.5	M505	505	221	23-510	5.99
21	12.0	M926	732	926	23-007	11.99
22	6.0	Rechargeable, 2.5 Ah			23-181	11.99
23	12.0	...	...	...	23-144	2.99
23 <b>NEW!</b>	12.0	...	...	...	23-154	<b>Pkg. of 2/4.99</b>
24	6.0	PX28L	A544	RPX28	23-469	3.99
25	1.4	DA-630	...	...	23-1501	<b>Pkg. of 4/5.99</b>
26	1.45	DA675	AC675	R675ZA	23-150	<b>Pkg. of 2/1.99</b>
27 <b>NEW!</b>	1.5	PX625	E625	...	23-1504	2.59

### Battery checker with easy-to-read scale

Tests general purpose, alkaline, mercury and charged Ni-Cd batteries. Color scale shows you condition at a glance: green = good, red = replace, yellow = weak. Tests "C", "D", "AA", "AAA", "N" and 9V rectangular sizes. **22-096 . . . . . 9.99**



### Pocket-sized battery checker with LEDs

Instantly and accurately indicates condition of general purpose, alkaline, mercury and Ni-Cd batteries. Red and green LEDs show good, fair, replace and no energy. Tests "C", "D", "AA", "AAA", "N" and 9V rectangular sizes. **22-095 . . . . . 4.99**



### 8-range battery tester with leads



Our best! Checks batteries under load conditions for more accurate readings. Tests virtually all common types, including general purpose, alkaline, lithium, silver oxide and button cells. Easy-to-read scale provides a clear indication of strength: RED zone = replace battery (or recharge if testing a rechargeable type); GREEN zone = good (battery has considerable life remaining); readings falling in between indicate strength is marginal. Adjustment screw to zero needle for precise readings. Terminal posts for checking 9V transistor batteries, recess for testing button cells, color-coded test leads for checking others. 1.5V in three ranges, 3, 6, 9, 12 and 22.5V. **22-032 . . . . . 14.99**

\*Ah=ampere hours. Money-saving quantity prices are available on batteries—see page 219.

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<b>Antennas, TV/FM</b>	...	10%	15%	20%	25%
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PA Equipment	...	10%	15%	20%	25%
Radar Detectors	...	10%	15%	20%	25%
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Radio-Controlled Toys	...	5%	10%	12%	20%
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Security Devices	...	7%	12%	20%	25%
Speakers (Unmounted)	...	10%	15%	20%	25%
Tape Recorders and Players	...	10%	12%	17%	20%
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Tape, Video Recording Cassettes Only	(No Discount)				
Tape Accessories	...	...	10%	20%	25%
Telephones (Also Dialers, Answerers, Amps, Controllers)	10%	12%	15%	20%	25%
Telephone Accessories (279-Series)	...	...	10%	25%	33%
Telephones, Cellular, Pagers	...	...	5%	10%	15%
Televisions, VCRs, Camcorders, Satellite Systems	...	5%	7%	10%	15%
TV/Video Accessories	...	...	10%	20%	25%
Test Equipment, Power Supplies	...	10%	15%	20%	25%
Timers, Electrical Accessories, Plug 'n Power, Flashlights, Clocks, Watches, Metal Detectors, Health, Home Products	...	5%	7%	10%	20%
Tools, Solder, Hardware, Chemicals	...	5%	7%	10%	20%
Transceivers (Business, Personal, Amateur Bands)	...	10%	15%	20%	25%
Wordprocessors	...	5%	7%	See manager	...



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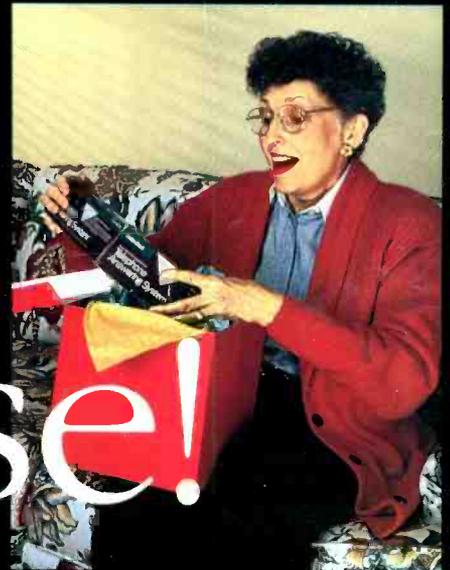
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Look for "(TSP)" preceding catalog number in product descriptions as in example below.

Tone controls and slide-action balance control with center detent. (TSP) 12-1985 ..... 69.99

Series	Description	Price	Years	Series	Description	Price	Years	Series	Description	Price	Years
12	Sound Items below \$50	14.95	3	16	Televisions, Black & White	29.95	3	33	Headphones/Mikes below \$50	19.95	3
12	Sound Items above \$100	24.95	3	16	Televisions, Color	79.95	3	33	Headphones/Mikes above \$50	29.95	3
12	Sound Items above \$100	34.95	3	16	Camcorders	79.95	1	42	Musical Keyboards	29.95	5
13	Systems below \$500	49.95	3	16	Camcorders	199.95	3	42	LAB Turntables	29.95	5
13	Systems above \$500	99.95	5	17	Cellular (mobile only)	99.95	3	42	Components below \$50	19.95	5
14	Decks below \$100	39.95	5	17	Cellular Phones (all others)	129.95	3	42	CD Players	59.95	5
14	Decks above \$100	59.95	5	19	Transceivers	39.95	5	43	TAD Answering Devices	39.95	3
14	Cassettes below \$50	19.95	3	20	Scanners below \$200	39.95	5	43	Phones/Intercoms below \$50	10.95	3
14	Cassettes below \$100	29.95	3	20	Scanners above \$200	59.95	5	43	Phones/Intercoms below \$100	24.95	3
14	Cassettes above \$100	39.95	3	20	Shortwave Radios	19.95	3	43	Phones above \$100	34.95	3
15	Video Items below \$100	19.95	3	21	Communication below \$50	19.95	3	43	FAX Machines	99.95	3
15	Video Items above \$100	29.95	3	21	Communication above \$50	39.95	3	49	Alarm Control Units	29.95	3
16	Video Cassette Players and VCP/TV combos	79.95	3	22	Radar Detectors	39.95	3	61	Security Items below \$50	19.95	3
16	VCRs, CD/LO Players, VCR/TV Combos, VHS	79.95	3	22	Multitesters	9.95	3	61	Security Items above \$50	29.95	3
16	VCRs	49.95	1	31	STA/SCR Receivers	59.95	5	63	Electronic Items below \$50	14.95	3
16	Televsions, Pocket	49.95	3	31	Equalizers	39.95	5	63	Electronic Items below \$100	24.95	3
				32	PA Items below \$50	19.95	5	63	Electronic Items above \$100	34.95	3
				32	PA Items above \$50	39.95	5	65	Calculators below \$50	9.95	3
								65	Calculators above \$50	19.95	3

Discount prices and terms optional in dealer/franchise stores. Discount prices subject to change without notice.



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