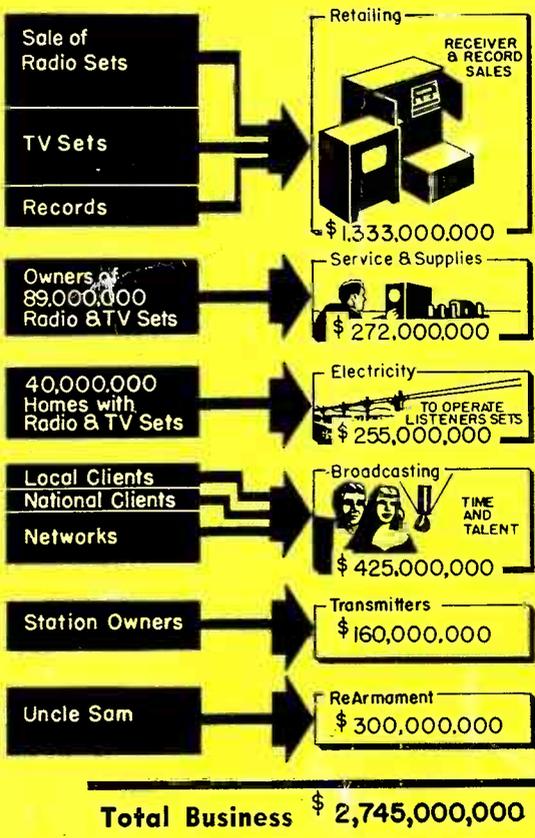
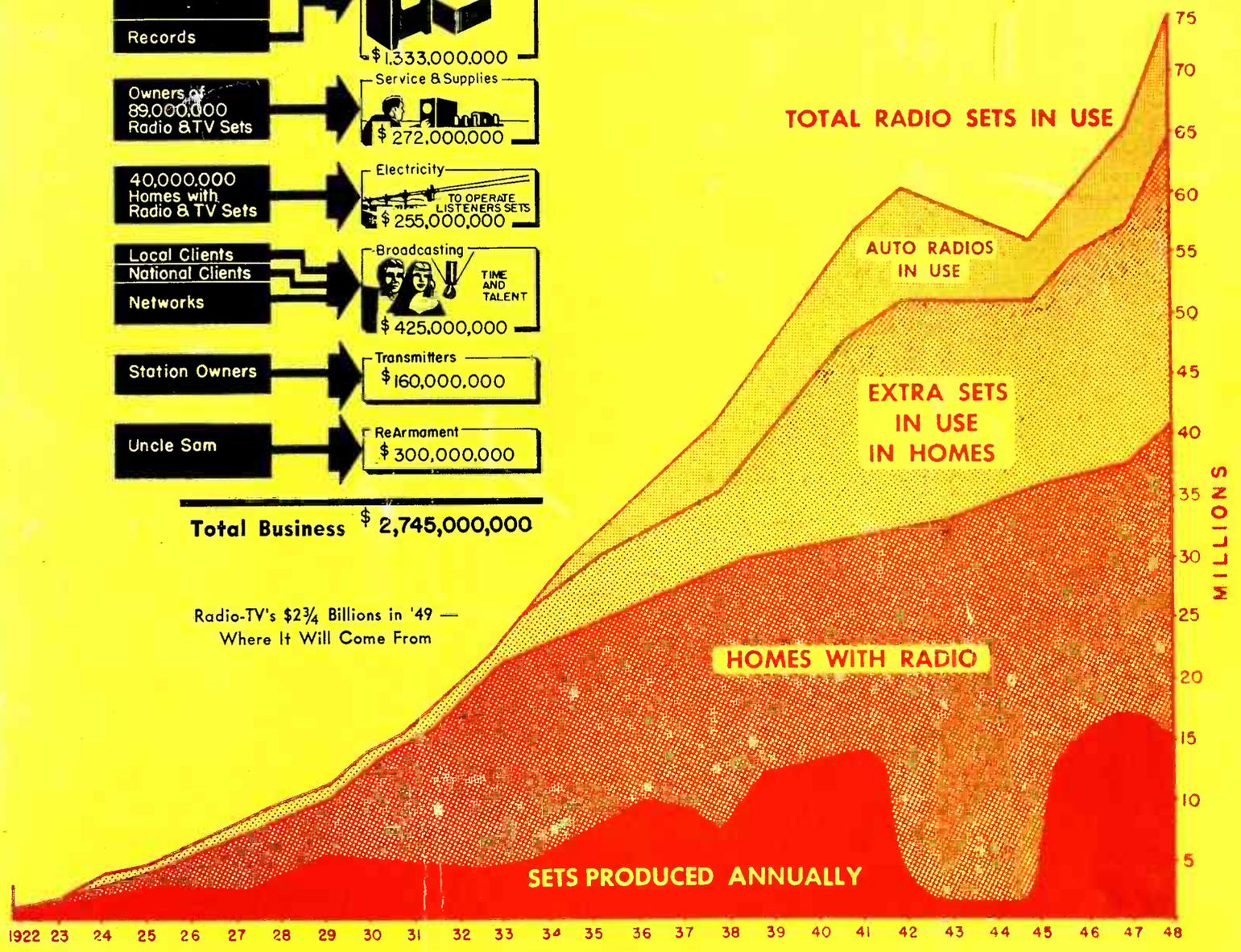


Jan 49

RADIO & TELEVISION RETAILING



Radio-TV's \$2¾ Billions in '49 —
Where It Will Come From



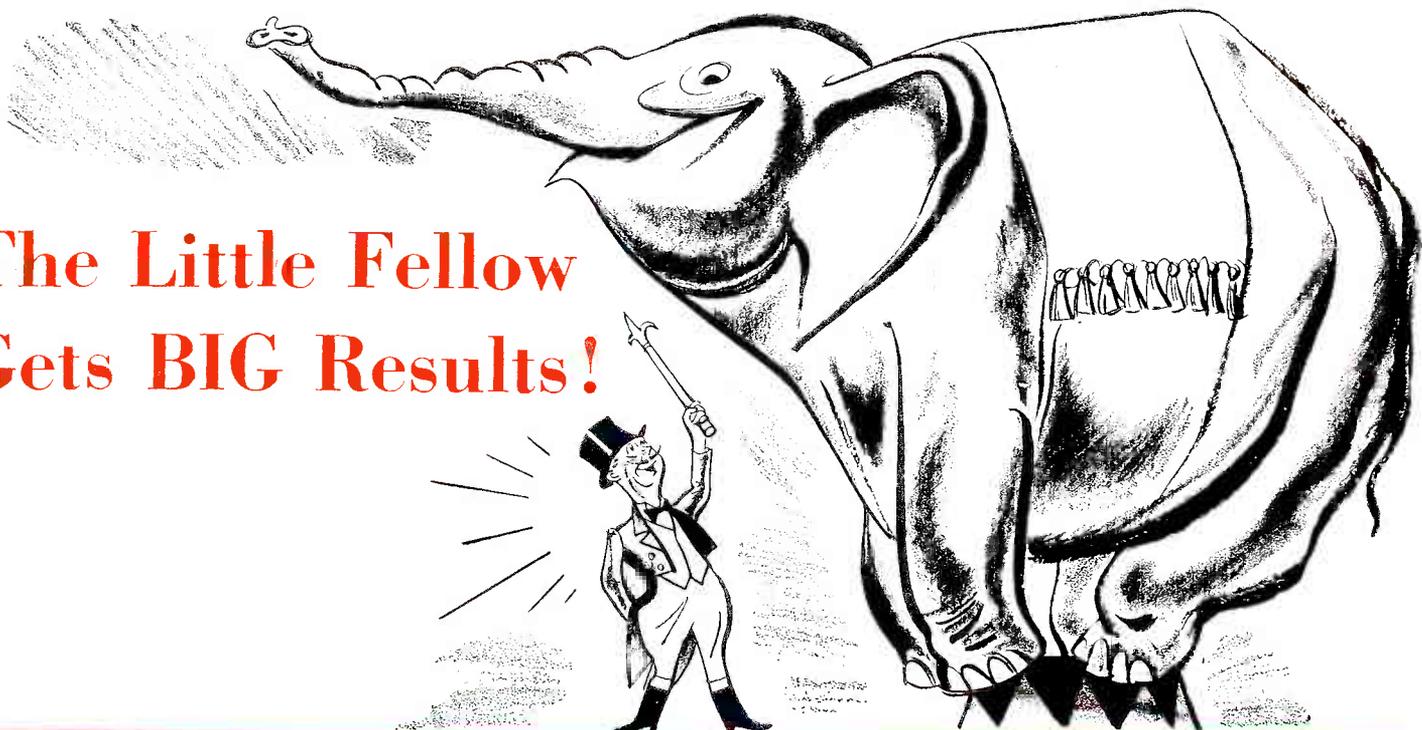
ANNUAL STATISTICAL ISSUE

Including Sales Figures of ELECTRICAL APPLIANCES, RECORDS, RECORDERS, etc.

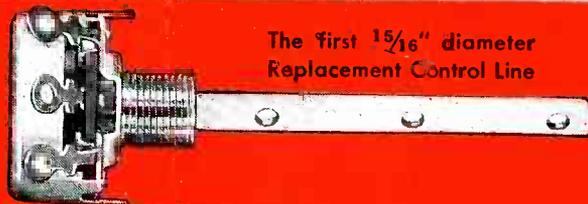
January • 1949

CALDWELL-CLEMENTS, INC.

**The Little Fellow
Gets BIG Results!**



The Mallory Midgetrol



The first $\frac{15}{16}$ " diameter
Replacement Control Line

"Phenomenal!"—that's the only word to describe the lightning-like acceptance of Mallory's revolutionary new standard in volume controls. But its success was a foregone conclusion when you realize what the Mallory Midgetrol offers:

WIDER APPLICATION—The small size lets you service portables, auto radios and small AC-DC receivers requiring $\frac{15}{16}$ " controls.

SIMPLER INSTALLATION—The new and unique flat shaft design of the Mallory Midgetrol saves installation time with *all* types of knobs.

LESS INVENTORY—Electrical characteristics allow you to use the Mallory Midgetrol to replace $1\frac{1}{8}$ " as well as $\frac{15}{16}$ " controls. Since no special shafts are required, you carry fewer controls in stock.

Quietest and Smoothest by Actual Tests

And Mallory Midgetrol stays quiet, too. Creative research that has made Mallory the standard in carbon controls has seen to that. In addition, the Mallory Midgetrol offers nine big features all NEW:

| | | | |
|--------------------------|---------------|-------------|--------------|
| NEW SIZE | NEW SHAFT | NEW SWITCH | NEW CONTACT |
| NEW DESIGN | NEW EXTENSION | NEW ELEMENT | NEW TERMINAL |
| NEW TWO-POINT SUSPENSION | | | |

See your Mallory Distributor for this new standard in carbon controls

P. R. MALLORY & CO. Inc.
MALLORY

CAPACITORS • CONTROLS • VIBRATORS • SWITCHES • RESISTORS
• RECTIFIERS • VIBRAPACK* POWER SUPPLIES • FILTERS

*Reg. U. S. Pat. Off.

APPROVED PRECISION PRODUCTS

P. R. MALLORY & CO., Inc., INDIANAPOLIS 6, INDIANA

RADIO & TELEVISION RETAILING

Including "Radio & Television" and "Radio & Television Today"

IN THIS ISSUE

JANUARY, 1949

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January 1949, Vol. 49, No. 1, 35 cents a copy. Published monthly by Caldwell-Clements, Inc., 480 Lexington Ave., New York 17, N. Y. M. Clements, President; Orestes H. Caldwell, Treasurer. Subscription rates: United States and U. S. Possessions \$2.00 for one year, \$3.00 for two years, and \$4.00 for three years. Pan American Countries \$4.00 for one year, \$5.00 for two years, \$6.00 for three years. Canada \$3.00 for one year, \$4.00 for two years, \$5.00 for three years. All other Countries \$5.00 for one year, \$7.50 for two years, \$10.00 for three years. Printed in U.S.A. Entered as second class matter April 9, 1948 at the Post Office, at New York, N. Y., under the act of March 3, 1879. Member of Audit Bureau of Circulation. Trade-Mark Reg. U.S. Pat. Off. Copyright 1948 by

CALDWELL-CLEMENTS, Inc.
Publishers also of TELE-TECH.

★ *AM, FM, Television*

COVER—Annual Statistical Issue

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Member of
**AUDIT BUREAU
OF CIRCULATIONS**

CALDWELL-CLEMENTS, INC.
480 Lexington Ave., New York, N. Y.

Advertisers of home furnishings, housing equipment, electrical appliances, and radio and television sets, during the first ten months of 1948 placed

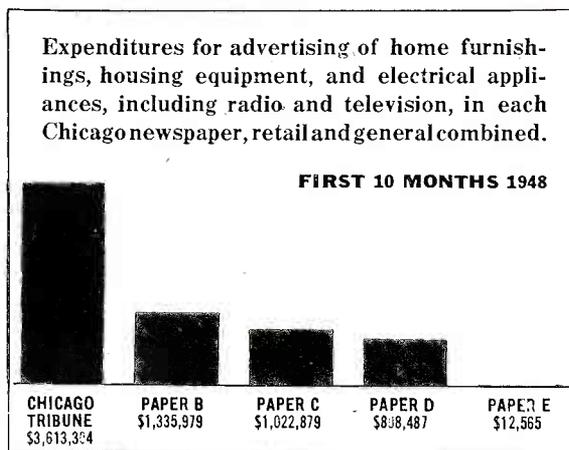
\$3,613,304 in the Tribune

This was 170% more than they placed in any other Chicago newspaper and 13% more than they placed in all other Chicago newspapers combined

WHEN manufacturers, distributors and retailers give such notable preference to the Chicago Tribune you can be sure it is because they know from experience that the Tribune reaches most effectively the families who do the bulk of the buying in this market.

Daily and Sunday in Chicago and suburbs, the Tribune delivers hundreds of thousands more circulation than other Chicago newspapers. Alone it delivers the full market circulation needed to take maximum advantage of metropolitan Chicago's broader distribution of spendable income.

In addition, the Tribune gives your promotion the regional circulation which builds consumer favor and dealer support thru-out the multi-billion dollar greater Chicago market. In this market there are 756 cities and towns of 1,000 or more population. On weekdays the Tribune is read by better than one out of every three of all the fami-



lies in these 756 communities. On Sundays, close to three out of five read the Tribune.

The Tribune rates first with salesmen because it rates first with retailers. From experience, dealers know that hardlines move faster when they are backed with adequate schedules in the Chicago Tribune. Ask a Tribune representative to help you build a Chicago program that will sell more in 1949 and build solidly for the future.

Chicago Tribune

THE WORLD'S GREATEST NEWSPAPER

CHICAGO TRIBUNE REPRESENTATIVES: A. W. Dreier, 810 Tribune Tower, Chicago 11; E. P. Struhsacker, 220 East 42nd St., New York City 17; W. E. Bates, Penobscot Bldg., Detroit 26; Fitzpatrick and Chamberlin, 155 Montgomery St., San Francisco 4; also, 448 S. Hill St., Los Angeles 13.
MEMBER: AMERICAN NEWSPAPER ADVERTISING NETWORK, INC., FIRST 3 MARKETS GROUP, AND METROPOLITAN SUNDAY NEWSPAPERS, INC.

NOVEMBER AVERAGE NET PAID TOTAL CIRCULATION: DAILY, OVER 970,000—SUNDAY, OVER 1,625,000

for '49

Wilcox-Gay has the profit line!

Here are four sensational Wilcox-Gay models—all profit-makers—and all available for immediate delivery. There is a demand right now for every one of these units. Get yours in stock—to make sure of getting your share of the profits. Call or write your Wilcox-Gay distributor today!



Weights Only 18 Pounds!

MODEL 8J10

RECORDETTE—Recording radio-phonograph, ideal for business or pleasure. Records from microphone or radio. Plays all records up to 12 inches. Complete with airplane luggage type carrying case.

NEW— ANOTHER FIRST



MODEL 9G10

AM-FM Dual-Speed Portable!

DUAL-SPEED DISC RECORDER—Newest addition to the famous Wilcox-Gay line! Makes recordings from microphone or radio at either 78 or 33 $\frac{1}{3}$ RPM. Incorporates quiet FM in addition to standard AM reception. A compact and efficient instrument featuring ease of operation.



Magnetic Tape Recorder!

MODEL 8U12

MAGNETIC TAPE RECORDIO—A compact, precision-built instrument that can be carried anywhere. Makes full half-hour of continuous recording on one tape. Records from microphone or radio connection. Weighs only 25 pounds. Auxiliary speaker, for group listening, available as an accessory.

Plays 45-Minute Records!



MODEL 8F30

WIRELESS RECORD PLAYER—Plays new long-playing records through any radio. No connections of any kind are required. Featherweight pickup saves record wear, gives amazing high-fidelity response. Weighs less than six pounds!

by the makers of

Recordio

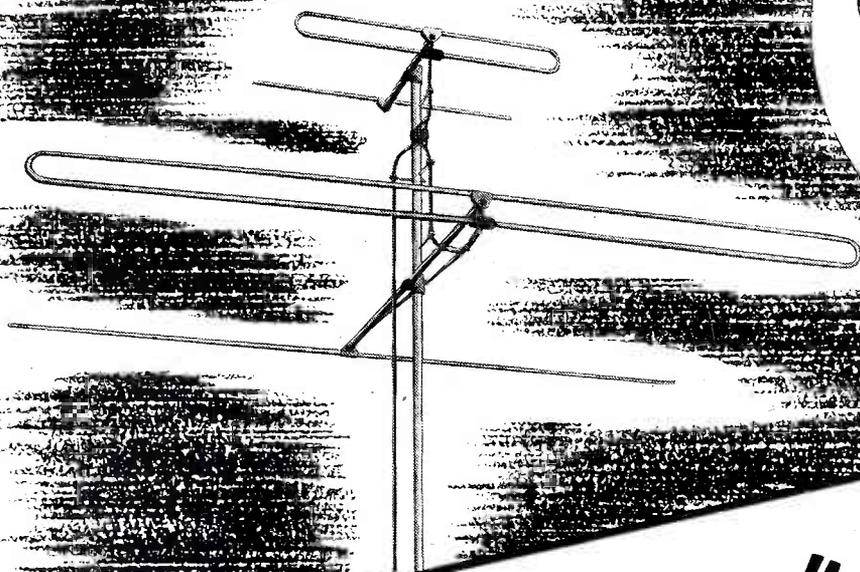
T. M. Reg. U.S. Pat. Off.

WILCOX-GAY CORPORATION • CHARLOTTE, MICH.

In Canada: Canadian Marconi Company

MAKES THE BEST TELEVISION RECEPTION BETTER

THE
Quality
ANTENNA
LINE



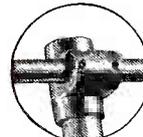
"Simpli-Flex" TELEVISION
and
FM ANTENNAS

SIMPLI-FLEX means just what it says! SIMPLE to install . . . FLEXible for any requirement! Its design allows it to be built up from the basic dipole to multiple stacked all-channel arrays by the addition of reflector kits and additional arrays as required when more stations get on the air.

● Here is the most successful . . . the best engineered antenna line in the field! The Radiart line of antennas is GUARANTEED to produce the ultimate in television and FM reception . . . covering all 12 channels! Radiart Simpli-Flex antennas get the picture — where others fail . . . so install RADIART . . . for TROUBLE FREE . . . SPEEDY . . . AND LESS COSTLY INSTALLATION!



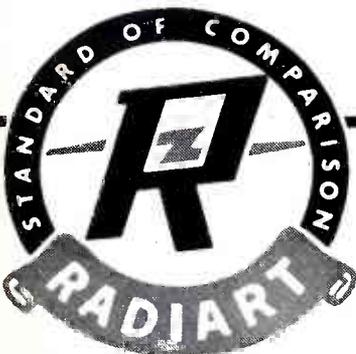
No "assembly puzzles" with Radiart's "SIMPLI-FLEX" design. No degree in engineering or truck-load of tools needed — absolutely no loose hardware. One minute assembly, one man installation!



High strength, well engineered design of more than ample safety factor, with simple, sturdy all aluminum castings, elements, and heat-treated support masts for PERMANENT installations.



"WEATHER-SHIELD" polystyrene terminal block encloses lead-in connections and protects from all weather conditions! Keeps electrical performance at maximum.



IT'S RIGHT WHEN IT'S RADIART

THE RADIART CORPORATION

CLEVELAND 2, OHIO

MANUFACTURERS OF THE FAMOUS RED SEAL VIBRATORS

EXPORT . . . SCHEEL INTERNATIONAL . . . CHICAGO 18, ILLINOIS



The Eyes of America
are on PHILCO
for the Big Refrigerator
news of 1949!

YES, it's big news . . . sensational news . . . revolutionary new developments of Philco Advanced Design that make history in refrigeration.

Philco distributors all over America are telling the story to Philco dealers now. Watch for the announcement of your meeting and be sure to attend. It's the big profit story in refrigeration for 1949!



hallicrafters

selects

PROTELGRAM

for

Perfected Picture Projection



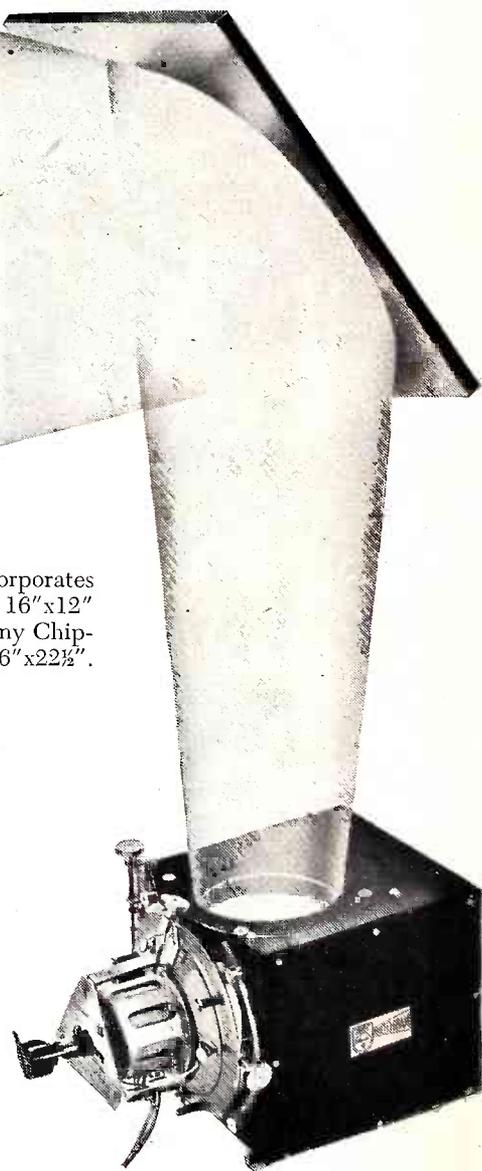
The Hallicrafters Model No. T-68 incorporates the PROTELGRAM system with 16" x 12" viewing screen in a classic mahogany Chipendale cabinet measuring 40" x 26" x 22½".

Preferred by **MANUFACTURERS OF QUALITY TELEVISION RECEIVERS**

Now, with NORELCO PROTELGRAM supplying perfected picture projection, HALLICRAFTERS—another leading producer of quality television receivers—is bringing to the discriminating user large-screen, clear-view television entertainment.

The large distortion-free 16" x 12" picture—a full 192 square inches—is free from discoloration. NORELCO PROTELGRAM reproduces picture tones in true black, gray and white without glare or eyestrain. And, because NORELCO PROTELGRAM large-screen projection permits normal viewing at less than 5 feet and upwards, it is ideal for either small or large groups.

More and more of America's leading producers of quality television receivers are making dependable large-screen, clear-view projection an actuality with NORELCO PROTELGRAM.



The PROTELGRAM projection system consists of a specially developed 2½" projection tube, an optical box with focus and deflection coils, and a 25 kv regulated power supply unit. Compactness and flexibility make possible large-picture television in average size radio-phonograph consoles, consolettes and table model television receivers.

NORTH AMERICAN
PHILIPS
COMPANY, INC.

Norelco

PROTELGRAM

IS PICTURE PERFECTION IN PROJECTION

NORTH AMERICAN PHILIPS COMPANY, INC.

DEPT. TR-1, 100 EAST 42nd STREET, NEW YORK 17, N. Y.

IN CANADA: PHILIPS INDUSTRIES LTD., 1203 PHILIPS SQUARE, MONTREAL ★ EXPORT REPRESENTATIVE: PHILIPS EXPORT CORPORATION, 100 EAST 42ND STREET, NEW YORK 17, N. Y.

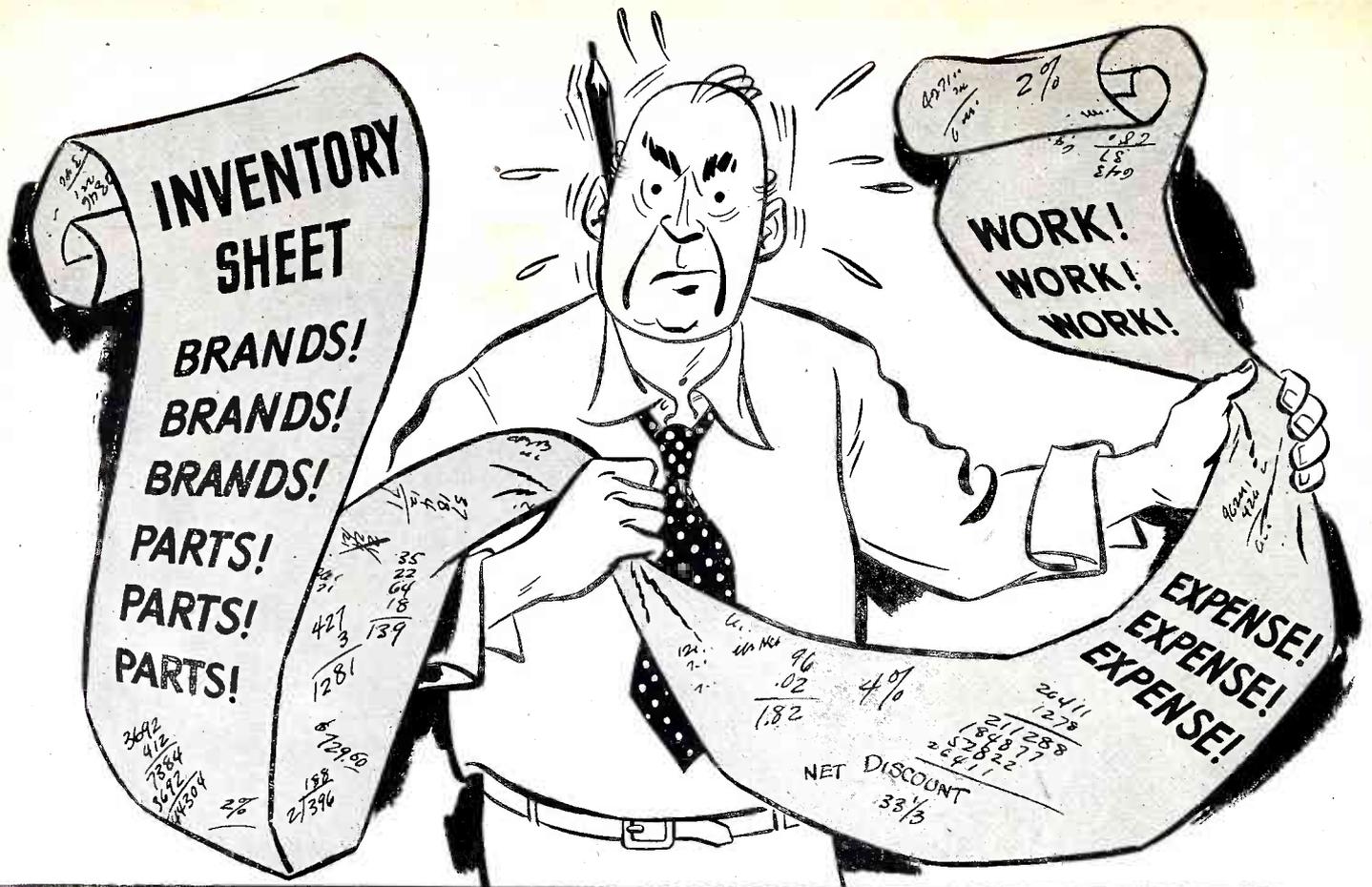
MAKES FRIENDS...AND KEEPS THEM!



GENERAL  **ELECTRIC**

181-NAE-9880

FIRST AND GREATEST NAME IN ELECTRONICS



Concentrate on Philco

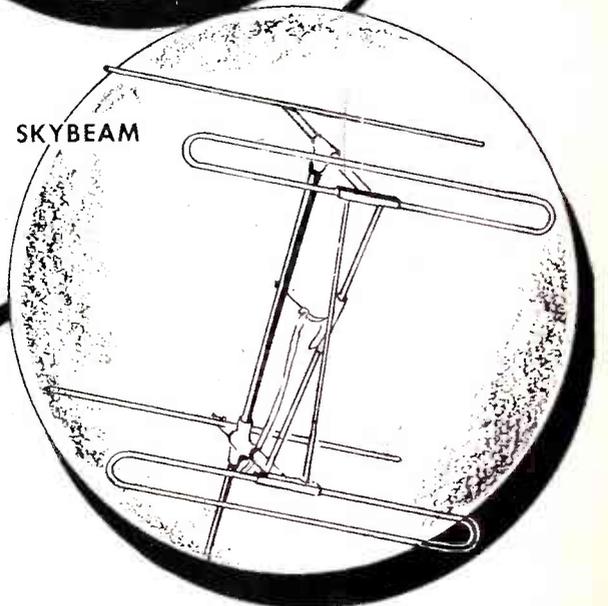
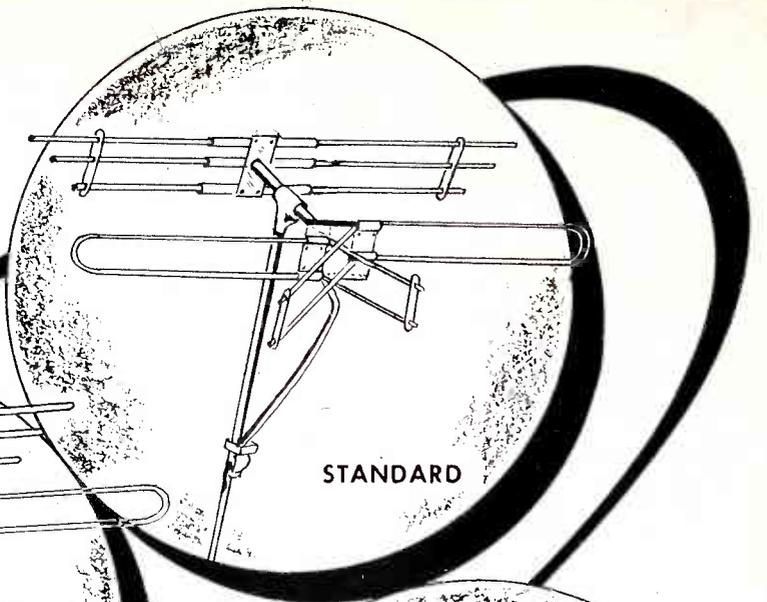
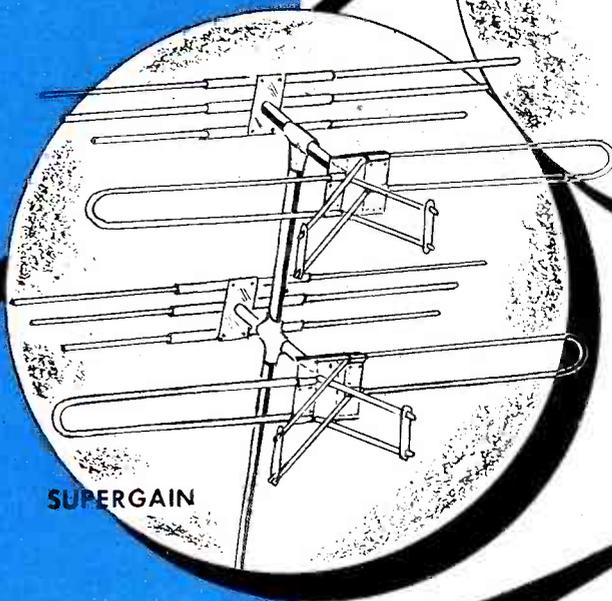
... the brand radio owners prefer

FOR A MORE PROFITABLE PARTS BUSINESS IN 1949

Your customers own more Philco radios by far, than any other make. Yes, they have been buying more Philcos for 18 straight years—creating for you the biggest replacement market for parts and accessories—a market you *know* prefers Philco. Take advantage of this preference by selling genuine Philco replacements. Streamline your stock, speed-up turnover, increase your profits by concentrating on Philco parts and accessories in 1949.

SEE YOUR PHILCO DISTRIBUTOR

3 Good Reasons



For



Superiority

- **SKYBEAM MODEL LHF** — The only high fidelity high frequency antenna in the field. This amazing high frequency channel antenna, includes all the proven fine features of Lyte products, precision, rigidity and proven scientific construction. "SKYBEAM" is guaranteed to produce outstanding results on all high frequency channels 7 to 13.
- **SUPERGAIN MODEL LTD** — The revolutionary Lyte Supergain antenna, especially designed for maximum signal strength, gives amazing reception for longer distances. This laboratory and field proven Lyte antenna covers channels 2 to 13. Supergain boasts the tops in television reception for an all round antenna.
- **STANDARD MODEL LTR** — The most widely and successfully used all round television antenna. Designed for 72 to 300 OHM service, this remarkable antenna serves TV channels 2 to 13 and all FM Bands, as proven by thousands of delighted users. LTR boasts maximum signal strength and highest gain on all frequencies.

BEST BY TEST

DEALERS: Increased production facilities allow the addition of a limited number of Lyte dealerships, prompt action is necessary if you wish to secure part of this lucrative market, contact Lyte parts at addresses below.

LYTE PARTS CO.

11 Washington Ave.
Plainfield, New Jersey

195 Main Street
Dubuque, Iowa

Here's that Triplett F.M.-A.M.

Sig. Gen.

Frequency Ranges: Fundamentals—from 100 K.C. to 120 M.C. in ten bands. Added Frequency—(provided by built-in fixed 50 M.C. oscillator) from 120 M.C. to 170 M.C. Second harmonics can also be used to double the A.M. fundamental ranges.
Dealer Net . . . \$173.25

MODEL 3433

**F.M. SWEEP FROM 0 TO 300 K.C.
 MODULATION FREQUENCY 60 OR
 400 CYCLES PER SECOND**

Stable frequency modulated signals give undistorted wave form. This permits easy and more precise alignment over all frequency ranges thus insuring maximum performance in a radio set that can in every way be comparable with original factory adjustments.

Other features include: constant deviation by using a fixed frequency reactance modulated oscillator, 110 Volt A.C. line filter to prevent leakage thru power supply, horizontal synchronized sweep voltage available thru jack on front panel.



For Ranges from 165 K.C. to 120 M.C. Select the Signal Generator with the Illuminated Dial

- Seven long scaled 330° arc.
- A big open, illuminated scale—easily read.
- 5 Fundamental Ranges 165 K.C. to 40 M.C.
- 2 Harmonic Ranges directly calibrated 36 M.C. to 120 M.C.
- 10 to 1 vernier tuning.

RANGES

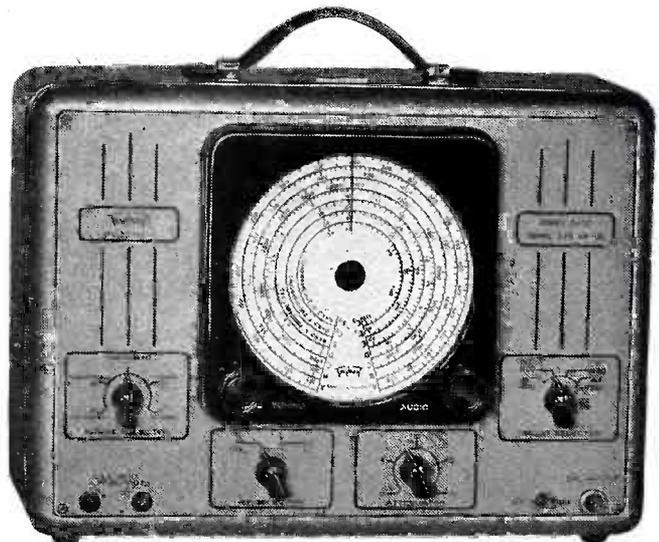
| | |
|----------------|---------------------|
| A-165-525 KC | E-18-40 MC |
| B-500-1750 KC | Harmonics to 120 MC |
| C-1700-6200 KC | E2-36-80 MC |
| D-6-18.5 MC | E3-54-120 MC |

Here is a very popular unit since everyone needs a stand by signal generator.

MODEL 3432 with its uniformly illuminated dial is the top value in signal generators for ranges to 120 MC. All R.F. and audio circuits are double shielded with copper plated steel . . . transformer is electrostatically shielded . . . the circuit selector provides for internally modulated signal (variable 0 to 100% at 400 cycles). Variable amplitude of external modulation 40 to 15,000 cycles, unmodulated signal or variable audio 0-10 volts at 400 cycles. The output attenuator provides fine control of R.F. Output to Co-axial output cable connector . . . Housed in Metal case, tan enamel finish. Leather strap handle for carrying.

MODEL 3432

Illuminated Dial
\$69.50 Dealer Net



Precision first... to Last

SEE AT YOUR RADIO PARTS DISTRIBUTOR OR FOR MORE INFORMATION . . . WRITE

TRIPLETT ELECTRICAL INSTRUMENT COMPANY • BLUFFTON, OHIO, U.S.A.

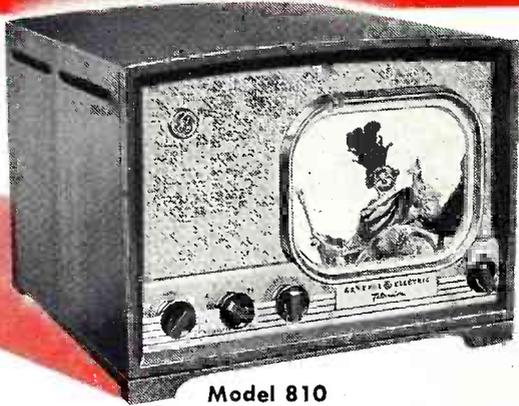
In Canada: Triplett Instruments of Canada, Georgetown, Ontario





DAYLIGHT TELEVISION

selling
—the greatest feature in all television!



Model 810

◆ Your customers can enjoy the daylight bright, daylight clear, daylight sharp pictures of G-E Daylight Television—at an amazingly low price. Model 810. 10" direct-view tube. Mahogany veneered cabinet. **\$325.00*** (plus installation)



Model 814

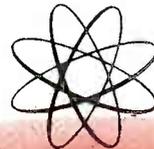
◆ New! Large screen table television! 12½" direct-view tube—largest daylight picture yet! G-E Automatic Clarifier for sharp, clear pictures. Mahogany veneered cabinet. Model 814. **\$389.50*** (plus installation)

*Prices slightly higher West and South, subject to change without notice.

◆ Complete home entertainment center. Everything your customers want—in one exquisite mahogany cabinet. Daylight Television—12½" direct-view tube the "best picture in sight—day or night". . . FM-AM — short-wave radio . . . dual phonograph plays both type records automatically! Model 840. **\$995.00*** (plus installation)



Model 840



Performance-Engineered at Electronics Park

With its renowned scientists, electronic engineers and highly skilled technicians, plus all the facilities of the most modern laboratories and production lines, Electronics Park is truly the world center for electronic progress! Performance-engineered means your customers get utmost value in G-E television sets.

You can put your confidence in—

GENERAL  **ELECTRIC**

STROMBERG-CARLSON

STARTS RIGHT

with new
**120 square-inch super-clear
TELEVISION**

"You'll SEE it Better . . . HEAR it Better" is a bigger selling appeal than ever with Stromberg-Carlson television! The great new tube gives prospects a 120 square-inch picture that is wonderfully spacious and delightfully clear even across a large, lighted room. And only one knob makes all normal picture adjustments! Superlative Stromberg-Carlson tonal fidelity gives dramatic realism to all services. Smart decorator-designed cabinets, in ribbon-striped mahogany veneers, reflect the modern spirit of television and complement even the finest traditional room plan.



New! The MONMOUTH Television-Radio-Phonograph. Exceptionally clear, sharp, bright 120 square-inch direct-view picture. Superb sound reproduction of TV, AM, FM and records. New *single-arm* duo-speed changer plays standard and long-playing records, 10 and 12 inch intermixed, with automatic stop. Door opens fully. **TS-16-M1.**



New! The YARMOUTH Television and FM-AM Radio. Exceptionally clear, sharp, bright 120 square-inch direct-view picture, same as Monmouth model. Magnificent tonal reproduction of TV, FM, and AM radio—also of records, through phonograph connection. **TS-16-L1.**

STOP!_LOOK!_ and LISTEN!... THERE IS NOTHING FINER THAN A

NOW TO MAKE

NEWS for '49!

with smart new
popular-priced, long-playing
RADIO-PHONOGRAPHS

Stromberg-Carlson does it again . . . gives you what every customer wants in fine, popular-priced instruments, backed by a name that has stood for highest quality since the beginnings of radio. The new **WINDEMERE FM-AM Radio-Phonograph** is an example of the splendid models and values that will be offered in '49. At a reasonable price, it gives prospects magnificent tonal quality . . . no-drift FM tuning . . . unique treble and bass tone control . . . and new *single-arm* duo-speed changer for standard and long-playing records, 10 and 12 inch .



New! The WINDEMERE. In exquisite cabinet of matched mahogany veneers, hand-rubbed to a satin finish. #1406-PLM.



New! The WINDEMERE. In smart cabinet of rare blonde avodiré veneers, hand-rubbed to a lasting satin finish. #1406-PLA.

STROMBERG-CARLSON

Stromberg-Carlson Company, Rochester 3, N. Y.—In Canada, Stromberg-Carlson Company, Ltd., Toronto



Acclaimed!

*for big picture size . . .
for superior picture detail . . .
for luxurious cabinet design . . .*

FADA

PROJECTION TELEVISION CONSOLE MODEL 880

Big Screen 12 Inches by 16 Inches . . . 192 Square Inches in Area. 36 Tubes including Kinescope Tube and 6 Rectifiers. Incomparable chassis details following closely our Model 899 Television Receiver. Unique optical system makes for brilliance and picture detail unsurpassed. Gorgeous Console Cabinets in Genuine Mahogany or Genuine Blonde Mahogany Veneer.

"The Television of to-morrow . . . TO-DAY! . . . Pioneers in Radio and Electronics since 1920"

FADA RADIO & ELECTRIC COMPANY, INC.
BELLEVILLE, NEW JERSEY

MINIATURE TUBE MERCHANDISER TM-30

It's NEW!
IT'S CLEAR PLASTIC



**SOLVES STACKING
PROBLEM!
KEEPS SHELVES
TIDY!**

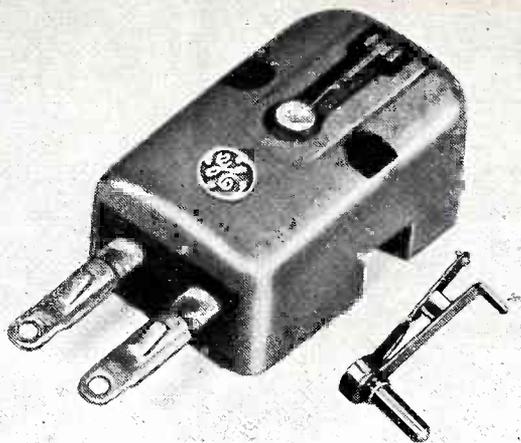
**INVENTORY AT
A GLANCE!
INSTANT SELECTION!
REDUCES SPACE
REQUIREMENTS!**

TUNG-SOL LAMP WORKS INC., NEWARK 4, NEW JERSEY

Manufacturers of Electron Tubes and Radio Dial Lamps

SALES OFFICES: ATLANTA • CHICAGO • DALLAS • DENVER • DETROIT • LOS ANGELES • NEWARK

NEW!



G-E VARIABLE RELUCTANCE CARTRIDGE

*with the replaceable stylus for
Conventional and Long Playing Records*

NOW—in one small unit—all the sales and performance advantages of the G-E Variable Reluctance Cartridge plus this additional consumer economy feature—the Replaceable Stylus.

Negligible needle scratch and needle talk, minimum record wear, wide frequency response, freedom from resonance peaks, realistic reproduction—these are maintained at all times, simply, easily, economically with the Replaceable Stylus.

No more changing of the entire cartridge means more frequent replacement of stylus by the consumer because he can do it himself so easily.

Four simple steps—and presto! The worn stylus is replaced and maximum high quality performance is restored for the critical listener.

Note, too, these additional features: 

- New notched design . . . one-third smaller . . . improved shape . . . more generally adaptable to various tone arms.
- More clearance for record changers.
- Higher lateral compliance for more faithful tracking.
- More economical for the customer—more sales for the dealer.
- Cartridges available for LP records with 1 mil stylus; for conventional records with 3 mil stylus.

For complete information on the new Variable Reluctance Cartridge write: *General Electric Company, Electronics Park, Syracuse, New York.*



1 Simply remove cartridge from tone arm.



2 Use paper clip or wire to force stylus out of the cartridge.



3 Insert new stylus into cartridge with fingers.

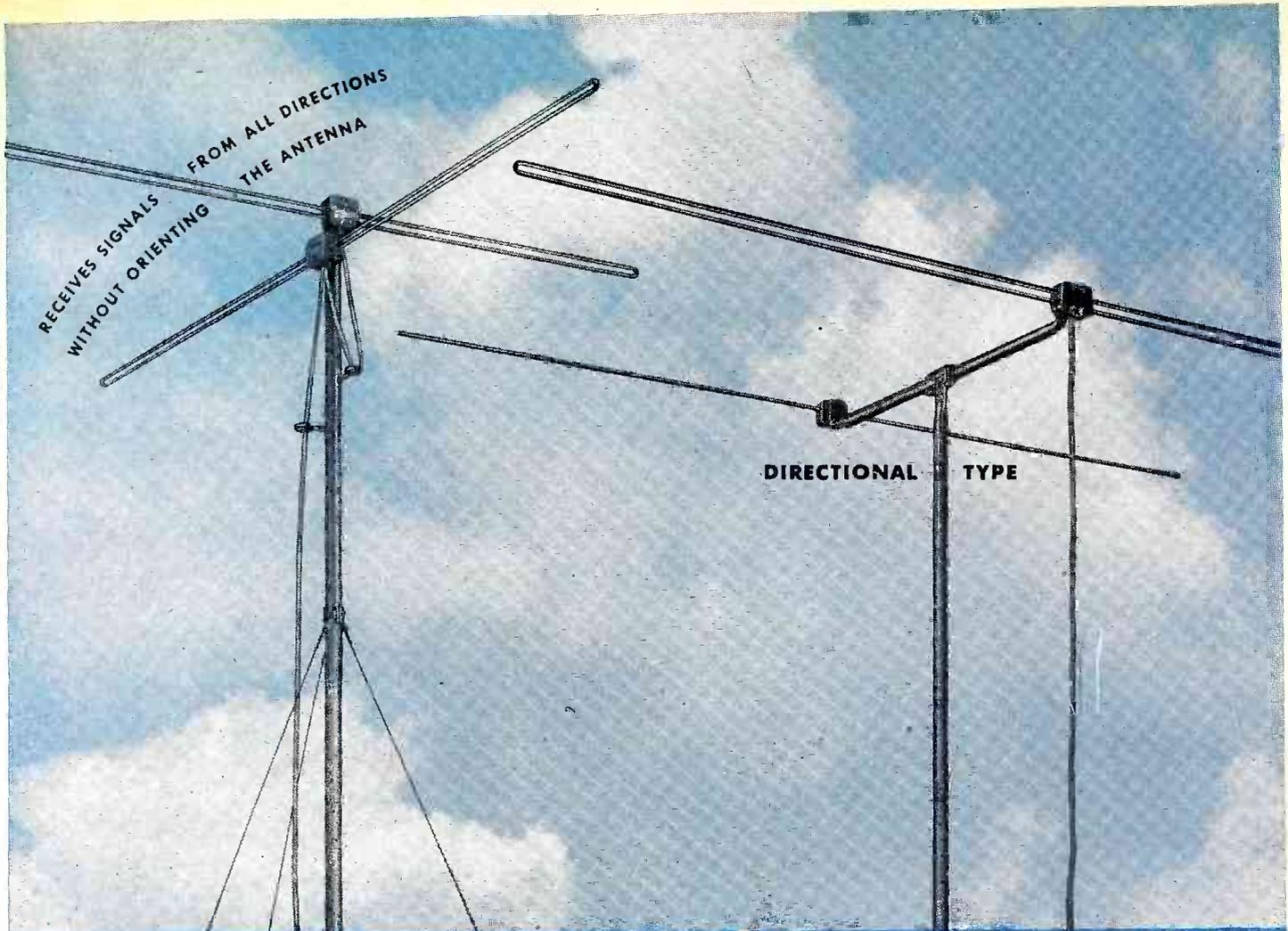


4 Press firmly into position with thumb nail.

You can put your confidence in—

GENERAL  ELECTRIC

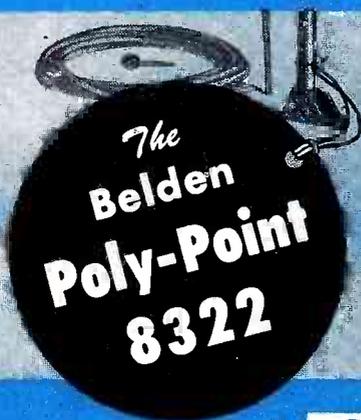
178-H1



RECEIVES SIGNALS
WITHOUT ORIENTING
THE ANTENNA

DIRECTIONAL TYPE

Insure FM Performance with a GOOD FM ANTENNA



The
Belden
Poly-Point
8322

- Belden FM Antennas are engineered for finest FM reception.
- Use Belden 8322 Poly-Point Antenna to receive signals from all directions without turning!
- Use Belden 8320 Dipole Antenna for installations requiring directional characteristics.
- Sturdy aluminum construction withstands severe ice loading and high wind.
- COMMON-SENSE PRICES.

ASK your Belden Jobber



The
Belden
Dipole
8320

Belden

Radio WIRE

Bendix Radio



Model 69M9—AM-FM radio,
single-speed record changer, decorator-
styled mahogany cabinet.

\$169⁹⁵

Model 69M8—AM-FM radio with
dual-speed standard and LP micro-
groove record changer, decorator-
styled mahogany cabinet.

\$179⁹⁵

TELL THE BIGGEST VALUE STORY IN RADIO!

With these richly beautiful, brand new 1949 models on your floor, you'll offer bargain-hungry buyers exactly what they want. Most models are equipped with the latest type dual-speed record changer that plays both standard and LP micro-groove records automatically. Long-range "Front Row" AM-

FM performance is brilliantly better even to untrained ears. Aviation Quality and big-name backing add the glamour that eases selling. Yet the "no middleman" prices are on a level with quality-shy, cut rate merchandise! Judge like a customer and you'll agree—here's the best line for '49.



Model 69B8—AM-FM
radio, blonde mahogany
cabinet, dual-speed standard and
LP microgroove record changer.

\$189⁹⁵

Model 79M7—AM-FM radio, dual-speed
standard and LP microgroove record changer, a
period-piece mahogany cabinet.

\$189⁹⁵



HOW CAN YOU MISS WITH A PROGRAM LIKE THIS! The appointment of only one dealer in each community • Direct factory-to-dealer shipments • Freight prepaid to destination • Low consumer prices competitive with national chains and mail order houses • Liberal dealer discounts • Nationally advertised retail prices protected by your exclusive franchise • Radio and television built to Bendix Aviation Quality standards • A complete line of radios and radio-phonographs including famous Bendix Long-Range FM • The most advanced television created by the acknowledged leaders in radar and radio engineering • Consistent national advertising that builds store traffic for you • Compelling point-of-sale promotion helps • Special promotion models to meet competitors' "off-season" distress sales • Many other profit-building features.

"Success Line" for '49

DEFEATS COMPETITION!

Bendix Radio and Television

DIRECT-TO-DEALER PROGRAM

ARMS THE INDEPENDENT RETAILER TO FIGHT
SUCCESSFULLY FOR THE **85%** OF THIS BILLION
DOLLAR BUSINESS OTHERWISE OUT OF HIS REACH

That's right . . . under normal competitive conditions—*now rapidly returning*—85% of all radio and television business goes to such operators as chain stores, discount houses, cut-throat competitors, and the like. *But you, personally, can reverse this trend.* You can meet this competition on better than equal terms. You can sidestep ruinous price-cutting and dumping by fellow retailers handling the same line. You can win a

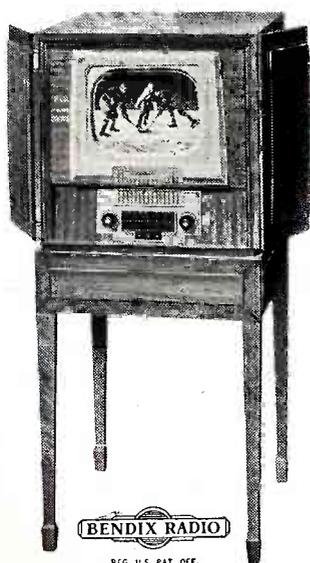
full and genuinely profitable share of this great and growing market beginning right now.

Thousands of retailers are today reaping the benefits of the power-packed Bendix Radio Direct-to-Dealer plan. Get the facts and see for yourself how Bendix Radio protects your profits and your future. But do it now—remember, this franchise is open to only select dealers in each community.

BENDIX "Front Row" TELEVISION—No antenna needed in most locations!

Only Bendix Television dealers can say "just plug it in and press a button . . . no antenna needed in most locations"—because only Bendix Television combines a built-in antenna, push-button tun-

ing and automatic picture control. For the first time you can utilize the sure-fire selling of a home demonstration because you can move in a set—just plug it in and show a picture right away!



**You Be the Judge
and Jury!**
Visit Space 545D at
the American Furniture Mart or
write for booklet.

Compact cabinet in dark or blonde mahogany with brass door pulls. 52" screen, built-in antenna, push-button tuning, automatic picture control. Matching mahogany table. \$14.95.

\$349⁹⁵

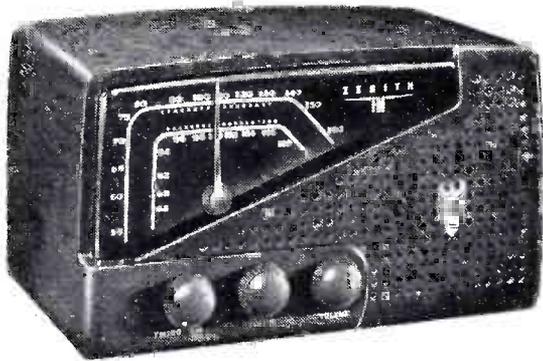
BENDIX RADIO DIVISION of
BALTIMORE 4, MARYLAND



There's nothing finer than this period console with AM-FM radio, dual-speed standard and LP micro-groove record changer, 52" screen, built-in antenna, push-button tuning, automatic picture control.

\$629⁵⁰

ZENITH gives you an FM-AM Radio in every price range



THE "TRIUMPH"

Radio sensation of the year. Not imitation, but genuine *Zenith-Armstrong* FM even at this low price. Glorious-toned, static-free FM with exclusive patented "Power Line" Antenna—just plug in and play. Long-range AM reception, improved Wavemagnet.† Zenith-built Alnico "5" speaker. New "Cut-Away" Dial—so easy to see and tune. Swirl walnut, or black plastic cabinet. Plays on AC, DC.

\$59⁹⁵*

White Plastic
\$62.95*

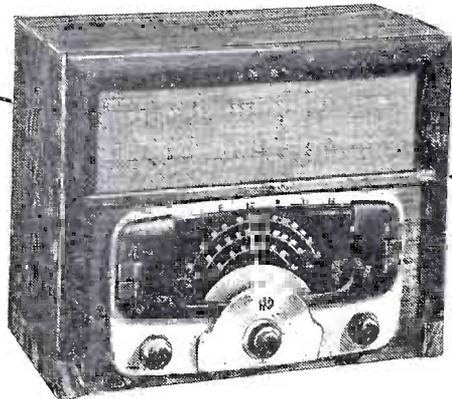


THE "SYMPHONY"

Widely used by FM stations for demonstrations and monitoring broadcasts, the Zenith "Symphony" is famous for its rich, big console tone . . . tone that will make sales for you. Powerful 7½-inch speaker is made possible by Zenith's patented DialSpeaker design. New Type Tone Control provides greater fidelity. Genuine Zenith-Armstrong FM with Zenith's patented "Power Line" Antenna gives glorious, static-free reception. Improved Wavemagnet. Rich swirl plastic cabinet. Plays on AC or DC.

\$79⁹⁵*

White Plastic
\$82.50*



THE "VICEROY"

Just look at the sales features that make this set tops among FM-AM table radios. Powerful New *Twin Speakers* for a rich, full tone never heard before in a table radio. Exclusive Zenith Radiorgant† Tone Control—like that featured on big consoles. Same Extra-Power, supersensitive AC chassis as famous 9-H series Zenith Consoles. Genuine Zenith-Armstrong FM with patented "Power Line" Antenna, plus world-famous Zenith long-distance AM reception with improved Wavemagnet. American walnut veneer cabinet.

\$99⁹⁵*

Keep an eye on



†Reg. U. S. Pat. Off.
*West Coast prices slightly higher. Prices subject to change without notice.

A COMPLETE LINE YOU CAN MERCHANDISE EFFECTIVELY

Now, Zenith† gives you the first *complete* line of FM-AM radios. These three outstanding new table models are destined for the same dominating leadership that Zenith console and chairside FM-AM radio-phonographs already enjoy. Yes, Zenith's superb FM line includes a radio priced to suit every customer—each one packed with quality and features that make him stop for a second look—and a second listen.

Each of these table models offers genuine *Zenith-Armstrong* static-free FM . . . Zenith's famous *Long-Distance* AM . . . FM-AM aerials built-in . . . Tone that surpasses many consoles . . . Stunning new cabinets. Ever hear of so many *demonstrable* features . . . with so much *customer* appeal? Yes, Zenith FM-AM table models mean sales and profits aplenty for you.

ZENITH RADIO CORPORATION
6001 Dickens Avenue, Chicago 39, Illinois

SYLVANIA ADVERTISING HELPS SERVICE DEALERS INCREASE THEIR SERVICE BUSINESS!

Read what these 3 dealers say about Sylvania's Dealer Campaign for Summer and Fall

ELECTRONICS Service Company

Public Address F. M. Radio Recording Equipment
Phone 3-2342
Tulsa, Oklahoma

October 23, 1948

Advertising Department
Sylvania Electric Products Inc.
Emporium, Pa.

Gentlemen:

We would like to express our appreciation to Sylvania for its co-ordinated advertising campaign. It has, so far, resulted in a steady increase in our service business. During September our business increased 30 per cent and to date in October it has shown a 28 per cent increase. We feel that this increase is due to this campaign since we have used it exclusively during this time.

We have used the radio spot announcements over our local station and mailed the direct mail postal cards to our customers. We have also used the newspaper ad mats in our local paper upon occasion.

It is a great help to the radio service business to have this service provided so inexpensively. Thanks to you of Sylvania.

Very truly yours,
Vernor P. Rodgers, Jr.
Vernor P. Rodgers, Jr.
Manager and Prop.

VPR:ML

"September business increased 30%"

DAMON'S RADIO SERVICE
1006 E. 14TH ST. SAN LEANDRO

RAPID Radio Service

Dist. TR. 4253
1006 East 14th Street
SAN LEANDRO, CALIF.

R. H. DAMON

Advertising Department
Sylvania Electric Products Inc.
Emporium, Pa.

Gentlemen:

Enclosed is my order for the second kit in the Sylvania co-ordinated advertising program.

I took over this business on July 1 and have been using the advertising material from your first kit. I have found that it really pays to advertise. The previous business was bankrupt and had no volume of service business.

With help from Mr. W. A. Hall, the local Sylvania salesman, and the advertising material furnished by him, my business now shows great promise. Mr. Hall works for C. C. Brown Co. of San Francisco, one of your distributors. Mr. Hall filled my rush order for a Sylvania Tube Tester which has already increased my sale of tubes.

I am enclosing a few copies of my ads using Sylvania ad mats which appear in the local paper, the San Leandro News Observer and the San Leandro Shopping News. These papers have a circulation of 18,000. This type of advertising brought in over 100 radio sets for repair during the month of July. I hope business grows like this every month from now on.

Sincerely yours,
R. H. (Bob) Damon
Damon's Radio Service
1006 E. 14th Street
San Leandro, Calif.

"Newspaper ads brought in over 100 radio sets for repair during July!"

216 FOURTH AVE., WEST
PHONE 1564
ASHLAND, WISC.

Advertising Department
Sylvania Electric Products Inc.
Emporium, Pa.

Dear Sir:

I am writing to tell you how much your co-ordinated advertising has helped my business.

I have used the postal cards, the window displays and the radio spot announcements to promote my business. The spot announcements are used seven times a week over our local radio station. They are used at various hours so I have contacted a large range of people.

I make my living entirely through service and the sale of used records, so anything which helps to increase my business is very valuable to me. Since I have been using your campaign my business has increased from an average of \$90.00 per week to about \$135.00 per week gross. My use of the campaign has cost me about \$12.00. Before I used the campaign I was spending an average of \$7.00 per week. For the extra expense I have certainly received a fair return.

I am very much pleased with the radio spots in your booklet.

Robert Myers
Myers Radio Service Co.

"Gross business increased from \$90.00 to \$135.00 per week"

SYLVANIA'S FEBRUARY, MARCH AND APRIL CAMPAIGN IS NOW READY.

Here's what it contains:

- 3 Postal Card Mailings—one for each month.
- 3 Window Displays—one for each month.
- 3 Window Streamers—one for each month.
- 6 Newspaper Ad Mats—two sizes for each month.
- Radio Spot Announcements—several for each month.

SEND FOR FULL INFORMATION NOW!

Remember, this campaign designed for your use ties up directly with Sylvania's ad campaigns on a national scale. You pay only the postage on the government postal cards you mail. Sylvania supplies everything else free! Mail coupon today!

SYLVANIA ELECTRIC

RADIO TUBES; CATHODE RAY TUBES; ELECTRONIC DEVICES; FLUORESCENT LAMPS, FIXTURES, WIRING DEVICES; LIGHT BULBS; PHOTOLAMPS

Sylvania Electric Products Inc.
Advertising Department
Room R-2101
Emporium, Pa.

Gentlemen: Please send me full details on your February, March and April Service Dealer Campaigns.

Name _____

Company _____

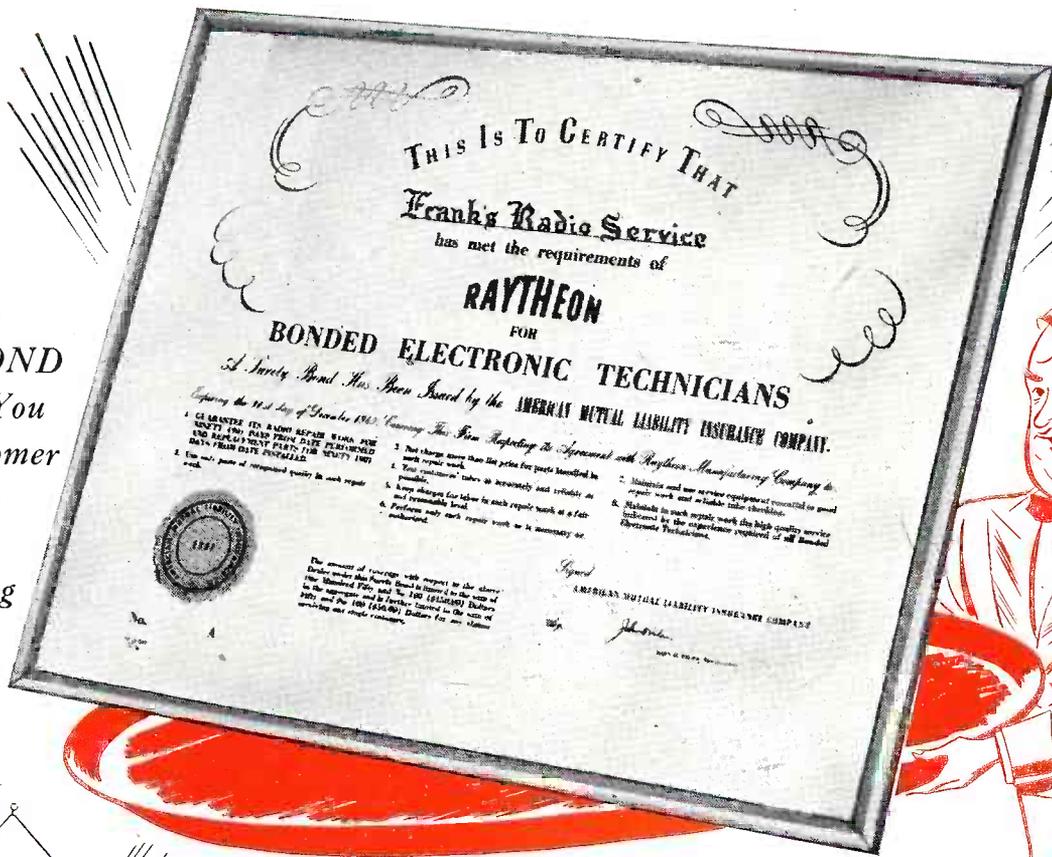
Address _____

City _____ Zone _____

State _____

Your Raytheon Tube Distributor Hands Prestige to You on a Platter

— A Service
Guarantee BOND
That Offers You
Genuine Customer
Insurance
— Yet Costs
You Nothing



This RAYTHEON SURETY BOND is the best evidence you can give your customers that you stand out from the crowd when it comes to the quality and reliability of radio service. It's an iron-clad 90-day BONDED guarantee on your labor and parts backed by a nationally known insurance company with assets of close to a hundred million dollars!

Raytheon pays for this Bond

The Raytheon Tube Distributor in your area has it ready for you—if you can qualify. Get in touch with him at once and start getting the cream of the business in your locality.

Why RAYTHEON Tubes

- 1. Good tubes** — produced by one of the oldest and soundest manufacturers in the industry—with an unsurpassed reputation for engineering achievement in electronics, and with the most advanced methods and equipment for quality control.
- 2. Best Distributors** — Raytheon Tube distributors are carefully chosen. You'll recognize the one nearest you as one of the best parts distributors in town. He has to be, as sponsor of the Raytheon Bonded Dealer Program.
- 3. Consistently advertised** — Raytheon national advertising and point-of-sale display material constantly reminds your customers and prospects of the value of the Raytheon name on every tube.
- 4. Universally accepted** — From the biggest Magnetrons to the tiniest hearing aid tubes Raytheon stands for quality. Raytheon tubes are instantly accepted as the finest that can be had.

Why RAYTHEON Bantal Tubes



The new Raytheon Bantal Tube simplifies your tube stock while it gives you a better tube to sell — rugged eight pillar construction, completely shielded internally means superiority in performance. Eight fast-moving Bantals replace sixteen equivalent GT and metal types.

Always ask for Raytheon Bantals

RAYTHEON

Excellence in Electronics

RAYTHEON MANUFACTURING COMPANY

RADIO RECEIVING TUBE DIVISION

NEWTON, MASSACHUSETTS • CHICAGO, ILLINOIS • LOS ANGELES, CALIFORNIA

RADIO RECEIVING TUBES • SUBMINIATURE TUBES • SPECIAL PURPOSE TUBES • MICROWAVE TUBES



Two ways
to tell genuine MAHOGANY

— it's important to know!



This is genuine Mahogany. Other woods may take its name. But none can match its ageless charm . . . its variety of pattern . . . its warmth . . . its strength . . . its workability. No, after all, there is nothing like Mahogany.

These two labels are two *sure* ways to tell genuine Mahogany furniture. Issued by the Mahogany Association, they protect you and your customers against substitutions. That's *important* these days, when several so-called "Mahoganies" have been offered the market.

Dealers: look for these labels! Manufacturers: watch the lumber you buy. If it's American Mahogany, it must be *Swietenia*; if it's African Mahogany, it must be *Khaya*.

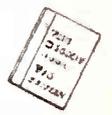
And if it comes from anywhere else, it is NOT genuine Mahogany!

Why accept less than the very best? There is no longer any need—supplies of genuine Mahogany are growing day by day.



MAHOGANY ASSOCIATION, INC.

Suite 803-C, 75 East Wacker Drive
Chicago 1, Illinois
Please send new 7th edition of the 74-page Mahogany Book.



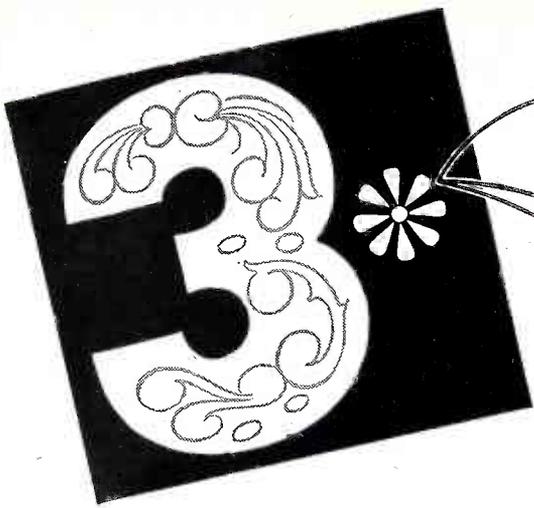
Name

Address

City and Zone No.

State

"AFTER ALL . . . THERE'S NOTHING LIKE MAHOGANY"



more good reasons
Sparton **dealers**
will be out front in '49

Two beautiful AM-FM radio-phonograph consoles with SPARTON'S NEW MICRO-GROOVE REPRODUCTION AT ITS BEST...enticingly priced

That's right—these two top models in the Sparton 1949 line have Sparton's new, single-arm, long-playing record-changer. *One arm does the work of two!* And that makes these outstanding Spartons greater-than-ever values for your customers . . . faster sellers for you.

How can Sparton give dealers such values at these money-saving prices? Here's the answer: Under its famous, time-tested SCMP—Sparton Cooperative Merchandising Plan—Sparton eliminates "middleman costs", cuts distribution costs, sells *direct* to one dealer in a community. That means you can offer more radio for less money.

It's the best deal in the business—for *you* and *your customers*. If you're not a Sparton dealer, better see if the exclusive Sparton franchise in your area is still available.

See these two beautiful Spartons and other sparkling models at the Chicago Show. Ask about SCMP.

EXHIBIT ROOM 509-B—5TH FLOOR
AMERICAN FURNITURE MART
JANUARY 3 TO 15 CHICAGO

*All prices slightly higher
 West of Rockies

Sparton

RADIO-TELEVISION'S RICHEST FRANCHISE
SPARTON RADIO-TELEVISION
 DIVISION OF
 THE SPARKS-WITHINGTON CO., JACKSON, MICHIGAN



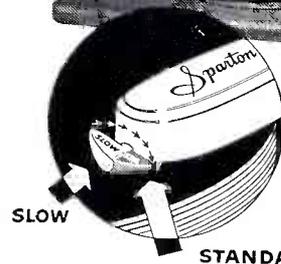
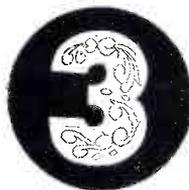
Look at this stunning model!

Modern as tomorrow, with plenty of eye appeal and buy appeal built in. FM reception as well as standard AM. Gorgeous blonde finish. Best of all it has Sparton's new, *single-arm, long-playing record-changer*. Think of it! You sell this modern beauty for only \$219.95*, yet make a handsome profit. Model 1072.



A tested sales leader!

This lovely AM-FM radio-phonograph console—companion to Sparton TV—is every inch a value. Has loads of wanted features. AND—it comes with Sparton's sensational *single-arm, long-playing record-changer*. Customers have choice of two lustrous, hand-rubbed veneer finishes. Model 1040, mahogany; Model 1041, blonde. At \$219.95*, you'll find plenty of takers.



Sparton's
 single-arm
 long-playing
 record-changer.

SLOW

STANDARD

Cuts you in on radios newest advance!

And what features! A *single tone arm* does the work of two! A flip of a switch on the tone arm changes from fast to slow speed, brings the proper needle into position. Plays both standard and long-playing records, changes records automatically, smoothly, quietly.

RADIO & TELEVISION RETAILING

Including Radio and Television Today

O. H. CALDWELL, Editorial Director



M. CLEMENTS, Publisher

Trusted New Electrical Advisor to the American Family

The television retailer has suddenly acquired new importance to the home-circles of his community.

Housewives in sweetest tones telephone him entreatingly—"Please, can't you come right over, tonight!"

Busy business men stand about in respectful awe as Mr. Television Retailer applies his magic touch to restore the video picture—then invite him to sit down for a drink and a chat about TV reception.

Meanwhile the family ask his opinion on the best refrigerator, washer or cleaner to buy. Confidently and unhesitatingly they put their electrical problems up to Mr. TV Retailer. They inquire too about table appliances, electrical heaters and special devices.

For Mr. TV Retailer has become a sought-after and warmly-regarded guest in every TV home. Probably next to the family doctor, no outsider has corresponding importance to such family groups—groups which face hours of awful blankness if for any reason television is not working that evening! So the television man is a friend indeed, of the whole family, old and young.

Other electrical dealers and salesmen may be stopped short at the front or back door. But the television man never! Instead he is welcomed day or night and given the run of the home from roof to basement, to install his antenna leads. And he is recognized as the man who can answer all electrical and radio questions authoritatively and completely,—even to the point of having any electrical appliance inquired about delivered promptly next day!

Any member of a television family will quickly confirm the foregoing statements about the new status of Mr. TV Retailer—the family's trusted confidant—as well as supplier—concerning anything electrical!

What's Ahead!—in Radio,

BIG BUSINESS—With radio-television now approaching the three-billion dollar mark (see front cover), it is interesting to compare the annual business done by some other major U. S. industries, such as: Paper \$5 billions; beverages \$4 billions; mining \$4 billions; dairying \$2½ billions; tobacco \$2 billions; chemicals \$4 billions; tires \$3 billions; films \$1½ billions; cotton \$3 billions; telephones \$2 billions; oil \$10 billions.

NICKEL AND ALUMINUM HAVE JOINED STEEL as scarce materials. It appears certain that manufacturers will continue to be plagued with short supplies during the entire twelve months ahead.

WE MAY BE STICKING OUR necks out in forecasting that there will not be any great increase in trade-ins during 1949. Even in the large cities where high-pressure advertising is being used, there is hardly ever an offer to accept a trade-in.

AUTO RADIOS ARE BEING INSTALLED in about 70 per cent of new cars before delivery. With motor production steadily increasing, sales of car radios are expected to reach new heights in 1949.

YALE & TOWNE STOPS MAKING Tip Toe electric iron, an announcement to its 338 distributors discloses. An official of the company states that the manufacture of Yale electric heating units will be continued at Buffalo, and that the suspension of the Tip Toe iron will have no effect upon the operation of the 9 other company divisions.

FINAL DEVELOPMENT OF "anastigmatic direct-view television" has been announced by Paul V. Galvin, president of Motorola, Inc. The system utilizes a special coil device with the latest 16-inch tube to obtain full-surface clarity. Production of sets with the new device is expected sometime next Spring, according to Walter H. Stellner, vice-president in charge of home radios and TV receivers.

PHILCO IN ELECTRIC RANGE BUSINESS with the signing of an agreement to acquire the net assets of Electromaster, Inc., Mt. Clemens, Mich. The announcement was made by William Balderston, Philco president. A special meeting of Electromaster stockholders will be held this month to approve the agreements between the two companies. At present, output of ranges will be marketed under the Electromaster brand name.

NEW VACUUM CLEANER BLOWS DUST DOWN THE sink drain. The device consists of a suction unit driven by a one-half HP motor. Two four-foot sections of Multi-Flex hose are attached to the suction unit. One end of the hose is attached to a disposal unit placed over the drain. The unit is also connected to the water faucet. Dirt and dust picked up by the cleaner go down the drain. Hydroway, Inc., Philadelphia, is now producing the cleaner on a small scale.

LOOK FOR A GOOD VOLUME OF business in portable radios for 1949 as more and more dealers are realizing that the carry-about sets, once considered as being chiefly for the juvenile buyer, can be sold to those in all age brackets.

IF CONDITIONS STAY ABOUT AS THEY are at this time, it does not seem likely that dealer discount rates will experience any significant change during the next twelve months. However, operating expenses will probably continue to climb, and merchants will need to do more volume in order to show satisfactory profits.

"BY 1953, THE TOTAL SETS IN USE (TV) may be more than twelve million, with some 50 million persons in television's day-to-day audience. By 1958—in ten years—the number of sets can be at least forty million, with the total regular audience at 100 millions."—Raymond C. Cosgrove, executive vice-president, Avco Manufacturing Corporation.

"THE RADIO TECHNICIAN WHO CALLS AT A HOME to install or service a television or a radio set is the liaison man between the set manufacturer and the buyer. He is in a position to do an excellent public relations job. . . ."—Max F. Balcom, RMA president and vice-president Sylvania Electric Products, Inc.

70 PER CENT OF GENERAL ELECTRIC'S radio-television dollar volume business will come from television, estimates Walter M. Skillman, manager of sales for the company's Receiver Division.

"TELEVISION IS THE FASTEST-GROWING INDUSTRY in America," points out James H. Carmine, vice-president distribution, Philco Corp., who predicts that in 1949 the industry "can provide the American people with 2,000,000 television receivers, and perhaps 3,000,000 more in 1950."



1949—RMA's 25th YEAR . . . TELEVISION'S 10th YEAR . . . CALDWELL-CLEMENTS' 28th YEAR IN RADIO-TV PUBLISHING!

"AMERICAN STANDARD PRACTICE FOR SCHOOL LIGHTING" is the title of a new manual brought out by the Illuminating Engineering Society. First four copies sell at 50 cents each; all over 24 copies, 15 cents each.

Appliances, Records and Television

ADDITION OF A NEW NAME TO THE LIST of full-line major appliance makers is revealed in the news that the Coolerator Company, 40 year old manufacturer of refrigeration equipment, will introduce a new line of electric ranges as well as refrigerators and freezers.

"A THIRD OF THE NATION'S POPULATION already lives within service range of television. By the end of the year (1948), about half the population should be within reach of at least one television station."—Joseph B. Elliott, vice-president in charge of the RCA Victor Home Instrument Department.

ONE OF THE LARGER LAUNDRY EQUIPMENT manufacturers said to be readying a new electric dishwasher of entirely new design.

"OUR PLANS FOR 1949 INCLUDE the marketing of \$40,000,000 of television sets. The volume of home radios, in our estimation, will be affected by television; therefore we are planning a smaller volume for 1949. However, with increases in television and car radio production, we look for a very definite over-all increase in 1949. . . ."—Paul V. Galvin, president of Motorola, Inc.

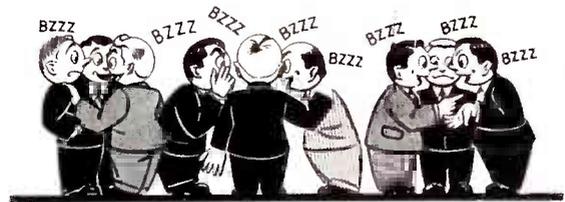
COMMENTING ON THE SUPPLY-DEMAND situation, Howard E. Blood, Norge president says: ". . . Militating strongly against rapidly increased supply is that the labor force is now fully employed. There would not be enough employees to man greatly expanded industry, and the national defense program is going to still further shorten the supply of labor and facilities to produce manufactured goods which are still in short supply."

A NEW PHONO RECORD DEMONSTRATOR which will not operate unless unit is closed is being marketed by St. Joes Machines, Inc., St. Joseph, Michigan. Called "Phono-Gard," the device comes in an attractive cabinet.

HOTPOINT HAS ESTABLISHED A 40 per cent increase in dealer sales of major electric appliances for kitchens and home laundries as its sales goal for 1949, according to Leonard C. Treusdell, vice-president in charge of marketing.

PRICE-CONTROLS—RATIONING? One of the most important considerations for those in this field to weigh in planning for '49 is the possibility that price-controls and rationing of materials may once again be imposed by the government.

OVER EIGHTY PER CENT OF TELEVISION receiver sales are being made to the nation's middle and lower income groups, according to H. Leslie Hoffman, president of the Hoffman Radio Corporation.



RUMORS OF NEW RECORDS AND more rumors being bandied about in the platter industry, with almost everyone in a dither. Makers of changers, phono motors, pickups, etc., facing a real problem in trying to figure out what and how much to make.

"THERE ARE NOT ENOUGH GOOD SALESMEN to go around. The majority of young, energetic and ambitious men of today are not too enthusiastic about breaking into the sales profession to make it a life's work . . . these young people must be sold the importance, the dignity, and the financial reward there is in a successful selling career. . . ."—Gerald Hulett, vice-president, Electromaster, Inc., Mount Clemens, Michigan.

In This Annual Statistical Issue of

RADIO & TELEVISION RETAILING and ONLY in RADIO & TELEVISION RETAILING !!

Statistics and Forecasts of the ENTIRE BIG FOUR FIELD

RADIO!

RECORDS!

APPLIANCES!

SERVICING!

Exclusive Sales and Production Data on:

TV-AM-FM

Auto Radio

Radio Supplies

Servicing

Parts

Sets in Use

Broadcasting

Electrical Appliances

Electric Light Bulbs

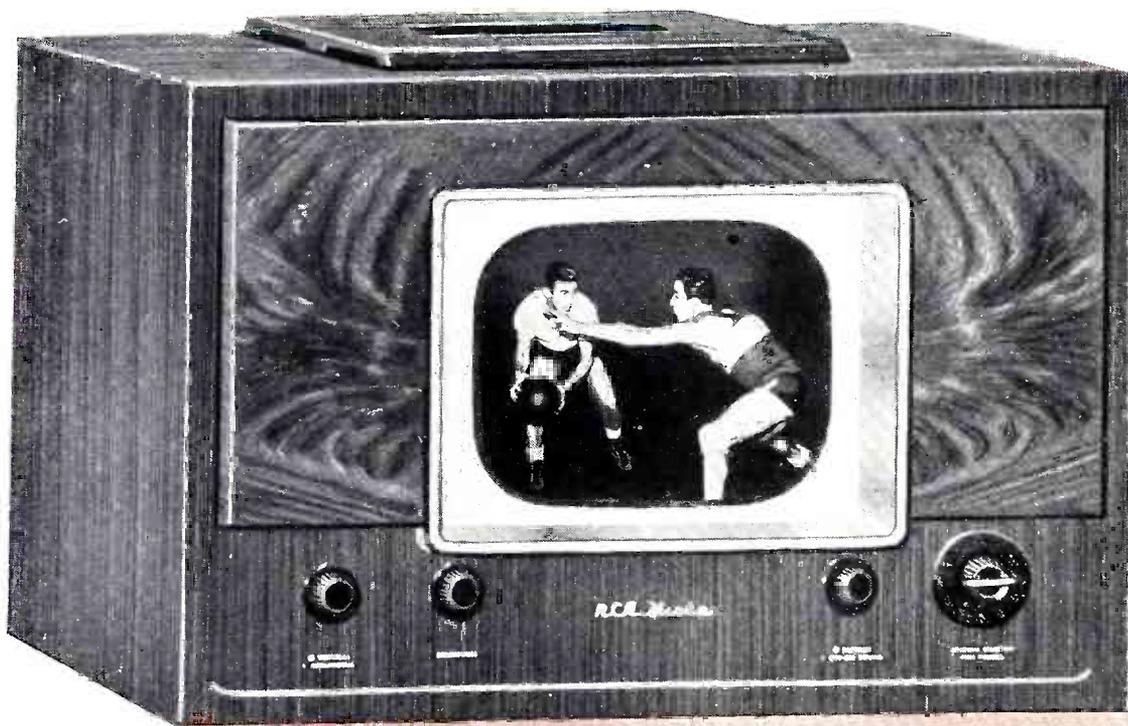
Phonograph Records

Phonograph Needles

Phonograph Accessories

Record Players

Recorders



ONLY RCA VICTOR
HAS THE
"GOLDEN THROAT"

The 8T241 . . . "The Bystander"
—greatest "Eye Witness" value
in the entire thrill-packed history
of television.

The 8T241, like *all* RCA Victor
instruments, has fast turnover.
Your customers want highest possi-
ble quality at a fair price . . .
they get *just that* with RCA Victor.

At the Winter Furniture Market in
Chicago, January 3rd to 15th, 1949
—See the latest RCA Victor instru-
ments . . . Space 69 and 70, 17th
floor . . .

ONLY RCA VICTOR MAKES THE VICTROLA

"Victrola"—T. M. Reg. U. S. Pat. Off.

RCA VICTOR



DIVISION OF RADIO CORPORATION OF AMERICA

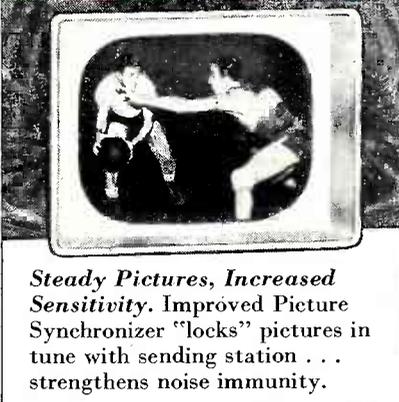
Here's why your profits are greater with this RCA VICTOR

*Higher quality and outstanding selling points of
ALL RCA VICTOR instruments keep turnover high!*

LOOK at these 5 talking points on "The Bystander"-8T241



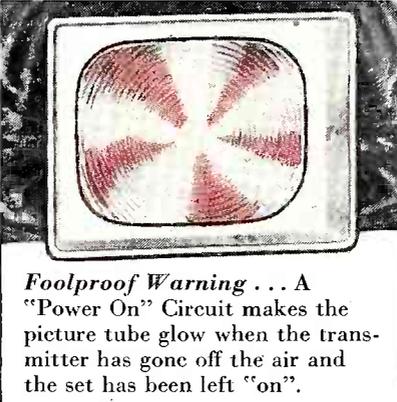
Amazing Price . . . "The Bystander" bears the lowest price tag for "Eye Witness" Television. Your customers will be thrilled.



Steady Pictures, Increased Sensitivity. Improved Picture Synchronizer "locks" pictures in tune with sending station . . . strengthens noise immunity.



Easy, Sure Tuning . . . RCA Victor Multi-Channel Station Selector makes program selection effortless, and completely automatic.



Foolproof Warning . . . A "Power On" Circuit makes the picture tube glow when the transmitter has gone off the air and the set has been left "on".



Stunning Cabinet . . . The speaker is on top of the cabinet. The front is a smooth panel of "fine wood". Available in walnut, mahogany or blond finish.

"The Bystander" is easy to demonstrate . . . easier to sell. The 10-inch picture, amazingly low price and outstanding quality make this instrument a fast seller.

Consistent, dynamic RCA Victor advertising builds up a powerful demand. You turn this demand into profits when you display, advertise and demonstrate RCA Victor instruments.

RCA VICTOR—World Leader in Radio . . . First in Television

Radio and Television

THE RADIO-TELEVISION INDUSTRY

Data Covers Year Ended December 31, 1948

| | Total Investment | Annual Gross Revenue | Number of Employees | Annual Payroll |
|---|------------------|----------------------|---------------------|----------------|
| Radio and TV manufacturers (1200) | \$ 70,000,000 | \$ 600,000,000 | 100,000 | \$190,000,000 |
| Radio and TV distributors, dealers, etc. | 325,000,000 | 1,500,000,000 | 125,000 | 275,000,000 |
| Broadcasting stations (2694) including talent costs | 150,000,000 | 400,000,000 | *23,000 | 170,000,000 |
| Commercial communication stations | 60,000,000 | ..... | 15,000 | 10,000,000 |
| Listeners' radio and TV sets in use (75,000,000) | 3,500,000,000 | ..... | ..... | †550,000,000 |

* Regular staff—not including part-time employees, artists, etc., who number at least 30,000 more.
 † Annual operating expense for listeners' sets, for tube replacements, electricity, servicing, etc.

PRODUCTION OF CIVILIAN RADIO SETS — 1922 TO 1948

| Year | Total Civilian Radio Sets Manufactured | | Total Civilian Tubes Manufactured | | Automobile Sets Manufactured | | Total Radio Reception Equipment | Auto Sets in Use | Homes with Radio Sets | Total Radio Sets in Use in U. S. | At Close of |
|------|--|--------------|-----------------------------------|--------------|------------------------------|--------------|---------------------------------|------------------|-----------------------|----------------------------------|-------------|
| | Number | Retail Value | Number | Retail Value | Number | Retail Value | Value | Number | Number | Number | Year |
| 1922 | 100,000 | \$ 5,000,000 | 1,000,000 | \$ 6,000,000 | ..... | ..... | \$ 60,000,000 | ..... | 260,000 | 400,000 | 1922 |
| 1923 | 550,000 | 30,000,000 | 4,500,000 | 12,000,000 | ..... | ..... | 151,000,000 | ..... | 1,000,000 | 1,100,000 | 1923 |
| 1924 | 1,500,000 | 100,000,000 | 12,000,000 | 36,000,000 | ..... | ..... | 358,000,000 | ..... | 2,500,000 | 3,000,000 | 1924 |
| 1925 | 2,000,000 | 165,000,000 | 20,000,000 | 48,000,000 | ..... | ..... | 430,000,000 | ..... | 3,500,000 | 4,000,000 | 1925 |
| 1926 | 1,750,000 | 200,000,000 | 30,000,000 | 58,000,000 | ..... | ..... | 506,000,000 | ..... | 5,000,000 | 5,700,000 | 1926 |
| 1927 | 1,350,000 | 168,000,000 | 41,200,000 | 67,300,000 | ..... | ..... | 425,600,000 | ..... | 6,500,000 | 7,000,000 | 1927 |
| 1928 | 3,281,000 | 400,000,000 | 50,200,000 | 110,250,000 | ..... | ..... | 690,550,000 | ..... | 7,500,000 | 8,500,000 | 1928 |
| 1929 | 4,428,000 | 600,000,000 | 69,000,000 | 172,500,000 | ..... | ..... | 842,548,000 | ..... | 9,000,000 | 10,500,000 | 1929 |
| 1930 | 3,827,800 | 300,000,000 | 52,000,000 | 119,600,000 | 34,000 | \$ 3,000,000 | 496,432,000 | ..... | 12,048,762 | 13,000,000 | 1930 |
| 1931 | 3,420,000 | 225,000,000 | 53,000,000 | 69,550,000 | 108,000 | 5,940,000 | 300,000,000 | 100,000 | 14,000,000 | 15,000,000 | 1931 |
| 1932 | 3,000,000 | 140,000,000 | 44,300,000 | 48,730,000 | 143,000 | 7,150,000 | 200,000,000 | 250,000 | 16,809,562 | 18,000,000 | 1932 |
| 1933 | 3,806,000 | 180,500,000 | 59,000,000 | 49,000,000 | 724,000 | 28,598,000 | 300,000,000 | 500,000 | 20,402,369 | 22,000,000 | 1933 |
| 1934 | 4,084,000 | 214,500,000 | 58,000,000 | 36,600,000 | 780,000 | 28,000,000 | 350,000,000 | 1,250,000 | 21,456,000 | 26,000,000 | 1934 |
| 1935 | 6,026,800 | 330,192,480 | 71,000,000 | 50,000,000 | 1,125,000 | 54,562,500 | 370,000,000 | 2,000,000 | 22,869,000 | 30,500,000 | 1935 |
| 1936 | 8,248,000 | 450,000,000 | 98,000,000 | 69,000,000 | 1,412,000 | 69,188,000 | 500,000,000 | 3,500,000 | 24,600,000 | 33,000,000 | 1936 |
| 1937 | 8,064,780 | 450,000,000 | 91,000,000 | 85,000,000 | 1,750,000 | 87,500,000 | 537,000,000 | 5,000,000 | 26,666,500 | 37,600,000 | 1937 |
| 1938 | 6,000,000 | 210,000,000 | 75,000,000 | 93,000,000 | 800,000 | 32,000,000 | 350,000,000 | 6,000,000 | 28,000,000 | 40,800,000 | 1938 |
| 1939 | 10,500,000 | 354,000,000 | 91,000,000 | 114,000,000 | 1,200,000 | 48,000,000 | 375,000,000 | 6,500,000 | 28,700,000 | 45,300,000 | 1939 |
| 1940 | 11,800,000 | 450,000,000 | 115,000,000 | 115,000,000 | 1,700,000 | 60,000,000 | 584,000,000 | 7,500,000 | 29,200,000 | 51,000,000 | 1940 |
| 1941 | 13,000,000 | 460,000,000 | 130,000,000 | 143,000,000 | 2,000,000 | 70,000,000 | 610,000,000 | 8,750,000 | 29,700,000 | 56,000,000 | 1941 |
| 1942 | 4,400,000 | 154,000,000 | 87,700,000 | 94,000,000 | 350,000 | 12,250,000 | 360,000,000 | 9,000,000 | 30,800,000 | 59,340,000 | 1942 |
| 1943 | ..... | ..... | 17,000,000 | 19,000,000 | ..... | ..... | 75,000,000 | 8,000,000 | 32,000,000 | 58,000,000 | 1943 |
| 1944 | ..... | ..... | 22,000,000 | 25,000,000 | ..... | ..... | 85,000,000 | 7,000,000 | 33,000,000 | 57,000,000 | 1944 |
| 1945 | 500,000 | 20,000,000 | 30,000,000 | 35,000,000 | ..... | ..... | 105,000,000 | 6,000,000 | 34,000,000 | 56,000,000 | 1945 |
| 1946 | 14,000,000 | 700,000,000 | 190,000,000 | 200,000,000 | 1,200,000 | 72,000,000 | 900,000,000 | 7,000,000 | 35,000,000 | 60,000,000 | 1946 |
| 1947 | 17,000,000 | 800,000,000 | 220,000,000 | 260,000,000 | 2,500,000 | 150,000,000 | 1,100,000,000 | 9,000,000 | 37,000,000 | 66,000,000 | 1947 |
| 1948 | 14,000,000 | 600,000,000 | 200,000,000 | 230,000,000 | 2,800,000 | 200,000,000 | 950,000,000 | 11,000,000 | 40,000,000 | 74,000,000 | 1948 |

Figures for sets give value with tubes in receivers. In normal years, replacement tubes have run 25% to 40% of total tube production. All figures are at retail values. (Statistics Copyrighted by Caldwell-Clements, Inc.)

APPLIANCES and PHONO RECORD production estimates for 1948, prepared exclusively by RADIO & TELEVISION RETAILING, appear in other sections of this issue.

AS OF JAN. 1, '49, THERE WERE —

| | |
|---|--|
| Total AM Broadcast Stations Authorized | 2,200 |
| AM Broadcast Stations Operating | 1,900 |
| Total FM Stations Authorized | 1,100 |
| FM Stations Operating | 750 |
| Total Television Stations Authorized | 124 |
| Television Stations Operating | 44 |
| Total Special Service Stations: marine, aeronautic, railroad, industrial, public safety, etc. | 135,000 |
| Radio operators licensed | 550,000 |
| Amateur stations | 85,000 |
| FM sets made during 1948 | 1,600,000* |
| Record-player units of all types | 21,000,000 |
| Population Served by TV Programs: | |
| Jan. 1, '49 | 65 million people (42 cities in 28 states) |
| Dec. 31, '49 | 95 million people |

Statistics

ANNUAL BILL OF U. S. FOR RADIO-TV

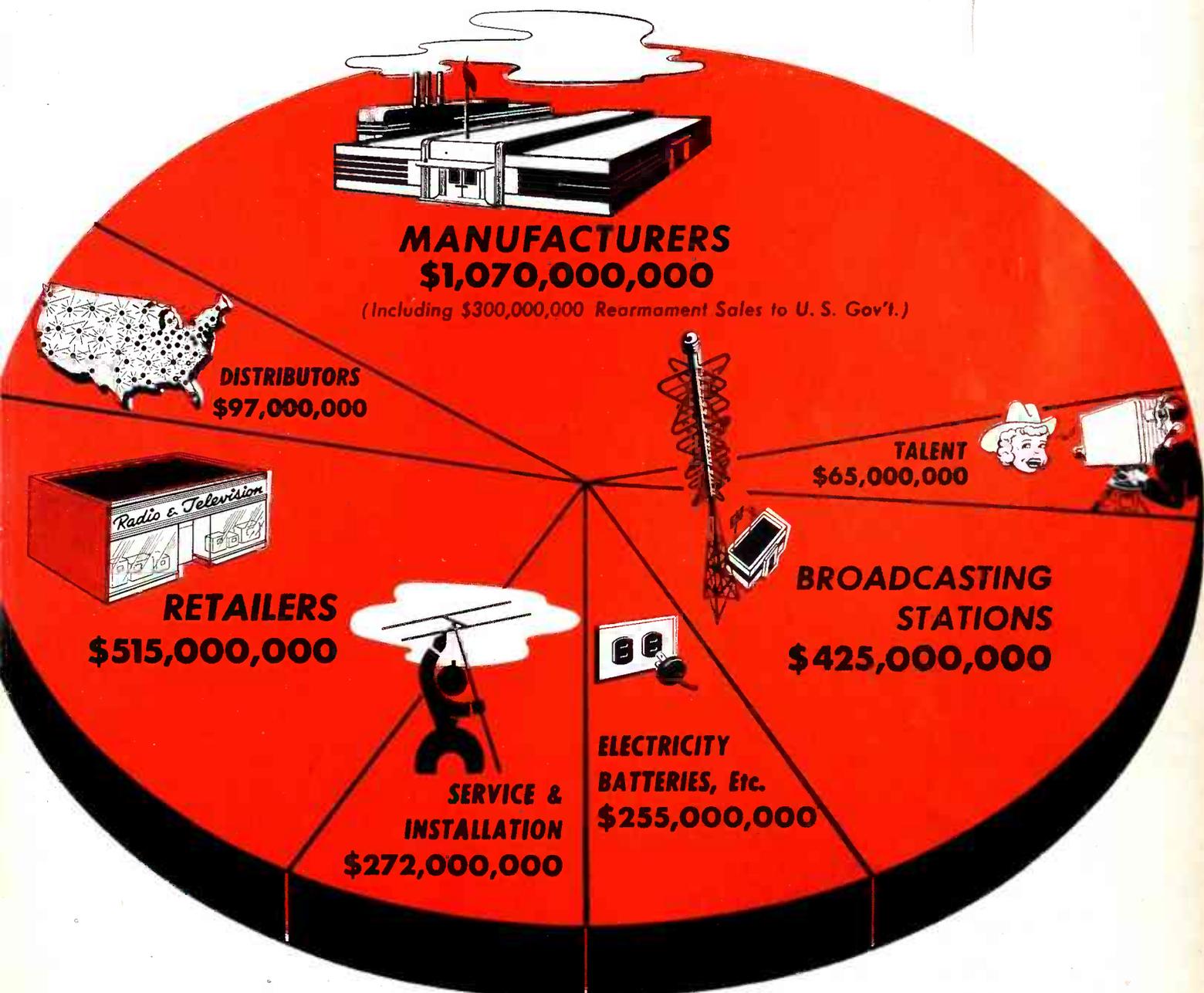
| | |
|--|------------------------|
| Sales of time by broadcasters, 1948 | \$385,000,000 |
| Talent costs | 70,000,000 |
| Electricity, batteries, etc., to operate 75,000,000 radio and TV receivers | 250,000,000 |
| 14,000,000 home radio receivers, at retail value .. | 600,000,000 |
| 850,000 television receivers, at retail value | 300,000,000 |
| Phonograph records, 250,000,000 | 233,000,000 |
| Radio repairs and supplies: | |
| 70,000,000 replacement tubes | 95,000,000 |
| Radio-TV parts, accessories, etc. | 125,000,000 |
| Labor | 100,000,000 |
| TOTAL | \$2,158,000,000 |

RADIO SETS IN U. S.; WORLD

| | |
|--|--------------------|
| | January 1, 1949 |
| United States homes with radios | 40,000,000 |
| Secondary sets in above homes | 19,000,000 |
| Sets in business places, institutions, etc. | 5,000,000 |
| Automobile radios | 11,000,000 |
| TOTAL sets in United States | 75,000,000 |
| Total radio sets in rest of world: | |
| North America, 5,500,000; South America, 5,500,000; Europe, 48,500,000; Asia, 7,000,000; Australia, 3,000,000; Africa, 1,500,000 | 71,000,000 |
| TOTAL sets in world | 146,000,000 |

The Radio-Television Business in 1949

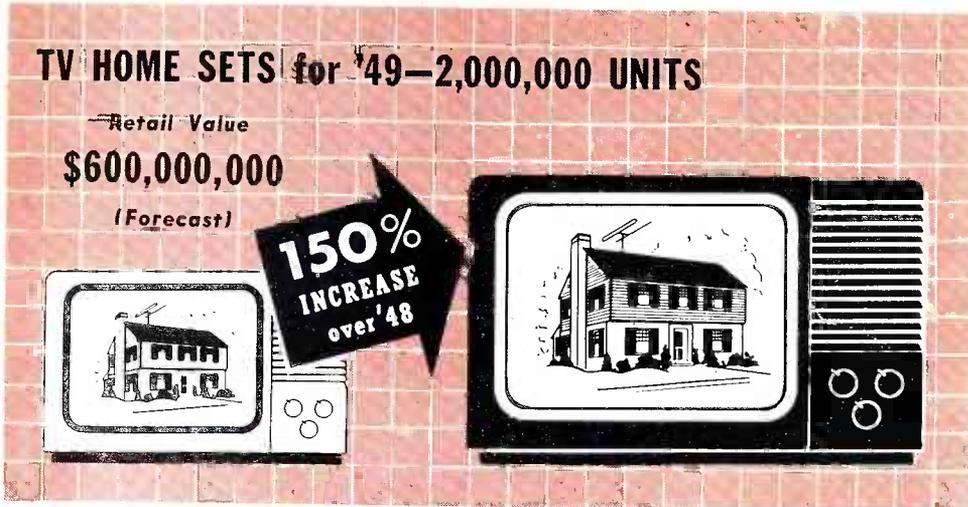
How It Will Be Divided Among the Principal Industry Groups and Services



Radio-TV's 2 $\frac{3}{4}$ Billion Dollar pie in which nearly 300,000 radio people will share during the year to come

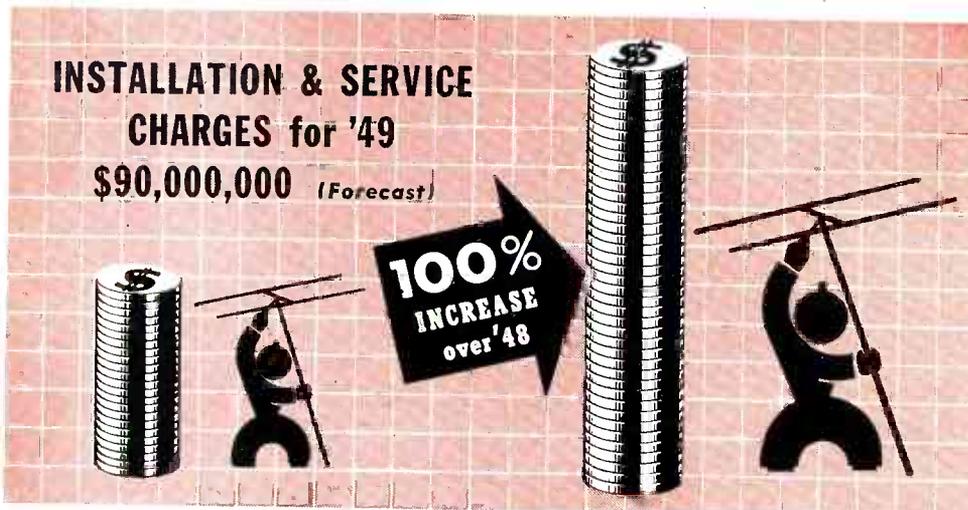
TV Sales Will

Profit-Promising Record-Breaking Year Is Forecast



As 1948 is considered the year in which television came of age, so 1949 will be considered the year in which it became a major U. S. industry. This past year saw phenomenal increases in the number of sets in use, stations in operation, percentage of population reached, hours of broadcasting, and number of sponsors—as well as great improvement in the quality and diversity of programming. The fact that in some areas AM broadcasters are already weighing the inroads of TV upon their audience indicates that the new medium is out of the experimental stage. Now it is just a problem of production—how quickly, rather than if, TV will become universal.

All this adds up to dollars for the radio-appliance dealer, as the accompanying charts of projected estimates show. TV sales, where they have not already done so, will become a major portion of overall sales in 1949. Installation and service alone will be a sizeable business. The sale of accessories (mirrors, lenses, magnifiers and the like) will afford important extra revenue.



Estimated figure for 1949 includes service, etc. on sets made during 1949 as well as on all others manufactured previously.

Prices Will Hold

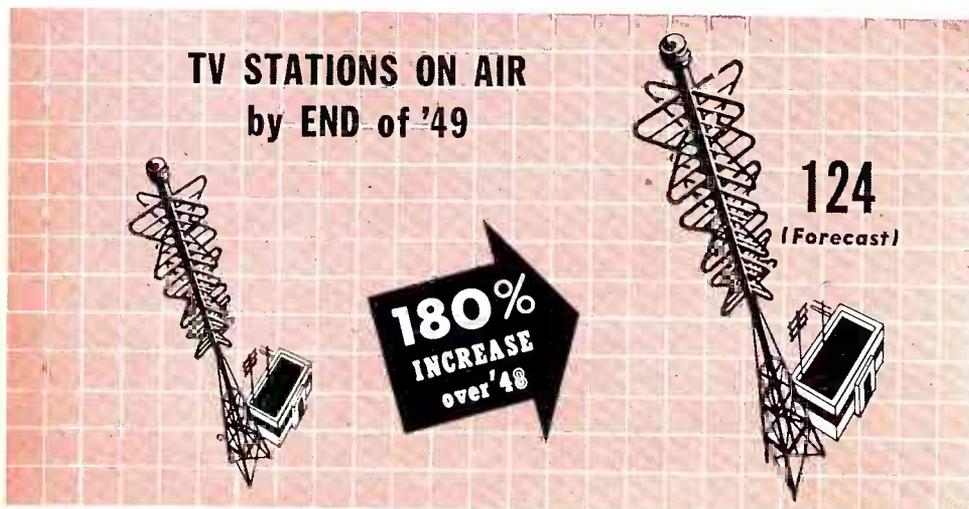
Although increased competition among the swelling number of set manufacturers will provoke the introduction of smaller, lower-priced models, it appears likely that prices on current types will hold up, and in some cases be increased.

Of course, any consideration of future price trends must be viewed in the light of the possibility of the imposition of government price controls.

Two forces are at work which will influence set development. These are the desire for lower priced sets, and the demand for larger pictures. To satisfy the former, we will see increasing numbers of small models with fewer than 20 tubes, in the "transformerless" category. In the big picture emphasis, the development of larger tubes with metal envelopes will be closely paced by the appearance of increasing numbers of projection models, particularly in the vicinity of the 12x16 inch picture.

The simultaneous desire for television, FM, and LP record playing will make many customers open to buy console combinations, a rosy indication for dealers.

All in all, the merchant who exploits TV to the full in '49 can look forward to his greatest year in dollar volume sales.



Soar in 1949!

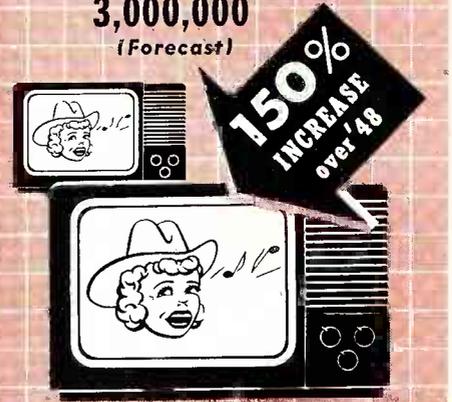
TV ANTENNAS for '49
\$22,500,000
(Forecast)



SALES OF ACCESSORIES for TV '49
\$20,750,000
(Forecast)



TV SETS IN USE END OF '49
3,000,000
(Forecast)

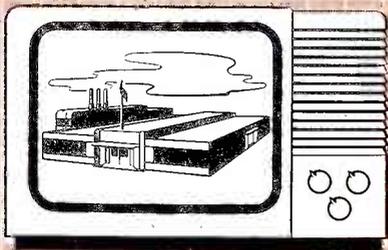


*Accessories include magnifiers, picture filters, boosters, etc. to be purchased by consumers. Total is retail value.

TV SET MANUFACTURERS

Estimate as of Jan. 1, '49

78



MFRS of PARTS for TV

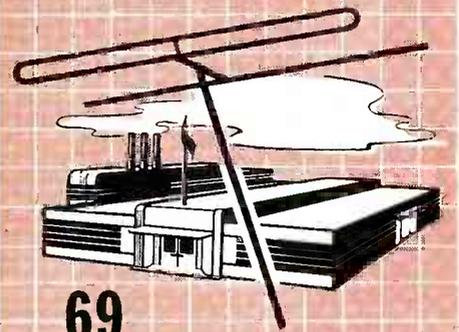
Tubes, Equipment, Accessories, etc.



475

In business as of Jan. 1, '49

TV ANTENNA MFRS



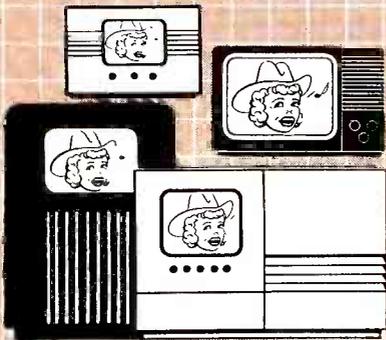
69

Now in Business (Estimate)

The above total is for those associated with the radio industry. It does not include the vast number of those in other fields who are making and selling equipment used by TV manufacturers.

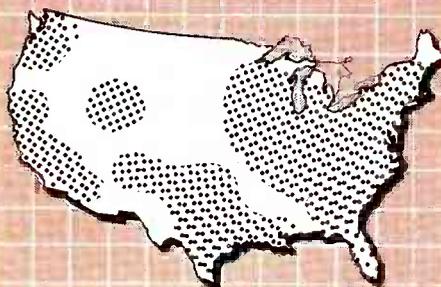
TV MODELS Now Available

(Estimate) **174**

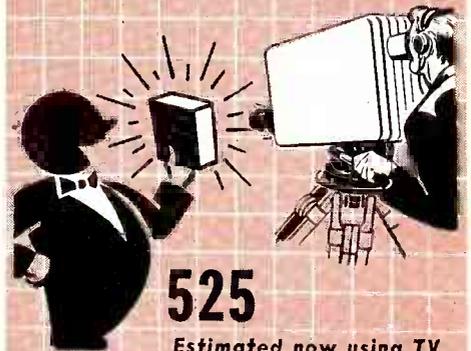


TV PROGRAM COVERAGE

68% of US by end of '49
(Estimate)



ADVERTISING SPONSORS



525

Estimated now using TV

Radio

OUT FRONT in the

New Products with New Sales-Appeal—Important Trends Analyzed for the New Year—How the Market Shapes Up

1948 saw a decrease in "straight radio" production over the previous year which will be continued in 1949, and which is a significant indicator of future trends. It does not mean that radio is falling off, but rather that it reached a peak in a phenomenal sprint to make up for the lost war years.

The decrease was more than offset by increases in new fields which were insignificant or non-existent in pre-war years. These new developments, with their higher average unit price, will actually result in greater dollar volume in the overall radio picture for several years to come. Television alone, in 1948, with less than 1/18 as many units, accounted for 1/3 as much dollar volume as radio. And this is only one of the new forces at work.

FM made great strides in '48 to the point where there were over 3 million receivers in use, served by almost 800 broadcasting stations. Reaching the home in four different forms (tuners, straight FM sets, AM-FM sets, and TV sets with FM receivers incorporated), FM reception equipment will be in the hands of over 10 million users by the end of '49. Sales potential to the dealer hardly needs underscoring. Even today, no expensive radio console is without FM, and very few expensive TV consoles are without it. In addition, an ever increasing number of table radios will include FM. To the dealer, FM reception is a closing factor which will tip more and more sales into a higher bracket.

The American public, by their growing awareness of the merits of FM, will prevent this from becoming merely a sales-catching gimmick, like a rear-windshield wiper on an automobile. Particularly glowing reports have come in from areas that had long suffered

from poor AM reception due to natural static, fading, interference between broadcast stations (especially at night), weakness and poor tone quality.

FM broadcasts cut right through these troubles to provide a listening experience hitherto unknown. Duplication of popular AM network programs, as it is utilized by more and more FM broadcasters, is a powerful sales stimulant.

Portable radios, due to improvements in reception, tone, weight, appearance and versatility, are becoming a year-round item which will account for increased sales in '49.

Portables are no longer seen only on beaches; and an upsurge in winter sports is but one factor in their growth. People carry them to sports events to hear the description of the events they are watching . . . carry them on trains and airplanes while traveling . . . carry them around in the home because they don't even have to be plugged in . . . bring them to offices to hear a world series or an election. Dealers will be wise to cash in on this movement by promoting portables in every season.

Auto radios are now considered so essential to the car owner that increase forecasts in this field can safely be predicated on car production alone. This industry, which is not expected to reach the saturation point for several years, can be looked to for tremendous increases percentage-wise in '49. Trends in this field point to more auxiliary

speakers, and to the eventual inclusion of FM in the car radio.

Home recording equipment, a rare luxury in pre-war years, has been sparked to new heights by the developments in the wire tape and disc field.

The number of homes so equipped in '49 will double '48. The new recorders are easier to operate, provide recorded material which is easily stored, produce good results cheaply. The availability of this equipment either as complete separate units, as part of console models, or as separate mechanisms for addition to existing equipment lends great diversity in its merchandising by the dealer.

Sales Appeal for Consoles

One of the most significant trends in '48 which will be of increasing greater importance to the radio-appliance store in '49 is the trend toward the "complete home entertainment unit." Despite the giant steps taken by the industry since the war, the huge potential for sales can be seen in the following figures: only 3% of U. S. families have television, about 9% have FM, and about 35% have record players. Over 90% have a radio of some sort, but lacking the new features, are increasingly interested in a set which "has everything."

A marked improvement in the styling and construction of console cabinets, together a more ready availability of woods, has been an important factor in this movement. Trends in the furniture industry toward Modern, French Provincial, and Early American, all with light woods, have been felt in the radio field. Traditional styles, too, have more

ELECTRICAL APPLIANCE production estimates for 1948, prepared exclusively by RADIO & TELEVISION RETAILING, appear in the Electrical Appliance Section of this issue.

PUBLIC EYE!

Here's the '49 Picture of

- TV-AM-FM Receivers
- Phono Records and Players
- Portables
- Recorders
- Auto Radio

furniture value than previously . . . and the old waterfall veneer cabinet with rounded corners is almost a thing of the past.

There is also a growing trend toward "built-in" equipment, since the cabinet which "has everything" tends to grow larger and larger. This trend will probably be confined in the near future to higher priced equipment, since, in the moderate-price field, custom building cannot match the value of mass-produced radios.

In 1949, hardly a single brand of better quality consoles which claim to have everything will be without facilities for LP records. This new technique, which was born in the middle of 1948, will see great growth this year.

With equipment beginning to roll off the lines in quantity by the end of '48, the possibility of making every record buyer a customer for a record which plays 45 minutes depends only on the extent to which the dealer promotes the idea.

It goes without saying that LP will be a significant hook for console sales, and that the dealer should have means of demonstrating the new record in order to take advantage of this hook.

New Technical Advances

On the technical side, the development of the noise suppressor principle for phonograph reproduction is being adapted by many manufacturers of consoles. Previously, needle scratch was masked by cutting off the treble with a tone control. This seriously affected the brilliance of the music, and opposed the growing desire for high fidelity.

Noise suppressors work on the principle that surface noise is only objectionable during soft passages, is masked during loud passages. Therefore the suppressor cuts in out and automatically to provide cutoff of noise only when it is objectionable, allowing full brilliance to come through the rest of the time.

Another development which will be seen more and more in better sets is a special tuning eye for FM sets which have more than one "peak" on the dial for each station. The new tuning eye makes it possible to tune for the correct peak, with resultant absence of distortion.

In the consoles containing many units, provisions are made by some manufacturers to turn off the tubes not in use, resulting in power savings for the consumer, as well as longer life for the components. In addition, many phonographs have an automatic switch cutting off the tone arm from the amplifier while the changer is dropping a new record, so that mechanical noises in the changer mechanism will not be transmitted. Important to mention, although too complicated to go into here,

are developments which are making possible FM sets and television sets with fewer tubes than was originally thought necessary. Also contributing to this end are the selenium rectifier (eliminating the rectifier tube) and the crystal diode (eliminating some types of detector tubes).

Summing up all these trends and developments, we see the dealer in 1949 with more merchandise to sell that has real selling features, less "borax" merchandise and duplication of models, resulting in less distressed merchandise. All this points to the dealer realizing a higher average price per unit sale, and considerably greater dollar volume than '48.

TV SETS IN USE REACH MILLION MARK as of the first of the year, more than doubling the number in use six months ago. 44 stations in 22 cities now blanket 44% of the population of the country. January 1 sets in use for the 15 top ranking cities are as follows:

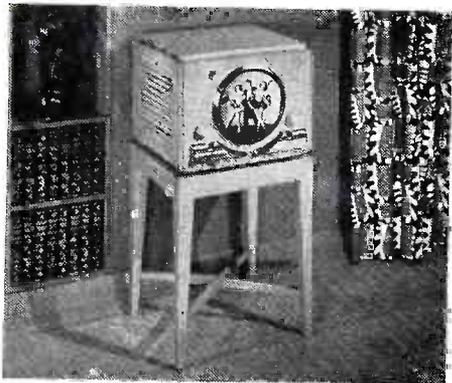
| CITY | NO. STATIONS | SETS IN USE |
|-----------------------|--------------|------------------|
| Metropolitan New York | 6 | 446,000 |
| Philadelphia | 3 | 116,000 |
| Los Angeles | 4 | 59,000 |
| Chicago | 4 | 57,200 |
| Boston | 2 | 42,400 |
| Baltimore | 3 | 35,400 |
| Washington, D. C. | 3 | 29,600 |
| Detroit | 3 | 28,700 |
| Cleveland | 2 | 23,100 |
| St. Louis | 1 | 18,100 |
| Schenectady | 1 | 14,800 |
| New Haven | 1 | 13,800 |
| Milwaukee | 1 | 12,900 |
| Minn.-St. Paul | 1 | 11,600 |
| Cincinnati | 1 | 11,100 |
| Others | 8 | 80,300 |
| TOTAL | 44 | 1,000,000 |

New Radios, TV, FM

Zenith TELEVISION SETS

Television receivers in line feature luminized "Giant Circle" screen in three different sizes for different models. "Bulls Eye" automatic tuner another feature which automatically locks into proper position tuning factors for both audio and video circuits. Volume control and contrast control may be set for individual preference. Sets also provide for automatic tuning of thirteen different television stations, whether in present wave band or in new ultra high band. Also sets have plug-in for "Phonevision" connection, in communities where service becomes available.

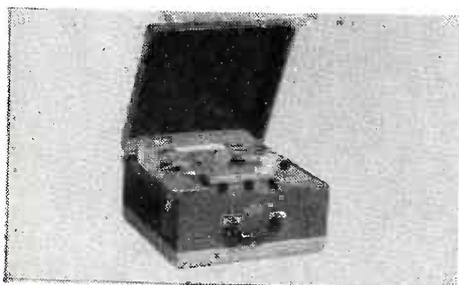
Shown is model 28T9624, FM-television con-



sole. Set has 24 tubes plus three rectifiers and "Giant Circle" "B" sized screen. Cabinet of mahogany veneer. Dimensions of receiver: 35 inches high, 23 1/16 inches wide, 19 5/16 inches deep. Priced at \$479.95. Sets are available in nine different models: two table, four console, and three console combinations that include television, FM and AM radio, and silent speed record changer with twin Cobra tone arms for playing regular and long playing records. Models include both modern and period styles in mahogany and blonde finishes. Prices range from \$389.95 to \$1150, not including installation. Zenith Radio Corp., 6001 W. Dickens Ave., Chicago 39, Ill.—RADIO & TELEVISION RETAILING

Wilcox-Gay RECORDIO

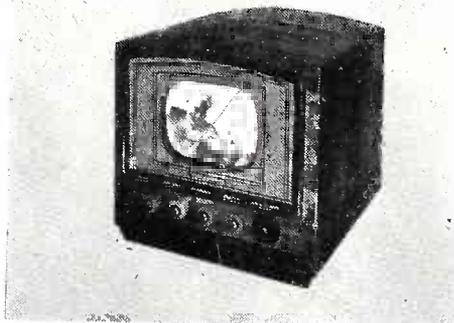
Recording radio-phonograph magnetic tape "Recordio," model 8U12. Features: lightweight of 25 lbs. Auxiliary speaker, model AS82, recommended for group listening, available as



accessory item. Covered in luggage type case; recorder comes complete with crystal microphone and a spare tape reel. Priced at \$229.50. Unit gives full half-hour of continuous recording; records from microphone, radio or telephone. Case dimensions: 15x15x6 3/8 inches. Wilcox-Gay Corp., Charlotte, Mich.—RADIO & TELEVISION RETAILING

Westinghouse TABLE TV RECEIVER

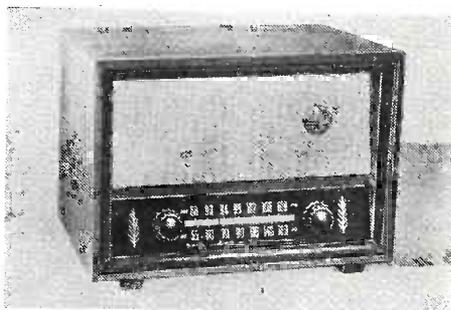
Model 196, table model television set features automatic frequency control of horizontal synchronization to maintain clear, steady picture. Unit housed in mahogany cabinet in functional modern style; 10-inch tube



provides 52-square inch picture. Protective glass over tube face treated to eliminate glare. Set is available in dark or blonde mahogany. It is 19 1/2 inches high, 19 inches wide, 20 1/2 inches deep. Westinghouse Electric Corp., Sunbury, Pa.—RADIO & TELEVISION RETAILING.

Tele-tone RECEIVERS

AM-FM table model, 198 shown. Set is AC, has 8 tubes, built-in antenna for AM and FM. Cabinet dimensions: 8 inches high, 12 inches



long, 7 1/4 inches wide. Priced at \$44.95. Hand-rubbed mahogany veneer cabinet.

A portable, model 190, 5-tube three-way set that operates on AC-DC or self-contained batteries has been added to the line. Set has built-in loop antenna, comes in maroon plastic cabinet with slide rule dial and is light-weight. Set retails for \$24.95. Tele-tone Radio Corp., 609 W. 51 St., New York, N. Y.—RADIO & TELEVISION RETAILING

Multiple Television SETS

Model 1500 shown, direct view 15-inch tube, gives picture approximately 12 3/4 x 10 inches. Features: 30 tubes, automatic frequency control; FM sound; cabinets specially designed for commercial installation with easy viewing from all angles. Dimensions: 25 3/4 inches wide, x 24 inches high, x 23 inches deep.

20-inch model, No. 2000, has 31 tubes, picture size approximately 17 1/2 inches x 13 inches. Cabinet dimensions: 24 1/2 inches wide, 32 inches high, 31 inches deep. Multiple Television Mfg. Co., 987 Hegeman Ave., Brooklyn 8, N. Y.—RADIO & TELEVISION RETAILING

Magnavox TELEVISION CONSOLE

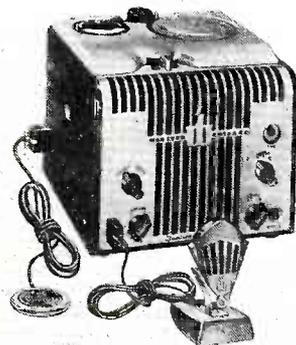
"Provincial" model AM-FM radio, phonograph with dual record changer, and televi-



sion. Set has power output of 10 watts, 12-inch high fidelity speaker, Magnascope television tube. Cabinet of fruitwood. List price for the complete unit is \$695.00. Magnavox Co., Ft. Wayne, Ind.—RADIO & TELEVISION RETAILING

Webster-Chicago WIRE RECORDER

"Electronic Memory" wire recorder, "model 7." Instrument is designed for use by "busy men" in factories, stores, offices. Unit is foot controlled, is semi-portable, and can be car-



ried home for work or entertainment. Foot control requires very little pressure. Ideal for inter-office and business correspondence, or for any spoken material of which permanent record is desired. Available with or without foot control. Webster-Chicago Corp., Chicago, Ill.—RADIO & TELEVISION RETAILING

Wiremaster RECORDERS

Portable model P, priced at \$169.50 features: sturdy carrying case covered in alligator leatherette; weighs 37 lbs., tone control; 8-inch Jensen high fidelity speaker separately housed in cover to avoid vibration and acoustical feedback. Storage space for wire, microphone and cable. 7 tubes, automatic shut-off; may be played through self-contained speaker or through radio; built-in phonograph with lightweight tone arm, plays up to 12-inch records for direct recording on wire; volume level indicator; complete with hand held microphone, mike cable, recording wire and phonograph needles.

Cabinet model H, has the features described above, utilizing built-in Jensen 4-inch speaker, plus compact, hand-rubbed mahogany, walnut or bleached cabinet. Sells for \$142.50. Precision Audio Products, Inc., 1133 Broadway, New York 10, N. Y.—RADIO & TELEVISION RETAILING

Combos and Recorders

RCA Victor TELEVISION RECEIVERS

"Sightseer" model shown, 8-T-244. Set features slideaway doors that cover controls and screen. Suggested Eastern list price is \$395.00.

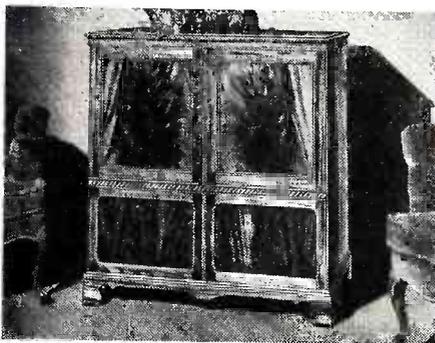


"Bystander," television set model 8-T-241 features speaker located in top of set. Suggested Eastern list price is \$325. in walnut or mahogany finish, \$345, in blond, "Onlooker" television receiver, model 8-T-243, features contemporary styling by combining gun metal color and walnut or mahogany finishes. Louvered front panel is wood of gun metal color.

All three models utilize advanced circuit with 22 tubes plus two rectifiers; new tuner; extensive shielding to minimize interference; "power-on" circuit which causes tube face to glow when instrument is left on after transmitter to which it was turned goes off the air.

Capehart CONSOLE (TELEVISION OPTIONAL)

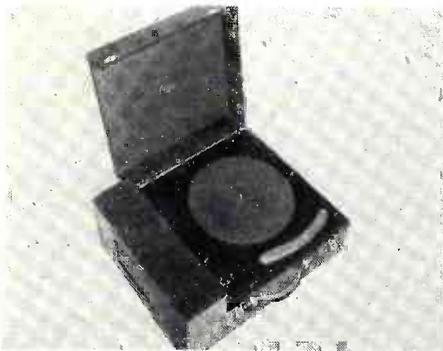
Three new receivers introduced permit dealer to merchandise AM-FM-Phonograph combination completely equipped for television installation either at time of purchase or at any time the customer desires up to January 1, 1950. Space and mounting shelf are provided for television chassis, and the viewing tube panel, front safety glass and metal screen backing are all installed at time of delivery to dealer. Television space in two of the models can be converted to record storage space if desired. Model 504PR is shown, as a complete



AM-FM-Phonograph unit with standard record storage facilities. List prices, without television are: Models 501PR, 502PR and 504PR \$895.00, \$795.00 and \$595.00 respectively. With television installed the three list at \$1295.00, \$1195.00 and \$945.00. Farnsworth Television & Radio Corp., 3702 E. Pontiac Ave., Ft. Wayne 1, Ind.—RADIO & TELEVISION RETAILING

Ansley PORTABLE RECORD PLAYER

Portable record player with amplifier for use with Long Playing records. Instrument features 33 1/3 rpm turntable, 3-tube amplifier



with volume and tone controls, 5-inch speaker. Player is housed in leatherette covered carrying case with leather handle. Priced at \$41.95. Ansley Radio & Television, Inc., 41 St. Joe's Ave., Trenton, N. J.—RADIO & TELEVISION RETAILING

Sonora TELEVISION SET

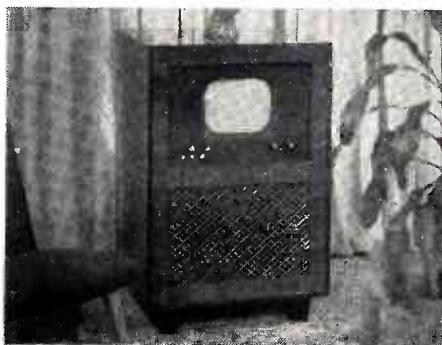
"The Contemporary," model 700-A television set has 10-inch direct view tube, 52 square inch picture. Features: automatic image lock-



in, "clear as a bell tone," "micro-sharp" image for high definition and faithful reproduction. Mahogany cabinet. Lists for \$325.00. Sonora Radio & Television Corp., 325 N. Hoyne Ave., Chicago 12, Ill.—RADIO & TELEVISION RETAILING

I T I TELEVISION CONSOLE

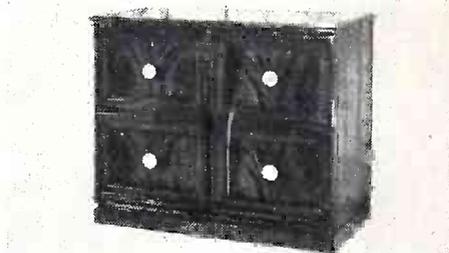
Model 221 D, dark mahogany period styling; model 221 L, bleached mahogany, modern styling. Set has 18 tubes plus 2 rectifiers and



picture tube; employs 12-inch permanent magnet speaker; Features advanced circuit design. Overall cabinet dimensions are: 25 1/2 inches wide, 23 inches deep, 28 inches high. 12-inch direct view picture tube gives 72 square inch picture Industrial Television Inc., 359 Lexington Ave., Clifton, N. J.—RADIO & TELEVISION RETAILING

Starrett TV CONSOLE

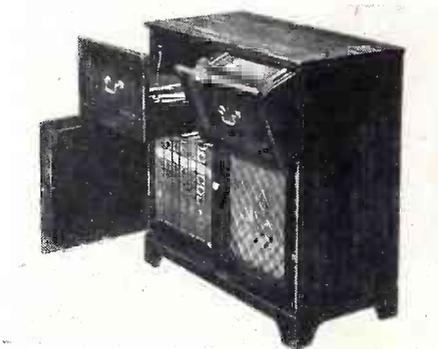
"The Gotham," television set has 15-inch direct-view tube, AM-FM radio, Webster phonochanger. Cabinet available in mahogany or walnut is 39 inches high, 46 inches wide, 24



inches deep. Features include: dialite tuning, gold plated dials and knobs. Circuit has 40 tubes plus 2 rectifiers. Priced at \$1575.00. Starrett Television Corp., 601 W. 26 St., New York, N. Y.—RADIO & TELEVISION RETAILING

Air King CONSOLE

Model A-800, AM-FM, record changer console combination, built for exacting tonal reproduction and high fidelity reception. Record player plays 10 and 12-inch records intermixed.



Low pressure tone arm and permanent needle featured. Set has 8 tubes with built-in loop and folded dipole antenna. Cabinet in mahogany, walnut or blond. Priced at approximately \$219.50. Air King Products Co., 170 53 St., Brooklyn 32, N. Y.—RADIO & TELEVISION RETAILING

More New Products
Elsewhere
In this Issue

**Maryland Merchant Tells How Firm
Succeeds Now—Plans for Future**



Promotion-minded Ward merchandisers use window displays as silent salesmen. The large signs attract attention of passers-by on both streets.

Fast Service, Installation, Brings More TV Sales

THE PROBLEM a suburban retailer has in meeting competition from the stores in an adjacent large city is nothing unusual. But when a suburban dealer in radios and electrical appliances turns the tables on the large downtown stores by not only keeping a large share of his community's patronage at home but drawing at least half of his volume from the buyers living in the metropolis next door, the method he employs is worthy of careful attention.

Ward Radio and Electrical Appliances at 8535 Georgia Avenue, Silver Spring, Md., fast-growing development adjacent to Washington, D. C., uses every angle of modern merchandising technique to build up trade.

The firm's chief ace in the hole is a service department which insures television installation 24 hours after the order is taken, with equally prompt maintenance attention.

A crew of four is employed full time with truck and car service for fast calls to any part of Montgomery County or the District of Columbia. As a result of this innovation, Ward's has been

able to boost its volume of television sales about 25 percent in four months.

Robert Miller, owner of Ward's, is an enthusiastic advocate of a self-owned and operated television installation service section by the dealer. Says Mr. Miller: "The future of the dealer lies mainly in his television sales. At least 75 percent of our business total in the next two years will come from this fast-moving and popular item and we must be prepared not only to sell it, but to step up our installation and repair service.

"The expense for such a service easily repays itself. The average television installation costs somewhere between \$55 and \$65. The average store already has its service department with bench

and mechanics on hand. If it takes in television service the extra payroll of a helper and installer means an expense of from \$100 to \$120 per week. Aerial costs run from \$8 to \$10. Now if you only sell four sets a week, your income amounts to about \$225 on the installation alone. A weekly sale of four sets would therefore meet the fixed charges, leaving about \$80 for a maintenance man as well as mechanics available for other service work."

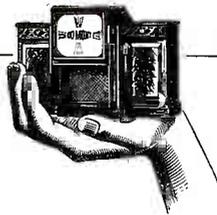
Other Values

But in addition to its monetary advantage, self-conducted television installation service has brought Ward's other highly satisfactory results. It enables the store to keep control of this work and it enables the store to give its patrons a personalized service and direct contact. This benefit is highly

(Continued on page 40)

Consumer advertisements like this help Du Mont dealers with the present problem of meeting the terrific demand for Du Mont television receivers.

IT'S
YOUR SET...
BUT OUR
REPUTATION



Here's why your Du Mont dealer may tell you you'll have to wait a week, or two, or even three, for delivery of your Du Mont television receiver.

THAT DU MONT RECEIVER you are eagerly waiting for is in the factory right now. Perhaps at this very moment a skilled craftsman is soldering one of its thousands of tiny connections. He is taking time to do it right.

Do you want him to hurry? It's your set.

Or perhaps your set is now on the test line.

That test line is really rough!

They put a set through all its normal paces; and then they abuse it. They deliberately try to bring out flaws and weaknesses. They torture its most delicate nerve centers and watch the screen to see if the picture flinches.

Let's say there's a capacitor in there that doesn't act quite right when the overload goes up to three times its rated capacity. Probably wouldn't make any trouble — not for years anyway. But then again, it might.

What do you want that inspector to do?

Shall he stamp it "OK" and ship it out to you?

Or shall he mark it "Reject. Replace Capacitor C-21-E and re-test"?

It's your set, mister! Will you wait another day or two to have it right? You don't have to make that decision. We made it. The set goes back. It's your set — but it's our reputation!

The reason your dealer must keep you waiting is that so many people want Du Monts. And the reason they all want Du Monts is that Du Mont has a fine reputation. A reputation for delivering the brightest, clearest, steadiest picture even where conditions are poor. A reputation for trouble-free performance. A reputation for long life.

Maybe you hadn't thought about long life; but you know Du Mont

built the first home receivers clear back in 1939 and those old-timers are still running fine.

That Du Mont receiver you are waiting for is going to bring a lot of enjoyment into your home. It's going to play a very important role in your life from now on.

We're sorry we can't promise you immediate delivery. But we do promise that when you get your Du Mont receiver, it will be as nearly perfect as human skill, and patience, and seventeen years of television experience can make it.

You'll soon forget the short wait; but ten years from now we hope you'll be telling the boys, "That old Du Mont of mine still pulls in such a swell picture I wouldn't swap it for a new one."

You won't be sorry then you waited for a Du Mont.

DU MONT

First with the Finest in Television

Fast TV Service, Installation

(Continued from page 38)

valuable in the smaller communities where in most cases the store's employees are personally known to the customer.

Ward's fast installation service is most effective too at peak buying seasons when an outstanding sporting or political event, or some other affair

In line with their alert merchandising procedure, Ward's employs a triple-barreled promotion campaign to bring its message home to prospective customers, devoting at least 5 percent of the annual volume for this purpose.

Ward's participates in shows put on by Philco and other manufacturers for their retail outlets. The store prefers to take to the air consistently. This is in order to refresh the public's memory constantly on the name of the establishment and what it stands for.

In this respect Ward's agrees with old Bill Shakespeare that "consistency thou art a jewel" can be applied to radio as well as other forms of promotion media since they hammer away at them consistently. That policy confirms a fact known by other advertisers, that the sales effectiveness of long-range, regular, cumulative, persistent advertising increases from month to month and from year to year. If intelligently planned and wisely executed, advertising should be more effective during the second six months than the first; even higher during the second year.

The third promotion medium, direct mail, is used extensively also. A reprint of the newspaper ad is sent out after each insertion to a select list of 5,000 names taken from the directories, store accounts or to newcomers.

Consultation Service

Tying in with all of this is personalized, word-of-mouth advertising that comes straight from the store itself with the inside salesmen constantly playing up the advantages of prompt television installation service to persons coming in. A personal consultation service is afforded which in some cases even embraces advice on interior decorations and furnishings to go with the set purchased.

From the physical standpoint the location and architectural features of Ward's has contributed heavily toward building up store traffic. Situated at the corner of Colesville Road and Georgia Avenue, which is the Times Square of this bustling community, second in population only to Baltimore throughout the state, the store draws immediate interest from passers-by. This focal attention is accentuated further by plenty of neon signs indicating national brands available, and a lot of parking space close by.

It is this type of alert merchandising and aggressive promotion which draws a mixed trade from Federal government workers, city dwellers and suburban residents as well as rural buyers that has enabled Ward's to demonstrate phenomenal growth in its 12 years.

Personnel of this store besides Mr. Miller include: Armor Friend, sales manager; and Robert Lenet and Richard Graf, salesmen.

If you can't visit WARD'S
MAIL THIS COUPON:
GENTLEMEN: I live in the vicinity of Silver Spring and would like to have one of your representatives call on me and explain how I can buy television on EASY CREDIT TERMS.

NAME _____
ADDRESS _____
CITY _____ STATE _____

USE WARD'S EASY TERMS!

WARD RADIO
and **ELECTRICAL APPLIANCES**
8535 GEORGIA AVE. ★ SH. 6700

AMPLE FREE PARKING IN FRONT OF OUR DOOR!

Use of return coupon by Ward brings inquiries; indicates how successfully an ad is pulling.

high in news value impels many customers who are on the fence regarding their choice to make an immediate selection with the hope that their set will be in their home in time for them to tune in on the dramatic affairs about to take place.

The climax in volume for this store came during the few days preceding the Louis-Walcott fight and the national political conventions when the establishment was crowded with customers and the telephone busy ringing with orders. Because Ward's had the foresight to have its installation service already in operation, they put over sales which would not have resulted otherwise.

Mediums used include newspaper advertising, radio and television advertising and direct mail, each concentrating on a particular segment of the population.

The Washington newspapers are utilized at least once a week, the ad taking up 400 to 600 lines. The copy plays up immediate television service. Although dealer mats are used for the bulk of the copy, they are adapted and modified by the store's professional advertising assistant to fit the requirements of their own particular trading area.

Television time itself, as well as radio spot commercials, are used extensively to further step up this advertising campaign. At periodic intervals

ELECTRICAL APPLIANCE production estimates for 1948, prepared exclusively by RADIO & TELEVISION RETAILING, appear in the Electrical Appliance Section of this issue.

Television is the Toast of the Industry— But Radio is Still the Bread and Butter

● When the miracle of radio burst upon the market, back in the early 1920's, there were skeptics who, with more vigor than vision, predicted the end of the phonograph and record industries. But they were wrong. Far from killing the record business, radio opened for it vast and lucrative markets.

Today, the magic word in the industry is television—and there is no denying the impact and potential of this new entertainment service. But it would certainly be a mistake to sell radio short. Television, which some economists predict will be in the multi-billion dollar sales bracket before long, naturally fires the imagination, and dealers are eagerly awaiting opening of markets in their areas. But the consequences may be dire for those dealers who just sit and wait, forgetting that radio is still the bread and butter of the industry.

Every new advance is accompanied by dire predictions concerning existing industries. You may have heard such predictions; radio would kill the phonograph, talking pictures would kill the stage, radio would kill talking pictures, and radio advertising would kill newspaper and magazines. Today, however, we find more advertising in more magazines than ever before, movies are going strong, phonographs are selling as well as ever, and tickets to a top Broadway show are hard to get.

Radio and TV Partners

Judging from the pattern, advances seem to expand existing markets, rather than kill them off, and there is no reason to believe that radio and television will not remain partners for a long time, each continuing to bring its own particular entertainment services to the public.

Let's take a look at the radio market. There are those who point out that the radio business in 1948 is not as good as it was in 1947, and that it may be even further off in 1949. Their figures are right—but their reasoning is wrong. Television alone is not responsible for the drop in radio volume. The plain and simple fact is that the industry has

to a great extent satisfied the abnormal demand pent up during the war years, and sales are slowly leveling to normal.

What is normal? The five year period preceding the war, from 1935 through 1939, is generally accepted as a normal business period. During that period, the radio industry sold a yearly average of seven and a half million radio units. During the war years there were no radios, but there was a constantly increasing demand, so no one was sur-



This interesting, timely article was written especially for **RADIO & TELEVISION RETAILING** by Frank M. Folsom, newly-elected president, Radio Corporation of America.

prised when the sales figures shot past the 14 million mark in '46. Last year, still riding the crest of the pent-up demand, the industry hit the all-time high of 18 million units. Certainly no one expected the abnormal to continue indefinitely. Just as we knew the sales figures would soar, we knew they would start leveling off once we had satisfied the major portion of the war-induced shortage.

This year the industry expects to sell some 13,000,000 radio units, and those who see television as knotting a noose around radio's neck will point out the drop from last year's 18,000,000 mark. But actually that represents a normal leveling off from abnormal business conditions, and despite the drop from last year, the industry will still be sell-

ing nearly double the volume established as normal in the pre-war period. There's hardly an industry in this country today whose current sales figures will match those of the lush 1945-46-47 period, and there are not too many that are still doubling their prewar sales volume.

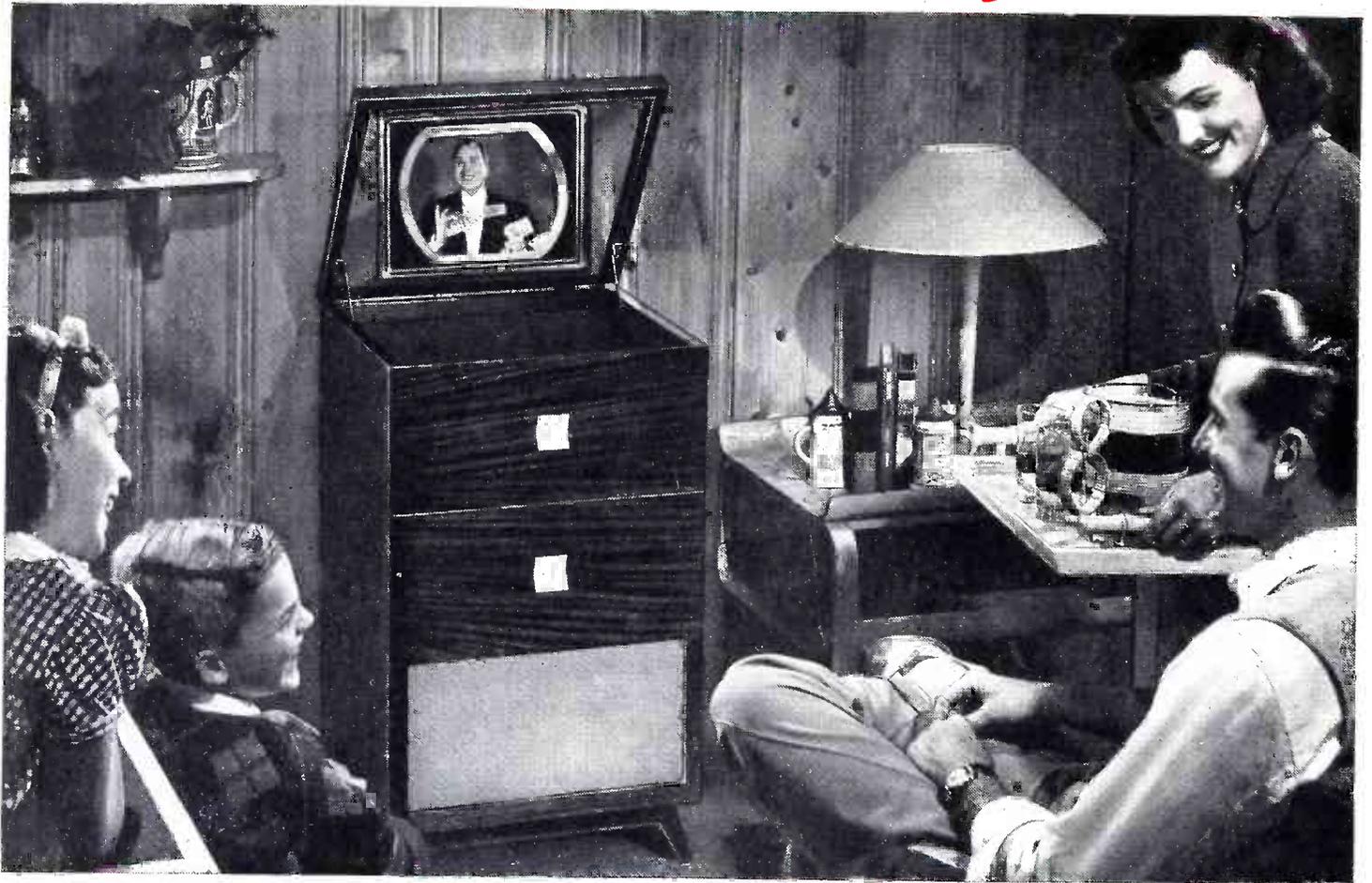
But the dealer who forgets that and writes off radio, and hopes only that he can stay open until television brings a chunk of its multi-billion dollar potential into his area, stands a good chance of not being around on bonanza day unless he stops wringing his hands and goes out digging for the lucrative radio business that is still all around him. The nation's radio dealers will sell this year about twice as many radios as they sold in 1938, with the dollar volume for this year up around the 650 million mark. Estimates for 1949 see a market in excess of ten million radio units, still well above the normal. The dealers' share of that business will be in direct proportion to their alertness, aggressiveness, and know-how in promoting, merchandising, and selling radios.

Business Stimulants

Today's radio dealer is better equipped than he was in 1938. He has new business stimulants in FM, portable radios, and radically improved styling, together with a tremendous replacement business. True, television will undoubtedly divert a considerable amount of radio money—but for every established family buying a television set, there will be a young married couple just starting out and economically limited to a table model radio or a low-priced radio-phonograph. Every family that buys a table model television set is a prospect for a radio-phonograph or a table radio or phonograph for other locations in the house. And even the family purchasing a television-radio-phonograph combination is still a prospect for radio merchandise—a table model for Junior's room, a radio-phonograph for the playroom, a table radio for the kitchen.

Radio is certain to be the bread and butter of the industry for some time to come, but only for those dealers who, instead of idling until television comes, go out aggressively for the still lucrative radio business. The postwar days of fighting off customers in the stores are gone. But the customers are still around, buying twice as many radios as they did before the war. The smart, aggressive radio dealer knows where and how to find them.

The Picture the Whole Family Can See!

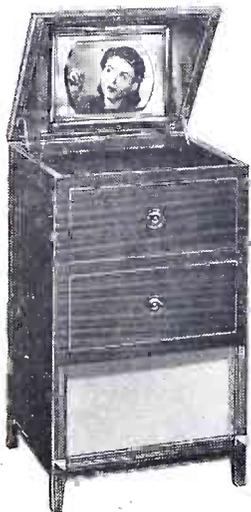


Stewart-Warner

WONDER WINDOW TELEVISION

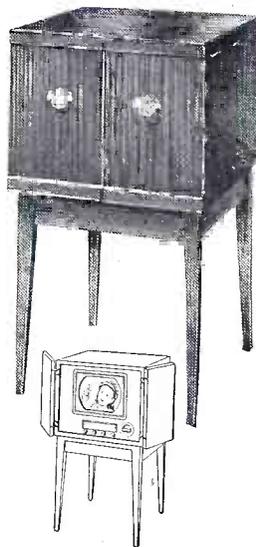
Wonder Window "NEW YORKER"

(AVC-1)—(pictured above) style-proportioned for today's home. Fits easily into modern room arrangements. Styled in beautiful, hand-rubbed mahogany. Matches Stewart-Warner "Manhattan" AM-FM-phonograph.



Wonder Window Television CONSOLETTA

WASHINGTON—(AVT-1)—same wider picture as in the console models, yet it's a remarkably compact direct-view set. Styled in mahogany in harmony with the "Monticello" radio-phonograph. Includes all console features.



Wonder Window "WAKEFIELD"

(AVC-2)—same television receiver as the "New Yorker," styled in the 18th Century tradition in dark mahogany. Over 58 square inches of viewing screen. Instant tuning. Matches "Mt. Vernon" combination.

More people enjoy the show when they see it on the Stewart-Warner Photo-Mirror Screen . . . because the picture's *up* where everyone can see it. For an even *bigger* picture, an enlarging glass slips easily into the cabinet top—*out of sight*.

Once more it's Stewart-Warner for the best entertainment for the whole family!

Stewart-Warner

TELEVISION • AM RADIOS FM • RADIO-PHONOGRAPHS

Stewart-Warner Electric, Division of Stewart-Warner Corp.

CHICAGO 14  ILLINOIS

RECORDS

Section of RADIO & TELEVISION RETAILING

The Record Sales Picture for '48—'49

The year just completed was an important one to the entire record industry. Retailers who weathered the storm of the sales slump, the recently-ended Petrillo ban, appearance of television in their locality, et al, did so by means of hard work in a sturdy boat. The start of a New Year is as good a time as any to reflect on the mistakes and mishaps that have plagued the industry during the past year, as well as viewing the new developments that will prove to be a revitalizing force.

A clear indication of a widening range of public taste shows up in this year's sales figures. In proportion to total sales, a larger percentage of serious music albums and children's records were sold during '48 than at any time before.

In the popular field, such categories as hill-billy, modern jazz, race, and platters with a "foreign flavor" have been released in great varieties, and have been gaining greater acceptance. Dealers find that although the public taste is broadening, it is at the same time becoming more selective.

The advent of television in many areas of the country undoubtedly has had an immediate effect on record purchasers in such sections. However, the entertainment industry sincerely believes that there is plenty of room for everybody. As more people get used to the idea of seeking entertainment at home, the better it will be for the recording industry.

Sales of record needles have continued at a slow, but steady pace. Even those dealers who reported diminishing record sales some months, found that needles were still selling. Although the public was cautious about buying, they were listening to and enjoying their collections at home.

The introduction of Long Playing records and equipment added a new note to the proceedings. Consumer interest in the unbreakable microgroove, 33 1/3 rpm recordings remains very high. The public is definitely interested.

However, rumors of the imminent appearance on the market of other discs which play at a still different speed, and which require additional playing equipment have been disturbing all facets of the industry. Equipment manufacturers have been holding back; dealers are confused.

A number of industry leaders have been shown RCA Victor's new record and record player. A 45 rpm job, the "doughnut" disc is made of Vinylite, and is said to be planned for the market some time this coming Spring. It is rumored that it may sell for as little as 50 cents. (For further information, see page 48, this issue of RADIO & TELEVISION.)

Some manufacturers have privately stated that they intend to sit it out on the sidelines, continuing to release records that play at 78 rpm—for the time being, anyway.

Dealers should make all efforts to assure their cus-

(Continued on page 49)

1948 Sales Estimates of Records and Needles Compiled by RADIO & TELEVISION RETAILING

| RECORDS | | Total No. of Units | Total Retail Value | PLAYING NEEDLES | |
|-----------------|-------------|-----------------------|-----------------------|---|---------------|
| Popular | 150,000,000 | | | Steel (Including those manufactured in foreign countries) | 100,000,000 |
| Classical | 62,500,000 | | | Precious metal-tipped .. | 15,000,000 |
| Children | 37,500,000 | | | Precious jewel-tipped .. | 500,000 |
| | 250,000,000 | | \$233,125,000 | | 115,500,000 |
| | | | | | \$ 25,000,000 |

Columbia's LP Records and the Future

More than 250,000 lines of enthusiastically favorable publicity reaching approximately 100,000,000 potential customers and a virtually unanimous approval of the product by those consumers who have heard it demonstrated, has quickly and definitely established Columbia's sensational new Long Playing Microgroove Record as the greatest development in the record industry since electrical recording.

With player attachments and two-speed, dual-purpose radio-phonograph combinations now available and a growing list of LP records offering the consumer an ever widening choice of music, we will have completed by January 1 the initial phase of LP distribution.

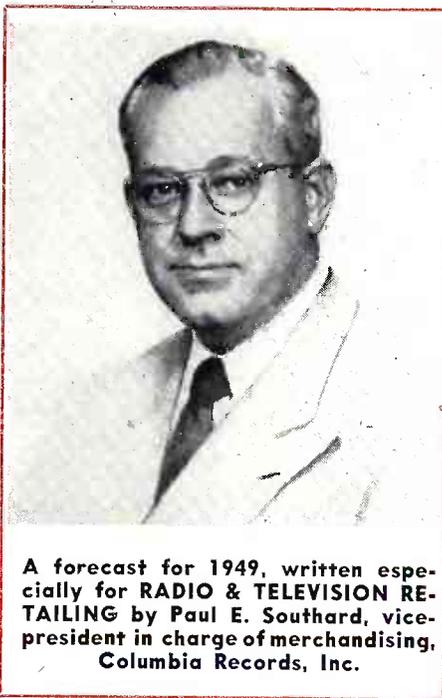
By the end of this year there will be well over 100,000 owners of LP Player attachments and uncounted thousands who will own new dual-purpose phonographs, designed to play both conventional shellac records and the new LP. Millions of dollars in announcement advertising will have been spent by Columbia and the radio-phonograph manufacturers. By the beginning of 1949, there will be close to three million LP records in the hands of consumers.

Gradual Transition

Now, let's take a look at 1949 and see what is likely to happen. I am firmly convinced that ultimately the conventional shellac record will be replaced by LP. I can't see how it can be otherwise in the face of the multiple consumer and dealer advantages offered by LP such as savings in money and space, superior quality, nonbreakable Vinylite, ease in handling, etc. However, I am equally convinced that the transition from conventional shellac records to LP will be a relatively gradual and a completely orderly one.

I think that the present is proof sufficient of what to expect from the future for while LP has met with an enthusiastic consumer reaction, there has been no indication that the change-over from shellac to LP has been so rapid as to cause any inventory obsolescence. Nor will that change be accelerated to the point where inventory obsolescence (provided, of course, inventories are controlled with reasonable intelligence) is probable in the future.

In 1949, I forecast a great increase in the mail order business in phonograph records. With the presence of a light, nonbreakable record in the form of



A forecast for 1949, written especially for RADIO & TELEVISION RETAILING by Paul E. Southard, vice-president in charge of merchandising, Columbia Records, Inc.

LP, consumer objections to ordering and shipping records by mail will disappear and a marked increase in ordering records and sending them as gifts by mail will result.

During 1949 almost every major radio manufacturer will have a dual-purpose turntable incorporated in his new combinations. Many manufacturers have already announced such phonographs as the feature of their 1949 lines and are now delivering such combinations. The difference in cost between an ordinary phonograph which plays only conventional records and one which plays both conventional records and the new 45-minute LP record is so small that it is altogether inconceivable that the purchaser of a new combination or straight phonograph will buy anything but a dual-purpose model. It means also that there will be an added incentive to purchase a new phonograph, a fact which adds up to a sizeable increase in instrument sales during 1949.

But, you will argue there are thousands of owners of relatively new phonographs who are not going to buy

new combinations just because of LP. That contention is entirely correct and for these people the simple, inexpensive and easily installed player attachment marketed by Columbia and many instrument manufacturers modernizes these phonographs. In 1949 the sale of Columbia Player attachments and other similar instruments will be at a peak providing further profit opportunities to the dealer.

In the last quarter of 1948 our advertising, primarily announcement advertising, has been breaking the news of the sensational new 45-minute record. In 1949, that tremendous barrage of advertising will be continued and its accumulative effect will grow continuously.

The rapid expansion of our LP catalog will be another factor influencing increasing consumer interest and resultant increasing consumer purchases of LP through 1949.

On January 1, 1949 our LP catalog will consist of 157 records, 635 selections. We will, of course, continue to issue new LP releases each month during 1949 and the increasing breadth of catalog resulting from this practice will mean an increasing amount of interest on the part of an ever growing number of consumers.

I further flatly predict that for the first time in many years many new record buyers—people who have never before purchased a phonograph and records—will begin to enjoy recorded music for the first time. The absence of interruptions, the low cost and superior quality, the removal of the storage space problem and the fact that a low priced attachment can be connected even to an ordinary table model radio, will combine to arouse the interest and prompt buying action on the part of the new record buyer.

Public Approves

The biggest single factor behind the expansion of LP during 1949, however, will come through word of mouth advertising by satisfied LP owners. Already thousands of unsolicited letters from the buying public and reviewers have attested to the success of LP. "Greatest invention since the wheel"; "Oh, that quality. Beautiful, beautiful!"; "... am really listening 'in the clouds'"; "the future is *with us*"; "a new listening experience"—are some of the comments which we are getting every day.

During the introductory phase of this campaign we were unable to keep up with the demand for Columbia Player Attachments. In one sense, this was good, for it reflected the enthusiastic public reception of LP. On the other hand, however, it meant many interested consumers weren't able to buy Columbia Players when they wanted them. We have increased our Columbia Player production as rapidly as possible and throughout 1949 we have every reason to believe that we will be able to service dealer orders for Play-

(Continued on page 49)

Sandwich PHONOGRAPH

"Balladier" phonograph, with dual speed motor, to sell for \$149.50 shown. Unit has a 6-tube triode amplifier, 8-inch speaker, motor



mounted on springs, two cartridges for use with standard and Long Playing records. Attractively finished cabinet. Sandwich-Bowen Corp., 4712 Bethesda Ave., Bethesda, Md.—RADIO & TELEVISION RETAILING

Ultratone TAPE RECORDER

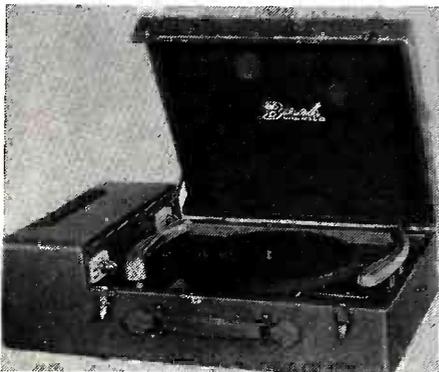
Tape recorder, radio-phono combination features: 7-tubes; one full hour of tape recording; recording on two tracks; unit records directly from its self-contained radio receiver, or from phonograph pick-up arm; set has all controls and calibrations on a metal sloping



front panel. Recorder may be played through the amplifier system of a console radio or other amplifying system. Plywood carrying case covered with fabricoid. Size: 18 3/8 inches deep, 16 3/4 inches wide, 9 7/8 inches high. Audio Industries, Michigan City, Ind.—RADIO & TELEVISION RETAILING

Birch TWO-SPEED RECORD PLAYER

Portable dual speed record player, model DS 63 plays 33-1/3 and 78 RPM records through its own amplifier. Features: two matched output pick-ups, synchronized with dual speed



motor, featherweight pick-ups; two tubes plus selenium rectifier. Leatherette covered case is 20 x 6 x 13 inches. Retails for \$39.95. Boetsch Brothers, 221 E. 144 St., New York 51, N. Y.—RADIO & TELEVISION RETAILING

RADIO & TELEVISION RETAILING • January, 1949

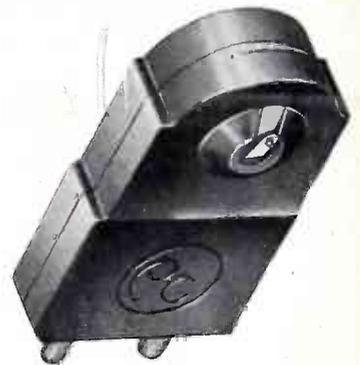
Pickering ANNOUNCES...

A RECORD REPRODUCER JUST FOR MUSIC LOVERS

...and in addition

YOU CAN REPLACE THE STYLUS FOR GREATER ECONOMY!

The Pickering R-150 Cartridge is designed and manufactured for the discerning person who wants the optimum quality of record response with standard record playing phonographs. The R-150 Cartridge is not for professional use—not for transcription use—not for laboratory use—but is especially manufactured by Pickering for home use with conventional phonographs.



OUTSTANDING AMONG THE FEATURES OF THE R-150 ARE:

- 1 Stylus is replaceable for greater economy. No longer is it necessary to discard cartridges or return them to factory for stylus replacement. A low-cost stylus can be installed by hand in a matter of seconds. A sapphire stylus is good for several hundred playings—a diamond stylus is good for several thousand playings. Both are readily available at leading dealers.
- 2 Both sapphire and diamond styli, 2 to 3 mil radius are available for the R-150.
- 3 Negligible acoustical radiation and needle talk.
- 4 No appreciable response below 30 or above 10,000 cycles — no frequency discrimination between these limits.
- 5 No extraneous sounds due to warped or imperfect records.
- 6 Of all commercial cartridges, the R-150 produces the lowest record wear.
- 7 Stylus will not work loose but will actually tighten due to playing forces.

THE R-150 IS NOT TO BE USED WITH MICROGROOVE RECORDS. LONG PLAYING MICROGROOVE RECORDS REQUIRE THE PICKERING D-140S WITH DIAMOND STYLUS OR THE S-140S WITH SAPPHIRE STYLUS.

Pickering & Company, Inc.

PICKERING REPRODUCING EQUIPMENT: Cartridges for standard and microgroove records, Transcription Pickups, Pre-Amplifiers, Equalizers, Equalizer-Amplifiers are sold by leading distributors . . . write for the names of the ones nearest you.



Oceanside, New York



New Profit-Making Personalities for '49

▲ Lovely Jane Pickens was recently added to the RCA Victor roster of stars. Her "Galaway Bay" waxing was an impressive debut disc.

DEALERS would do well to look to these recording artists to bring in bigger and better sales during the coming year. Some of the faces are new to the recording scene, others have been around for quite a while. A few of the names have already created places for themselves on the best-seller lists, and on personal appearance tours. Others show great promise of having that indefinable something that "sells." Retailers who want to stay on the beam during the coming year, will want to keep up with waxings released by these artists.



▲ Among the initial list of releases issued on the Coral label, was the Ames Brothers' "You, You, Are the One" and "More Beer."

Thrush Patti Page has been attracting much attention of late on the Mercury label. ▶





Decca's Evelyn Knight went over big with "A Little Bird Told Me." Watch for "Powder Your Face with Sunshine" for another hit by this songstress.

New duet sensation, Doris Day and Buddy Clark started something with their "Love Somebody" disc success for Columbia. The label is following through with more of the same.



Jerry Sellers, MGM recording star's version of "Heart and Soul," won him many new admirers. His next, "Play the Playera," looks equally good.



Scotty MacGregor's pleasant voice and personality shine right through his kiddie records for Continental.

Ray Whitley, folk singer makes his Apollo disc debut with "I Wish That I'd Been Satisfied with Mary."



Dean Martin and Jerry Lewis, who have been packin' 'em into nightclubs across the country, have waxed "The Money Song" and "That Certain Party" for their initial Capitol release.

Record Speeds—33 1/3, 78 and Now 45 RPM!

The New RCA Victor Madame X Record—Dealer's Picture —Effect on Market—Reactions of Parts and Set Makers

• Radically differing from present discs, a new 45-RPM Vinylite record, and a corresponding record-player have been developed by RCA Victor, and during December were exhibited privately to a number of industry leaders for comment, and to give them time to prepare their plans for '49 marketing.

As reported by engineers who have examined this "Madame X" equipment, the discs, seven inches in diameter, have a two-inch central hole, surrounding which is a thickened ring or "doughnut" from which extends the disc itself. Thus when stacked, the playing surfaces of the records do not come into contact so that there can be no injury through scratching. High fidelity is claimed for the record.

This "doughnut" construction of the record greatly facilitates operation of a simplified mechanical record changer

which can be manufactured at a cost said to be about one half that of present changers. The records also promise a production cost less than that of the present 78 or 33 1/3 RPM discs. It is rumored that the "Madame X" record may sell for as little as 50 cents.

Reaction is Mixed

Reaction of set manufacturers is varied. Some are vigorously protesting that the launching of records and equipment of still another speed added to the 78 and 33 1/3 RPM picture will result in the utmost confusion at the retail level. Some other manufacturers say they will go along with RCA Victor, and plan to bring out equipment to play the "doughnut" discs on sets this coming Spring.

In the meantime, the dealer is viewing the situation with considerable

anxiety, as are manufacturers of record-playing parts and units, many of whom have been working at top-speed getting geared up to produce equipment to handle Columbia's Long Playing discs.

How Merchant Fits In

The way the whole thing looks at this time, instruments made to play all three speeds—78, 33 1/3 and 45 RPM, will be on the market late this Spring. It is likely that some such players will have two separate compartments, one to play both the conventional and the LP discs, and the second to play the Madame X or RCA Victor's "doughnut" type.

One large set manufacturer asserts that if his firm does go along with the Madame X set-up, it will manufacture a single unit designed to play all of the three speed discs in one compartment. However, this maker said that such equipment could not possibly be ready before middle or late summer.

It is reported that some Middle West firms are already in production on 45 RPM equipment, and that some of them are making units to adapt existing instruments to play the new "Madame X" discs.

Though the situation is widely viewed with irritation and alarm, it may, after all, prove to be the shot in the arm the record business needs.

Certainly, the dealer is in the driver's seat for the first time in five years. Having been the goat in all sorts of "deals", stagnant inventory-loading practices, and, for the past year struggling in a slowed-up market, he is now the man who is going to have the final say in this phonograph record business.

Advice to Retailers

Believing as he does in free enterprise, the retail merchant has no gripe against the practice of bringing out innovations. He knows that the manufacturer has a perfect right to make what he pleases.

But the alert retailer doesn't want to get caught in the middle of any situation such as is now facing him in this industry.

The editors of RADIO & TELEVISION RETAILING urge their readers to watch inventories of instrument and discs with an eagle-eye; to sell harder, and to advertise more. Turn-over rates must be increased; present stocks must be reduced. Too, in meeting the new conditions, merchants need to forget practices and habits of the past, taking whatever new comes along offering additional profits—dropping those which do not appeal to them on a dollars and cents basis.

Named by Times-Columbia

George A. Hayes has been appointed as sales manager of Times-Columbia distributors, exclusive Columbia Records distributor in New York City, Westchester, Nassau and Suffolk counties.

Astatic FL SERIES Pickups

Play BOTH 33 1/3 and 78 RPM Records WITHOUT changing Needle Pressure or similar adjustments

NOT HAVING to change needle pressure or make similar adjustments—in switching from 33-1/3 to 78 RPM Records with Astatic FL Series Pickups—has done much to put these revolutionary phonograph playing arms in a leading position in the new long-playing equipment field. All that the user need do is change cartridges. Takes only a second, because they are designed to fix themselves in playing position on the same slip-in principle which firmly joins barrel and cap of many modern fountain pens. New engineering, mechanically and electrically, assures perfect tracking, unparalleled reproduction, at the featherlight needle pressure of five grams. Comparable reproduction quality at lower cost is available in other Astatic units, which round out the complete Astatic Long-Playing Line. Write for new brochure, giving full details, illustrations.

FL-33 CRYSTAL PICKUP FLC-33 CRYSTAL PICKUP

FLY-33 CRYSTAL TRANSCRIPTION PICKUP 400-QT-33 CRYSTAL TRANSCRIPTION PICKUP

THE Astatic CORPORATION
CONNEAUT, OHIO
INCORPORATED IN CANADA • Astatic Ltd. TORONTO, ONTARIO

Astatic Crystal Devices manufactured under Brush Development Co. patents

Record Forecast for '49

(Continued from page 43)

tomers that records and players of the 78 rpm variety in popular use today will not be obsolete. On the other hand, they should make plans to actually merchandise the new equipment to bring in additional revenue.

A request made by a record manufacturer to the Department of Commerce to intervene in an attempt to obtain some standardization of playing speeds, brought forth the comment that the government had no right to do so, unless some evidence of "unfair competition" could be found.

Undoubtedly, cooperation and standardization among the manufacturers would be of inestimable help to retailers. In the event that there is none, the burden of deciding what to recommend to his customers falls upon the dealer. The increased competition may finally result in producing better products, having increased sales appeal.

And, as in many other industries in which there is little or no standardization, business will continue.

Southard Foresees Bright LP Future

(Continued from page 44)

ers with reasonable speed. Now, the dealer is able to get them and his 1949 sales will increase consistently as a result.

Many dealers were quick to recognize the sales and profit opportunities inherent in LP. These aggressive dealers have already done and are continuing to do a thorough and productive exploitation job with the result that they enjoyed the profit both from their conventional shellac record business and from LP.

There were other dealers, fearful that the introduction of LP would obsolete their present inventories, who withheld aggressive promotion and sales activity on LP. These latter dealers have already passed up sizeable profit.

There can be no question about the sales and profit opportunities in LP for 1949. There can be a question about how much of this profit will be yours. No matter how much advertising, no matter how much promotion, no matter how much consumer enthusiasm and demand for LP is created during 1949, what proportion of the sizeable LP business becomes yours rests in the final analysis with you and you alone.

On what you do to identify your store as an outlet for the sensational new 45-minute record, on the consistency and productivity of your promotion and advertising, on the selling knowledge of the people behind your counter will depend what share of the LP business will be yours in 1949.

Recording Ban Ends

Recent proposals and terms agreed upon by the phonograph recording industry and James C. Petrillo's American Federation of Musicians brought to an end the recording ban, which started Dec. 31, 1947. The union welfare fund is to receive royalties of from 1½c to 2¼c on each record. Money thus received will be spent on musical performances where no admission fee is to be charged, and no profit made.

Coral Distributors

Coral Records, Inc., New York, a subsidiary of Decca Records, Inc., announced

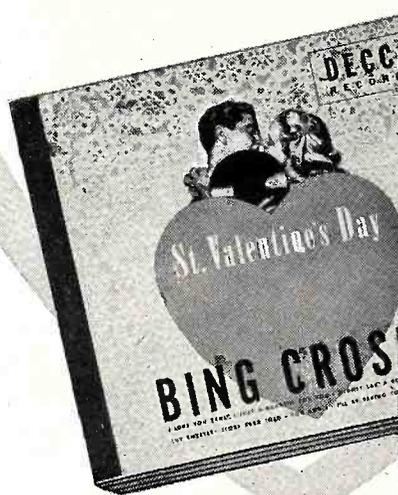
the appointment of the following additional distributors: S. R. Ross, Inc., Salt Lake City, Utah; Mountain Electronics Co., Inc., Charleston, W. Va.; Modern Records, Inc., Hollywood, Calif.

Announcement was also made of the appointment of Joe Delaney as assistant general sales manager for Coral.

Signed by RCA Victor

RCA Victor records has pacted band-leader Lucky Millinder and his orchestra and saxophonist Charlie Ventura and his instrumental combo to recording contracts.

"THE SWEETEST STORY EVER TOLD"
(From the Dealer's Standpoint)



St. Valentine's Day
BING CROSBY
Vocal with Orchestra
DECCA Album No. A-621

23971—I LOVE YOU TRULY

JUST A-WEARYIN' FOR YOU

Both with John Scott Trotter and His Orchestra

23482—THE SWEETEST STORY EVER TOLD
MIGHTY LAK' A ROSE

Both with The Song Spinners, Ethel Smith at the Organ, Lehman Engel and His Orchestra

24255—YOU AND I—MISS YOU

Both with John Scott Trotter and His Orchestra

24256—I'LL BE SEEING YOU—I LOVE YOU

Both with John Scott Trotter and His Orchestra

HERE'S a real opportunity to pick up *extra* profits this month. February 14th, St. Valentine's Day, gives you a hook on which to hang extra sales when you feature Bing's sentimental St. Valentine's Day album—"The Sweetest Story Ever Told." *Display it... talk about it... play it*—and watch the sales roll in.

And remember, there are many other Decca Albums ideal for extra sales on Valentine's Day... such as:

A-678 STARDUST—A group of sentimental songs BING CROSBY

A-654 DICK HAYMES SINGS—CARMEN CAVALLARO at the piano

IRVING BERLIN SONGS

A-624 I'LL SEE YOU IN MY DREAMS CARMEN CAVALLARO

Rush your order Now!

DECCA
RECORDS

APPLIANCE DEPARTMENT

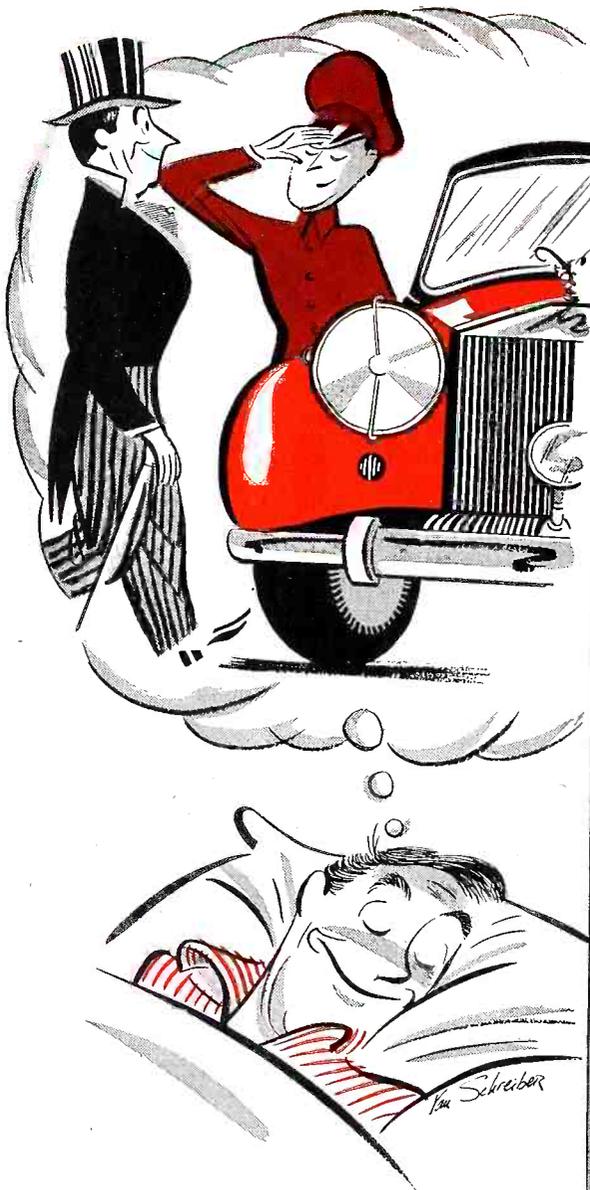
HOW TO MAKE '49 YOUR BEST YEAR YET!

1949 can be the biggest year in the history of your store, but it will require plenty of aggressive selling. Yes, the honeymoon's over. The Buyer's Market has returned. Most appliances are available in good supply. Now you'll have to "ring doorbells," "beat the bushes," and really sell to get customers.

You can make '49 your most profitable year by following this basic formula: (1) Offer your customers established, quality lines. (2) Organize a hard-hitting merchandising campaign that includes co-operative advertising, product promotions, direct mail, personnel training, good displays, outside salesmen. (3) Carry out this program month after month.

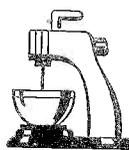
That looks like a large order, but the job will be a lot easier if your local Graybar Appliance Specialist is working with you. He offers you quality appliances and radios that will sell — plus the merchandising know-how to put the program over.

Call our nearest office now and get the help you need to make '49 your best year yet. Graybar Electric Company. Executive offices: Graybar Building, New York 17, N. Y.



NATIONALLY ADVERTISED
APPLIANCES AND RADIOS

recommended by
Graybar



ELECTRICAL APPLIANCES

Section of **RADIO & TELEVISION RETAILING**

TV Trend Seen as Boon to Appliance Business

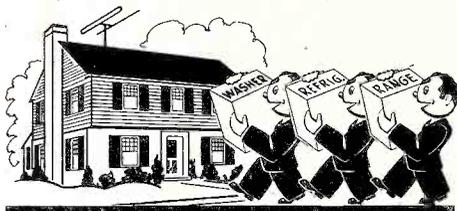
Three Important Factors Insure Bright Outlook for '49. Forecast for New Year

In viewing the various factors which promise a healthy electrical appliance sales volume for 1949 we see *television* standing out in front as a great something new.

Television is just what the doctor ordered to help keep the appliance market fit as a fiddle during the New Year. Video's quick-acting prescription, now being filled, is a magic *open sesame* to the front doors of American homes. It brings the TV merchant and his men in such homes where they are in a most advantageous position to recommend electrical appliances. (See editorial in this issue.)

All authorities agree that *outside selling* is a most effective sales method, and now that the TV retailer has acquired such vast importance—such all-out *entree* to the home, it gives him a great opportunity to increase his appliance volume in addition to his income from TV.

Along with the TV factor, it is encouraging to note that at least two other trends can be interpreted as extremely favorable and significant in viewing the '49 electrical appliance



All new homes need appliances.

market. One of such trends is the slow but sure improvement in salesmanship; the other the slow, but definite increase in housing facilities.

While it is certainly true that competition will stiffen, and that sales will not come as easy as they did in the push-over days, the future looks promising nonetheless. Salesmen are learning what it is to *sell* the hard way—but they are learning. Numbers of dealers are working outside crews, with the majority of others planning to do so. '48 sales records will be broken, but the appliance business will not be obtained by *taking*, but by *asking*. Asking the customer to buy the right way will be the only way satisfactory volume can be maintained.

No one knows how many new dwellings will be built in 1949, but from all indications the number will be considerable. More and more appliances will be sold as more and more families get settled in homes of their own. Though the housing situation is still far from satisfactory, it is some better, and appears likely to improve to a great extent.

Production-wise the electrical appliance situation isn't easy to forecast on a long-range basis. Many materials are still very scarce, with numbers of manufacturers filling orders directly from their production lines. As previously reported in this magazine, one large appliance factory has no inven-

tory storage facilities whatsoever. How long this condition will last is anyone's guess, but we do know what the effects have been thus far. Some electrical appliances are still in short supply, particularly so far as certain models are concerned. On the other hand, some products have been produced in such large quantities that temporary manufacture shut-downs have been put into effect.

However, it does seem certain that

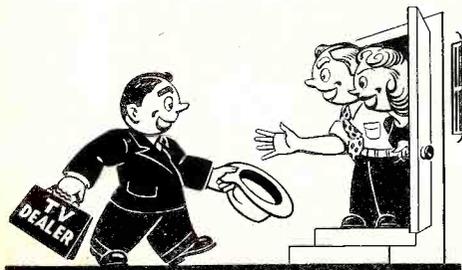


Salesmen are learning the hard way.

over the whole picture '49 production will be considerably ahead of '48, and for this reason the general sales tempo will have to be increased accordingly. American ingenuity is solving many of the problems in manufacturing—eliminating numbers of bottlenecks.

Manufacturers of electrical appliances are extremely interested in the foreign market. It may seem paradoxical to say that even makers who cannot fill present domestic demands are eyeing out of country business, and that some such manufacturers are presently exporting products. But there's a method in this scanning with interest

(Continued on page 78)



The TV man can sell more appliances.

Electrical Appliance Forecasts

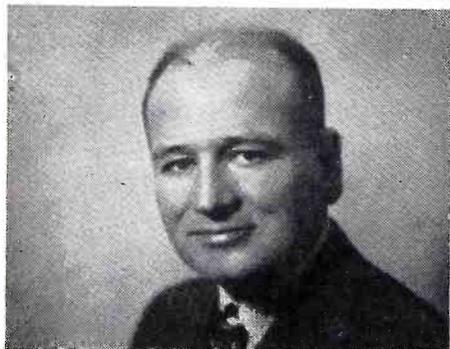
Proctor Official on '49 Iron-Toaster Market

In an exclusive interview with RADIO & TELEVISION RETAILING, Robert M. Oliver, vice-president in charge of sales and advertising, Proctor Electric Co., Philadelphia, makes a number of interesting predictions concerning the 1949 outlook for electric hand irons and toasters. Mr. Oliver, one of the foremost merchandising authorities in the electrical appliance field, said:

"The iron business has undergone its most trying period in 1948. During this year the industry has experienced a complete change from a sellers' to a buyers' market. At the beginning of '48 manufacturers were producing at the rate of more than ten million units per year.

"During the first quarter of 1948 retail buying slowed down to a very slow walk, and inventories of dealers, distributors and manufacturers climbed to their highest levels. Contributing to these large inventories were a number of newcomers, and an accumulation of stocks of relatively unknown brands, some of the latter left over from previous years.

"The job of the industry was to work off this large inventory, and to help the dealers and distributors clean house. Importantly, too, it was necessary for the industry to change its mental attitude



Robert M. Oliver

from one of allocation to one of merchandising.

"In my humble opinion, the industry has succeeded to a very great extent in achieving its goals during the first ten months. We at Proctor think the situation has adjusted itself.

"In terms of next year, it appears likely that the industry will start off with a fairly clean inventory condition and with a major portion of the aftermath of the abnormal postwar market behind it. For this reason we think 1949 will be better than last year, though narrowed down to a battle of brands. We believe we can confidently predict for 1949 a ten per cent increase in the unit sales of automatic flatirons through distributor-retailer channels.

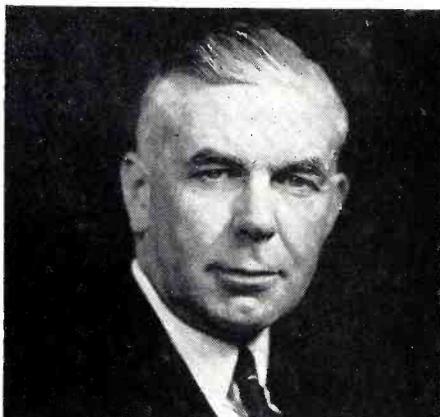
"In 1949 it will be necessary for dealers to actually do a merchandising job. As a manufacturer, Proctor is going all out to help them do this, providing merchants

Andrews Sees Good Appliance Year Ahead

H. L. Andrews, vice-president in charge of General Electric's Appliance & Merchandise Department, predicts healthy market ahead, but stresses the necessity for all-out sales effort. Says Mr. Andrews:

"Production and sale of General Electric household appliances rose steadily in 1948, and barring a serious change in the materials supply, it is expected that they will continue at their present pace into 1949.

"Most appliances are now readily available in retail stores across the country. But there are indications that refrigerators



H. L. Andrews

and ranges — particularly the deluxe models—toasters and mixers will continue to be in demand.

"The outlook for the appliance business, in other words, is good. But an all-out sales effort on all appliances will be necessary if 1949 is to wind up as successfully as 1948."

with a wide variety of effective sales and promotional material.

"With respect to toasters, we look for a transition from a seller's to a buyer's market during the first quarter of '49. This will come immediately after a peak retail selling season. Normally, there will be a tremendous drop in consumer demand after Christmas.

"Instead of duplicating the iron situation when inventories at all levels (manufacturer, distributor and dealer) were glutted, toasters will enter 1949 with a relatively clean inventory. If manufacturers continue 1949 toaster production at a 1949 rate, pipe lines will begin to fill up. But, because there will be no big inventories in the beginning of '49 the industry will be able to take it.

"Eventually we feel certain that the industry will find a level of consumption that will considerably exceed that of any prewar year. We look for the demand for automatic toasters to continue to rise. At the present time this demand is two or three times greater than it was in 1941."

Great Opportunity in 1949 Lamp Bulb Sales

The following interesting statement on the great new profit possibilities in the lamp business, together with forecasts on production for 1949, was prepared especially for RADIO & TELEVISION RETAILING by Russell E. Ebersole, general manager, Lamp Sales Department, Westinghouse Electric Corp., Bloomfield, N. J.

"Radio and television retailers have their greatest opportunity in history to cash in on the lamp bulb market which now is at an all-time peak.

"During 1948, for example, the estimated shipments by all manufacturers will approximate 850 million large incandescent lamps and 85 million fluorescent lamps. During 1949, we expect this record lamp output to continue with fluorescent lamp production increasing to 90 million units and large incandescent lamp production holding at about the 1948 level.

"Our market surveys show that when lamp bulbs are properly displayed they require very little additional sales effort, being a replacement and reminder item. On top of that, they swell store traffic



Russell E. Ebersole

and consequently increase the number of prospects for radio and television sets and electrical appliances.

"Electric lamp bulbs are sold through the retailer on the agency plan of selling, protecting the dealer against price decline or obsolescence of stock and assuring him of a good margin of profit. The list price of electric lamps, unlike almost everything else he carries, is actually lower than in prewar days.

"Electric lamp profit possibilities no longer are restricted to 12 cent lamps. Many retailers are being rewarded by selling "big ticket" lamps like sunlamps and infrared (heat) lamps, which incidentally have their highest appeal in these cold-weather months. Sunlamps list for \$8.50 and ruby-red infrared Heat Ray lamps list for \$2.95."

THE INDUSTRY'S BIGGEST SALES CAMPAIGN ON CONSOLE HEATERS

*Cold Weather Keeps
Volume Hot on Consoles . . .
Cash In Now!*

COMING off the production lines with machine gun speed are the handsomest, best engineered gas and oil console heaters in America.

And Rheem isn't pussyfooting about it . . .

At the peak of the season, Rheem shot the gun to TEN MILLION readers of Life, Saturday Evening Post, Better Homes and Gardens, American Home, Country Gentleman and other magazines about the appliance that "LOOKS LIKE A RADIO,

HEATS A ROOM OR A HOUSE."

In addition, the Rheem "Design For Better Business" is providing a wide choice of tested selling helps, including displays, direct mail campaigns and newspaper ads, to nail down prospects in your community.

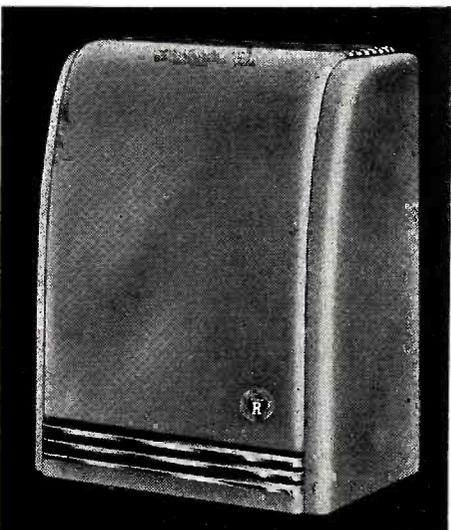
Call your distributor NOW for immediate delivery. It's not too late. You can still harvest heating profits with the fastest-moving, easiest-to-handle line of PROFIT MAKERS . . . Rheem consoles!



Oil Console—welded aluminum cabinet finished in neutral baked enamel. Lights easily as a candle. Produces 50,000 to 65,000 B. T. U. Radiant flame, high-low, vaporizing type burner. Combustion chamber of high tensile steel, seam-welded. Two sizes, largest 31" wide, 39" high, 23" deep. Burns light fuels up to No. 2. Shipped completely assembled. Available as extras are pan-type humidifier, rear-mount fan with switch, 5½-gallon attachable fuel tank. Approved by Commercial Standards and U. L.

Rheem
HOME COMFORT APPLIANCES

Gas Console—die-formed heavy steel with baked walnut finish. Seam-welded heating element. Cast iron burner adaptable for any kind of gas. Equipped with pilot, automatic controls optional at slight extra cost. Can be installed with or without vent. 3 sizes for 25,000, 35,000, and 50,000 B. T. U. input. Largest size is 26" wide, 34" high, 20" deep. A. G. A. approved, Good Housekeeping Guaranty. Shipped completely assembled for easy installation.



Foreign affiliated companies in Brisbane, Melbourne, Sydney, Rio de Janeiro, Singapore, Hamilton, Canada and Zaán Dam, Holland

Rheem Manufacturing Company, Dept. RT-1
570 Lexington Avenue, New York 22, N. Y.



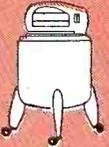
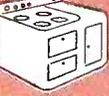
Please RUSH complete specifications on Rheem Oil and Gas Console Heaters.

Name

Address

City State

Electrical Appliance Production

| LARGE APPLIANCES | | Total No. of Units | Total Retail Value '48 |
|---|--|-----------------------|---------------------------|
|  | REFRIGERATORS (HOUSEHOLD ELECTRIC) SIZES FROM LESS THAN 5 CU. FT. TO 13 CU. FT. AND OVER | 4,500,000 | \$1,080,000,000 |
|  | FOOD FREEZERS (HOME, FARM, COMMERCIAL) | 750,000 | 262,500,000 |
|  | ROOM COOLERS (COMPRESSOR TYPES) | 180,000 | 45,000,000 |
|  | LAUNDRY EQUIPMENT WASHERS, AUTOMATIC 1,700,000 \$323,000,000 WASHERS, NON-AUTO- MATIC (WRINGER, SPINNER) 2,750,000 467,500,000 WASHERS, MIDGET 550,000 30,250,000 TOTAL | 5,000,000 | 800,750,000 |
|  | IRONERS (ROTARY) | 500,000 | 70,000,000 |
|  | CLOTHES DRYERS | 100,000 | 24,000,000 |
|  | RANGES, ELECTRIC (HOUSEHOLD NON-PORTABLE) | 1,500,000 | 322,500,000 |
|  | VACUUM CLEANERS (HAND, AND UPRIGHTS, TANKS) | 3,200,000 | 208,000,000 |
|  | DISHWASHERS | 300,000 | 90,000,000 |
|  | DISPOSAL UNITS | 200,000 | 25,000,000 |
|  | WATER HEATERS, DOMESTIC (ALL SIZES) | 1,000,000 | 119,000,000 |
| SMALL APPLIANCES | | | |
|  | BLANKETS, ELECTRIC | 490,000 | 24,500,000 |
|  | BROILERS, ELECTRIC | 425,000 | 5,100,000 |
|  | CLOCKS, ALL TYPES | 10,000,000 | 70,000,000 |
|  | COFFEE-MAKERS, ELECTRIC (METAL GLASS) | 3,500,000 | 21,000,000 |
|  | FANS (ALL TYPES) | 4,500,000 | 67,500,000 |
|  | HEATERS, SPACE, ELECTRIC (WITH AND WITHOUT FANS) | 1,600,000 | 16,000,000 |

Statistics

Estimated by RADIO & TELEVISION RETAILING for 12 Months,
Ending December 31, 1948. Figures are Totals for Industry.

| SMALL APPLIANCES (Cont.) | | Total No. of Units | Total Retail Value '48 |
|--|--|-----------------------|---------------------------|
|  | HEATING PADS | 3,300,000 | \$16,500,000 |
|  | HOT PLATES | 2,000,000 | 6,000,000 |
|  | IRONS, HAND (AUTOMATIC, NON-AUTOMATIC, STEAM AND TRAVEL) | 6,000,000 | 72,000,000 |
|  | MIXERS, FOOD | 2,000,000 | 70,000,000 |
|  | ROASTERS | 500,000 | 20,000,000 |
|  | TOASTERS AUTOMATIC 4,100,000 \$77,900,000 NON-AUTOMATIC 1,400,000 5,600,000 TOTAL | 5,500,000 | 83,500,000 |
|  | WAFFLE IRONS, SANDWICH GRILLS (INCLUDING "COMBINATIONS") | 3,500,000 | 42,000,000 |

Roster of Appliance Makers

(Number in business as of Jan. 1, 1949)

| | | | | | |
|------------------------------------|----|------------------------|-----|------------------------|----|
| Refrigerators | 31 | Washing machines | 46 | Clocks, electric | 21 |
| Food Freezers | 47 | Disposal units | 17 | Broilers | 30 |
| Vacuum Cleaners | 50 | Dishwashers | 12 | Food mixers | 21 |
| (Including private brands) | | Irons, hand | 105 | Blankets | 9 |
| Ironing Machines | 25 | Fans, electric | 75 | Coffee makers | 34 |
| Ranges, Electric | 26 | Toasters | 41 | Space heaters | 64 |
| (Includes non-portable types only) | | | | | |

Refrigerator Sales by States

| STATES | UNITS | STATES | UNITS |
|----------------------|---------|---------------------|-----------|
| Alabama | 37,739 | Nebraska | 27,642 |
| Arizona | 15,396 | Nevada | 5,167 |
| Arkansas | 26,249 | New Hampshire | 11,489 |
| California | 202,087 | New Jersey | 98,410 |
| Colorado | 25,561 | New Mexico | 7,522 |
| Connecticut | 42,065 | New York | 281,317 |
| Delaware | 5,416 | North Carolina | 51,984 |
| District of Columbia | 33,323 | North Dakota | 10,560 |
| Florida | 54,324 | Ohio | 161,853 |
| Georgia | 55,338 | Oklahoma | 35,373 |
| Idaho | 10,846 | Oregon | 34,367 |
| Illinois | 170,108 | Pennsylvania | 196,802 |
| Indiana | 80,776 | Rhode Island | 24,203 |
| Iowa | 53,117 | South Carolina | 23,677 |
| Kansas | 28,437 | South Dakota | 12,316 |
| Kentucky | 36,436 | Tennessee | 59,380 |
| Louisiana | 38,063 | Texas | 138,883 |
| Maine | 17,287 | Utah | 13,647 |
| Maryland | 42,267 | Vermont | 6,325 |
| Massachusetts | 81,821 | Virginia | 43,835 |
| Michigan | 122,726 | Washington | 49,520 |
| Minnesota | 59,233 | West Virginia | 36,050 |
| Mississippi | 22,235 | Wisconsin | 60,645 |
| Missouri | 86,636 | Wyoming | 3,641 |
| Montana | 10,079 | | |
| | | TOTAL UNITED STATES | 2,752,173 |

Electric refrigerators only. Figures furnished by National Electrical Manufacturers Association are not factory sales but are those of distributors and dealers. Figures do not reflect the sales of all manufacturers, but are based on reports received from 20 companies.

New Electrical Appliances

Hotpoint DISHWASHER

Automatic electric dishwasher features simplified drain system located at the front to reduce installation costs; dial control which permits greater flexibility of operation; self-sealing aluminum door requiring no gaskets or door springs; one-piece wrap-around cab-



inet. Dishwashers available in the 27-inch MC4 under-the-counter model; MC5 free standing unit, equipped with counter-height top and backsplash; MC6 which is incorporated with 48-inch sink and Disposall is desired. All models have work surface area, top spray, front opening and electric drying. Hotpoint, Inc., 5600 W. Taylor St., Chicago 44, Ill.—RADIO & TELEVISION RETAILING

Bennett WASTE RECEPTACLES

Receptacles available in standard line of six sizes, and in olive and white finish. Receptacles have non-rusting stainless steel feet, inside springs and hinges protected against climatic conditions, all-welded construction, baked enamel finish; full size or galvanized liner fit inside for easy removing. The Bennett Mfg. Co., Alden, N. Y.—RADIO & TELEVISION RETAILING

GE PILOT LAMP

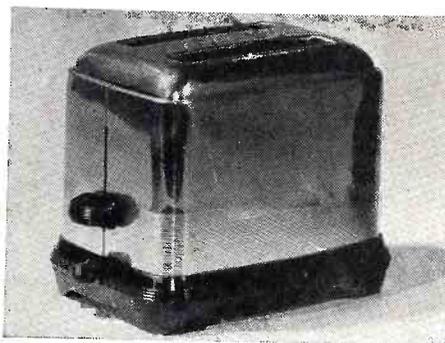
Model 10C7DC, 10-watt pilot lamp designed to withstand shock and vibration. Lamp has special filament and double contact bayonet base. List price is 16c. General Electric Co., Nela Park, Cleveland, O.—RADIO & TELEVISION RETAILING

Bay State TOY WASHER

Electric toy washer, carries approval of Underwriters Laboratories. De luxe model is 10 inches high, has a 7¼ inch tub and retails for \$7.95. Bay State Products Corp., 79 Hano St., Allston, Mass.—RADIO & TELEVISION RETAILING

Proctor TOASTER

Model 1468, automatic toaster with Color Guard, replaces model No. 1467. New model features simple design; base and handles of



brown bakelite; body of shiny chromium with ridged design. Consumer instructions clearly defined, with marking reading "Use this side for one slice." Retail price is \$18.95. Proctor Electric Co., Inc., Philadelphia, Pa.—RADIO & TELEVISION RETAILING

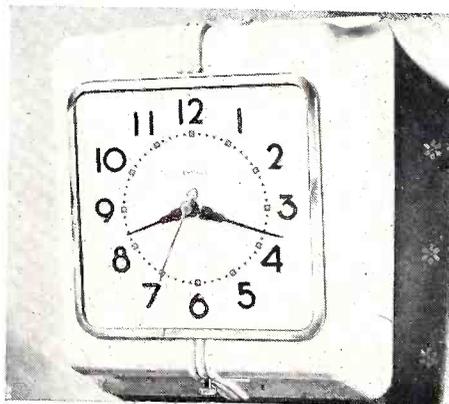
Philco REFRIGERATORS

Model 893 moist-cold refrigerator features "summer-winter" control, featuring balanced humidity. Model has full-width freezer locker, crisper drawers, easy-out ice trays, unrefrigerated vegetable bin, trigger door latch, super power system. Storage capacity is 8.1 cu. ft., 16.2 sq. ft. of shelf space. Retail price is \$329.50.

Model 892 features modern styled cabinet with self-closing door latch, finger-tip plastic and chrome handle. Zero-zone freezer locker, crisper drawers, covered meat storage drawer, automatic interior light. Storage capacity is 8.1 cu. ft., with a shelf area of 16 sq. ft. Priced at \$299.50. Philco Corp., Philadelphia—RADIO & TELEVISION RETAILING

Sentinel ELECTRIC CLOCKS

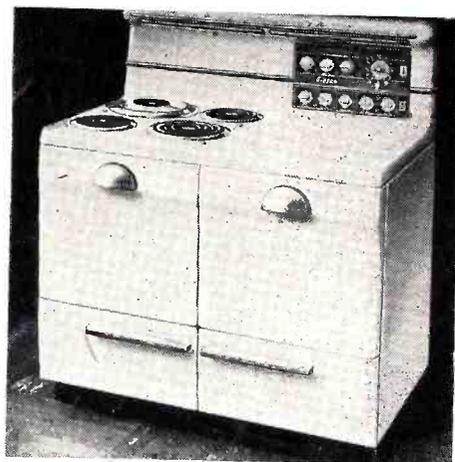
"Kitchenette" model, self-starting kitchen clock. Case is gleaming white or red "Lustron"



plastic, forward tilted for easy reading. Clock is 7½ inches high, retails for \$4.95. "Signal" alarm model in plastic case retails at \$4.50. E. Ingraham Co., Bristol, Conn.—RADIO & TELEVISION RETAILING

Gibson ELECTRIC RANGE

Model "H" electric range is equipped with Ups-A-Daisy two-in-one, 7-speed heating unit; three standard 7-speed surface units, 6-quart



Kookall with flavor-seal lid; convenience outlet; full width lamp; automatic timer for two ovens, surface units, or for convenience outlet. One oven is 16 x 16 x 20 inches, has two shelves, top and bottom heating units. Convenience 9 x 16 x 20 inch oven has sliding shelf. Broiler is waist-high. Two storage drawers. Gibson Refrigerator Co., Greenville, Mich.—RADIO & TELEVISION RETAILING

Ripley BURGLAR ALARM

Burglar alarm utilizes modulated light beam, invisible to the naked eye. Alarm is caused to operate by a change in light level of pre-



set modulated frequency. Light beam is effective over more than 250 feet. Easy to install, no electrical adjustments required for installation. Ripley Co., Inc., Middletown, Conn.—RADIO & TELEVISION RETAILING

More New Products

Elsewhere

In this Issue

VEE-D-X

ANTENNAS • MASTS
TOWERS • CHIMNEY &
VENT-PIPE MOUNTS •
GUY CABLE • LIGHT-
NING ARRESTORS •
TRANSMISSION LINE

Brings you

a SINGLE SOURCE

for everything you need

in good TV & FM

INSTALLATIONS

Engineered to meet the needs of all types of installations.

The VEE-D-X Sectional Tower, in standard 10' and 20' sections, is the newest addition to an extensive line of antenna products offered by LaPointe-Plascomold. Its use, in many cases, has made possible the obtaining of satisfactory TV reception otherwise unavailable. Also ideal for amateur, police and utility needs.

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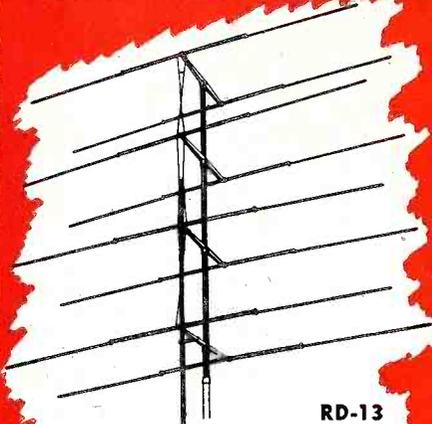
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**QUICK AND EASY
INSTALLATIONS**



**RD-13
LONG-RANGE ANTENNA**

For the so-called "fringe" areas and beyond. Brings TV to those who have despaired of getting good reception. Has high directivity and forward gain. Adjustable for most critical conditions.

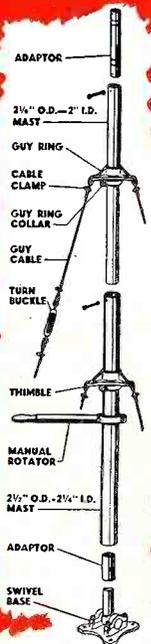
VEE-D-X SECTIONAL TOWER

Made in 10' and 20' sections for mounting antennas from 10' to 140' high. Sections are shipped assembled and painted. Sturdy, all-welded construction. For fast, low-cost erection on the ground or on flat roof. Antenna can be rotated from base. Sections can be added without lowering tower.



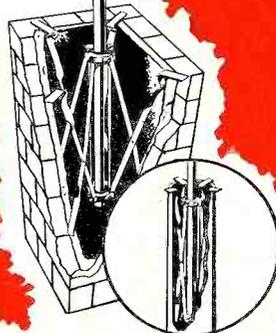
SKY MONITOR

Broad-band antenna with tunable ϕ section. Also a stunning performer on Channels 7 thru 13. Illustrated in connection with VEE-D-X Chimney and Vent Pipe mounting that takes only 60 seconds to install.



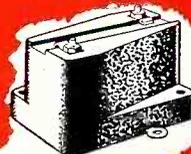
MAST ASSEMBLY

Masts are extremely light (a 20' section weighs only 11 lbs.) without sacrifice of strength. Permits rotation even after guy wires have been permanently installed. Features speed in erection.



CHIMNEY MOUNT

Fits any opening—round, square or rectangular from 4" to 22" for 1", 1 1/8" and 1 1/4" masts.



VEE-D-X LIGHTNING ARRESTOR

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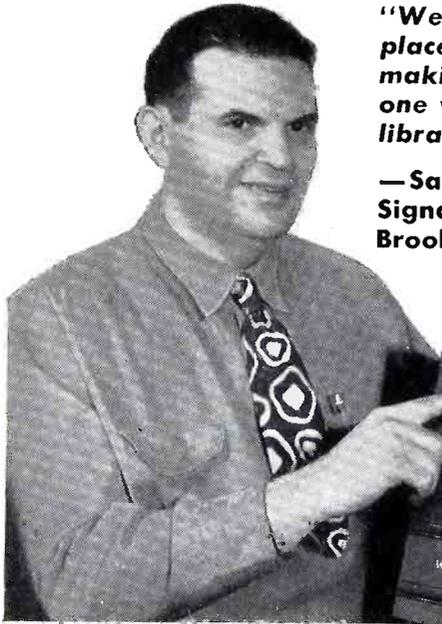
Name.....

Address.....

City..... Zone.....

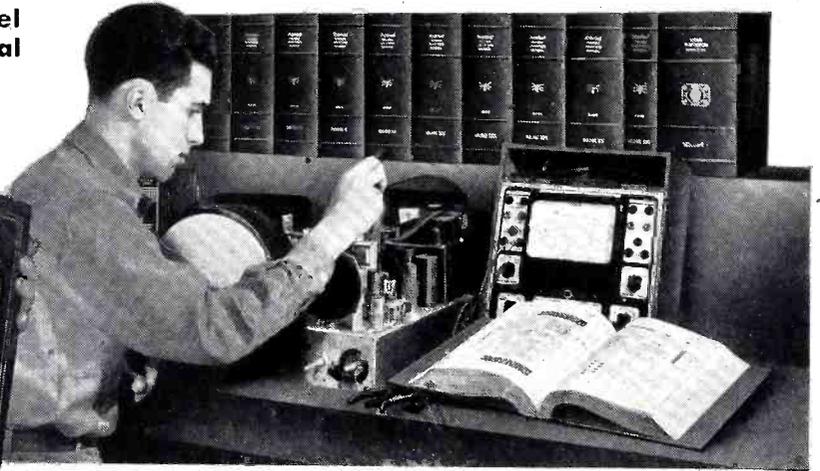
State.....

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"We don't propose to let even one customer walk out of our place. If it's a TV, AM or FM set that needs servicing, we're making sure that we can handle the job satisfactorily. And one way of making sure is by constantly using our reference library of Rider Manuals."

**—Says Mr. I. Zwickel
Signal Radio Hospital
Brooklyn, New York**



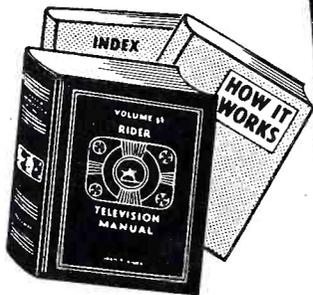
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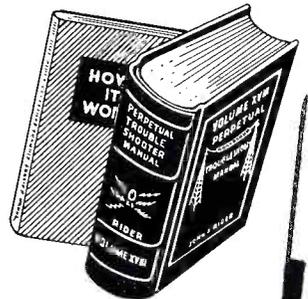
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RIDER MANUALS mean SUCCESSFUL SERVICING

NOTE: The Mallory Radio Service Encyclopedia, 6th edition, makes reference to only one source of radio receiver schematics—Rider Manuals.
ANOTHER NOTE: The C-D Capacitor Manual for Radio Servicing, 1948 edition No. 4, makes reference to only one source of receiver schematics—Rider Manuals.

SERVICE & SOUND

Section of **RADIO & TELEVISION RETAILING**

The Reactance Tube in Noise Suppressors

RCA 8V151, 8V112, Philco 49-1613, Scott 110A

The use of a tube so that it functions as an effective capacitive or inductive reactance (that is, the plate current lead or lags the plate voltage) is becoming increasingly common in today's circuits, although its introduction dates back to before the war. We find it in the sweep generator, where (modulated by a sine wave voltage) it acts as the variable element in the tank circuit of an FM oscillator; we find it in TV horizontal AFC, where the DC output of a discriminator proportional to the phase difference between the local oscillator and the incoming sync signal is used to change the reactance (tube) in the horizontal oscillator tank; and we find it in the noise suppressor for phonograph reproduction, where a DC voltage proportional to the amplitude of a certain band of (audio) frequencies is used as a bias on the reactance tube to control the extent to which that reactance shunts the frequencies to ground.

The axioms which are utilized in audio work are: 1) Inductive reactance increases with frequency. Therefore an inductance in series with the current supply to the load will offer a relatively high impedance to high frequencies. Conversely, decreasing the value of the inductance will permit it to pass higher frequencies. 2) Capacitive reactance decreases with frequency. Therefore a capacitor in series with the current supply to the load will offer a relatively high impedance to low frequencies. Conversely, increasing the value of the capacitor permits it to pass lower frequencies.

Noise in phonograph reproduction (sometimes called surface noise, needle scratch, record hiss, etc.) is generally given to be in the medium-high and high frequency range. The familiar tone control uses a capacitor shunt to bypass the high frequencies to ground, noise and signal as well, all the time it is in use, therefore sacrificing fidelity to eliminate the noise.

The noise suppressor theory is a new compromise between noise and fidelity which aims at permitting higher fidelity while at the same time limiting noise. The theory is: 1) Noise is of a relatively constant level; 2) Noise is masked by the signal when the high frequency component of the signal is at a high level; 3) It would be desirable to eliminate the noise frequency range only when the high frequency component of the signal is at a low level.

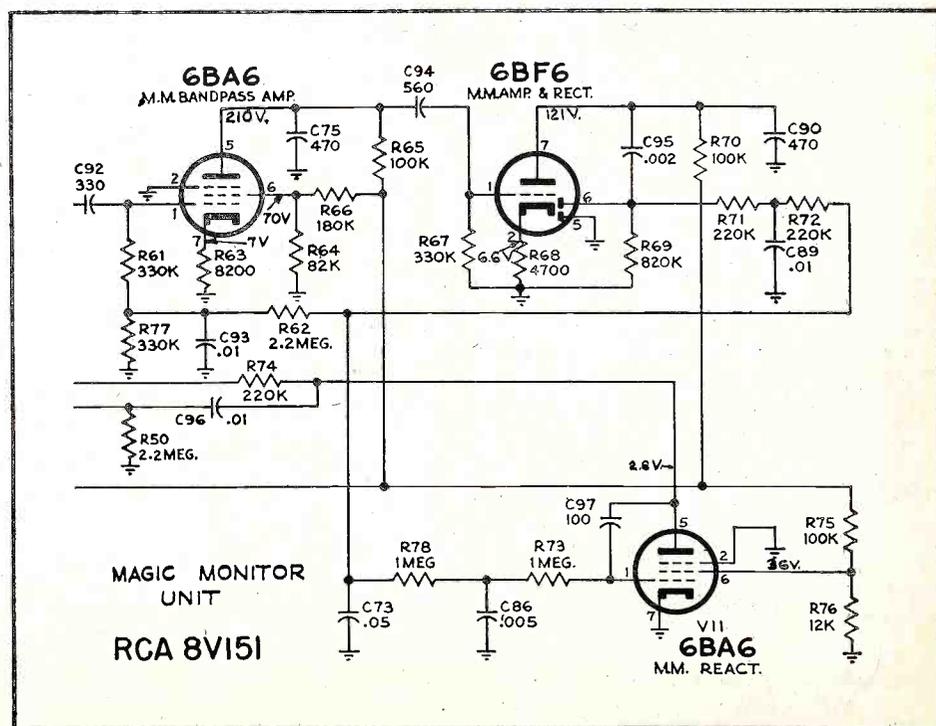
Automatic Gating

By rectifying the signal, passing it through a filter to extract only that band of frequencies with which we wish to concern ourselves, and using the resulting voltage (which varies as the strength of that component of the

signal varies) as a bias on a reactance tube, we have in effect a gate which opens when the control voltage is high, closes as the control voltage drops.

This theory, developed by H. H. Scott, is subject to many refinements. We can adjust the point of cutoff, change the speed of the gating action, add additional stages to make the cutoffs steeper, and add a bass cutoff stage so that tonal balance between high cutoff and low cutoff is constantly adjusted as the gate operates. This latter point is based on the theory that music reproduction is most pleasing when the product of the bass cutoff frequency and the treble cutoff frequency approach a constant, sometimes said to be about 500,000-600,000 (40x15,000, 75x8000; 200x3000, etc.). These additional

(Continued on page 73)



TV Test

Evaluating the Necessity

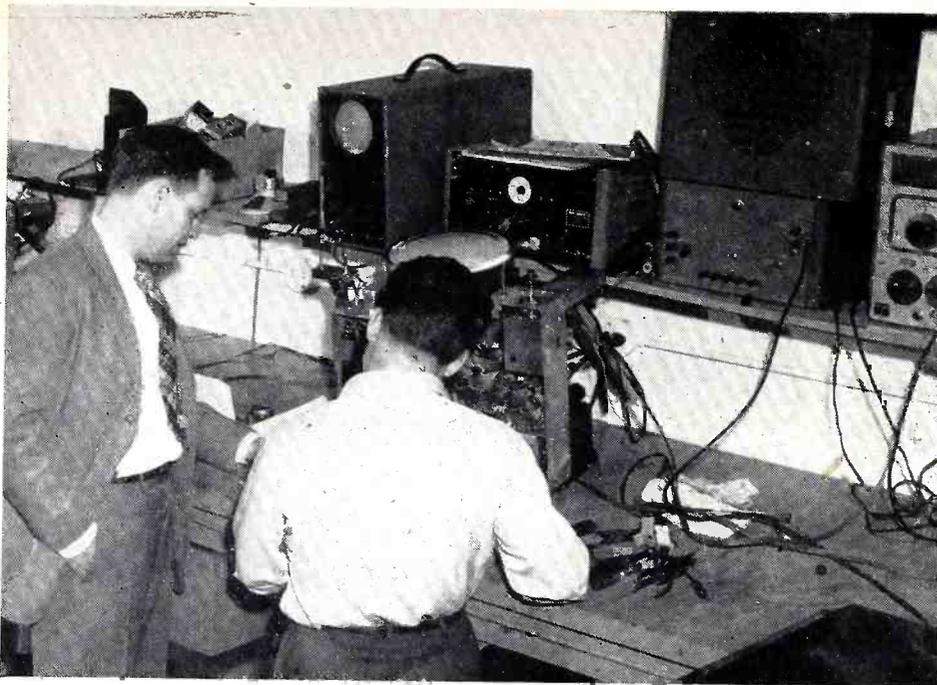
though not essential, decidedly advantageous . . . such as checking the action of a horizontal oscillator, the synch integrator network, etc.

A complete IF alignment is not as frequent an occurrence, of course, as are high-voltage or bandswitch failures. But the fact remains that if the servicer is to be equipped for any trouble that may arise, he must be able to handle alignment. If he decides he will leave alignment to somebody else (for instance a distributor) he may spend hours just trying to determine that alignment is what is needed . . . for example, in a case of poor resolution due to inadequate high frequency response.

Analyze Available Tools

Having decided that our hypothetical servicer is going to handle visual alignment, we can get down to his requirements. First of all, what does he have on hand? A backward glance at the Rider Survey of test equipment published in Radio & Television Retailing shows that at that time most servicers had some sort of voltmeter and a signal generator, but only about 60% had a VTVM, and very small percentages had a sweep generator and a scope. (see chart). The chances are, too, that if he did have any of the so-called "super-duper" items, they were for audio work and did not cover the video ranges. Before going into the video requirements, a word about the VTVM is in order.

Most service notes on TV and FM sets state that if a VTVM is not available, a 20,000 ohms/volt meter can be used. It is presumed that the limitations of non-electronic meters will be taken into consideration if used. Figure 2 shows an actual circuit from an RCA-TV receiver in which we desire to read the bias on the 6AU6, which should be 2.35 volts. In the equivalent circuit shown along side of it we see that due to the shunting effect of the meter, a 1000 ohms/volt meter would be only 2% accurate (reading .05 volts) and a 20K ohms/volt meter would be 24% accurate (reading .7 volts). Whether either of these meters would even give an indication would depend on the inherent accuracy of the instruments and scales. The advantages of the high input impedance of VTVM's where measurements are being made in rf circuits, or actually reading rf voltages, should also be considered.



Bench-testing a 10" TV set. Technician is checking information in service notes which are not visible in the picture. Shown are scope, marker generator, audio oscillator-amplifier and speaker, and signal generator. —courtesy RCA

THE general requirements for test equipment in TV servicing have been outlined to technicians for some time, but in a majority of cases these requirements have not been given specific application by the servicer for several reasons: Television stations were not yet on the air in his locality; such TV servicing as was done had been handled by manufacturers or their representatives; he had not yet decided to go into TV servicing; or, test equipment was not yet available.

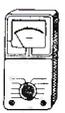
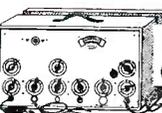
1949, however, will see great changes in this picture, and a large majority of those now servicing radios will find TV

on their doorsteps. The dealer who decides the time is ripe will have to evaluate his existing test equipment, start shopping for replacements and additions to it.

The kernel of the matter is the oscilloscope and the equipment used with it for visual servicing. The servicer first

ran across the need for this technique in high fidelity audio equipment, on which it was found that a broad, flat-topped response could not accurately be obtained "by ear." Comparing the maximum 15kc audio response with almost 6 mc RF bandwidth of TV receivers, we find the problem multiplied 400 times! Furthermore, in order to obtain sufficient IF bandpass in three and four stage strips while avoiding oscillation and too-critical tuning, most of the sets employ stagger tuning. While it is possible to peak each stage with a signal generator and a VTVM or output meter, the only way one can check the overall response and "touch up" the IF's is by the visual method.

Thus we find the visual technique virtually mandatory in RF and IF alignment. In many other instances it is,

| Type of Test Instrument | Percent of Servicers Owning |
|---|-----------------------------|
|  VOLTMETER | 93.6% |
|  VTVM | 63.7% |
|  RF-IF OSCILLATOR | 83% |
|  FM OSCILLATOR | 28% |
|  OSCILLOSCOPE | 32.9% |

Statistics copyright 1947 by John F. Rider, Publisher, Inc., 404 Fourth Avenue, New York City.

Instruments

for and Specification of Additional Bench Equipment

Visual alignment of the TV set, of course, requires a 'scope. In addition, it requires an FM or "sweep" oscillator capable of sweeping the spectrum we wish to examine (therefore the sweep width must be variable) about a center frequency appropriate to the circuit in question (this, therefore, must also be variable), with provisions for AF modulation, calibrated attenuation and calibrated sweep width, and also provision for the insertion of accurately calibrated marker "pips" or absorption "dips" on the observed wave form. Such functions might be performed by three items of equipment: a sweep oscillator, an AM (RF) signal generator, and a calibrated marker generator or heterodyne frequency meter. On the other hand, manufacturers of test equipment are continually simplifying the servicer's problem by combining these functions in one piece of equipment. The important point is to make sure that the piece or pieces of equipment satisfy the requirements.

Need Capable Instruments

Figure 3 shows a typical overall IF response, and will serve to demonstrate our needs. The sweep width is 10 mc, and the center frequency is 24 mc. Marker pips have been inserted to accurately determine that the flat top occurs with a sharp cutoff to the point where it approaches the associated sound, and that the picture carrier occurs at the 60% point on the upper slope, with the adjacent sound and picture properly attenuated by traps. If the picture carrier operates too low on the response curve, loss of low frequency video response, of picture brilliance, of blanking, and of synch may occur. If the picture carrier operates too high on the response curve, the picture definition is impaired by loss of high frequency video response.

If figure 3 were RF response, the center frequency of the sweep might be any of the TV channel carrier frequencies, while the markers inserted would be the sound and picture carriers for that channel.

Thus we see that our generators, for both FM and TV alignment, should cover all IF (10-30 mc) and RF (54-216 mc) frequencies, variable deviation (1 mc for FM, 10 mc or more for TV), preferably separate outputs for AF, RF and FM, provisions for external synch to the 'scope, calibrated attenuation and sweep width, and sufficient output to

obtain proper indications on the 'scope.

The scope would preferably have a wide band vertical amplifier (up to 5 mc or more) in order to reproduce the sweep width we are injecting into it, variable time base sweep frequencies up to at least 200kc (in order that we may observe a wave form of very short duration), vertical input sensitivity down to about 30 millivolts (in order that tiny signal voltages can deflect the electron beam on the screen), and preferably a large enough screen (at least 5 inch) so that the position of markers on a response curve can accurately be determined by eye.

Careful scrutiny of the specifications of much of the equipment on hand or available for sale will find this equipment wanting in capabilities for doing a complete job. Some equipment described as "for FM, TV" will serve some purposes in these categories, but cannot be used for IF alignment of TV.

No outline of the equipment needed for TV servicing would be complete without mentioning the necessity for a spare TV receiver on the bench for comparison purposes, and to check transmission over a particular channel when a customer complaint comes in

(Continued on page 75)

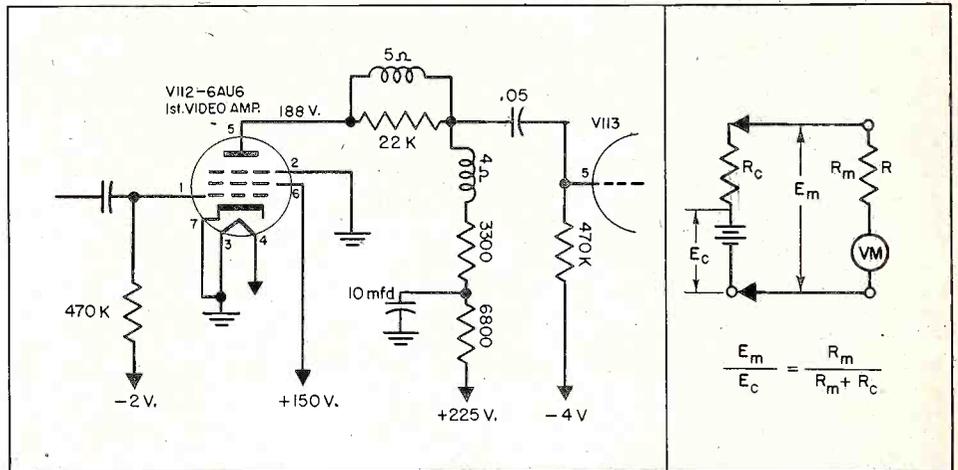
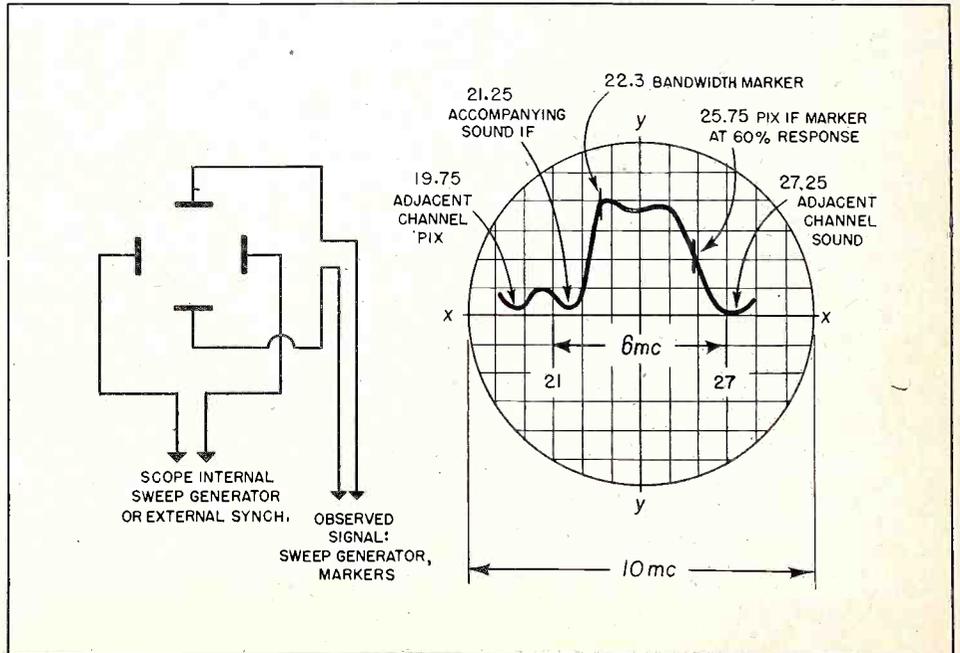


Fig 2. (Above) E_c is 2 volts, R_m is the meter multiplier on the scale used, at 1000 or 20,000 ohms per volt, R_c is 470,000 ohms. E_m is what the meter would read.

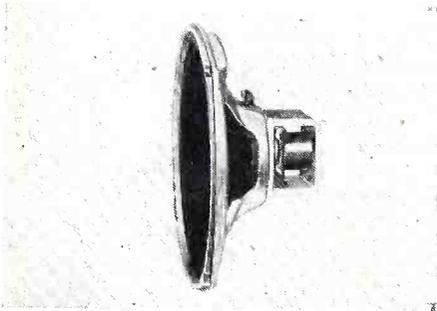
Fig. 3 (Below) Typical IF response on scope, with signal fed into vertical plates, sync on horizontal plates.



New Equipment for TV, FM, PA

RCA LOUDSPEAKERS

The new 8" PM speakers RCA-308S2 and 408S2 have $\frac{3}{4}$ " voice coils and a power handling



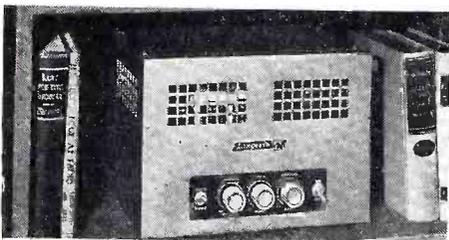
capability of 6 watts. They are designed for use in television receivers, large table radios and small consoles. Tube Dept., RCA, Harrison, N. J.—RADIO & TELEVISION RETAILING

Cinaudograph SPEAKERS

The complete line of PA, replacement field and PM, extended range, and coaxial loudspeakers, as well as output transformers is illustrated with pertinent data in a new catalog available from Cinaudograph Speakers Div., Aireon Mfg. Corp., 1401 Fairfax Trafficway, Kansas City 15, Kansas.—RADIO & TELEVISION RETAILING

Langevin AMPLIFIER

Equipped to operate a radio tuner and a phonograph pickup, either crystal or variable reluctance type, the Type 127-A amplifier is



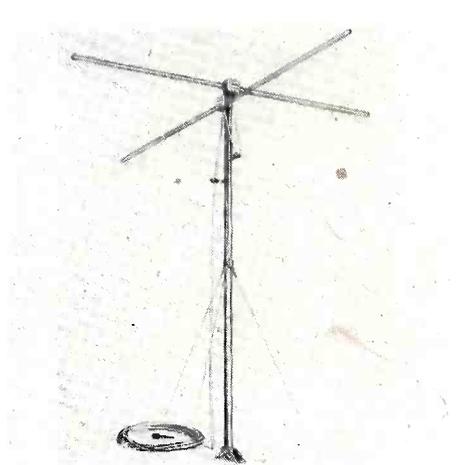
rated by the maker at 4 watts with less than 5% harmonic distortion over the range from 50-15,000 cps. Independent bass, treble and volume controls are provided. Langevin Mfg. Corp., 37 W. 65th St., New York 23, N. Y.—RADIO & TELEVISION RETAILING

Altec Lansing TUNER AND AMPLIFIER

The ALC-101 AM-FM tuner features TRF for AM and a ratio detector for FM, with separate tuning eyes for each section. Provision is also made for TV sound and phono inputs, incorporating a pre-amplifier, built-in equalizer, and a four-step scratch filter control. The A-323C amplifier is rated at 18 watts with less than 2% harmonic distortion over 20-20,000 cps. The two units are on separate chassis' with an interconnecting cable provided. Altec Lansing Corp., 161 Sixth Ave., New York 13, N. Y.—RADIO & TELEVISION RETAILING

Belden FM ANTENNA

Model 8322 is a double folded dipole antenna which provides reception from all directions over the entire FM band. Price complete with



adjustable mounting base, 65 feet of transmission line and four standoffs is \$18.75. Belden Mfg. Co., P. O. Box 5070A, Chicago 80, Illinois.—RADIO & TELEVISION RETAILING

Anchor TV BOOSTER

This preamplifier utilizes a 6AK5 with continuous tuning over all 12 channels to provide added selectivity, improved impedance match, and a signal voltage boost averaging $2\frac{1}{2}$ times over all channels, the maker states. The unit features a self-contained power supply, bandwidth of 4 mc, and separate pilot lights for the low and high bands. Anchor Radio Corp., 15 S. St. Louis Ave., Chicago 23, Illinois.—RADIO & TELEVISION RETAILING

Masonry BOLT DRIVER

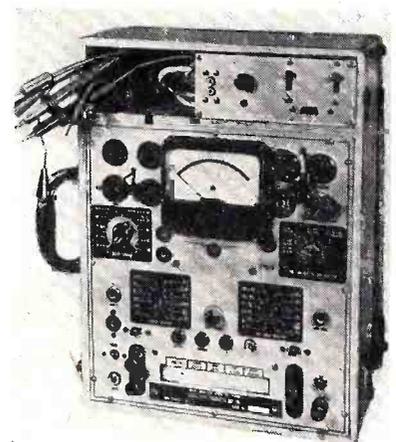
A powder-actuated gun actually shoots plain or threaded studs into concrete floors and walls, steel I-beams and columns in a matter of seconds. The gun can be used to simplify the fastening of fixtures, conduit boxes and the like to metal or concrete by electricians, and can also be used by TV installers for mounting antennas, guys, etc. The tool weighs only five pounds and can be operated with one hand. Mine Safety Appliances Co., Pittsburgh, Penna.—RADIO & TELEVISION RETAILING

Televue ANTENNA ROTATOR

The Televue Rotor is a motor driven TV antenna rotator which is controlled remotely from the location of the TV set, and permits instant and continuous repositioning of the antenna for best reception. Antenna crossarm is attached to movable part of rotor, while stationary part is attached to the mast. List price is \$32.50. Televue Corp. of America, Lakewood, N. J.—RADIO & TELEVISION RETAILING

RCP TUBE AND SET TESTER

Six instruments are combined in one in the Model 8573: tube tester with rollindex chart, multimeter, condenser tester, AM signal generator, FM signal generator and audio oscil-



lator. Sockets are included for all the latest type tubes, including noval base, acorns and subminiatures, while battery testing is also provided for. List price is \$99.95. Radio City Products Co., Inc., 152 West 25th St., N. Y. 1, N. Y.—RADIO & TELEVISION RETAILING

Vision TV TUNER

Model TF 701 is a television front end which tunes continuously over all 12 channels. Containing RF amplifier, oscillator and mixer cir-



cuits, the tuner comes complete with lighted lucite dial and planetary reduction drive, and is available to both manufacturers and dealers. Vision Research Labs, Inc., 87-50 Lefferts Blvd., Richmond Hill 18, N. Y.—RADIO & TELEVISION RETAILING

Telechron CLOCK SWITCH

A new automatic time switch that turns the radio off at the end of a predetermined playing period, and automatically turns it on again at any selected time, has been announced for incorporation into radio receivers. In appearance, the switch resembles an electric clock, with two pre-set controls provided. Telechron, Inc., Ashland, Mass.—RADIO & TELEVISION RETAILING



the battery that's made for the **Radio Trade...**

● The *selective distribution* of RCA Batteries primarily through radio dealers and servicemen adds up to more repeat business for you.

Remember, too, that RCA Batteries are *radio engineered* for *extra listening hours* . . . that this completely rounded line *covers virtually all renewal requirements*.

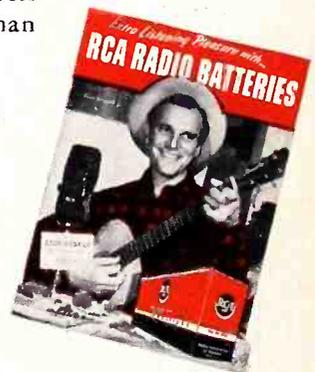
Because they're backed by "the greatest name in radio," RCA Batteries are your assurance of *immediate customer acceptance*.

Eight warehouses assure you quick delivery on fresh stocks of RCA Batteries through your local RCA Distributor.

You can sell more RCA Batteries

RCA provides you with the greatest array of selling aids in battery history . . . *all geared to the radio trade!* They'll help you sell more RCA Batteries than ever before!

**ALWAYS
KEEP IN TOUCH
WITH YOUR
RCA DISTRIBUTOR**



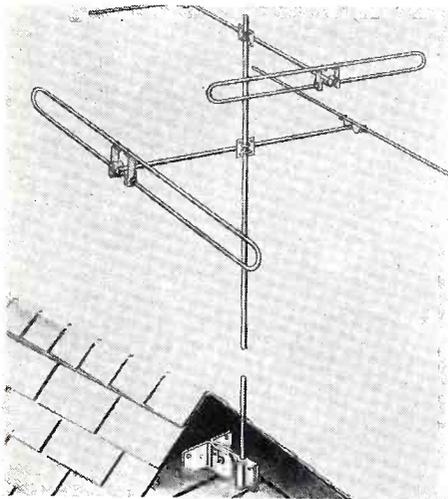
RADIO CORPORATION of AMERICA

HARRISON, N. J.

New Helps for TV Servicicers

Brach TV ANTENNA KITS

Flexi-kit bulk-packaged antenna equipment provide a variety of matched components so that antenna installation may be adapted to the local situation without the necessity of stocking many different individual antennas.



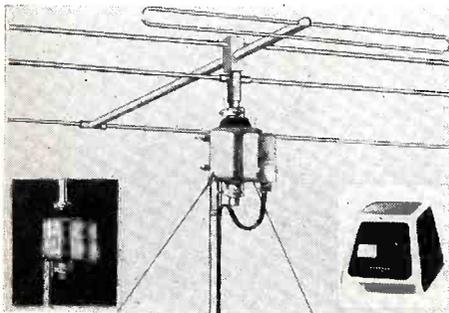
Complete individual antenna kits are also available, such as the Hi-Lo Rotatable TV antenna illustrated, which provides for reception on all channels. Complete catalog may be had by writing L. S. Brach Mfg. Corp., 200 Central Ave., Newark 4, N. J.—RADIO & TELEVISION RETAILING

Trio ANTENNAS

A complete line of antennas for FM and TV, including single folded dipoles, all-channel arrays, stacked arrays, and attic antennas is described in the new catalog available from Trio Mfg. Co., Griggsville, Ill.—RADIO & TELEVISION RETAILING

Alliance TV ANTENNA ROTOR

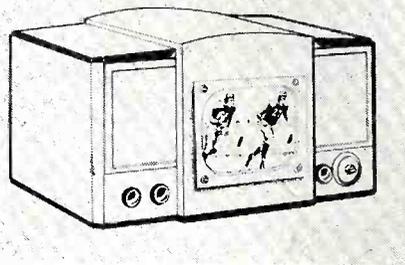
Tenna-Rotor permits 360 degree rotation of TV, FM or other high frequency directional antennas by means of an electric motor. Ro-



tation is controlled at the receiver by a remote control box. List price is \$39.95 for both rotator and control box. Alliance Mfg. Co., Alliance, Ohio.—RADIO & TELEVISION RETAILING

Industrial TV FILTERS

"Gla-Reducer" attaches to the front of TV sets with suction cups, and is said to improve



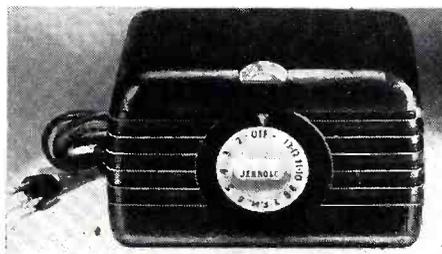
image, reduce glare and increase brilliance. For illustrated brochure write Industrial Products Suppliers, 434 Broadway, New York 13, N. Y.—RADIO & TELEVISION RETAILING

Carter DC-AC CONVERTERS

Specially designed for operation of TV sets from 110-135 volt DC lines, model D1010CT delivers 125 watts of steady voltage and frequency despite DC line voltage fluctuations. "Picture Control" is said to eliminate frequency waves and picture flutter. Carter Motor Co., 2644 N. Maplewood Ave., Chicago 47, Illinois.—RADIO & TELEVISION RETAILING

Jerrold TV-FM BOOSTER

Claimed to amplify signals 20-30 times over the entire FM and TV bands, the new Jerrold booster utilizes a selector switch plus a fine tuning control, and has self-contained power



supply. List price is \$37.50, and a special extra attachment is available which will enable a dealer to use for multi-set demonstration. Jerrold Electronics Corp., 121 N. Broad St., Philadelphia 7, Penna.—RADIO & TELEVISION RETAILING

UST SWEEP GENERATOR

Sweep generator for TV and FM has sweep width variable from 5 kc to 10 mc over a range from 500 kc to 110 mc. Fixed markers are provided, and continuously variable output is available. New price on this generator is \$195. United States Television Mfg. Corp., 3 W. 61 St., N. Y. C.—RADIO & TELEVISION RETAILING

Telrex ANTENNAS

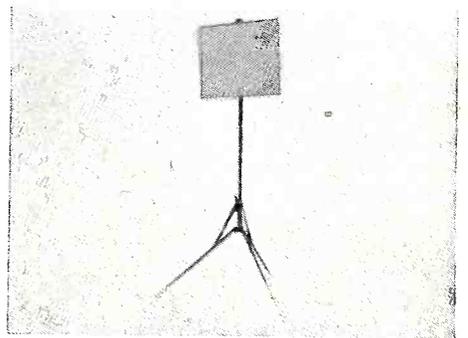
The conical V-beam antennas present the appearance of an "X" laying on its side, with the broad band and high gain characteristics of a conical antenna, the maker states. The 150 ohm nominal center impedance is said to be non-varying, making the antenna effective at all frequencies and with any transmission line (75, 90, 150 or 300 ohm). The model 4X-TV is a stacked version of the 2X-TV. Telrex, Inc., 26 Neptune Highway, Asbury Park, N. J.—RADIO & TELEVISION RETAILING

Andrew TV ANTENNA

The Di-Fan antenna is constructed of fanned elements for which maker claims a broad band response with a constant 300 ohm impedance over all channels. Ease of installation is featured, and antenna kit includes 5-foot mast and 60-feet of 300-ohm transmission line. Andrew Corp., 421 Seventh Ave., New York 1, N. Y.—RADIO & TELEVISION RETAILING

Windsor TV MIRROR

Miro-pix is a light-weight, 12 x 10" mirror complete with stand suitable for TV servicicers who wish to observe picture on front of set



while adjusting rear apron controls from behind the set. Telescoping stand makes it adaptable to different types of TV receivers. List price is \$5.95. Windsor Electronics, 4919 W. Irving Park Rd., Chicago 41, Ill.—RADIO & TELEVISION RETAILING

Oak Ridge TV ANTENNA

The new Rig-Fast Injector line of antennas features a construction which permits speedy assembly without tools. Antenna elements fit into a tube on the mast and are fastened into place by turning a wing-nut. No loose hardware is necessary. The new feature is available in a variety of antennas for different requirements. Oak Ridge Antennas, 239 E. 127th St., New York 35, N. Y.—RADIO & TELEVISION RETAILING

Bud ANTENNA BRACKETS

Four styles of antenna mounting brackets have been announced which permit mounting of antenna masts to any type of wall, roof, or chimney. The brackets are of the vise-type, and are adjustable for masts from 1" to 1-5/16" in diameter. Address inquiries for circular to Bud Radio, Inc., 2118 E. 55th St., Cleveland, Ohio.—RADIO & TELEVISION RETAILING

Hytron Prize Winner



Casimir F. Woods, left, of Newark, N. J., receives first prize in the September Hytron Servicemen's Contest. He was awarded a Jackson model 641 Universal signal generator. Shown with the winner are Stanley Dudek, radio parts division manager of the Variety Electric Co., Hytron distributor, and Herbert H. Friedman, Hytron representative who made the presentation.

Sprague Expansion

Robert C. Sprague, president, Sprague Electric Co., North Adams, Mass., has announced the acquisition of the Herlec Corp., Milwaukee, Wis., manufacturers of ceramic capacitors and "Bulplate" printed circuits. A Sprague plant for manufacturing ceramic assemblies is already established as Nashua, N. H., and operations have been expanded at the Milwaukee plant.

IRC Issues Booklet

International Resistance Co., Philadelphia 8, Pa., has issued a booklet for radio technicians entitled "Keep Your Iron in the Fire." It covers eight ways more time can be devoted to actual soldering, based on the concept that the more irons the serviceman keeps in operation the more sets he repairs with a consequent increase in sales volume.

ITI Shows New TV Line

Industrial Television, Inc., Clifton, N. J., has introduced its "Century" line of "Teleceivers," in leading cities across the country. Edwin B. Hinck, sales director said dealers and servicemen in Philadelphia, Boston, Cleveland and St. Louis have been shown the four new models. Arrangements were made by Mr. Hinck and Robert J. Harrington, ad director.

Robert W. Galvin



Paul V. Galvin, president of Motorola, Inc., announced the appointment of his son, Robert W. Galvin, above, to the post of executive vice-president of the firm.

Flexibility makes

"the Service Man's Line"

Brach antennas . . . long known for dependability . . . maximum reception . . . trouble-free operation . . . durability and ease of installation . . . now feature an added extra . . . Flexibility. Unique construction features aid the service man in making a more rapid installation to which future additions or modifications can be easily made.

1. FLEXIBILITY A complete line designed with basic antenna parts which are convertible to more complex arrays as required by location and reception problems.

2. COMPLETE KITS Each antenna model is independently designed and furnished in a completely packaged kit containing all necessary hardware, download (when desired) and the Universal Base Mount . . . ready for installation.

3. PRE-ASSEMBLY Each antenna is factory pre-assembled as far as possible, ready to erect. Complete and simple installation instructions. Saves valuable man-hours on the roof.

4. MECHANICAL STRENGTH Weather - tested for durability, Brach Antennas feature a husky steel mast, rigid connections, sturdy base mount, neat appearance. All parts corrosion resistant.

5. SUPERIOR RECEPTION Designed with engineering "know-how". All Brach antennas are factory pre-tuned, matched for 300 ohm transmission line with large diameter aluminum elements for better signal pick-up. Directivity patterns and standing wave ratios available upon request.

New! Tops in TV! HI-LO ROTATABLE Antenna

Here it is! A rotatable antenna to provide peak performance with any station at any time. Brach introduces the new "Superview" Rotatable, covering both high (174 MC to 216 MC) and low (88 MC to 108 MC) TV bands. High band extension available for easy addition to standard dipole array for separate orientation. No more multiple images. No more "weak" stations. Brach's Superview HI-LO assures television reception that's tops. Make sure and investigate the new Superview line today.

Write for Free Brach catalog showing complete line of TV and FM antennas and accessories.

Send for Catalog No. RR304

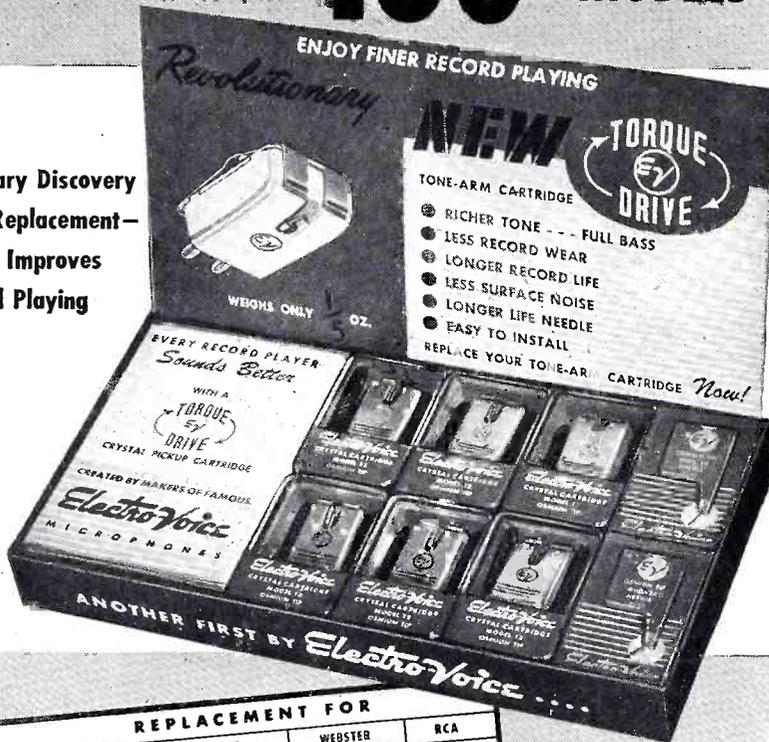
L. S. BRACH MFG. CORP.

200 CENTRAL AVENUE, NEWARK, N. J.

WORLD'S OLDEST AND LARGEST MANUFACTURERS OF RADIO ANTENNAS AND ACCESSORIES

3 BASIC TYPES REPLACE OVER 150 STANDARD MODELS

Revolutionary Discovery
Simplifies Replacement—
Greatly Improves
Record Playing



| REPLACEMENT FOR | | | | | | |
|-----------------------------------|---------|--------|-------|--------|----------|--------|
| ELECTRO-VOICE | ASTATIC | | SHURE | | WEBSTER | RCA |
| MODEL M12 Medium Voltage (Red) | L-22A | L-76S | P30 | P93C | E4 N4 | 31050* |
| | L-25A | L-76AS | P30B | P93D | E4-1 N6 | 31156* |
| | L-26A | LT-M | P30C | P93E | E-9 N6P | 32632* |
| | L-27A | LT-MA | P30D | P93S | F1 N6P-4 | 33122* |
| | L-32A | LT1-M | P30E | P94 | F1P N8 | 33217* |
| | L-70 | LT1-MA | P30S | P94B | F2 N8P | 33905* |
| | L-70A | LT2-M | P87 | P94E | F2P N9 | 34225* |
| | L-70S | LT2-MA | P87B | W42A | F3P N11 | 34307* |
| | L-70AS | LT3-M | P87S | W57A | F4P N11P | 34710* |
| | L-71 | 1-J | P90B | W57AN | F5 | 35171* |
| | L-71A | 1-M | P90C | W58A | F5P | 37158* |
| | L-71S | 401-A | P90D | W60A | F6 | 39686* |
| | L-71AS | | P90S | W60B | F6P | |
| | L-76 | | P93 | W60HS | N2 | |
| L-76A | | P93B | W61B | N3 | | |
| MODEL H12 High Voltage (Blue) | L-24A | L-72S | P88 | W56A | C-2† | CR1A |
| | L-36A | L-72AS | P88S | W59A | C-3† | CR2A |
| | L-46A | L-82 | P89 | 99-180 | C-6† | S2 |
| | L-50A | L-82A | P89S | 99-181 | N-10 | |
| | L-72 | L-82V | | W40A | N-10P | |
| | L-72A | M-23 | | W41A | N-10P-1 | |
| MODEL L12 Low Voltage (Yellow) | L-40A | LP-6 | QC | QT-3JA | C5† | 71173 |
| | L-41A | LP-21 | QT-J | QT-3M | F3 | 70339 |
| | L-75 | LP-23 | QT-M | QT-3MA | F7P | 70338 |
| | L-75A | MLP-1 | QT-2J | | N3 | |
| | L-75S | MLP-1J | QT-2M | | N5 | |
| | L-75AS | MLP-2 | QT-3J | | N7 | |
| | | | | | | |

New Torque Drive Crystal Pickup Cartridge achieves clean, clear tone definition and fidelity that are truly amazing! You can hear the difference! Gives new life to every record library.

AUTHORIZED DISTRIBUTORS EVERYWHERE

Write for Replacement Chart Bulletin No. 146

New Model L-14 Microgroove Crystal Cartridge, and New Model 20 Magnetic Cartridge for Regular or Microgroove records also available.

Use "A" mounting plate furnished with cartridges (1/2" hole centers) for all replacements except those marked with an * or †. *Use "B" mounting plate furnished (3/8" to 13/16" hole centers). †Use "C" mounting plate furnished (Webster Side Flange). All Model 12 Cartridges equivalent to Astatic "A" type except Tone Arm Rest Button is not supplied. It is recommended that the lower voltage cartridge consistent with volume level be installed. NOTE: Models M12, H12 and L12 have Osmium-tip Needle. For Cartridge with Sapphire-tip Needle, specify Model M12-S, H12-S, or L12-S.

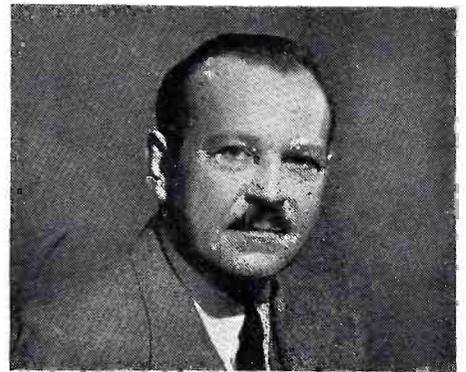
E-V Pat. Pend. Licensed under Brush Patents

ELECTRO-VOICE, INC.
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U.S.A. Cables: Arlab

IT PAYS TO REPLACE WITH
Electro-Voice

Folsom RCA President; Board Advances Wilson

The board of directors of the Radio Corporation of America, upon the recommendation of Brigadier General David Sarnoff, chairman of the board, elected Frank M. Folsom as president of the



John G. Wilson, above. For feature article by Frank M. Folsom, with picture of the author, see page 41.

Radio Corporation of America. John G. Wilson was elected executive vice-president in charge of the RCA Victor Division succeeding to the post filled by Mr. Folsom.

General Sarnoff continues as chairman of the board and will remain chief executive officer of the RCA, as well as chairman of the board of the National Broadcasting Co. and RCA Communications, Inc., both wholly owned subsidiaries of RCA.

Altec Service Sales Head

H. M. Bessey, executive vice-president Altec Service Corp., New York City, has named H. S. Morris as products sales manager for Altec Lansing audio equipment sales.

Opens Retail Store

Michael Stahl has opened a retail establishment, Leader Electronics & Television Corp., 215 Fulton St., New York City.

Crosley Sales Manager



William A. Bles, above, has been named general sales manager of the Crosley Div., Avco Mfg. Corp., Cincinnati, O.

James M. Toney



Shown is James M. Toney, who has been appointed advertising manager of the RCA Victor Home Instrument Department. H. G. Baker, general sales manager of the department, made the announcement.

Rider PA Manual

John F. Rider has announced the new "Rider Public Address Equipment Manual, Vol. 1." The new manual is available at all Rider jobbers, and contains the servicing data of 147 PA equipment manufacturers. The sturdy volume is bound in standard Rider durable looseleaf binder for easy handling, and is compiled alphabetically for quick reference. It is priced at \$18.00.

Philco Selling Aid

Philco Corp., Philadelphia, has designed a dispenser for use by dealers, designed to encourage customers to reach in and pick up a consumer folder describing Philco television receivers. The unit can be hung on the wall or placed on a counter.

New Nat'l Union Plant

Kenneth C. Meinken, president of National Union Radio Corp., Orange, N. J., has announced the purchase of a plant in Hatboro, Pa., for the production of all types of cathode ray tubes up to and including 20" in diameter. The company will expend a million and a half dollars for the installation of machinery and equipment for the production of these tubes, Mr. Meinken said.

Colen-Gruhn Named

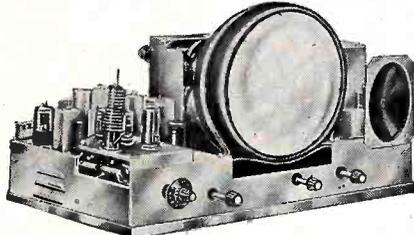


Murray Gruhn, shown, of Colen-Gruhn, Inc., New York City, announces the appointment of his firm as distributors for the Raytheon-Belmont line of television sets in the Metropolitan New York area.

TRANSVISION

NEW Television Kits, and Equipment

Important Advances in TV Reception and Servicing!



MODEL 10A TV KIT

NEW 10" TV KIT at amazingly LOW PRICE!

The new Transvision Model 10A electromagnetic TV Kit gives a bright, stable 52 sq. in. picture. Has 10" picture tube, and CONTINUOUS TUNING on all 12 channels. Its high sensitivity makes for improved long-distance reception; especially good on high channels. Complete with all-channel double-folded dipole antenna and 60 ft. of lead-in wire. MODEL 10A TV KIT, less cabinet... Net \$199.00
MODEL 12A TV KIT, same as above, but has a 12" picture tube... Net \$263.00



ALL-CHANNEL BOOSTER

NEW STREAMLINED CABINETS

for Transvision Model 10A or 12A TV Kit. Made of select grain walnut with beautifully rubbed finish. Fully drilled, ready for installation of assembled receiver.

Walnut Cabinet for 10A or 12A (Specify) Net \$44.95
Mahogany and Blonde slightly higher.

TRANSVISION ALL-CHANNEL TELEVISION BOOSTER...

To assure television reception in weak signal areas, or areas which are out of range of certain broadcast stations, Transvision engineers have designed this new booster. It increases signal strength on all television channels. Tunes all television channels continuously. Can be used with any type of television receiver. Unusually high gain in upper television channels.

Model B-1 List \$44.95

TRANSVISION REMOTE CONTROL UNIT KIT ...

Will operate any TV receiver from a distance. Turns set on, tunes in stations, controls contrast and brightness, turns set off. Ideal for installations where the television receiver is inaccessible. Tuner unit is a high gain, all-channel unit with about 50 micro-volt sensitivity. Easy to assemble in about an hour.

Model TRCU, with 25 feet of cable... Net \$69.00
Without cabinet Net \$65.00

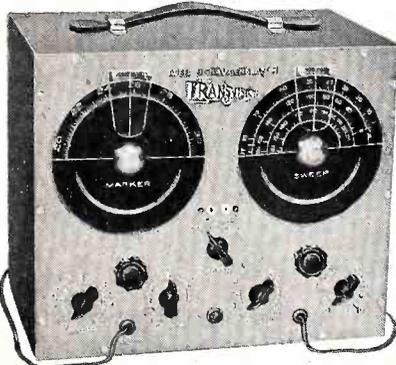


REMOTE CONTROL UNIT KIT

NEW...TRANSVISION SWEEP SIGNAL GENERATOR

for Television and FM

OUTSTANDING FEATURES: (1) Frequency range from: 0-227 MC. . . . (2) Dial calibrated in frequency. . . . (3) Sweep width from 0-12 MC completely variable. . . . (4) Self-contained markers readable directly on the dial to .5% or better. (No external generator required to provide the marker signals). . . . (5) Crystal controlled output makes possible any crystal controlled frequency from 5-230 MC. . . . (6) Plenty of voltage output—permits stage-by-stage alignment. . . . (7) Output impedance 5-125 ohms. . . . (8) Directly calibrated markers, 20-30 MC for trap, sound and video IF alignment. . . . (9) RF for alignment of traps for IF channels when a DC volt meter is used as the indicating medium. . . . (10) Unmodulated RF signal to provide marker pips simultaneously with the main variable oscillator. . . . (11) Markers can be controlled as to output strength in the pip oscillator. . . . (12) Power supply completely shielded and filtered to prevent leakage. . . . (13) All active tubes are the new modern miniature type. . . . (14) Phasing control incorporated in the generator. MODEL No. SG Net \$99.50



SWEEP SIGNAL GENERATOR

Radiomen . . . You Can Get into the
TELEVISION BUSINESS
In a BIG WAY with the
TRANSVISION DEALER PLAN
Write for Folder D-1

NEW 8-PAGE CATALOG of Transvision line available at your distributor, or write to:

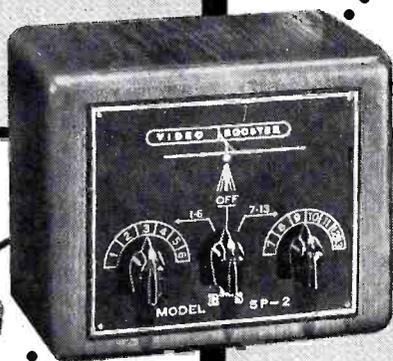
TRANSVISION Inc. Dept. RR **New Rochelle, N. Y.**

In Calif: Transvision of California, 8572 Santa Monica Blvd., Hollywood 46

All prices 5% higher west of Mississippi; all prices fair traded. All Prices Subject to Change.

RMS VIDEO-ANTENNA BOOSTER

Model SP-2
13 Channel



for
YOU \$

for your CUSTOMER

SATISFACTORY
INSTALLATIONS
LESS SERVICE CALLS
AUXILIARY SALES

Yes, this PROVEN successful Television Booster will build up profits for YOU—not only because of rapid turnover—but also because it opens up whole new markets for the sale of television sets, components and accessories, in "fringe areas" where satisfactory television reception was formerly impossible!

See your local jobber for this, as well as other RMS Television Fast-sellers. Write for literature to

RMS

RADIO MERCHANDISE SALES, INC.
550 WESTCHESTER AVENUE NEW YORK 55, N. Y.

Philco Promotes Dr. Pitt

Dr. Courtney Pitt has been elected to the newly-created office of vice-president, Finance, of Philco Corp., and in this capacity will serve as the chief financial officer of the company, it was announced by William Balderston, president.

Starrett Vice-President

Starrett Television Corp., New York City, announced the appointment of Allan Harvey as vice-president in charge of sales and advertising. Harvey will supervise the development and operation of the company's merchandising program.

Remington Expands Plant

The Remington Radio Corp., White Plains, N. Y., has expanded its factory at 80 Main St. Robert G. Kramer, president, explained that the expansion will supply additional video sets to new sales territories opened in the South and Southwest.

Chicago Transformer Reps

Arthur E. Akeroyd, with offices in Boston, and James J. Backer of Seattle, Washington, have been named as representatives for the new replacement line of transformers recently introduced by Chicago Transformer Division, Essex Wire Corporation. For some months previously, both men had represented the concern in other stock transformer lines.

Appointed by Thurow

J. A. Mook, Jr., general sales manager, Thurow Distributors, Inc., Tampa, Jacksonville, Miami, West Palm Beach, Orlando, Tallahassee and Pensacola has announced the appointment of A. L. Gottesman as Pensacola branch manager.

Sylvania Distributor

The appointment of William B. Allen Supply Co., New Orleans, La., as distributors for products of the Radio Tube Division of Sylvania Electric Products Inc. is announced by H. H. Rainier, manager of distributor sales. He said they would distribute radio and television tubes, test equipment and electronic products.

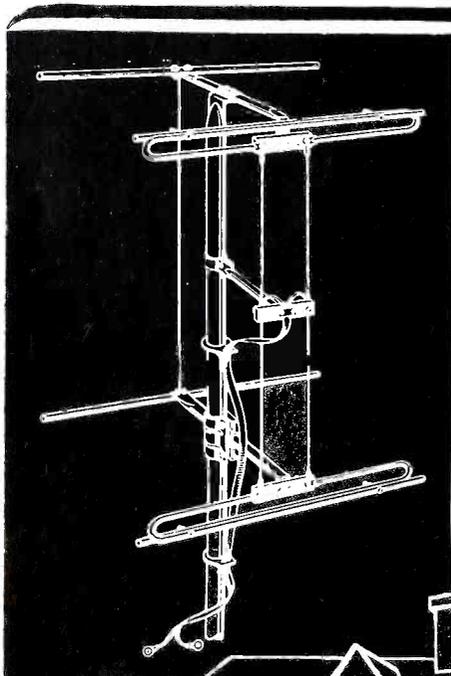
Distant TV Reception

Editor
RADIO & TELEVISION RETAILING

Recently we installed a television set atop the summit of Whiteface Mountain, Lake Placid, N. Y. We were successful in picking up programs from WRGB, Schenectady, 120 airline miles away. . . . Incidentally, in addition to receiving programs from Schenectady, we were amazed to find we could get programs from New York City and Buffalo! The quality of the reception, however, from these unbelievable distances wasn't too good. . . .

Milton A. Klarsfield

Albany Television Headquarters
67 Hudson Ave., Albany, N. Y.



EXTRA GAIN!

ON CHANNELS 7-13

• For good reception of TV Channels 7-13, it's the TACO Type 444 here shown. This stacked high-frequency adapter has a gain of approximately 6 db. Makes all the difference between no programs and satisfactory programs in 7-13 range. Matches any 300-ohm low-frequency antenna or lead-in. Mounting clamp and electrical matching network for attaching to existing low-frequency antenna. All-aluminum. 5-foot mast. Necessary hardware. Complete.

List Price \$17.75

Ask our jobber for the correct TACO antenna for any TV, FM, AM or SW installation. Catalog on request.



TACO RADIO & ELECTRONIC EQUIPMENT TECHNICAL APPLIANCE CORP. SHERBURNE, N. Y.

IN CANADA: STROMBERG-CARLSON CO., LTD., TORONTO 4, ONT.

Lyte Aerosweep Head



Stuart S. Drier, L.L.B., has been elected president of Lyte Aerosweep Corp., Plainfield, N. J.

Zenith Buys TV Tube Plant

Following within a few days of the introduction to the public of their new television receivers, Zenith Radio Corporation announced the outright purchase of the Rauland Corporation, manufacturer of TV cathode ray tubes. The Rauland corporation will continue to do business as a wholly owned subsidiary of Zenith, with the same officers and personnel, except that expansion of production facilities is planned.

Polaroid Filter Jobbers

Hunter Delatour, advertising manager, Pioneer Scientific Corp., New York City, has announced the following additional distributors for the Polaroid television filter: Taylor Electric Co., Milwaukee; Hayer Co., North Minneapolis, Minn.; Main Line Distributors, Toledo.

Technicians' Federation

Representatives of service technicians' organizations of New York State met in Binghamton on October 31 to form the Empire State Federation of Electronic Technicians Associations (ESFETA). The federation was formed with the objects of furthering the welfare of the radio technician in N. Y. state, to work toward raising his technical standards, and to promote among the public a better understanding of the problems of radio service technicians. Officers elected included T. Lawrence Raymo of Rochester, President; Max Leibowitz of N. Y. C., Vice President; Wayne Shaw of Binghamton, Secretary; Ben de Young of Central, Treasurer; and Evert M. Howland of Hudson Valley, Sgt.-at-Arms.

Webster-Chicago Display

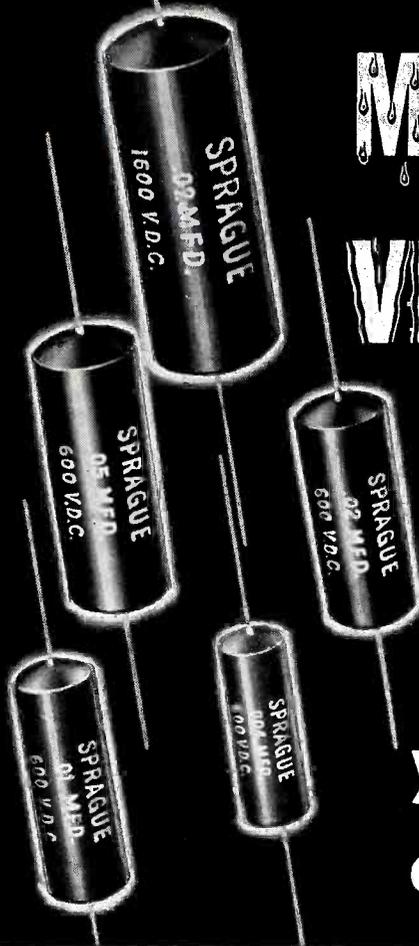
The Webster-Chicago Corp., is offering distributors and dealers an eye-catching counter card, designed to stimulate repeat sales of recording wire. Pointing out features of Webster-Chicago's pre-tested recording wire the 12 x 16-inch card is in three colors and contains an envelope pocket for hand-out material on wire spools.

The Capacitors that Lick

MOISTURE

VIBRATION

HEAT



**... yet cost
you not one
cent extra!**

SPRAGUE PHENOLIC MOLDED TUBULAR CAPACITORS

Types **TM** and **MB**

(600 Volts)

(1600 Volts)

Take a look at Sprague Type TM and MB Phenolic Molded Tubular Capacitors! See how their sturdy phenolic jackets offer *complete* protection against moisture, vibration and heat—the three factors that cause 9 out of 10 failures in ordinary wax tubulars. Then try Sprague TM's and MB's on your toughest jobs—and you'll quickly understand why these little units represent the greatest capacitor development in modern radio servicing history! Sprague TM's and MB's are a "must" for auto radio, aircraft radio and television applications. And because they cost exactly the same as ordinary wax cardboard tubulars, wise servicemen use them exclusively for all service replacements. There are no service complaints, no dissatisfied customers when you use Sprague TM's and MB's.

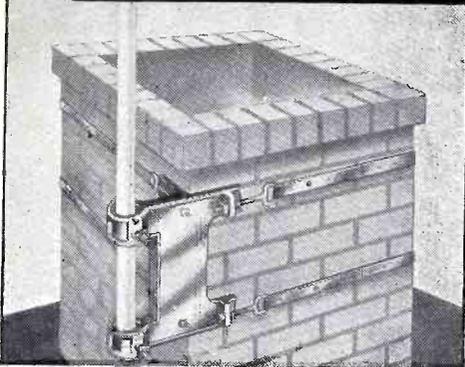
Get the genuine article! Be sure and ask for Sprague TM's and MB's by name!



SPRAGUE PRODUCTS COMPANY
North Adams • Massachusetts

JOBGING DISTRIBUTING ORGANIZATION FOR PRODUCTS OF THE SPRAGUE ELECTRIC COMPANY

Don't Jeopardize Antenna Installations with Inferior Mounts



Specify and Insist on Getting The Original and Still Acknowledged Finest South River **CHIMNEY MOUNT ANTENNA BASE**

Pat. Pending

Briefly, here are the reasons why the original South River Chimney Mount Antenna Base is the most superior product of its type in the field today—and the most popular.

CONTINUOUS IMPROVEMENTS

1. Addition of vertical fin between the two sockets for extra rigidity.
2. Adding of two eye bolts (making total of four) to facilitate tightening straps evenly from both sides.
3. Enlarging socket to accommodate 1 1/2" O. D. tube.
4. Addition of reinforcing fins on socket and lug.
5. Increased wall thickness throughout. (Amazingly long life)

EXCLUSIVE FEATURES

1. Strong, aircraft-type aluminum casting. (Cannot rust and stain building)
2. Welded eye bolts.
3. Bands pull up on two sides.
4. Sockets accommodate any size pipe or tube up to 1 1/2" O. D.
5. Chimney Mount is one piece, but can be sawed in half in 90 seconds, or can be furnished in two sections if requested.
6. Set screws keep mast from twisting in high winds.

COMPARE! South River
Chimney Mount Antenna Base
for TELEVISION • FM • AMATEURS

Installed in 10 Minutes

List Price: **\$7.50**

Available Through All Leading
Jobbers and Dealers or Write to:

South River Metal Products Co., Inc.
South River, New Jersey

Philips Dry Shaver

The North American Philips Co., 100 E. 42nd St., New York City has introduced a new light-weight electric dry shaver in various test markets. The Norelco dry shaver features a rotary-action round head of six finely ground self-sharpening steel cutters.

New TV Antenna Rotator

Lyte Aerosweep Corp., Plainfield, N. J., announces a new television antenna rotator. "Aerosweep" is a motor which is magnetic in design. The motorized unit fits any conventional antenna array, and is easy to install. It will rotate a full 370 degrees, eliminating dead-spots, and will withstand antenna weights up to 160 pounds.

Pray Opens in New England

W. B. Pray, 18 Brewster Rd., Wellesley Hills, Mass., announces the reopening of W. B. Pray Sales Co., as manufacturer's rep in six New England states. Mr. Pray specializes in electronic and sound equipment and radio components.

Fada TV Price Correction

Through a typographical error in an advertisement in the November issue of RADIO & TELEVISION RETAILING, the list price of Fada television model 899 in mahogany or walnut veneer was given as \$395, whereas the correct list price was \$375, plus tax and installation. Model 899 has a 10-inch tube giving 52 square inches of picture area.

NARDA Annual Meeting

The National Appliance & Radio Dealers Association will hold its annual meeting at the Hotel Sheraton, Chicago, January 9, 10, 11.

Garnich Admiral Jobber

Appointment of E. Garnich & Sons Hardware Co., Ashland, Wis., as exclusive distributors of Admiral electric ranges, refrigerators, radios, radio-phonographs and television sets for eleven counties in northern Wisconsin has been announced by W. C. Johnson, general sales manager of Admiral Corp., Chicago.

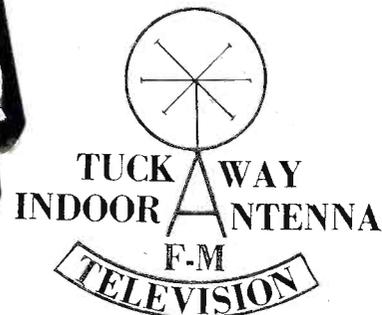
Arvin Display Popular

Gordon T. Ritter, director of sales, Arvin division, Noblitt-Sparks Industries, Inc., reports that the "Arvin Salesmaker" island floor display holding up to 48 table model radios or electrical appliances, have been distributed to over a thousand dealers. The units are issued at the distributor's discretion, but in most cases are merchandised in package deals involving the purchase of 12, 24 or 48 radios.

Burgess Dealer Help

Burgess Battery Co., Freeport, Ill., has made available a "Square Foot" display of fourteen best-selling flashlights in five different models. The display requires less than a square foot of counter space; and holds a small stock of a variety assortment of models.

Announcing A New Sensational Indoor TV-FM ANTENNA



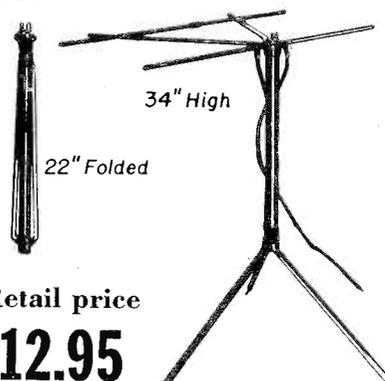
It's collapsible . . .

and can be tucked away

This new sensational indoor antenna fulfills all the requirements for FM and all-channel television coverage. The 'Tuck-A-Way' responds to ultra high frequency bands as well as the broader band of frequencies. The 'Tuck-A-Way' is also directionally adjustable to receive or reject reflected signals.

Check these features . . .

- ROTATABLE FOR BEST DIRECTIVITY OF SIGNALS.
- ADJUSTABLE LENGTHS FOR FM AND ALL TV CHANNELS.
- EQUIPPED WITH REFLECTORS AND DIRECTORS.
- DIRECTIONALLY TUNES ANY EXISTING ANTENNA.
- STURDILY CONSTRUCTED OF STEEL ALUMINUM AND BAKELITE.
- COLLAPSIBLE AND PORTABLE—WEIGHS LESS THAN 3 LBS.
- EASILY SET UP WITHIN ONE MINUTE.



Retail price

\$12.95

In many locations where an outside antenna has been installed, directive effects can be obtained by connecting the TUCK-A-WAY antenna across the terminals of the present antenna and rotating for best results. The TUCK-A-WAY can be used for quick store and home demonstrations of FM and Television Receivers.

We invite inquiries from jobbers and distributors.

PHONE . . . WRITE . . . WIRE

**RADIO-ART-DIVISION
COLEN-GRUHN
COMPANY, INC.**

387 FOURTH AVE., NEW YORK 16, N. Y.
Phone: MURRAY Hill 9-6363

New Products

Du Mont TELEVISION SET

"Winthrop" television small-space console is finished in select knotty pine. Large screen size, 7½ x 10 inches with FM and direct-view television on all channels. Standard and FM radio reception; automatic record changer. Set has 33 tubes plus rectifiers. Cabinet is 37½ inches high, 31 inches wide, 22¼ inches deep. Approximately \$825 plus installation. Du Mont Television, Receiver Sales Division, 515 Madison Ave., N. Y., N. Y.—RADIO & TELEVISION RETAILING

Phono-Gard RECORD DEMONSTRATOR

Demonstrator styled in natural finish cabinet, on-off and tone control knobs securely attached from inside. Working parts are out of sight and out of reach. Once machine has been started automatic slide panel completes cycle. Patented opening and closing feature protects mechanism. Helps cut down on demonstration breakdowns. St. Joe Machines, Inc., St. Joseph, Mich.—RADIO & TELEVISION RETAILING

Westinghouse TABLE RADIO

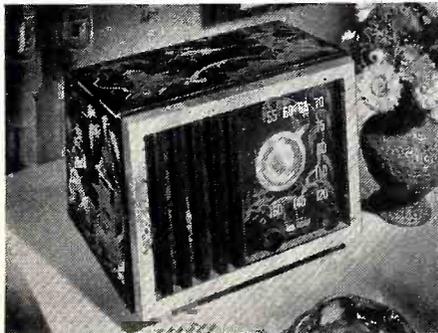
Model 210 miniature table model radio receiver is housed in "Lustrex" cabinet; carrying handle, made of elastic plastic, lies flat on top when not in use. Measures 9¾ inches



high, 6 inches wide, 4¾ inches deep. Styled in maroon, retails for \$19.95. Deluxe version in gray with gold trim, retails for \$22.95. Set has four tubes plus rectifier. Westinghouse Electric Corp., Home Radio Division, Sunbury, Pa.—RADIO & TELEVISION RETAILING

RCA Victor BATTERY RADIO

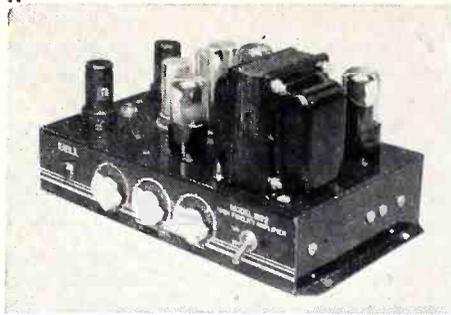
Table model farm battery radio, model 8-F-43, designed for rapid conversion without cost from battery to power operation. Includes as standard equipment an RCA Victor electricifier unit. Powered by an RCA farm battery



pack, receiver is housed in modern cabinet, tuning dial angled and recessed at the top of cabinet. On-off indicator included to avoid waste of battery power. Measures 9¾ inches high, 18 inches wide, 9½ inches deep. Eastern retail price is \$45, less batteries. RCA Victor Division, Radio Corporation of America, Camden, N. J.—RADIO & TELEVISION RETAILING

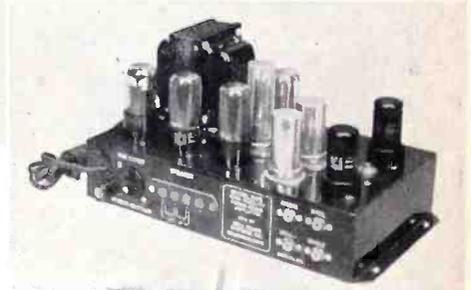
BELL RADIO-PHONO AMPLIFIER

with built-in compensated pre-amps



Front View

New high fidelity from all types of pickups



Rear View

- Four Separate Inputs
- Individual Equalization
- Bass and Treble Boost

Sound out more profits with this advanced BELL Model 2122 High-Fidelity Amplifier. It provides one input each for radio tuner and any crystal pickup, plus two special inputs for the various new magnetic pickups (ideal for the new Micro-Groove recordings). Built-in pre-amplifiers and individual equalization assure proper match and response from magnetic pickups. Bass and treble boost, plus attenuation, gives full tone control. Adjustable output impedance matches most speakers. And this medium-priced unit matches the market for the finest in Radio-Phono Amplifiers. Write for details.



BELL SOUND SYSTEMS, INC.

552 MARION RD., COLUMBUS 7, OHIO
EXPORT OFFICE: 4900 EUCLID AVE., CLEVELAND 3, OHIO

... for

**INCREASED
SALES**
and
PROFITS...



DeWald C-800 FM-AM Receiver

in
RADIO
and
TELEVISION

for
SOMETHING
BETTER,
it's

DEWALD



DeWald BT-102 High Definition Television

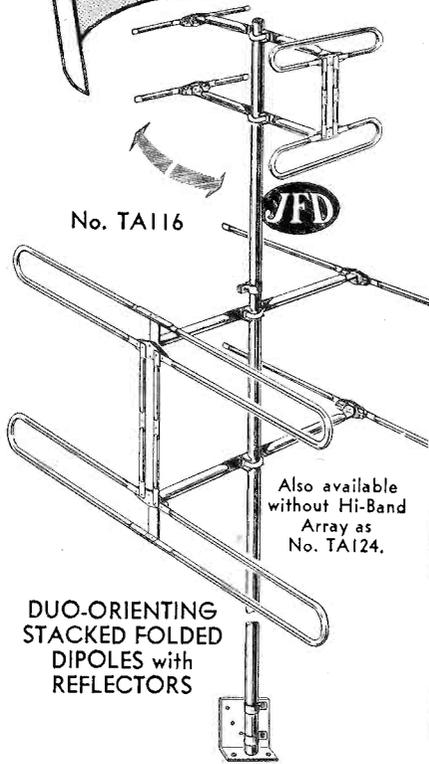
For more than a quarter-century DeWald's proven quality and outstanding performance have been creating satisfied customers and building good-will.

Write today for full information
JOBBERS — REPRESENTATIVES
Some choice territories
still available.

DEWALD RADIO MFG. Corp.
35-15 37th Ave., Long Island City 1, N. Y.

For **HIGH** Performance
In **LOW** Signal
Areas . . .

The
ALL NEW
JFD **Super-Beam**
HI-LO TV Array



**LOOK AT THESE LONG-RANGE
PERFORMANCE FIGURES
FROM ACTUAL REPORTS!**

| CITIES | DISTANCE IN MILES |
|-------------------------|-------------------|
| Albany - New York | 125 |
| Cleveland - Pittsburgh | 120 |
| New Haven - New York | 110 |
| San Diego - Los Angeles | 100 |
| South Bend - Chicago | 90 |

OUTSTANDING FEATURES!

- ✓ Gives full 12 channel TV reception plus FM.
- ✓ Supplied complete with 10' Mast, All-Angle Mounting Bracket and Stand-Off Insulators.
- ✓ U-Bolt Clamp construction provides 1/8, 1/4 or 1/2 wavelength spacing of 2, 4, 6, or more bays on mast for tremendous stacking flexibility—also permits independent orientation of each bay.
- ✓ Lightning-fast assembly time.
- ✓ Impedance of 150-260 ohms and +8.6 DB gain.
- ✓ All-weather Roto-lock insulator made from low-loss polystyrene for perfect high frequency insulation.

Write for Literature



4119 Ft. Hamilton Pkwy., Bklyn. 19, N. Y.

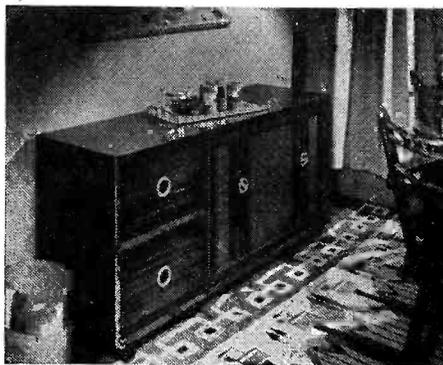
"Manufacturers of the World's Largest Line of
TV/FM Antenna Equipment"

**New Jensen Home
Entertainment Center**

The requirements of home entertainment centers and ham shacks are forever expanding, points out Jensen Manufacturing Co., 6601 S. Laramie Ave., Chicago. Today there's a short wave receiver, an amplifier, a loudspeaker and a transmitter. Tomorrow we may be adding an oscillator and a recorder. Families will demand television sets and microgroove record-changers. Meanwhile more storage room will be needed, and there will always be the problem of equipment in cabinets of various sizes and designs.

The Jensen firm meets this problem with Customode, providing matching enclosures for radio and electronic equipment. It enables the owner to house all radio, audio and video components in uniform, attractive cabinets. It coordinates our various pieces of equipment into one pleasingly neat and orderly functional unit.

Recognizing that the heart of any entertainment center is a high quality loudspeaker, Jensen commissioned leading furniture stylists and acoustic engineers to develop a line of enclosures around the reproducer, a Bass reflex housing a fine 15-inch Jensen speaker, preferably a coaxial.



Customode line by Jensen provides means for a home or "Ham" Entertainment Center.

Besides the reproducer cabinet, the Customode line includes three other basic units and a console. Dimensioned to a common module, Customode units may be combined in hundreds of different ensemble arrangements for entertainment center or ham shack. The units are sturdily constructed of heavy acoustical plywood. Veneer is selected imported mahogany, Vee-matched; exposed trim is solid mahogany. Satin-finish brass door pulls and controls add an attractive color note. Finishes available are muted blonde and Cordovan, to harmonize with almost any decorative scheme.

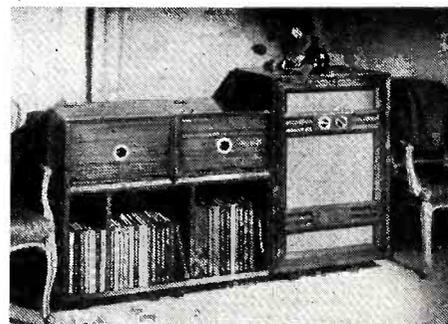
The console includes a Bass reflex speaker compartment for a 15-inch loudspeaker and a three-compartment section for other equipment. The top and bottom compartments have side-hinged doors; the center compartment has a slide-out drawer for record-changer installation.

The Bass reflex reproducer cabinet is designed to house a 15-inch speaker and a Jensen coaxial is recommended for finest results. Equipped with four cut-outs, any two of which may be used for

speaker controls, the cabinet may be placed either on end or side, as desired.

A second basic unit is a small utility cabinet which is suitable for housing tuner, amplifier, or other equipment. A motorboard and slide assembly, available extra, may be installed in the cabinet to provide for record-changer.

Another basic unit is a medium-size utility cabinet with drop-front door. This enclosure is designed for communication equipment, small television sets and other components.



Matching enclosures are attractive.

The fourth basic unit is a general purpose cabinet with two shelves and open front. This unit was designed specially for record storage and there is ample space for more than 200 records in standard albums. The top shelf is convenient for art objects or for the record album in use. This cabinet, too, may be placed either on end or side, as desired.

Basic units are finished on five sides to permit placement on sides or ends and to make possible right—or left-side door opening and corner turning. Interior surfaces are free from obstructions and the utility cabinets have ventilated backs to carry off heat generated by equipment and subpanels for mounting dials and knobs. Single feet and two sizes of foot assemblies are available for supporting the cabinet ensemble in any position.

Merchandising Counselor

Harry Boyd Brown, formerly national merchandising manager at Philco, has opened offices at 18 W. Chelton Ave., Philadelphia, as a merchandising counselor to manufacturers.

Times Square Official

The appointment of Milton D. Blauner to the board of directors of Times Square Stores Corp., New York, has been announced by George J. Seedman, president.

Boston Town Meeting

The second of a series five Town Meetings of Radio Technicians was held in Boston November 15, 16, and 17. Radio-men from Maine, Massachusetts, Rhode Island and New Hampshire were invited to the three-day meeting, designed to assure satisfactory installation and repair of New England television sets. The Town Meeting was sponsored by the Radio Parts Industry Coordinating Committee, and followed the pattern set in New York in September, and an experimental meeting in Philadelphia last January (1947).

Reactance Tubes

(Continued from page 59)

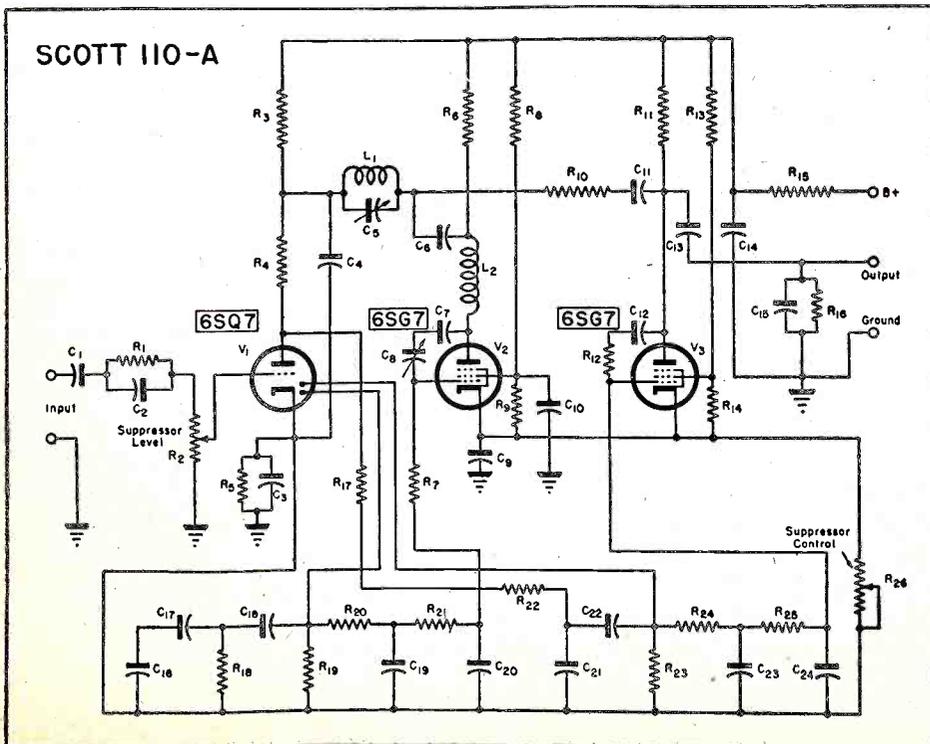
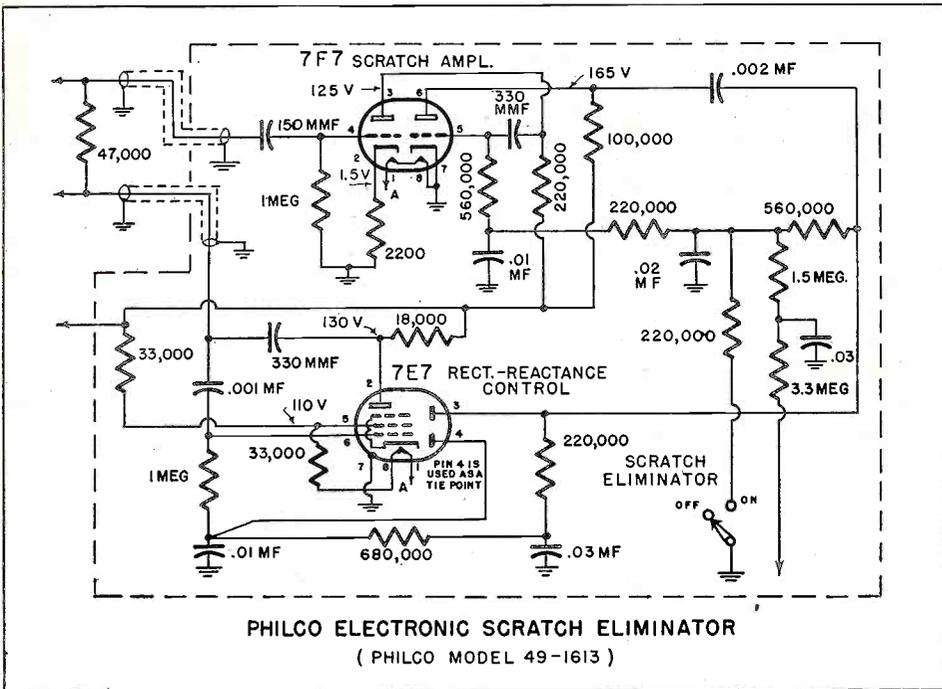
refinements would be complemented by additional operative controls on the front panel.

Simplification of the theory is possible by making the response characteristics fixed, by eliminating the bass section (since the response of the system may be such as to render this section useless), and by having only an "on-off" switch for the operator.

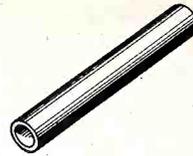
Three circuits are shown. The Scott model is for attachment to existing apparatus. The RCA "Magic Monitor" and Philco "Electronic Scratch Eliminator" are incorporated in stock models as indicated, and probably indicate

a trend in better console manufacture.

In servicing the RCA and Philco circuits, an audio signal generator is connected to the phono jack and an output meter across the output transformer. It will be observed that when the output of the oscillator (at 5000 cycles for Philco, 3000 cycles for RCA) is reduced to a certain point, output of the system is reduced if the noise suppressor is on. Exact values for tests are given in manufacturer's service notes. At lower frequencies or higher levels no effect is observed, allowing music to be reproduced at the maximum fidelity attainable by the system.



IRC Power Wire Wounds are better built every step of the way



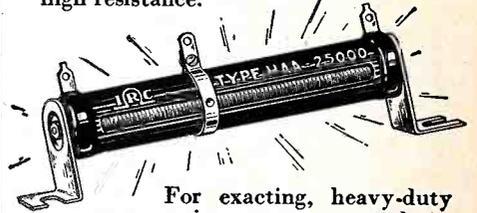
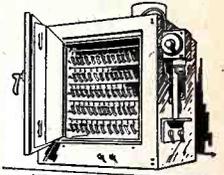
Starting right from the winding form IRC Power Wire Wounds combine the best of materials, workmanship and resistor "know-how".

Highest grade alloy wire uniformly wound on sturdy ceramic tubes. Terminals spot welded for security; heavily tin dipped for easy soldering.



Climate-proof cement coating provides dark, rough surface—best for rapid heat dissipation, moisture protection and ability to withstand reasonable overloads.

Resistors cured at LOW temperature prevents damage to resistance windings, and loss of temper in terminals. Bands for adjustable types feature stainless steel springs and silver contacts. Cannot corrode to cause high resistance.



For exacting, heavy-duty requirements you can rely on IRC Power Wire Wounds for balanced performance in every characteristic. Being full-sized, they can operate continuously at full rating. Derating in high ranges is unnecessary.

IRC Power Wire Wounds are available in a full range of ratings, sizes and terminal types. 91 new ranges have just been added. Next time you step up to your distributor's counter—stock up on IRC Power Wire Wounds.

IRC INTERNATIONAL RESISTANCE CO.

401 N. Broad Street, Phila. 8, Pa.
In Canada: International Resistance Co., Ltd.,
Toronto, Licensee



YES! We're listed in the RED BOOK. Looking for the correct IRC replacement controls for any receiver manufactured from 1938 to 1948? Just refer to the Radio Industry RED BOOK!

**Sparton Merchandiser
News Available to Retailers**

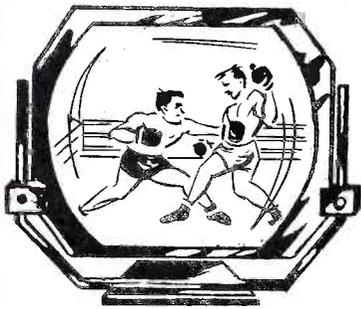
Copies of "Sales Talk," containing digests of articles on selling, may be had by addressing requests for same to Earl L. Hadley, manager advertising and sales promotion, the Sparks-Withington Co., radio and appliance division, Jackson, Mich.

Prize of Universal Range

The Universal Bantam range, manufactured by Landers, Frary & Clark, was demonstrated during the open house held by the Patton Electric Co., Silver Creek, N. Y., in connection with the town's centennial celebration.

**Muter Buys Jensen Stock;
No Changes Contemplated**

Leslie F. Muter, president of The Muter Co., and Thos. A. White, president of the Jensen Manufacturing Co., both of Chicago, have released a joint statement saying that The Muter Company has just acquired all of the common stock of the Jensen Manufacturing Company. The amount of consideration was not disclosed but the acquisition was made by cash and Muter common stock. Both principals said that no consolidation of operations was currently anticipated and no changes in management were contemplated.



**BETTER LENSES
•
BETTER PICTURES
•
LOWER PRICES**

BY

ALPHABEST

**DOUBLES
IMAGE SIZE**

TABLE MODEL or CONSOLE
With simple, foolproof, adjustable bracket or floor stand.

REASONABLE PRICES
AND... a good discount for you.

IMMEDIATE DELIVERY

7" List \$14.95 (table model)
10" " 22.95 (table model)
12" " 39.95 (floor model)

No additional charge for a blue tint.

Representatives

Some choice territories still open

DEALERS—Write for further details and price lists.

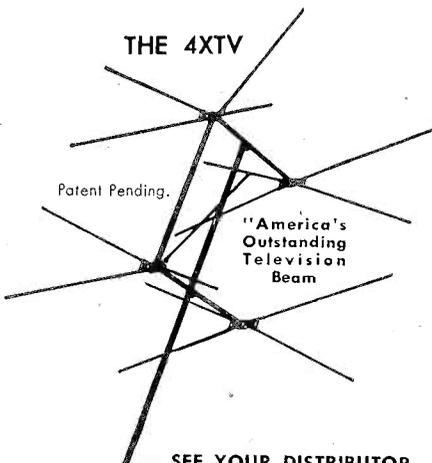
Brought to you by an old-established manufacturer with a reputation for engineered plastic products.

Now you can give your customers a top quality liquid-filled lens, optically correct, clearer, sharper pictures without distortion, clear or blue tint at the same price.

**ALPHABEST
PRODUCTS CORP.**

181 NAVY STREET
BROOKLYN 1, N. Y.
MAin 4-1844

THE 4XTV



SEE YOUR DISTRIBUTOR

CONICAL ANTENNAS

RUTHERFORD AVENUE ON ROUTE 35
ASBURY PARK, N. J. PHONE: ASBURY PARK 1-0119
BOX 8795, ASBURY PARK, N. J.

- Bi-Directional Stacked Conical "V" Beam
- Channels 2 to 13 Plus FM
- Low Inception Angle
- Extremely High Signal to Noise Ratio
- 150 Ohm Non-varying Impedance
- Use 72, 150 or 300 Ohm Transmission Lines
- Universal Mounting Clamps

TELEVISION CHASSIS

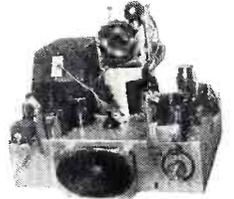
**FACTORY ASSEMBLED
ALIGNED — TESTED**

These top-quality television chassis open new markets for you in the field of custom built television. Saves hours of labor. No testing required.
OUT OF THE CARTON—INTO YOUR CABINET

#T-100

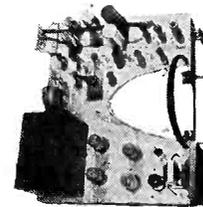
10"

**TELEVISION
CHASSIS**



A television receiver you will be proud to feature under your private label. Adaptable for 12" or 15" cathode ray tubes. All 12 channels. Complete FM audio circuit, 20 tubes, magnetic focus and deflection. 300 ohm input impedance... Sync guide, 6" PM speaker. All tubes mounted in sockets. . . . **NET \$16440**

#T-70 7" TELEVISION CHASSIS



A portable, light-weight electrostatic chassis designed to fill your need for low-cost custom built television installation. Compact; will fit into many types of standard furniture such as console radios, credenzas, etc. All 12 channels. . . . Speaker. . . . All Tubes. . . .

NET \$11825

#TD-150 — 10", 12" or 15"
DUPLICATOR CHASSIS



Multiply your television sales with this 11 tube duplicator chassis for multiple installations. Complete with plug-in adaptor and extension cables. Made to operate off any type of master set. Magnetic deflection... synchro-lock circuits... speaker... CR tube support. Suitable for 10", 12" or 15" tubes.

NET \$10440

DEALERS — SERVICEMEN

ACT NOW. Investigate the possibilities of added business with completely wired chassis. Send for catalog T for full information or inquire at your local jobber or distributor.

**DISCOUNT OF 5%
ON ORDERS OF 5 OR MORE**

ORDER INSTRUCTIONS

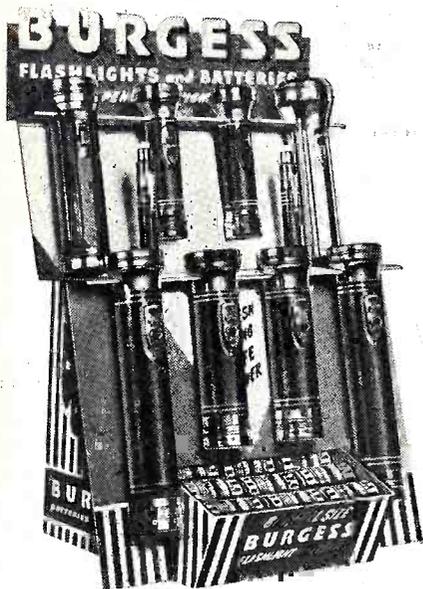
All prices f.o.b. New York (Less CR Tube) 20% deposit required with order for all C.O.D. shipments. Orders marked "RUSH" will be shipped via air freight... all others sent express collect. Approximately one week delivery.



**TELEVISION UTILITIES
CORPORATION**

1261 Broadway, New York 1, N. Y.
MUrray Hill 4-2532-3

BURGESS
*Gives You a
 Higher Return
 From a Square Foot
 of Your Counter*



**Want Greater Turnover,
 Higher Returns,
 and More Profit?**

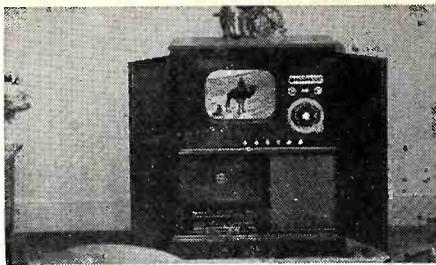
Then here's how to use valuable counter space. Set aside one square foot for this bright, quick-sale Burgess display assortment and watch sales and profit soar.

Here's a whole profit department in one compact, sturdy unit. In less than a square foot of space (actually 9" x 13") it displays and sells 48 Burgess flashlight batteries and a complete assortment of Burgess flashlights in 5 best-selling models. This new money-making display is FREE with the minimum stock of batteries and select flashlight cases.

Don't wait to step up profits. Your Burgess distributor has the No. 134 assortment in stock now. Order it by number today!

BURGESS
 BATTERY COMPANY Freeport, Illinois

Du Mont "Colony" Console



Small-space console, Georgian style cabinet, gives 116 square inch direct-view picture. Set has 37 tubes plus rectifiers; sells for \$1095.00 plus installation.

TV Test Equipment

(Continued from page 61)

over the phone that the set has gone dead, the sound has disappeared, etc.

The multitude of equipment needed for installation and for antenna service work will not be examined in detail here, since the necessity for ladders, drills, sound-powered phones, attenuator pads, etc. has been covered in another article.

It goes without saying that once the servicer acquires this equipment, he must become proficient in its use. A final suggestion in this connection: if TV is just starting in your area and opportunities for servicing are rare, build your own set from a kit (but preferably one where alignment is not locked in at the factory) and cut your teeth on it. Later on this can be your monitor set in the shop.

RCA Victor TABLE RADIO

Oriental-styled table model radio, one of the 75-X-1 series. Standard broadcast receiver features authentic painted Chinese scenes. Available in black, red, and white backgrounds. Features soft-glow tuning dial, which lights up individually the station numerals and tuning pointer. Instrument has four tubes one rectifier. Measures 7 3/4 inches high, 10 inches wide, 7 1/2 inches deep. Eastern retail price, \$49.95. RCA Victor Division, Radio Corporation of America, Camden, N. J.—RADIO & TELEVISION RETAILING

ITI TELEVISION RECEIVER

"Century" 226, television set, features chair-side remote control unit containing television tuner and AM-FM tuner, dual-speed record player, and is connected by wires to the picture unit which is a separate cabinet. The picture unit cabinet contains a metal-sided cathode ray tube and storage space. Several picture units may be operated from single chair-side control unit by means of this system. Industrial Television Inc., 359 Lexington Ave., Chifton, N. J.—RADIO & TELEVISION RETAILING

Thall MAGNIFIER

Magnifiers available in 32 models, starting at \$9.95 retail. Available in conventional or table stand brackets, floor stands, in round edge or rectangular models. Sizes range from 3-inch model to a 15-inch model. Thall Plastics Engineering Co., 155 Chambers St., New York 7, N. Y.—RADIO & TELEVISION RETAILING

FOR
 DEMONSTRATING
 & TESTING AUTO RADIOS
 from AC LINES

ATR

**"A" BATTERY
 ELIMINATORS**



for **DEMONSTRATING AND
 TESTING AUTO RADIOS**

New Models . . . Designed for testing D. C. Electrical Apparatus on Regular A. C. Lines. Equipped with Full-Wave Dry Disc Type Rectifier, Assuring Noiseless, Interference-Free Operation and Extreme Long Life and Reliability.



AUTO RADIO VIBRATORS

A Complete Line of Vibrators . . .
 Designed for Use in Standard Vibrator-Operated Auto Radio Receivers. Built with Precision Construction, featuring Ceramic Stack Spacers for Longer Lasting Life.

NEW MODELS ✓ NEW DESIGNS
 ✓ NEW LITERATURE

ATR "A" Battery Eliminator, A-C-DC Inverters, Auto Radio Vibrators

See your jobber or write factory

AMERICAN TELEVISION & RADIO Co.
 Quality Products Since 1931
 SAINT PAUL 1, MINNESOTA-U. S. A.

Arvin Tele Receivers

Glen W. Thompson, president Noblitt-Sparks Industries, Inc., has announced the development of new television sets carrying the "Arvin" trade name. Facilities in Columbus, Ind., are rapidly being put into shape for engineering, testing and manufacture of television receivers.

Stromberg Sales Help

A pocket-size reference guide, listing the main selling features of the Stromberg Carlson radio and television line and especially designed for the use of floor salesmen, has been released through the company's distributors and branch offices to all authorized dealers.

It consists of a two-color, four-page jacket with stapled inside cuff containing several removable cards with reference to different radio and television series. Each card, illustrated with line drawings of individual models, lists in capsule form the cabinet, radio, television, and phono features of that series.

Proctor Trade-In Plan

The Proctor Electric Co., Philadelphia, Pa., has announced a new merchandising campaign for the first quarter of 1949, featuring a \$2.00 trade-in on its \$12.95 Champion iron and a \$3.00 trade-in on its \$18.95 Color-Guard toaster.

Missouri Valley "Reps" Sponsor Conference



Shown at the Radio & Electronic Manufacturer-Jobber Conference held in Kansas City are officers and committee chairmen of Missouri Valley Chapter, r. to l. seated: Jim Kay, president; Courtney Roes, vice-president and chairman registration committee; A. R. Thibau, secretary-treasurer. R. to l., standing: R. W. Farris, chairman entertainment committee; Zell S. Myers, chairman publicity committee; Herbert A. Roes, chairman cocktail supper greeters; G. L. Koenig, chairman luncheon greeters; Fred Somers, Sr., treasurer of conference funds.

Emerson Ad Manager

Edward Lane has been appointed advertising manager for Emerson Radio & Phonograph Corp., according to an announcement by Stanley M. Abrams, sales promotion manager. Mr. Lane had held executive positions with Columbia Records and the Muzak Corp.

RMA Campaigns Successful

Salt Lake City, 128 per cent sales increase; New Orleans, 21 per cent sales increase; Indianapolis, 50 per cent; Trenton, N. J., 110 per cent. These are final

figures in Radio in Every Room campaigns conducted in these cities by the Radio Manufacturers Assn., and just released by the Fred Eldean Organization, New York.

New Stromberg Sets

C. J. Hunt, radio and television sales manager, Stromberg-Carlson Co., Rochester 3, New York, announces the addition of two new television models, the Lancaster, model TV 12 PM, and the Manchester, model TV 12 L2M, to the company's line.

High Gain! with the new

PHILSON

TELEVISION ANTENNAS

MODEL SSD-180 (illustrated). Steps up weak signals greatly. A well designed antenna electrically and mechanically. For 72 ohm line.

MODEL SFD-190. Stacked dipoles and reflectors for 300 ohm line.

MODEL HF-340. High and low frequency for 72 or 300 ohm line. Hi and Lo frequency antennas independently adjustable for maximum directional effect.

PHILSON HIGH-FREQUENCY #230 SINGLE DIPOLE AND #240 FOLDED DIPOLE KITS easily mounted on any low frequency antenna, now in use, extend range to television channels 7 thru 13.

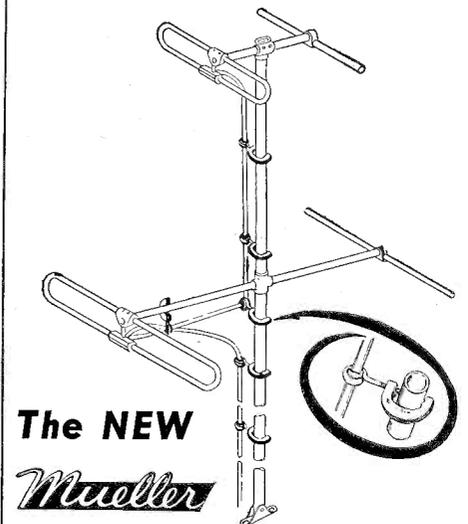
Quality throughout. All aluminum construction with 1/4" uprights and crossbars; sealed ends of tubes, 5/8" thick lucite insulation. Inserted reinforcements on antenna and reflector ends. Antennas packed semi-assembled for ease in setting up. All hardware in place—no loose screws or nuts.

Write for Catalog

SOME TERRITORIES STILL OPEN FOR DISTRIBUTORS

PHILSON MANUFACTURING CO., INC.

156 CHAMBERS STREET NEW YORK 7, N. Y.



The NEW

Mueller

"TENNA-CLAMPIPE"

(Clampipe T.M. Reg. U.S. & Can. Pat. Off.)

A Stand-off Insulator that Clamps on Quickly—Easily—Almost Anywhere for Supporting TV and FM Antenna Lead-ins on Masts, Cross-arms, Basement Pipes or any other Handy Place

SIMPLY TURN THE SCREW-EYE BY HAND FOR A SOLID, PERMANENT GRIP.

An assembly of the famous Mueller Clampipe Ground Clamp and a Screw-eye with plastic, insulating grommet. Offered for flat or round cable. ASK YOUR JOBBER.

SEND FOR FREE SAMPLE AND CATALOG 1902

MUELLER ELECTRIC CO.
1601 E. 31st St., Cleveland 14, O.

Industrial Teleceivers

For Public Viewing in
TAVERNS - HOTELS
INSTITUTIONS
SCHOOLS
CLUBS

Featuring—
**SIMPLIFIED
CENTRAL CONTROL**
with any number of
viewing screens

**INDUSTRIAL
TELEVISION, INC.**
359 LEXINGTON AVE., CLIFTON, N. J. GREGORY 3-0900



Attention DEALERS—SERVICEMAN

**Progressive's New
DEALERS CATALOG**
Just off press—Free

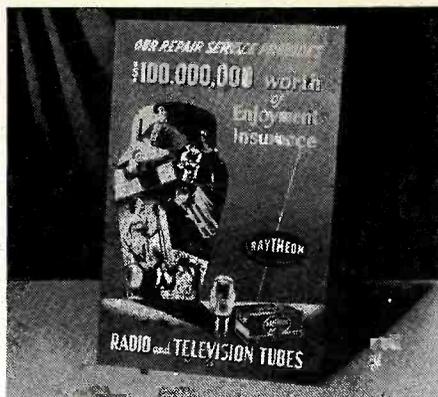
RADIO KITS • AMPLIFIER KITS
FM COIL & CONDENSER KITS
RESISTOR KITS • CONDENSER KITS
RADIO TOOL KITS • FM-AM CHASSIS
SPEAKERS • RADIO PARTS • TUBES
PORTABLE RADIOS • CAMERA-RADIOS
AUTO RADIOS • HOME RADIOS • LENSES
TELEVISION SETS • TEST EQUIPMENT
TELEVISION CABINETS • FM TUNERS
ANTENNAS • BOOSTERS

Send for your catalog today

PROGRESSIVE ELECTRONICS CO.

497 Union Ave. Brooklyn 11, N. Y.
Dept. RT-1

Raytheon Window Display



Small size display for window or counter available from Raytheon Mfg. Co., 60 E. 42 St., New York City. Features repair service theme; display is attractively printed; size 14 x 22 inches with easel attached.

Sun Sound Studio

A well-engineered sound demonstration studio has been completed at Sun Radio and Electronics Co., 122 Duane St., New York City. A large battery of tuners, amplifiers, receivers, record players and loudspeakers are available for instantaneous comparison through a centralized switching panel which provides for selection of component.

Dates Ahead

*Future Events of
Interest to Readers*

- Jan. 3-15: Chicago Winter Market, Merchandise Mart, Chicago
- Jan. 9-11: NARDA Annual Meeting, Sheraton Hotel, Chicago
- Jan. 19-20: NAMM Regional Conference, Hotel Biltmore, Los Angeles
- Jan. 26-27: Northwest Pacific States, NAMM Regional Conference, Seattle, Wash.
- Feb. 21-22: Southwestern States, NAMM Regional Conference, Dallas, Tex.
- Mar. 13-18: National Electrical Manufacturers Assn., Winter Convention, Edgewater Beach Hotel, Chicago
- Mar. 14-15: Central States, NAMM Regional Conference, Cincinnati
- Mar. 21-22: Southern States, NAMM Regional Conference, Atlanta, Ga.
- Mar. 28-Apr. 1: Third International Lighting Exposition, Hotel Stevens, Chicago
- Apr. 4-5: West Central States, NAMM Regional Conference, Minneapolis
- Apr. 5-7: Edison Electric Institute, 15th Annual Sales Conference, Edgewater Beach Hotel, Chicago
- May 1-6: National Electric Wholesalers Assn., 41st Annual Convention, Netherland Plaza Hotel, Cincinnati
- May 7: Eastern Electrical Wholesalers Assn., Dinner & Dance, Hotel Astor, N. Y.
- May 15: Radio Manufacturers Assn., 25th Silver Anniversary Banquet, Stevens Hotel, Chicago
- May 17-20: Annual Radio Parts Manufacturers Industry Trade Show, Stevens Hotel, Chicago
- July 25-28: National Association of Music Merchants, Trade Show & Convention, Hotel New Yorker, New York City

TELE-BEAM

Long Range

high gain Television Antenna

- ▶ Highest possible forward gain
- ▶ Adjustable for precision peaking
- ▶ Choice of 1/4 or 1/2 wave spacing
- ▶ Exclusive 3 in 1 feature offers these following options:
 - ▶ One 4 stack array . . .
 - ▶ Two 2 stack arrays . . .
 - ▶ Four dipole reflector assemblies

Your Inquiry Invited

cole-worner corporation
345 albert avenue
mansfield, ohio

ALL IN 1

TUBE TESTER
SET TESTER
BATTERY TESTER
CONDENSER TESTER
AUDIO R. F. - F. M.
SIGNAL GENERATOR



RCP Model 8573
at the record smashing price only **\$99.95**

Every square inch solid-packed with value! Look what you get in this phenomenally low-priced tester:

- (1) A complete tube tester with over 800 listings in its famous Rollindex roll chart,
- (2) A battery tester indicating actual voltage under rated load,
- (3) A capacitor tester,
- (4) A fixed point calibrated AM-FM signal generator,
- (5) An audio oscillator; and a dozen additional features.

• Readable scale divisions on the ohm meter start at 0.05 ohm to 25 megohms.
DC Volts: 0, 2.5, 10, 50, 250, 1000, 5000
AC Volts: 0, 10, 50, 250, 1000, 5000
DC Milliamps: 0, .5, 2.5, 10, 50, 250, 1000
DC Amps: 0, 10
Ohms: 0, 250, 2500, 25000
Megohms: 0, 2.5, 25
Decibels: -8 to +15, 15 to 29, 29 to 49, 32 to 55
Output Voltmeter: 0, 10, 50, 250, 1000, 5000

Complete with tubes, batteries and test leads, output leads, etc., housed in natural finish oak case; hammertone gray panel. See this outstanding buy at your jobber today—or write for new catalogue I C.

RCP INSTRUMENTS—BEST FOR EVERY TEST

RADIO CITY PRODUCTS CO., INC.

152 West 25th St.  New York 1, N. Y.



Ask for Model 533P

Dynamic Mutual Conductance TUBE TESTER

HICKOK

Tests all the latest tubes, including television, with the famous HICKOK Dynamic Mutual Conductance circuits. Tests tube-life, an exclusive HICKOK feature. Scale readings are directly in Micromhos—a test originated and developed by HICKOK and used by most expert AM, FM and Television servicemen as the highest standard of accuracy.

Mail this ad for literature and free copy of our regular 50c Service Instruction Manual.

THE HICKOK ELECTRICAL INSTRUMENT CO.
10923 Dupont Avenue • Cleveland 8, Ohio

TV Trend Seen as Appliance Boon

(Continued from page 51)

the markets in other lands. First, there's the desire to keep brand-names in the limelight, and second, foreign markets may well be the balance one day between overproduction here and a ready market if and when full-scale manufacture is attained.

There is one outstanding unknown quantity to any forecast having to do with the price situation for 1949, and this is the possibility of price controls being instituted by the government. Other factors too, such as wages, add to the complexity of the price picture. However, if production can be set up at a high enough level, it is believed that the competitive element in electrical appliances will prevent any wide-scale increases, even if no controls were to be imposed. A few experts are predicting price drops on some products.

Good Year Ahead

The appliance market held up well in 1948, with very little price-cutting. Here and there some products were slashed, but, by and large, supplies of such merchandise were comparatively short. Most of the "distressed" appliances met their fate through having been priced too high in the beginning.

The long-awaited flood of trade-ins hasn't materialized up to the present time, but it seems certain that many more traded-in products will be handled in '49 than in any of the other postwar years, though the volume will be lower than pre-war.

It seems likely that most dealer discounts will remain unchanged during the New Year.

Looking ahead we see clearly the necessity for genuine sales effort in order to rack up profitable sales volumes. To stimulate this effort we can take a look back too . . . back to the days when the going was really tough. Let us realize that if we put the same energy back of the sales of vacuum cleaners and electric irons, to mention a couple of products now in adequate supply, and hence, needing selling, that we did during the Depression we'd clean out our entire stocks in jig-time.

High Profit Potential

Electrical appliances and radio products are outstanding for their value in these days of high prices. Dollar for dollar, they represent great value, and smart dealers are selling such products by comparing them with other merchandise in other fields.

The appliance market looks wonderful for the twelve months ahead. While it's true that it is fraught with problems, those who are willing to face them with a realistic and determined viewpoint will reap their reward in increased volume and upped profits.

WANTED! REGIONAL DISTRIBUTORS

Well known FM Broadcast equipment manufacturer has developed low power FM BROADCAST STATION SELLING UNDER \$2000.00. This is a complete packaged unit—microphone to antenna!

Ideal for schools and colleges who want to incorporate Radio Broadcasting in their educational training with minimum of expense.

Our equipment is fully developed—performance equal to commercial FM requirements—simple to install and operate—lowest price in field for this top quality line.

Some territories open for distributors employing travelling sales engineers to sell local dealers.

Write giving full particulars, territory covered, number of salesmen, names of customer dealers and financial status.

Organizations qualified will receive full details of Sales Promotion Plan.

REPLY TO BOX 203

RADIO & TELEVISION RETAILING
480 LEXINGTON AVENUE, NEW YORK 17, N. Y.

FOR THAT "FRINGE" AREA

A Better Picture
and a
Good Profit, Too!
with

CHAMPION
Television Towers

Guyed Towers
45', 65', 85'

Self-Supporting
Towers
40', 53', 67', 80'

Make Your
Television Sales
Stick

Use Champion
Steel Towers

Strong
—and Easy
to Erect

Sold Through
Dealers and Jobbers
Write for Literature

**Norman M. Sewell
Inc.**

Susquehanna Ave.
at Derstine
LANSDALE, PA.

And Now . . . Introducing Movement with LIGHTS!

KASSON Model "712"
Roto-Sho
ELECTRIC TURNTABLES

The ACTION Display-Way
To Boost Your Sales!

MODEL "712" ROTO-SHO's two-way, built-in electric outlet permits novel, self-contained lighting effects as well as operation of electrical devices while the turntable revolves three times a minute! (Lights turn with table.)

There's nothing like "712" to revolutionize your window trim, because motion plus correct lighting is the key to successful displays. Sturdy construction, guaranteed, carries up to 200 lbs. Table 18" in diameter. A.C. only.

Write for our complete ROTO-PRODUCTS catalog!



GENERAL DIE AND STAMPING CO.
Dept. TV, 262 Mott St., New York 12, N. Y.

THESE ARE PHALO TRANSMISSION LINE CABLES!

Designed to Provide
Definite Electrical
Characteristics

Insulated to insure maximum operating efficiency, resistance to ultra violet and weathering—especially adaptable to applications requiring high, very high and ultra high frequencies.



**300 OHM PARALLEL
TWIN CONSTRUCTION**



Catalog No. 22007

Best impedance match for rM receivers. Efficient over broad band television operations. 500 or 1000 ft. spools.

Catalog No. 22004

75 OHM Parallel Twin line—For amateur operation in narrow frequency bands or individual frequencies. 500 or 1000 ft. spools.

Catalog No. 22006

150 OHM Parallel Twin line—for special applications and experiments. 500 or 1000 ft. spools.

100 OHM LINE



Catalog No. 22008

Two flexible stranded bare copper conductors, parallel twin-lead construction; low-loss polyethylene insulation; tinned copper braid shield; vinyl plastic jacket.

COAXIAL CABLE



Also 72-OHM coaxial cable, nominal attenuation, stranded conductor (Inner conductor #22-7/30 B.G.) and 73 OHM coaxial cable, solid copperweld conductor (Inner conductor #22 solid conductor copperweld)

Send for PHALO Catalog

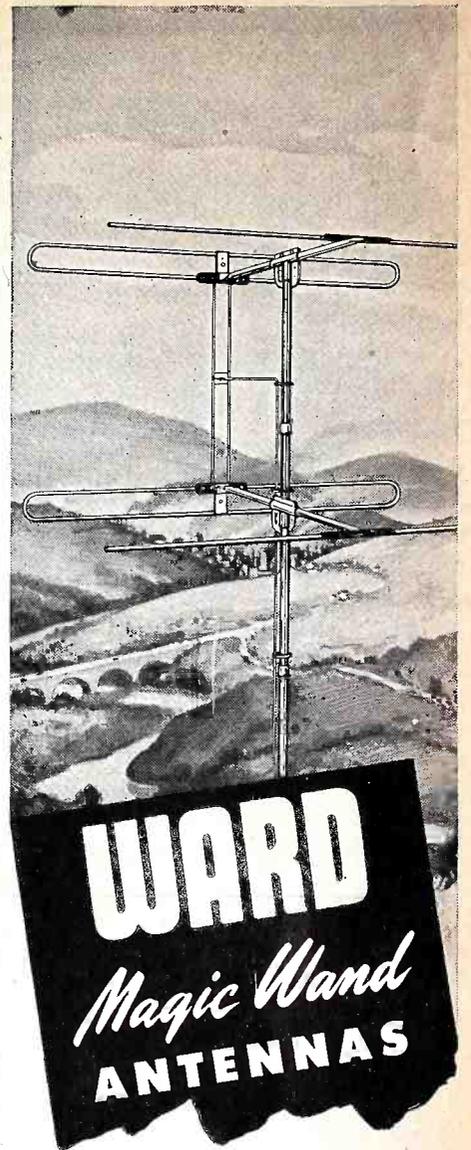
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Manufacturers of Insulated Wire, Cables, Cord
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**THE ONLY BROAD BANDED,
HIGH GAIN, STACKED ARRAY
ON THE MARKET**

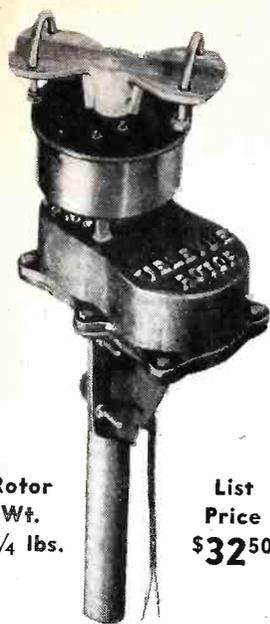
Many times more sensitive for TV reception in fringe areas and poor signal locations, the WARD TVS-6 STACKED ARRAY achieves maximum forward gain by stacking two high gain folded dipoles and reflectors with effective 1/2 wave spacing rather than the ordinary 1/8 or 1/4 wave which materially reduces sensitivity. THE ONLY STACKED ARRAY ON THE MARKET THAT IS BROAD BANDED, it will give excellent results with MANY CHANNELS where others are too selective. The advanced engineering and PRE-ASSEMBLED design of the WARD TVS-6 is only one of the reasons why WARD is the largest exclusive manufacturer of antennas in the world. See any leading parts distributor or write for catalog.

**THE WARD PRODUCTS
CORPORATION**

1525 E. 45TH STREET, CLEVELAND 3, OHIO.

**Simplify New TV Installations
Improve Existing TV Installations**

with the
**Finger-Tip Control
TELEVUE "ROTOR"**



Rotor
Wt.
4 1/4 lbs.

List
Price
\$32.50

One of the first post-war
manufacturers of custom-built
television receivers.

Dealer Inquiries Invited

TELEVUE

LAKESIDE, NEW JERSEY

The Televue "Rotor" is a precision instrument designed to operate with all TV receivers. It is constructed of durable, lightweight aluminum.

A properly oriented antenna will result in brighter, clearer and more sharply defined pictures; minimize echoes and ghosts; reduce external interference.

Televue "Rotor" offers on-the-channel control at your fingertip.

Other Design Features:

- Noise-Free Motor—offers full 360° orientation.
- Specially designed ELECTRO-MATIC CLUTCH for instant starting and stopping.
- Universal U-Bolt Mounts to fit most antennas and all masts up to 1 1/2 inches.
- Well balanced, rugged construction—does not need any additional guy lines.
- Momentary switch — On — only when button is depressed.
- Uses any 2-conductor, Low-Cost weather-proof wire.

Antennas available with
or without rotors

**CORPORATION
OF AMERICA**
Lakewood 6-2297

**Ghosts CAN
be eliminated!**

Use a **HI-GAIN
UNI-DIRECTIONAL ANTENNA**
with a very **Narrow Beam Width**

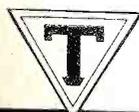
**The TRICRAFT MODEL "1000"
is just such an ANTENNA!**

Gives over **10 DB** Gain over a
half wave length dipole in the high band
and **5 1/2 DB** in the low.

- All wave
- Low standing wave ratio
- Sturdy construction
- Light weight
- Complete, ready to install
- Individually packed

A SPECIAL KIT AVAILABLE TO CONVERT
MODEL "300" INTO MODEL "1000"

"Tricraft" antennas are available at leading jobbers. If your
jobber cannot supply you, write us for nearest jobber.



Tricraft Products Co.

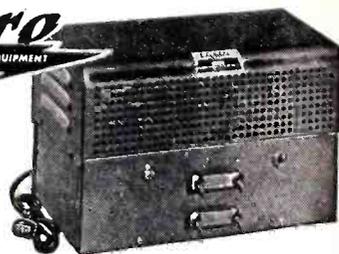
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Manufacturers of complete line of Television, FM and AM antennas and accessories

RUGGED! DURABLE!

**A POWER SUPPLY
THAT CAN REALLY "TAKE IT"**

ELECTRO
ELECTRICAL AND RADIO EQUIPMENT



MODEL "A"

6V 15 Amp. to 12V 7 1/2
Amp. DC filtered from
105V to 125V 60 cycle
power line.

This model has proper rectifier, choke coil, condenser and transformer to provide heavy instantaneous output and still maintain rated output under unusual load and heat conditions.

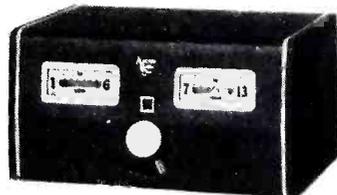
Ideal long life power supply for testing auto radios with solenoid tuning and tone controls; 12 volt marine and aircraft radios; telephone circuits, laboratory apparatus, etc.

Write for complete information

ELECTRO PRODUCTS LABORATORIES

Pioneer Manufacturers of Battery Eliminators
549 W. RANDOLPH ST. CHICAGO 6, ILL.

**HAVE YOU TRIED
THE ANCHOR
TV-PRE-AMPLIFIER?**



**DO YOU KNOW, THAT IT IS
NOT just another BOOSTER**

The Anchor TV-Pre-Amplifier is a thoroughly engineered and beautifully styled product . . . it will outperform similar equipment in its class.

TEST IT YOURSELF — FULL REFUND — IF NOT SATISFIED

A few of many
points of differences

- Simultaneous iron core tuning of grid and plate circuits
- 2 1/2 times average gain (voltage ratio)
- Guaranteed coverage of low and high television bands
- 4 MC. minimum bandwidth on all channels
- Impedance matching to receiver

**Advance notice
WATCH FOR OUR
indoor antenna
the**

"SUPER-TENA"

folded dipole
adjustable . . .
300 ohm match on any
TV frequency

COMPACT . . . EFFICIENT

Beautifully styled
Available shortly
Get your name on the list

**TURN BACK THE FRINGE ELIMINATE TROUBLE SPOTS
BRING GOOD TELEVISION TO APARTMENT DWELLERS**

Dealer aids
available

List Price \$35.00

Write for further
information
or see your jobber



**ANCHOR
RADIO CORP.**

2215 S. St. Louis Ave.
Chicago 23, Ill.

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for RADIO and TELEVISION Dealers

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Nelson Radio & Supply Co.
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ARIZONA

Radio Specialties & Appliance Corp.
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ARKANSAS

Home Appliance Distributors of Ark.
114 E. Bridge St., Little Rock

CALIFORNIA

Kierulff & Company
498 N. Fresno St., Fresno 3
Kierulff & Company
820-830 W. Olympic Blvd.
Los Angeles 15
Western Auto Supply Co.
1100 S. Grand Ave., Los Angeles 54
McCormack & Company
450 Ninth St., San Francisco 3

COLORADO

Boyd Distributing Co.
20 W. 13th Ave., Denver 4

CONNECTICUT

Post & Lester Co.
10 Chestnut St., Hartford 5

FLORIDA

Thurow Distributors, Inc.
15-17 E. Church St., Jacksonville
Thurow Distributors, Inc.
420 S. W. 8th Ave., Miami
Thurow Distributors, Inc.
131 S. Court St., Orlando
Thurow Distributors, Inc.
213 E. Tennessee Ave., Tallahassee
Thurow Distributors, Inc.
134-136 S. Tampa St., Tampa
Thurow Distributors, Inc.
308 S. Olive Ave. (shipping)
Box 3002 (correspondence)
West Palm Beach

GEORGIA

Edwards-Harris Co.
258 Peachtree St. N.W., Atlanta 3

ILLINOIS

Motorola-Chicago Co.
1330 W. Washington Blvd.
Chicago 7
Lofgren Distributing Co.
1202 Fourth Ave., Moline
Yeomans Distributing Co.
734 Main St., Peoria 2

INDIANA

Wall Distributing Co.
241 Pearl St., Fort Wayne 2
Gary Tire & Supply Co.
620 West 5th Ave., Gary
Falls City Supply Co.
535 N. Capitol Ave., Indianapolis

IOWA

Gifford-Brown, Inc.
106 First St. S.W., Cedar Rapids
Gifford-Brown, Inc.
1216-18 Grand Ave., Des Moines 9
Duke's Radio Co.
209 Sixth St., Sioux City 6

KANSAS

McGrew Distributing, Inc.
1312 E. Douglas Ave., Wichita 7

KENTUCKY

Falls City Supply Co.
315 Roland Ave., Louisville 3
Strickland Distributing Co.
113 N. Second St., Paducah

LOUISIANA

Industries Sales Corp.
2927 Jackson Ave., New Orleans 13
Dunckelman-Pace Co.
1417 Louisiana Ave., Shreveport 83

MAINE

Radio Service Laboratory
76 Exchange St., Bangor
Radio Service Laboratory
45A Free St., Portland 3

MARYLAND

Simon Distributing Corp.
128 W. North Ave., Baltimore 1

MASSACHUSETTS

Metro Distributors, Inc.
884 Commonwealth Ave., Boston 15

MICHIGAN

Ingram Distributing Co.
4490 Cass Ave., Detroit 1
Republic Distributing Co.
19 LaGrave Ave., S.E.
Grand Rapids 2

Radio Sales Company
218 N. Franklin St., Saginaw

MINNESOTA

Forster Distributing Co.
1122 Harmon Place, Minneapolis 3

MISSOURI

Motor Radio Company, Inc.
2440 Charlotte St., Kansas City 8
Disco Distributing Co.
2843 Washington Blvd., St. Louis 3

MONTANA

Central Distributing Co.
3007 Montana Ave., Billings

NEBRASKA

Mueller & Selby, Inc.
1024 Farnam St., Omaha

NEW HAMPSHIRE

Radio Service Laboratory
1191 Elm St., Manchester

NEW JERSEY

Kearns, Inc.
Harrisburg & Atlantic Aves.
Atlantic City
Motorola-New York, Inc.
177 Central Ave., Newark 4

NEW YORK

Hudson Valley Asbestos Corp.
170 Central Ave., Albany 6
Kemp Distributors, Inc.
1241 Main St., Buffalo
Motorola-New York, Inc.
33 West 60th St. (shipping)
146-150 W. 63rd St. (corres.)
New York 23
Kemp Equipment Co.
57 Mt. Hope Ave., Rochester 7
B. H. Spinney Co., Inc.
1115 W. Fayette St., Syracuse 4

NORTH CAROLINA

Freck Radio & Supply Co.
38 Billmore Ave., Asheville
Carolina Appliance Co.
P.O. Box 1997 (corres.)
224 S. Cedar St. (shipping)
Charlotte 1
Tire Sales & Service Co.
401 Hillsboro St., Raleigh

NORTH DAKOTA

Nash-Finch Company
Home Products Division, Fargo

OHIO

Lockie & Glenn
2110 Gilbert Ave., Cincinnati 6
The M & M Company
5200 Prospect Ave., Cleveland 3
The M & M Company
327 E. Broad St., Columbus 15
Moore Equipment, Inc.
226 Third St., Dayton 2
Christian-Sheidler Co.
Adams & 20th Sts., Toledo 2

OKLAHOMA

Wm. Mee Company
120 E. Grand Ave., Oklahoma City 2

OREGON

Eoff Electric Co.
509 N.W. 10th Ave., Portland 9

PENNSYLVANIA

Dibert Radio, Inc.
1713-15 Union Ave., Altoona
Motorola-Philadelphia Co.
50 N. Fifth St., Philadelphia 6
Electric Products, Inc.
5929-31 Baum Blvd., Pittsburgh 6
Big Boys Auto Parts Co.
123-129 S. Second St., Sunbury

RHODE ISLAND

I. Feldman Company
186 Broadway, Providence 3

SOUTH CAROLINA

Barron Distributing & Mfg. Co.
Stark Industrial Park, Charleston 58

SOUTH DAKOTA

Groff Motor Supply Co.
122-24 W. Seventh St., Sioux Falls

TENNESSEE

Bryant & Trimble, Inc.
406 Broad St., Chattanooga 2
Bryant & Trimble, Inc.
322 W. Magnolia St., Knoxville 17
Mills-Morris Company
171 S. Dudley St., Memphis 1
Currey's
109 16th Ave. S., Nashville 4

TEXAS

McDonald Auto Supply Co.
2nd & Polk Sts., Amarillo
Porter Burgess Co.
815 N. Pearl St., Dallas 1
Oakes Battery & Electric Co.
423 Texas St., El Paso
Fort Worth Battery Co.
615 Lamar St., Fort Worth 2
Moore Bros. Company, Inc.
3401 Milam St., Houston 6
Krisch-Delavan Co.
South Medina & San Luis
San Antonio 7

UTAH

The Salt Lake Hardware Co.
P.O. Box 510, Salt Lake City 9

VIRGINIA

Ashman Distributing Co.
807 Granby St., Norfolk 10
Lee Distributing Co.
1126 North Blvd., Richmond 20
Western Virginia Sales Co.
201-205 Second St., N.E., Roanoke

WASHINGTON

Motorola Distributing Co.
620 Eastlake Ave., Seattle 9
Tubbs Electric Co.
165 S. Post St., Spokane 8

WASHINGTON, D. C.

Simon Distributing Corp.
615 Pennsylvania Ave., N.W.
Washington 4

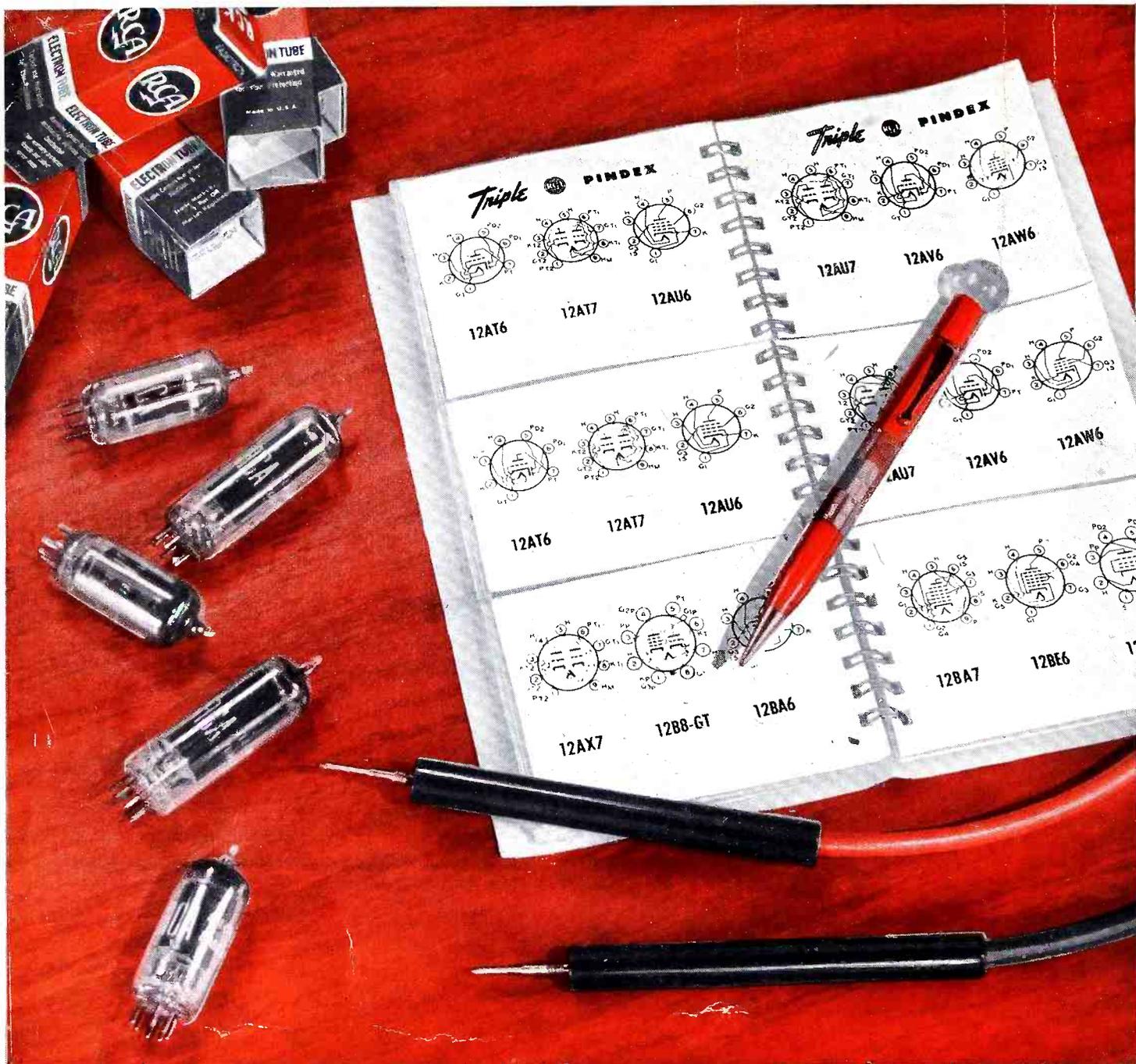
WEST VIRGINIA

Wilson Radio Distributing Co.
2520 E. Washington St.
Charleston 1
Jones-Cornett Electric Co.
Welch 1

WISCONSIN

Electra-Pliance Distributors, Inc.
2458 W. Lisbon Ave., Milwaukee 5

Motorola Inc.
4545 Augusta Blvd.
Chicago 51, Illinois



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HARRISON, N. J.