



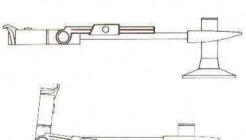




SPECIFICATIONS

The Model A1-500 tone arm is designed for use with records up to 12 inches in diameter. Model A1-501 is for use with records up to 16 inches in diameter and is designed for broadcast and professional use as well as for fine home music systems. Both arms are constructed of strong, lightweight aluminum for minimum lateral and vertical inertia.

The new General Electric "Baton" Tone Arms offer these outstanding features for the audio connoisseur:



- Cartridge pressure quickly and accurately adjustable by means of sliding weight.
- 2. Stylus pressure shown directly in grams on a calibrated scale.
- Cartridge head tilts upward 90° for easy stylus inspection.
- Precision Ball Bearing System—Lateral and vertical bearings are assembled using precision ball races. Bearings are dust proof and lubricated for lifetime use.
- 5. Outstanding Tracking Ability The exceptionally friction-free bearing system reduces to a minimum the amount of tone arm drag in tracking eccentric or warped records.
- 6. Spherical base mount permits perfect lateral balance.
- 7. No torsional resonances at all audible frequencies.
- 8. The cartridge head will accommodate all G-E Variable Reluctance Cartridges, including "Triple Play" models. Single cartridges mount on removable slides.
- 9. The height is adjustable up to 2 inches for various motor boards. DIMENSIONS: Model A1-500 - 10% inches long. Model A1-501 - 14% inches long.

NOTE: TWO PLUG-IN CARTRIDGE SLIDES ARE SUPPLIED WITH MODEL A1-501 AND ONE SLIDE WITH MODEL A1-500. CARTRIDGE SLIDE KIT RKF-012 IS AVAILABLE FOR THOSE WHO WISH EXTRA SLIDES.

General Electric High Fidelity "Baton" Tone Arms

Custom Music Ensemble

Model A1-500 for records up to 12" diameter

Model A1-501 transcription arm for records up to 16" diameter







Custom Music Ensemble

Model A1-200 high fidelity preamplifier control unit

Wood Cabinet

for A1-200 Unit



MODEL	FINISH			
A1-210B	blond oak			
A1-210M	MAHOGANY			
A1-210U	UNFINISHED CHERRY			

SPECIFICATIONS

The General Electric A1-200 Preamplifier Control Unit is a completely self-contained, self powered unit for high fidelity home music systems. It combines the functions of an equalized preamplifier for variable reluctance cartridges, plus adjustable record compensation, program input selection, individual bass and treble tone controls, and loudness control.

It is a matching unit for the G-E Model A1-300 Power Amplifier, and also may be used with other makes of basic power amplifiers.

FUNCTIONS OF THE 4 FRONT PANEL CONTROLS

- **1. Selector Switch** Combines the functions of a record compensator control, (positions 1-5) and program selection (positions 6 & 7). The positions are as follows:
- NOISY 78 A scratch filter position for noisy 78 RPM records. Has moderately sharp cutoff at about 4,000 cycles.
- 2. EUROPEAN 78 For 78 RPM English Decca, London and other European recordings.
- AES Conforms with the standard playback curve proposed by the Audio Engineering Society. This position is recommended for most types of records, including RCA Victor 33, 45 and 78 RPM.
- FLAT Maximum brilliance of reproduction is obtained in this position. When additional high frequency
 response is desired, the position may be used in conjunction with the desired setting of the "Treble" tone
 control.
- 5. LP Recommended for Columbia LP, recent London FFRR, and other records using the Columbia LP characteristic. Records employing the Columbia LP "curve" have somewhat greater high frequency pre-emphasis, and more bass, particularly below 100 cps, than records using the AES "curve." Therefore, the LP position introduces the required amount of high and low frequency attenuation to maintain balanced reproduction.
- RADIO For FM-AM tuner, A "stripped" tuner having no tone control is recommended for use with the General Electric A1-200 unit.
- 7. AUXILIARY For TV sound, tape recorder or crystal phono pickup.
- II. Treble Control-Continuously variable 15 db boost at 15,000 cycles 16 db attenuation at 15,000 cycles.
- III. Bass Control Continuously variable 13 db boost at 50 cycles 15 db attenuation at 50 cycles.
- IV. Loudness Control Compensates for reduced sensitivity of ear at both ends of audio range for low listening levels.

NOTE: A switch permits selection of conventional volume control in place of loudness control. This is a slide switch located at the rear of the chassis.

INPUTS

#1 for G-E variable reluctance pickups #2 FM-AM tuner #3 TV sound or tape recorder

3 TUBES PLUS RECTIFIER

1 - 6SC7,

1 - 12AX7, 1 - 12AU7.

1 - selenium rectifier

OUTPUT

2 volts nominal Output impedance 4,000 ohms Gain 46 db.

POWER SOURCE

105-120 volts, 50/60 cycles.

HARMONIC DISTORTION

Less than 1% (negligible)

OTHER FEATURES

2 AC power outlet receptacles AC on-off switch and pilot light 6-foot cord with plugs to connect signal to power amplifier





SPECIFICATIONS

This new 10-watt amplifier is designed as a high-quality basic "flat" high fidelity amplifier for home music systems. It is compact in size and has a luster plated chassis finish. A perforated metal cover with a blue lustre finish protects the chassis. Its narrow size enables it to be used in a convenient location.

DIMENSIONS: $12\frac{1}{4}$ inches long; $4\frac{1}{2}$ inches wide; $5\frac{1}{2}$ inches high.

APPLICATIONS

- with Model A1-300 Preamplifier Control Unit.
- with other preamplifier control units or FM-AM tuners having their own controls.
- as a "booster" amplifier for driving additional speakers in all types of audio systems.
- 4. as a "monitor" amplifier for broadcast and recording studios.

CIRCUIT FEATURES — Two important circuit applications reduce distortion to a minimum. 1. 15 db inverse feed-back loop.

2. split-load triode phase inverter to drive two 6V6GT tubes in push-pull output stage.

TUBES – There are 4 tubes and one rectifier as follows: 1-12AX7, 1-6C4, 2-6V6GT, 1-5Y3GT rectifier.

POWER SOURCE - 105 to 120 volts, 60 cycle. AC. 70 watts input.

OTHER FEATURES

HIGH IMPEDANCE INPUT

INPUT SENSITIVITY 2 valts for 10 watts output, with provision for

increasing sensitivity to 0.3 volts.

SPEAKER OUTPUTS

4, 8 and 16 ohms.

FREQUENCY RESPONSE

 $\pm 2db$, 30 - 15,000 cps.

HARMONIC CONTENT

less than 1% at 10 watts output at mid-frequencies.

INTERMODULATION CONTENT

less than 3% at 10 watts.

HUM AND NOISE LEVEL

-70db (below rated output).

Custom Music Ensemble

Model A1-300 10-watt high fidelity amplifier



Custom Music Ensemble

Model A1-400 high fidelity 12-inch dual coaxial speaker



SPECIFICATIONS

Coaxial Speaker Features

FREQUENCY RESPONSE — 40 to 15,000cps. IMPEDANCE — 8 ohms POWER RATING — 25 watts integrated program material BUILT-IN CROSSOVER SYSTEM CROSSOVER FREQUENCY 1800 CPS. SMOOTH RESPONSE REDUCED DISTORTION WIDE DISPERSION OF HIGH FREQUENCIES DIMENSIONS — 12% inches in diameter; 6% inches deep.

Tweeter Unit

Cone diameter -2% inches Alnico 5 ring magnet -6.8 ozs.

Woofer Unit

Diameter — 12 inches
Free air cone resonance — 60 cps.
Edge treatment for smooth response and long life
Alnico 5 ring magnet — 14.5 ozs.

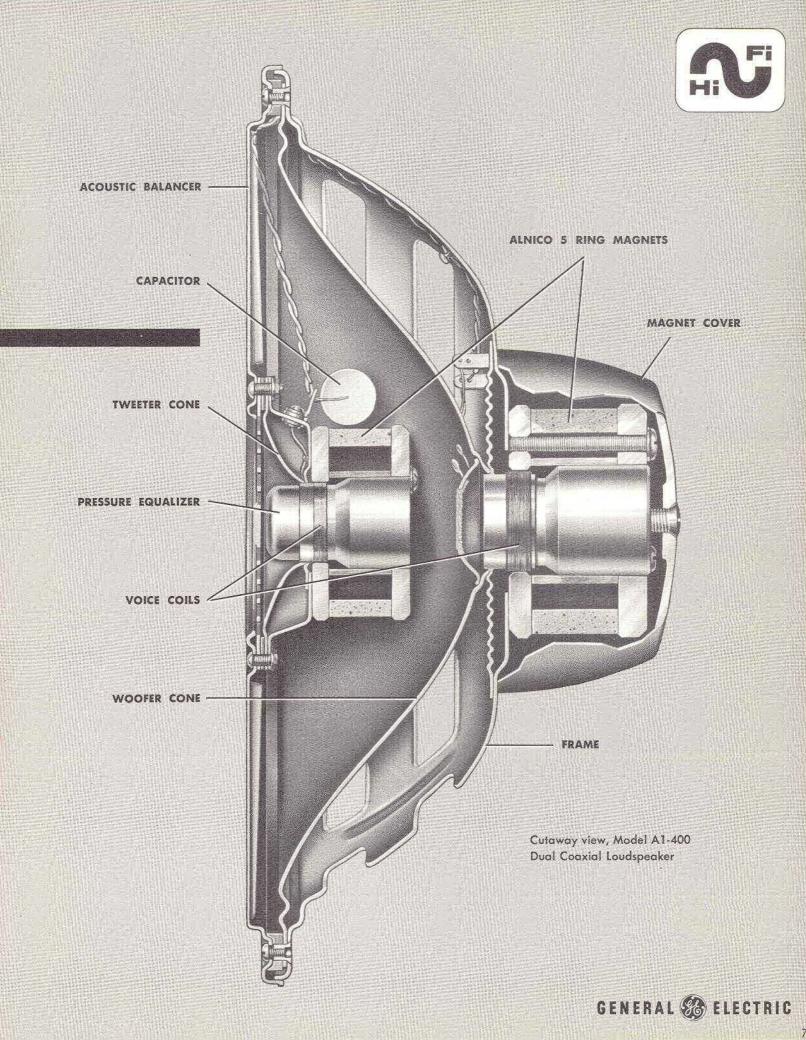
Model A1-400 is an exceptional wide angle dispersion loudspeaker for discriminating high fidelity enthusiasts and music lovers. A new concept of smooth, realistic reproduction is made possible by exclusive new General Electric developments in speaker design. Two outstanding features contribute to the startling performance of this new speaker.

ACOUSTIC BALANCER—The tweeter unit is mounted on a slotted baffle plate which serves as a tweeter baffle and reduces interference between the tweeter and woofer units. The slots are proportioned in such a way as to permit free woofer action, while contributing to the mechanical-electrical crossover system.

In addition, the slotted plate covers the entire front of the speaker. Its brown lacquer finish, with brass tweeter screen in the center, results in an unusually attractive appearance. The speaker may be "front mounted" on the speaker enclosure, thus enhancing the appearance of custom installations.

PRESSURE EQUALIZER—The pressure equalizer, located at the apex of the tweeter cone, does away with cavity effects. Transient and pressure response are improved, resulting in silken smooth performance of the tweeter, free from harsh peaks that so often add unnatural coloring to high frequency reproduction.

This speaker consists of two separate cone-type units coaxially assembled. The "woofer" unit handles frequencies up to the crossover point (1800cps.) and the "tweeter" unit takes over above this point.









Deluxe 12-inch High Fidelity Loudspeakers

Models 1201- A and 1203 - A

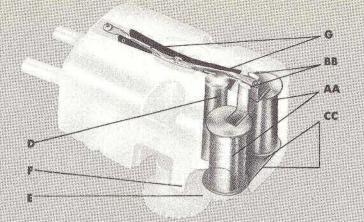
Designed by audio engineers and produced under exacting conditions of quality control, these excellent speakers meet the high standards of performance so essential to high fidelity. They will faithfully convert electrical energy from your record player, tape recorder or radio receiver into sound having all the emotional impact of the original. These speakers are ideal for use with the highest-quality FM-AM phonograph combinations, custom installations and professional equipment.

CATALOG NO.	1201-A	1203-A
MAGNET WEIGHT (Ozs.)	14.5	9.0
VC IMPEDANCE (Ohms)	8	8
VC DIAMETER (Inches)	11/4	11/4
MAXIMUM POWER (Watts)	25	25
CONE SIZE (Inches)	12	12
free air resonance (Cycles)	65	65
response (Cyclos)	50 to 13,000	50 to 13,000

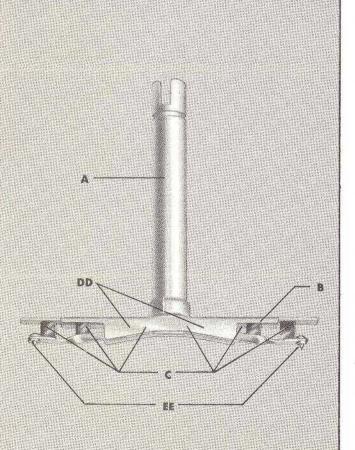


Phono Accessory Equipment

Cutaway views cartridge and stylus assembly



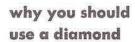
- AA Copper wire coils wound on nylon spools
- BB Laminations of high permeability alloy for ideal magnetic properties
- CC Yokes of same alloy
- D Alnico 5 magnet
- E Sturdy-plastic base
- F Mu-Metal case
- G Dual stylus assembly



- A Stylus pivot pin
- B Bronze guide
- C Six damping blocks
- **DD** Gold-plated stylus cantilevers
- **EE** Two styli



NEW STYLUS





There are three excellent reasons why a diamond stylus is your best buy:

- 1. A diamond is kind to your records.
- 2. Maintains optimum performance.
- 3. Gives longer life to both record and stylus.

All records, particularly the long-playing microgroove type, cause your stylus to wear. This eventually affects the life and performance of the record itself. Since the wearing stylus may escape detection for some time, the performance of the record may be seriously impaired.

Tests conducted on diamond styli have run hundreds of hours with no audible distortion and only highlights on the styli to indicate visible wear.





WORN STYLUS



 Remove cartridge from tone arm.



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



Insert new stylus into cartridge with fingers.

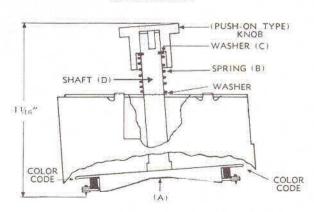


 Center tip between guardposts. Press firmly into position with thumbnail.

replacing the single stylus

REPLACING THE DUAL STYLUS

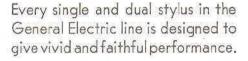
Insert dual stylus assembly into the cartridge and retain with finger-tip pressure applied only at lower shaft end ("A"). Assemble spring ("B") and depress until C-washer ("C") may be inserted in the slot on shaft ("D"). Do not replace the knob on the stylus shaft until the entire assembly has been placed in the tone arm.

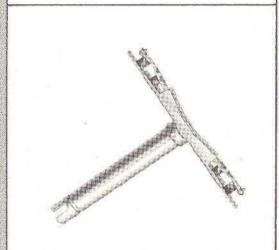






Single Stylus





Dual Stylus

The increased number of damping blocks combined with the double twist "Baton" design afford a fidelity unexecelled by any other commercially available stylus. Harmonic distortion, needle talk and needle scratch are virtually eliminated. Stylus pressure is very low, only 6 to 8 grams for all types of records.

G-E Wide-range Styli

Smooth performance

CARTRIDGE AND STYL

SINGLE TYPES

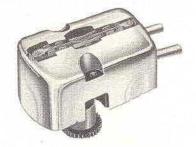
SINGLE (REPLACEMENT SINGLE STYLUS			
Description	Application	Cat. No.	Cat. No.	
WITH SAPPHIRE* * STYLUS 1 mil tip radius	Microgroove 33/45 RPM	RPX-041	RPJ-005	
3 mil tip radius	Standard 78 RPM	RPX-040	RPJ-001	
WITH DIAMOND STYLUS				
1 mil tip radius	Microgroove 33/45 RPM	‡RPX-061	RPJ-004	
3 mil tip radius	Standard 78 RPM	‡RPX-063	RPJ-003	

Golden Treasure Models.

^{**}Some sapphires are synthetic.

Special Single Styli for NA8 Broadcast Transcriptions
RPJ-002 2.5 mil diamond
RPJ-006 2.5 mil sapphire







4 single play cartridges are manufactured by General Electric in addition to 3 triple play cartridges for those who prefer the convenience of playing 33, 45 and 78 RPM records without changing the cartridge. Results. from the triple play cartridges are equal in every way to the single units - there is absolutely no compromise in performance. The triple play design offers both increased convenience and a cost saving.

General Electric "Golden Treasure" cartridges are sold with diamond styli with the exception of Model RPX-052 which has a 1 mil diamond and 3 mil sapphire. In addition, the metal cases are gold plated for lasting beauty.

CHECK THESE FEATURES OF ALL G-E CARTRIDGES

LOW RECORD WEAR WIDE RANGE PERFORMANCE EXTREMELY LOW DISTORTION QUIET OPERATION RETRACTABLE STYLUS LOW PRESSURE STYLUS

Low mass of moving system helps to reduce record wear to a minimum. Smooth performance when equipped with genuine G-E wide-range styli, Distortion is negligible as shown by intermedulation distortion measurements. Needle talk and needle scratch reduced to a minimum.

Stylus will retract if tone arm is dropped,

Only 6 to 8 grams is required for all G-E cartridges when equipped with genuine

G-E wide-range styli.

STABILITY AND DURABILITY Virtually unaffected by normal changes of temperature and humidity.

ELECTRICAL SPECIFICATIONS — Single and Dual Types

ELECTRICAL OUTPUT DC RESISTANCE IMPEDANCE AT 1000 CYCLES INDUCTANCE

Minimum open circuit voltage of 10 millivolts. 340 ohms.

3270 ohms. 520 millihenries.

SELECTOR CHARTS

DUAL "TRIPLE PLAY" TYPES

DUAL CA	REPLACEMENT DUAL STYLUS			
Description	Application	Cat. No.	Cat. No.	
WITH SAPPHIRE* * STYLUS	33/45 and 78 RPM	RPX-050	RPJ-010	
WITH DIAMOND STYLUS	33/45 and 78 RPM	‡RPX-053	RPJ-012	
WITH COMBINATION DIAMO 1 mil diamond 3 mil sapphire	ND AND SAPPHIRE* * STYLU	\$ #RPX-052	RPJ-013	

iGolden Treasure Models.

Spare knob kit RKP-009 contains plastic knobs, washers, and spring.

Special Dual Styli for NAB Broadcast Transcriptions RPJ-007 I mil and 2.5 mil sappire RPJ-001 1 mil and 2.5 mil diamond (U

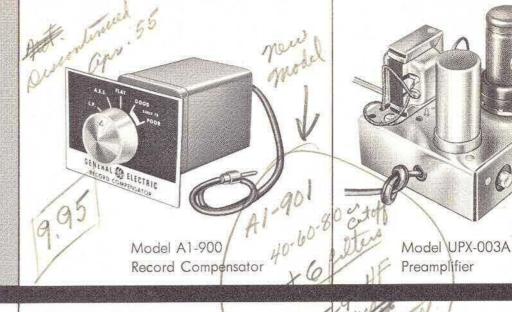
(Use 1 mil for microgroove and 2.5 mil for NAB Transcriptions)

G-E variable reluctance cartridges



^{**}Some sapphires are synthetic.





Record Compensator

Model A1-900

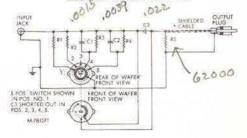
Self-Powered Preamplifier

Model UPX-003A

R, - 3900

The General Electric A1-900 Record Compensator is an adjustable high impedance passive network for use with standard type General Electric carridges. The five settings include two scratch filter positions for noisy records. No circuit loss is introduced by the use of the compensator. It is designed for connection between the pickup cartridge and the preamplifier input. The shielded leads from tone arm to compensator and from compensator to preamplifier should be kept short to avoid loss of high frequencies and hum pickup.

RECORD COMPENSATOR



Some preamplifiers are equipped with a cartridge loading resistor at the input circuit, connected directly from the center terminal of the input jack to chassis. This resistor must be removed when using the compensator.

LP POSITION – intended basically for use with Columbia 331/sRPM and modern Columbia 78RPM pressings.

AES POSITION — May be used to advantage with RCA 33, 45, and 78RPM recordings. It has somewhat greater bass (below 100cps) and treble response than the LP curve.

FLAT POSITION – For use when maximum brilliance is desired. May be used with records having low background noise and distortion.

GOOD (EARLY 78) – For old 78RPM records in good condition. Filters out record surface noise at all frequencies above 7,500cps.

POOR (EARLY 78) — For old 78RPM records in poor condition. Effectively reduces record scratch by filtering out frequencies above 4,000cps.

MECHANICAL DATA – A long threaded %'' diameter bushing is provided for mounting on a panel up to %'' thick. The unit may be mounted in any position.

Dimensions of case - 21/2" long; 2" wide; 2" high. Weight - 6 ozs.

Maximum depth required behind panel - 4".

SPECIFICATIONS

5 GAIN

35 db at 1,000 cycles

POWER SUPPLY

105-125 volts, 50-60 cps.

TUBE

1 type 6SC7

CHASSIS DIMENSIONS

 $3\frac{1}{4} \times 3\frac{1}{4} \times 1\frac{1}{4}$

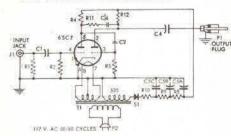
OVERALL HEIGHT

33/4" maximum

WEIGHT

11/4 pounds

SELF-POWERED PREAMPLIFIER



This preamplifier, operating directly from a 105-125 volt, 50-60 cycle AC power line, is completely self-contained and ready to operate when connected to a power source. An input jack for the G-E Variable Reluctance Cartridge is provided on one side of the chassis, and an output lead 14" long extends from the opposite side. The standard phonograph plug on the end of the output lead facilitates connection to an amplifier or receiver.



DISTRICT MANAGERS

CLAYTON RYDER General Electric Co. 963 Commonwealth Ave. Boston, Mass.

VICTOR S. SYZDEK General Electric Co. 410 Asylum St. Hartford, Conn.

STEPHEN J. WELSH General Electric Co. 570 Lexington Ave. New York City

GORDON RAHMES General Electric Co. 200 Main Ave. Clifton, N. J.

CHARLES A. RICHARDSON General Electric Co. 148 Clinton St. Schenectady, New York

ROBERT P. FISHER General Electric Co. 1405 Locust St. Philadelphia, Pa.

JOHN C. McGRANAGHAN General Electric Co. 4229 Lindell Blvd. St. Louis, Mo.

DON REIK General Electric Co. 777 14th St. Washington, D. C.

WILLIAM B. EVERY General Electric Co. 187 Spring St. Atlanta, Ga.

A. C. BOURGET General Electric Co. 187 Spring St. Atlanta, Ga.

EDWARD T. CONNOLLY General Electric Co. 710 Williamson Bldg. Cleveland, Ohio HENRY B. NELSON General Electric Co. 215 West Third St. Cincinnati, Ohio

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THOMAS A. REESE General Electric Co. 1146 Dexter Horton Bldg. Seattle, Washington

For Further Information

see your nearest G-E distributor

or write to the General Electric sales representatives listed on this page

You can put your confidence in_

GENERAL (%) ELECTRIC

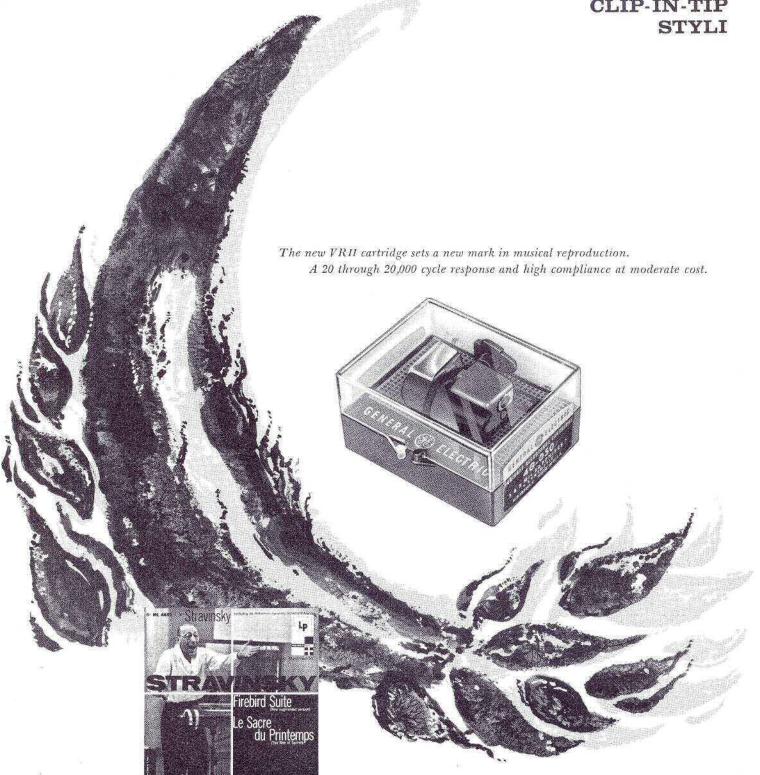
HIGH FIDELITY SECTION, RADIO AND TELEVISION DEPARTMENT ELECTRONICS PARK, SYRACUSE, N. Y.

ERP-53B

PRINTED IN U. S. A.



GENERAL ELECTRIC VRII CARTRIDGE WITH CLIP-IN-TIP



HECORD-COURTESY OF COLUMBIA



New VR II Cartridge for Full Brilliance in Sound Reproduction

FULL RANGE REPRODUCTION — the new improved design permits faithful reproduction from 20 through 20,000 cycles.

FOUR GRAM TRACKING FORCE – the sensitive compliance of the VRII has been increased to 1.7 x 10⁻⁶ cm per dyne permitting a tracking force of only 4 grams. This feature provides minimum record groove and stylus wear.

dramatic design
gives new heights
of performance
with these
exclusive features:

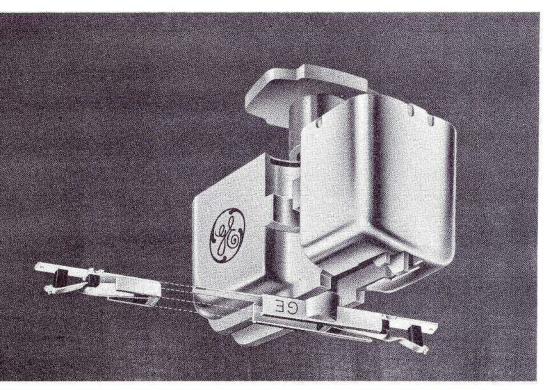
CLIP-IN-TIP STYLUS ASSEMBLY — with G-E Clip-in-tip stylus inserts, replacements can be made at home, instantly. This design means new economy and versatility, too. There is no need to discard an entire dual stylus assembly when only one tip is worn.

Single play cartridge inserts may be interchanged for LP or 78 rpm recordings.

RUGGED LIGHTWEIGHT CARTRIDGE

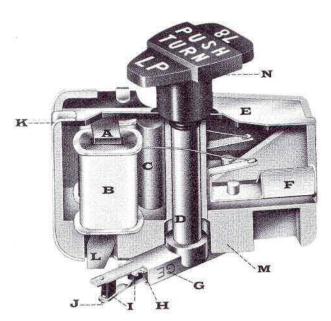
the construction of the VRII provides a minimum weight unit that will withstand a lifetime of constant usage under the most adverse conditions.

ELECTROSTATIC SHIELDING— prevents the pickup of electrostatic interferences and hum, as well as build-up of charges from the surface of the record.



GOLDEN TREASURE VRII CARTRIDGE WITH EXCLUSIVE CLIP-IN-TIP STYLI





A Highly permeable laminations

B Hum-cancelling wound coils

C Alnico V Magnet

D Pivot Post

F. Electrostatic Shield

F Plug-in Terminals

G "T"-Channel

H VRII Clip-In-Stylus

I Special G-E Damping Blocks

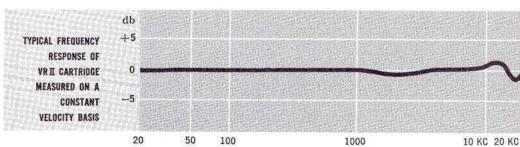
J Stylus Jewel

K Mu-Metal Electromagnetic Shield

L Magnetic Pole Pieces

M Plastic Body

N Triple Play Knob



SPECIFICATIONS

FREQUENCY RANGE: 20 through 20,000 cycles, see curve

OUTPUT VOLTAGE: 22 millivolts at 10 cm per sec. at 1000 cycles

LATERAL COMPLIANCE: 1.7x10-6 cm/dyne VERTICAL COMPLIANCE: 0.5x10-6 cm/dyne

INDUCTANCE: 520 mh nominal RESISTANCE: 600 ohms nominal

Maximum allowable range of shunt capacity:

Resistance	Load	Max	imum allowable shunt capacity
100K	ohms	300	mmf.
47K	ohms	400	mmf.
6.2K	ohms	1000	mmf.

For optimum response, it is preferable not to exceed 50% of the maximum capacity indicated above.

RECOMMENDED TRACKING FORCE 4-8 GRAMS*

1 mil stylus, high quality tone arm 4 grams 3 mil stylus, high quality tone arm 6 grams

*Record changers, using dual 1 & 3 mil styli should be adjusted to 6-8 grams force. Most modern changers will track well at 6 grams; older changers may require up to 10 grams for good tracking.

WEIGHT:	8 grams	9.5 grams
MOUNTING DIMENSIONS: designed for mounting centers	.438" min.	.500" max.
WIDTH:	9/16"	9/16"
LENGTH, less lugs	1-5/32"	1-5/32"
with lugs	1-1/2"	1-1/2"



CONTACT ADAPTOR

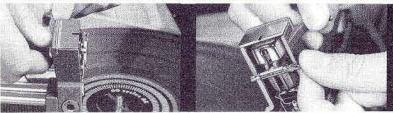
G-E Model A1-504 Adaptor is required when mounting VRII in G-E A1-500 or A1-501 Tone Arms. Weight of VRII Cartridge plus 3.5 gram weight of adaptor equals weight of G-E RPX Series Cartridge.



	WITH NEW "CLIP-IN-TIP" STYLUS ASSEMBLIES				89	CLIP-IN-TIP REP	LACEMENT ST		
	Catalog Number	Туре	Stylus Type & Radius in Inches	Application	Color Code	Catalog Number	Stylus Type & Radius in Inches	Application	Color Code
GOLDEN TREASURE VRII CART- RIDGES Single and triple-play cart- ridges with gold plated cases. Equipped with G-E CLIP-IN-TIP Stylus Assemblies.	4G-061 4G-063 4G-053 4G-052	Single play Single play Triple play Triple play	1 Mil Diamond 3 Mil Diamond 1 & 3 Mil Diamond 1 Mil Diamond 3 Mil Sapphire*	33 & 45 rpm 78 rpm 33, 45 & 78 rpm 33, 45 & 78 rpm	Black Violet Black-Violet Black-None	4G-01D 4G-02D 4G-03D	1 Mil Diamond 2.5 Mil Diamond 3 Mil Diamond	Microgroove Transcriptions 78 rpm	Black Yellow Violet
TRIPLE-PLAY VRII CARTRIDGE Equipped with CLIP-IN-TIP Dual Stylus Assembly, Chromeplated case.	4G-050	Triple play	1 & 3 Mil Sapphire*	33, 45 & 78 rpm	Red-None				
SINGLE-PLAY VRII CARTRIDGES Equipped with CLIP-IN-TIP Single Stylus Assembly. Chromeplated case. *some sapphires are synthetic	4G-041 4G-040	Single play Single play	1 Mil Sapphire* 3 Mil Sapphire*	33 & 45 rpm 78 rpm	Red None	4G-01S 4G-02S 4G-03S	1 Mil Sapphire* 2.5 Mil Sapphire* 3 Mil Sapphire*	Microgroove Transcriptions 78 rpm	Red White None

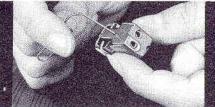
The VRII CARTRIDGE is available in single and dual types and is interchangeable with any G-E Cartridge of the RPX series. VRII STYLI are individually replaceable, but are not interchangeable with previous G-E Styli.

INSTANT CLIP-IN-TIP STYLI REPLACEMENT



TRIPLE PLAY CARTRIDGES

Simply raise the tone arm to permit free rotation of the CLIP-IN-TIP Stylus. With G.E.'s new design, replacement is made without removing stylus assembly from cartridge. The worn stylus insert slides out easily and you clip a new one in its place. That's all with a G-E CLIP-IN-TIP. No tools nor diagrams needed.





Cartridge may be removed from tone arm and stylus shaft raised with a paper clip. Simply replace the insert with a new stylus. A CLIP-IN-TIP can be used in all G-E Dual and Single-play cartridges.

SPECIALTY ELECTRONIC COMPONENTS DEPT. WEST GENESEE STREET • AUBURN • NEW YORK in Canada, write:

CANADIAN GENERAL ELECTRIC CO. 189 DUFFERIN STREET • TORONTO, CANADA

Progress Is Our Most Important Product GENERAL ELI

General Electric &

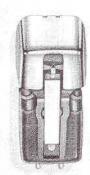




magnetic variable

reluctance high fidelity

cartridges



MODEL VR-225

(With ,5 mil diamond stylus for professional quality

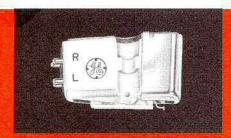
MODEL VR-227

(With .7 mil diamond stylus, for professional arms and record-changers)

VR-227 Red body .7 mil diamond stylus Outstanding in All Four Areas of Stereo Cartridge Performance...

Full, Flat Frequency Response, 20 Through 20,000 Cycles ± 3 db (Model VR-225) Unusually High and Consistent Channel Separation. Up to 28 db New Stylus Assembly for Optimum Compliance and Precision Tracking | New Triple Shielding for Positive **Hum Suppression**

VR-225 White body, .5 mil diamond stylus



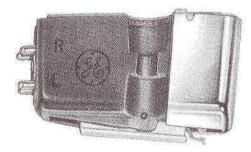
A masterpiece among stereo cartridges combining new design and manufacturing techniques with proven magnetic variable reluctance excellence...to provide every audio feature for highest quality reproduction of full-range, full-dimension stereophonic recordings.



For Highest Quality Stereo Reproduction...

Full, Natural Response — Flat (\pm 3 db) from 20 through 20,000 cycles (for VR-227, 20 through 17,000 cycles) for complete and realistic reproduction of all the music the ear can hear.

Consistent, Highly-Effective Separation Between Channels — Up to 28 db, for most effective reproduction of each of the two record groove channels, and best stereo effect. High separation at full frequencies which contribute to the stereo effect.



New Stylus Assembly for Optimum Compliance — New damping block assembly enhances ability of the VR-22 to track record grooves precisely.

New Triple Shielding — Mu-metal shields on top and entire front of cartridge body, and around coil assembly, to minimize possible hum pickup.

Excellent Channel Balance — Channel output within one db at 1000 cycles; closely balanced over entire frequency range. Provides equal output from both stereo channels for equal sound volume from both speakers and fully integrated stereo reproduction.

Extremely Low Distortion—Lack of resonant peaks in the audio range, and an essentially linear flux field, effectively minimize both harmonic and intermodulation distortion. This further enhances true, accurate reproduction of the music as it was originally recorded.

High System Compatibility — Highly-flexible design of ground strap allows use of the VR-22 Cartridges with either a three-wire or four-wire stereo system. The cartridge shield also may be grounded individually with a separate wire.

Easily-Replaceable Stylus—Pushes out easily and quickly, for replacement at home without special tools. . . . and . . . Excellent Monophonic Reproduction—The VR-22 Cartridges are highly compatible with monophonic microgroove records, and play them with outstanding quality.

SPECIFICATIONS*

(Similar for the ,5 mil diamond stylus Model VR-225 and the ,7 mil diamond stylus Model VR-227, except as noted.)

Frequency Response: 20 through 20,000 cycles, ± 3 db (VR-225); 20 through 17,000 cycles (VR-227).

Output: Six millivolts, nominal, at stylus velocity of 5 cm/sec.

Separation Between Channels: Up to 28 db.

Channel Balance, at 1000 Cycles: One db or better.

Inductance: 420 millihenries, nominal.

Resistance: 1640 ohms per channel, nominal.

Load: 47K-100K ohms, 62K optimum.

Lateral Compliance: 4 x 10-6 cm/dyne (VR-225); 2.5 x 10-6 cm/dyne (VR-227), nominal.

Vertical Compliance: 2,5 x 10-6 cm/dyne (VR-225); 2 x 10-6 cm/dyne (VR-227), nominal.

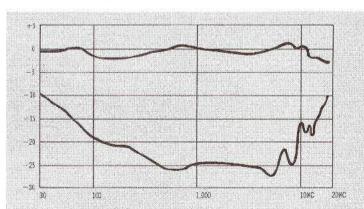
Tracking Force: Two grams minimum under optimum conditions — three grams for average use — four grams maximum (VR-225). Five to seven grams with VR-227.

Dimensions: Width, .575 inch; height, .7 inch including stylus tip; length, 1.18 inches.

Mounting: For 7/16 inch or 1/2 inch mounting centers. All measurements taken from R.C.A. Victor Stereophonic Test Record Number 12-5-71 and 12-5-73.

*VR-225 specifications are preliminary.

Due to constant product refinement, all specifications are subject to change without notice.



Typical frequency response and separation between channels of Model VR-227. (Performance of VR-225 exceeds the characteristics of the VR-227.)

AUDIO COMPONENTS PRODUCTS SECTION RADIO RECEIVER DEPARTMENT

WEST GENESEE STREET—AUBURN, N.Y.

in Canada, write:

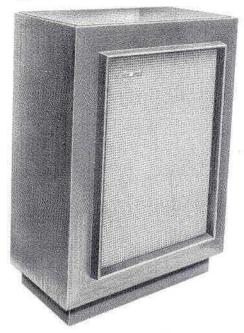
CANADIAN GENERAL ELECTRIC CO. 189 DUFFERIN STREET—TORONTO, ONTARIO

Decator 0 428-4311

Progress Is Our Most Important Product GENERAL



Monitoring Speaker, Type FS-1-B Studio Wall Speaker, Type FS-2-B Housing for FS-1-B Speaker, Type FS-4-A Cabinet for FS-2-B Speaker, Type FS-3-A



FS-1-B Monitoring Speaker (FS-4-A Cabinet)

APPLICATION

The FS-1-B Monitoring Speaker is designed for critical high-quality monitoring of broadcast program material in AM-FM and TV broadcast studios. It is ideally suited for every application requiring a pleasing, wide range response coupled with an attractive appearance. The FS-1-B Monitoring Speaker will provide unexcelled reproduction of music and speech in clients' rooms, control rooms, and studios. Its range extends from 50 to 13,000 cps.

The FS-2-A Studio Wall Speaker is a low cost speaker and housing combination for general purpose use in studios, offices, and recording rooms of broadcast studios.

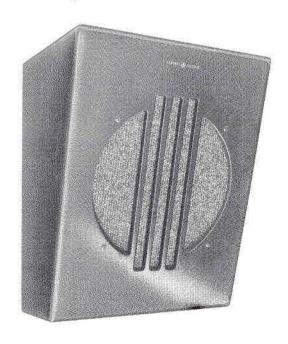
FEATURES

FS-1-B MONITORING SPEAKER

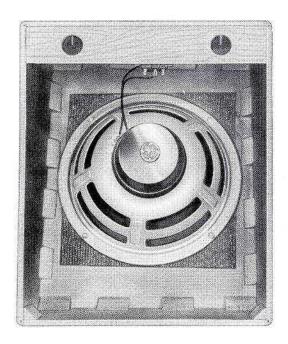
- 1. Rich full bass. Assured by use of ample cabinet volume and bass-reflex design.
- 2. Wide range response. Use of famous G-E speaker Type 1201A provides a uniform response, free from objectionable peaks, over the useful range of 50 to 13,000 cycles per second.
- 3. High wattage capacity. Non-warping aluminum foil base voice coil is unaffected by changes in moisture or temperature.
- Low driving power required. Speaker is highly efficient.
- Contemporary styling of cabinet. Carefully selected woods and contemporary cabinet styling complement the appearance of any studio.
- 6. Line-to-voice-coil transformer included.

FS-2-B STUDIO WALL SPEAKER

- Good sound distribution. Cabinet front sloped for best sound distribution.
- 2. Good frequency reproduction. Uses General Electric 1201A speaker.



FS-2-B Studio Wall Speaker (FS-3-A Housing)



FS-2-B Studio Wall Speaker, rear, Showing Voice Coil Transformer

- 3. Attractively styled cabinet. Attractive walnut-finish wood used in cabinet construction.
- 4. Line-to-voice-coil transformer included.
- 5. Economical. Speaker and cabinet combination low in price.

DESCRIPTION

The FS-1-B Monitoring Speaker is composed of the FS-4-A Monitoring Speaker Cabinet, a 1201A Loudspeaker, and an FA-42-A Line-to-Voice-Coil Transformer.

The speaker used in the cabinet employs a curvalinear molded cone for efficient dispersion of its wide range reproduction. The heavy Alnico V permanent magnet provides a high sensitivity with reliable, quiet operation.

The interior surfaces of the cabinet are treated with special sound-absorptive material.

While the cabinet is designed for floor mounting, it may be readily wall mounted, if required.

The FS-2-B Studio Wall Speaker consists of an FS-3-A Wall Speaker Housing, a 1201A Speaker and an FA-42-A Line-to-Voice-Coil Transformer.

The cabinet is especially constructed and braced for wall mounting. Its sloping front panel assures good distribution of sound when the speaker is located out of the way at or near ceiling level. Its external walnut finish harmonizes pleasingly with other studio fixtures.

A line-to-voice-coil transformer, included with this model, will provide correct matching to several line impedances or parallel speaker operation.

MECHANICAL SPECIFICATIONS

Units: FS-1-B Monitoring Speaker including floor cabinet, speaker, and line-to-voice-coil transformer.

FS-2-B Studio Wall Speaker, including wall mounting cabinet, speaker, and line-to-voice-coil transformer.

FS-3-A Wall Speaker Housing only.

FS-4-A Monitoring Speaker Cabinet only.

Dimensions: FS-1-B FS-2-B Speaker: 12" 12" Cabinet: Width: 25" 14\(\frac{5}{8}\)" Height: 26" 18"

Weight: 70 lbs approx. 10 lbs approx.

Mounting: FS-1-B. Floor mounting.

FS-2-B. Wall mounting with drilled holes to facilitate easy mounting or takedown.

Finish: Walnut.

Connections: FS-1-B and FS-2-B solder terminals on transformer taps.

ELECTRICAL SPECIFICATIONS

Performance:

FS-1-B and FS-2-B: Frequency response: 50-13,000 cps.

Power Handling capacity: 25 watts,
music and

speech.

Field: Alnico V permanent magnet, 14.5 ounces.

Transformer Input Impedance: 600/1200/1800/2400 ohms.

ORDERING INFORMATION

When ordering, please specify:

FS-1-B Monitoring Speaker. (The type number includes one FS-4-A Cabinet, one 1201A speaker, one FA-42-A Line-to-Voice-Coil Transformer, and Installation and Operating Instructions.)

FS-2-B Studio Wall Speaker. (The Type number includes one FS-3-A Wall Housing, one 1201A speaker, one FA-42-A Line-to-Voice-Coil Transformer, and Installation and Operating Instructions.)

FS-3-A Wall Speaker Housing. FS-4-A Monitoring Speaker Cabinet.

ACCESSORIES

FA-19-J Interconnecting Cable.



Cut-Away View, 1201A Speaker



G-E 1201A Speaker

APPLICATION

General Electric Loudspeakers are designed for critical high quality monitoring of broadcast program material in AM-FM and TV broadcast studios. They may be depended upon to provide excellent reproduction of music and speech in recording, control, and studio monitoring applications.

The Types 850, 1201A and 1203A Speakers are wide range speakers for use in broadcast control and studio monitoring.

FEATURES

1. High wattage handling capacity made possible by

use of non-warping aluminum foil base voice coils.

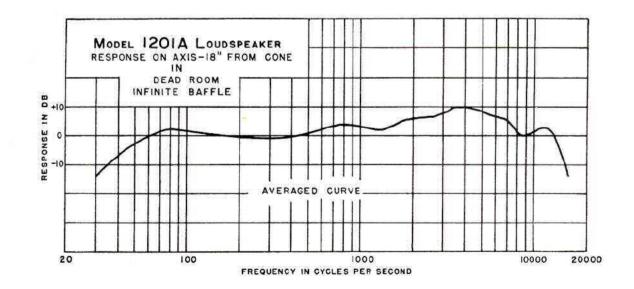
2. Faithful reproduction assured by molded, scientifically designed General Electric cones.

 High efficiency due to liberal use of Alnico V magnet material.

4. Rigidly constructed. All-welded construction insures rigidity and provides optimum controlled flux density.

5. Attractive appearance. Lustrous finish is specially protected to preserve beauty and effectiveness.

Wide range. The 1201A and 1203A Speakers uniformly cover the frequency range from 50 to 13,000 cycles per second.



DESCRIPTION

General Electric Loudspeakers are designed by audio engineers and produced under exacting conditions of quality control.

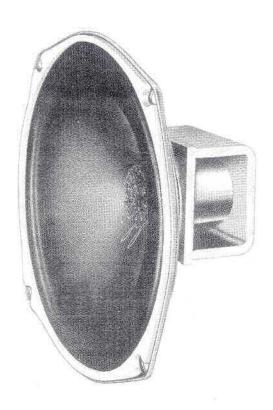
The Type 850 Speaker is a wide range unit, 8-in. in

diameter with a 15-watt handling capacity.

The Type 1201A and 1203A Speakers are wide range units, 12" in diameter and with 25-watt handling capacities. They differ only in their Alnico V magnet weight; the 1201A having a 14.5-ounce magnet compared to a 9-ounce magnet in the 1203A, with a consequent increase in efficiency in the 1201A.

All speakers employ non-warping aluminum foil base voice coils with molded, scientifically designed circular cones. All-welded frame construction is employed to insure rigidity and controlled flux density. Alnico V magnet material is used for increased efficiency.

Due to careful design and quality control in manufacture, these speakers offer a uniform response, with freedom from objectionable peaks over their useful response ranges.



G-E 850 Speaker

MECHANICAL AND ELECTRICAL SPECIFICATIONS

Units: Wide Range Speakers: 850, 1201A, 1203A.

Mounting: All speakers are equipped with four mounting holes on the circumference of the frame designed to accept No. 8 machine screws.

Dimensions and Weights:

	Ove	neter r-all ze	Mtg. Hole Centers	Ga to	epth isket Yoke Cover	W	pping eight
850	$7\frac{1}{3}$	9 #	75/8"	33	<u>/</u> "	2 lbs	10 oz
1201A	$12\frac{7}{3}$		$11\frac{9}{16}''$	57		6 lbs	8 oz
1203A	$12\frac{7}{3}$	2"	$11\frac{9}{16}''$	57	8"	5 lbs	2 oz
Type*	Size*	Shape* Cone	Alnico V Mag. Wt.	Power		V.C. Imp. Ohms	
** 850 **1201A **1203A	8" 12" 12"	Round Round Round	6.8 oz. 14.5 oz. 9.0 oz.	15w 25w 25w	1" 1 1/4" 1 1/4"	8.0 8.0 8.0	67/8" 1034" 1034"

^{*} The General Electric Company manufactures a complete line of original and replacement speakers in a variety of shapes, sizes, and ratings not shown here. For information concerning these latter speakers, please consult your local General Electric distributor.

**Wide range speakers recommended for broadcast studio and monitoring applications.

Connections: 1201A, 850 and 1203A—Screw terminals.

ORDERING INFORMATION

When ordering, please specify:
Type...... Wide Range Speaker

ACCESSORIES

FS-4-A Monitoring Speaker Cabinet (for 12" speaker). FS-3-A Wall Speaker Cabinet (for 12" speaker). FA-42-A Line-to-Voice-Coil Transformer. FA-19-J Interconnecting Cable.