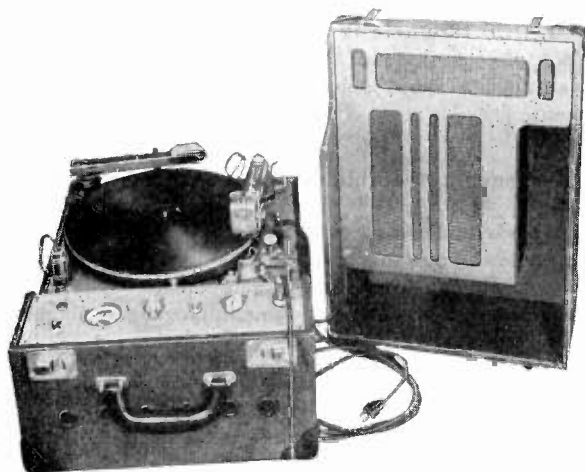




RECORDING CORPORATION

WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT AND DISCS

PRESTO K-10 RECORDER FOR MICROGROOVE AND REGULAR RECORDING



The PRESTO K-10 Recorder, formerly known as the K-8, the foremost machine of its kind to be used in schools for speech, voice, languages, dramatics, music, etc., is now offered for MICROGROOVE (long-playing) recording as well as the standard method.

Note these features:

- Cutting pitches of 112 lines per inch Outside-in, 112 lines Inside-out, 224 lines per inch Outside-in and 224 lines per inch Inside-out.
- Standard unit is equipped for two speeds, 33 1/3 and 78 rpm. Available for three speeds, 33 1/3, 45 and 78 rpm at additional cost.
- The cutting head is equipped with an advance ball which regulates the depth of the groove more accurately than a counter spring.
- Two interchangeable pick-up arms, one containing the MICROGROOVE head and the other containing the regular head. Each head is complete with a permanent sapphire stylus.
- A single control permits instant choice of recording, playback, or public address. Amplifier also contains radio and monitor jacks.

The PRESTO K-10 will, when set for MICROGROOVE, record 6 3/4 minutes on every inch of disc used. This means that a 15-minute recording with good fidelity can be put on one side of a 12" disc! And a half-hour can be put on one side of a 13 1/4" disc. Seven minutes can be recorded on one side of a 6 1/2" disc.

Price of K-10, less microphone and stand, \$348.00*.

No increase over K-8.

*\$5.00 additional for 45 rpm pulley and record adapter.

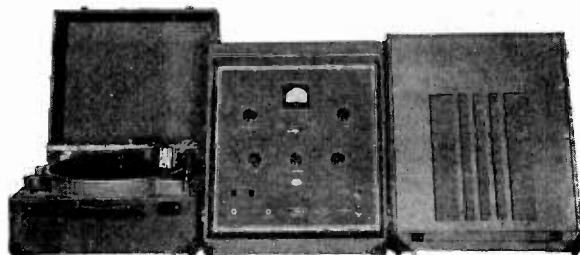
PRESTO "Y" RECORDER FOR MICROGROOVE AND REGULAR RECORDING

The PRESTO Y-3 is identical to the famous Y-2 but MICROGROOVE has been added. The following feed pitches are included with the Y-3: 112 lines per inch Outside-in, 112 lines per inch Inside-out, 224 lines per inch Outside-in, and 224 lines per inch Inside-out.

Other features are:

- Two interchangeable Pickering sapphire cartridges — for MICROGROOVE and regular recording.
- Advance ball on cutting head to accurately control depth of groove.
- 16" turntable — will take 17 1/2" masters.
- Standard unit is equipped for two speeds, 33 1/3 and 78 rpm. Available for three speeds, 33 1/3, 45 and 78 rpm at additional cost.
- Amplifier has connections for two microphones and two turntables. Output is 10 watts. Both high and low frequency manual equalizers are included.
- Ten-inch PM speaker and baffle are built into cover of amplifier.
- Presto high-fidelity 1-D cutting head.

When set for MICROGROOVE the Y-3 will record for 6 3/4 minutes on each inch of disc used. A fifteen-minute program can be put on one side of a 12" record. A half-hour on one side of a 16" record. Forty minutes can be recorded on one side of a 16" record by cutting to minimum diameter.

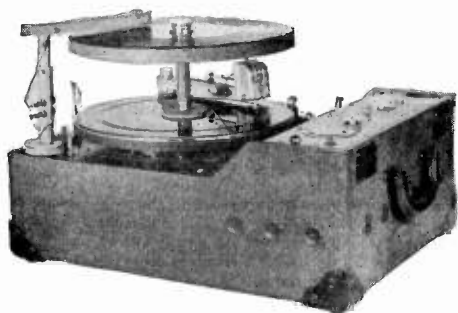


The price of the new Y-3 is \$741.00* (no increase over the former Y-2). The Y-3 is designed for high impedance microphones. If low impedance microphone inputs are desired, order Y-5, price \$771.00*.

Microphone and stands are not included as regular equipment.

*\$10.00 additional for 45 rpm pulley and record adapter.

TYPE 325-M RE-RECORDER



The Presto 325-M re-recorder is a device to be used with the Presto K-10 and Y-3 (and 5) recorders to copy (dub) recordings without the need of a separate turntable. The 325-M consists of a turntable and pedestal which is placed on top of the recorder turntable. The recorded disc is placed on this auxiliary turntable and a new blank disc on the recorder turntable. During re-recording, both discs rotate together. An extension is provided to elevate the pickup to the level of the auxiliary turntable.

Price of 325-M for K-10 or Y-3 (and 5) recorders
\$38.10 List.



RECORDING CORPORATION

WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT AND DISCS

3-SPEED MICROGROOVE AND STANDARD PLAYBACK TURNTABLE



Type 15-GCP

The Presto Type 15-GCP turntable is an unusually high quality unit for the reproduction of recordings at 33 1/3, 45 and 78 rpm. The design provides an instantaneous speed selection with a very convenient control arrangement.

FEATURES:

- Heavy cast aluminum 12" turntable accurately machined and balanced.
- Precision idler wheels and motor pulley.
- Good speed regulation—minimum "wow."
- Performance comparable to transcription equipment.
- Two pickups included—one standard and one microgroove. Sapphire stylii.
- May be connected to any radio or audio amplifier.

List Price complete \$75.00
Chassis only \$38.00



Model "L" Transcription Playback

This equipment is designed for radio stations, advertising agencies and program producers, who demonstrate recorded programs at the offices of prospective clients.

The Model L Playback was developed to meet the insistent demand among the larger broadcasting stations and agencies for "something better" in portable reproducing equipment. Those who use the Model L Playback in connection with important sales of station time and programs will consider its exceptional performance well worth its cost.

L-3—Portable Transcription Playback for regular and micro-groove records List, \$290.00

PRESTO DISCS AND NEEDLES FOR COMMERCIAL, EDUCATIONAL AND HOME RECORDING

PRESTO GREEN LABEL DISCS—ALUMINUM BASE

(All sizes packed in boxes of 30 discs)

Type	Size	Thickness	List Price ea.	Code
610-A	10"	.052"	\$1.15	ELVET
611-A	11 7/8"	.052"	1.80	THYRT
613-A	13 1/4"	.052"	2.25	SIHEV
616-A	16"	.056"	3.25	

PRESTO OVERSIZE MASTER DISCS—ALUMINUM BASE

(All sizes packed in boxes of 20 discs)

Type	Size	Thickness	Size of Pressing	List Price ea.	Code
627-A	17 1/4"	.066	16"	\$4.90	SEVYT

PRESTO BROWN LABEL DISCS

(Green label having only one side perfect)

*Packed 30 to box †Packed 20 to box.

Size	List Price, ea.
16"	\$2.25*
17 1/4" (Masters)	3.25†

PRESTO ORANGE LABEL DISCS

(Medium Aluminum Base—Overall Thickness .036")

Type	Size	List Price, ea.	Code (Box of 10)
306-A	6 1/2"	\$0.35	ORSIN
308-A	8"	.50	ORBAL
310-A	10"	.75	ORCAR
312-A	12"	1.00	ORDEL

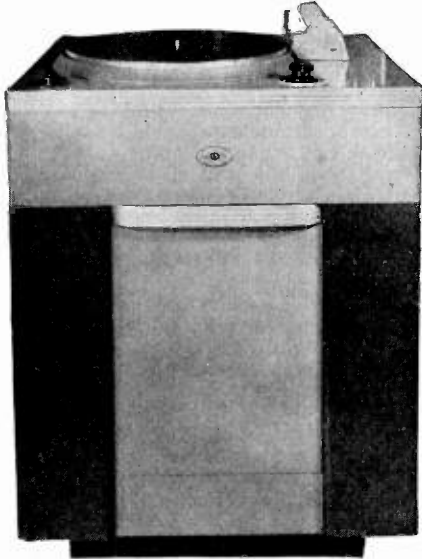
CUTTING AND PLAYING NEEDLES

Type and Number	List Price Per Needle
Sapphire Cutting Stylii	
320-A — Brass Shank—Short, (Box of 6)	\$6.00
320 MICRO—Same as above for MICROGROOVE	6.00
321-A — Brass Shank, Long, (Box of 6)	6.00
321 MICRO—Same as above for MICROGROOVE	6.00
603-A — Dural Shank—Short, (Box of 6)	8.00
603 MICRO—Same as above for MICROGROOVE	8.00
604-A — Dural Shank—Long, (Box of 6)	8.00
604 MICRO—Same as above for MICROGROOVE	8.00
Resharpener Sapphire	3.00
Stellite Cutting Stylii	
330-A — (Box of 6)	2.00
330 MICRO—Same as above for MICROGROOVE	2.00
331-A — (Box of 6)	2.00
331 MICRO—Same as above for MICROGROOVE	2.00
807-A — Resharpener Stellite Point	.75
Steel Cutting Stylii, Long and Short	
350-A — (Package of 3)	1.00
Sapphire Playing Needle	
420-A — Sapphire Playing Needle	1.25
420 MICRO—Same as above for MICROGROOVE	1.25
Transcriptone Playing Needle	
430-A — Transcriptone Playing Needle	1.00
Red Shank Playing Needles	
440-A — (Package of 25)	.25
440-B — (40 Packages of 25)	10.00

PRESTO RECORDING CORPORATION

WORLD'S LARGEST MANUFACTURER OF INSTANTANEOUS SOUND RECORDING EQUIPMENT AND DISCS

PRESTO 64-A TRANSCRIPTION TURNTABLE



A reproducer of any make may be installed on the 64-A Transcription Turntable

The Presto 64-A transcription turntable offers the following features which are of major importance to the owner and operator: Unusual mechanical simplicity . . . low mechanical disturbance . . . perfect speed accuracy . . . extreme ruggedness for long continuous operation . . . instantaneous selection of desired speed . . . and no requirements for mechanical adjustments.

This transcription turntable is directly gear driven and employs two separate motors, one for 33-1/3, and the other for 78.26 rpm. There is no friction device of any kind in the mechanism and no mechanical shift is required to change speeds. To select 33-1/3 rpm, 78 rpm or "off," the operator merely throws a three position switch. These changes may be made as rapidly as desired while the turntable is in motion with no damage to the mechanism. Only one motor at a time is in operation. The transmission "over runs" the motor which is not turning and thus does not carry it along in rotation although the stationary motor is never disengaged from the mechanism.

SPECIFICATIONS

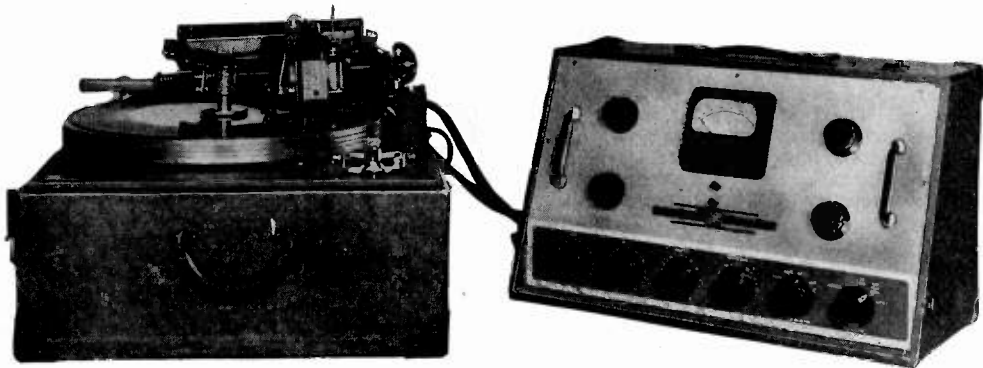
Standard Equipment: The 64-A transcription turntable includes the electro-mechanical gear drive, turntable and cabinet. A reproducer and network is not included.

Speed Accuracy: No deviation from 33-1/3 and 78.26 rpm.

Noise Level: Mechanical noise originating in the equipment over 50 db below program level.

Power Requirements: Approximately 75 watts from a 115 volt, 60 cycle line. Motors are of the 1800 rpm synchronous type and are available for other voltages and frequencies at additional cost.

Mounting: Turntable and gear drive mounted in heavy wood cabinet 24x24x33 inches (61x61x84 cm.). Finished in two tones of grey lacquer. List Price, \$495.00



PRESTO 6-N RECORDER AND 90-B AMPLIFIER

The PRESTO 6-N Recorder and 90-B Amplifier is the ideal recording equipment for portable or stationery operation.

The 6-N Recorder is outstanding in its suitability for broadcast stations because it offers all the qualifications for good recordings, including master records, at the most economical price. It is ideal for the station requiring delayed broadcast of network programs, and for reference recordings.

The 6-N standard equipment includes the Presto 1-D cutting head, spiraling feed screw, vertical damper, time scale and pick-up. It is available for microgroove recording at addition cost.

The Presto 90-B recording amplifier contains all the facilities necessary for operation on remote assignments, but with all overall performance found only in high-fidelity studio equipment.

It consists of three preamplifiers with individual gain controls, a mixer circuit, a master gain control and recording amplifier. Provision is made for connecting the Presto 161-A automatic equalizer (radius compensator).

A five-position selector switch provides the following characteristics: 1—flat response, 30 to 15,000 ± 1 db; 2—NAB 33 1/3 rpm recording; 3—present day 78-rpm recording; 4—NAB playback, and

5—automatic equalization. The flat response can be modified by variable bass and treble controls, giving emphasis up to a maximum of 20 db at 100 and 7,500 cycles per second or 20 db de-emphasis at 7,200 cycles per second.

Noise is 55 db below recording level and distortion at maximum output is less than 1.5%.

The use of input and output selector switches makes the 90-B amplifier unusually flexible. It permits combining the signals of three microphones or of two microphones and either one of two pick-ups. By using the "Line" position, recordings can be made from an incoming program line. The output selector has three positions; playback (public address), continuous recording and simultaneous recording. While recording, the line jack provides a monitoring outlet or permits feeding a program line at the correct level.

The correct level is monitored by means of a Weston Type 30 VU indicator with illuminated scale and its closely controlled electrical and dynamic characteristics make it an ideal volume indicator for recording.

List Price of 6-N.....\$735.00
List Price of 90-B.....595.00

GENERAL ELECTRIC

GENERAL ELECTRIC VARIABLE RELUCTANCE CARTRIDGE

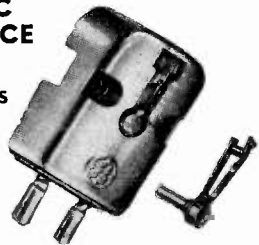
with replaceable stylus

STANDARD RECORDS
(3 mil tip radius)

Catalogue No. RPX-040

MICRO-GROOVE RECORDS
(1 mil tip radius)

Catalogue No. RPX-041



Performance engineered at Electronics Park, these cartridges provide record reproduction unsurpassed in quality. Low needle talk and needle scratch. Minimum distortion. Retracting stylus. Low record wear due to flexible suspension and low stylus pressure. Virtually unaffected by normal temperature or humidity variations.

Shipping Weight — 1/2 ounces..... List Price \$9.95

Also available in a Professional model (RPX-046) with low impedance to match broadcast equalizers. Furnished less stylus.

Shipping Weight — 1/2 ounces..... List Price \$11.45

G-E REPLACEMENT STYLI

Catalog Number	Stylus	Tip Radius in inches	List Price
RPJ-001	Sapphire	.003	\$3.50
RPJ-005	Sapphire	.001	3.50
RPJ-006	Sapphire	.0025	3.50
RPJ-002	Diamond	.0025	27.50
RPJ-003	Diamond	.003	27.50
RPJ-004	Diamond	.001	27.50



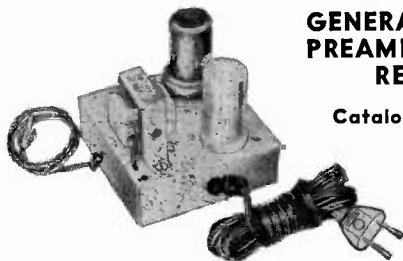
GENERAL ELECTRIC TRIPLE PLAY CARTRIDGE

Catalogue No. RPX-050

The RPX-050 plays 33 1/3, 45 and 78 RPM records without changing its position in the tone arm. Uniform stylus pressure of 6 to 8 grams for all 3 types of records. This, plus the low mass is valuable in minimizing record wear. Retaining the unexcelled frequency response characteristics of previous G-E Variable Reluctance Cartridges, the RPX-050 is also notable for low needle talk and needle scratch. Output impedance is the same as RPX-040 and RPX-041.

Shipping Weight — 2 ounces..... List Price \$13.95

Replacement Styli RPJ-010
(1 mil & 3 mil Sapphire)..... List Price 5.95



GENERAL ELECTRIC PREAMPLIFIER WITH RECTIFIER

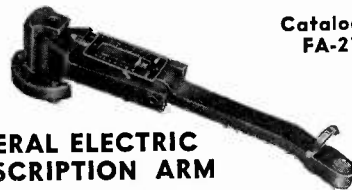
Catalog No. UPX-003

The UPX-003 Phono Preamplifier, which operates directly from a 105-125 volt, 50-60 cycle AC power line, is designed for use with the General Electric Variable Reluctance Cartridges. It provides sufficient amplification and the necessary low frequency equalization to enable Variable Reluctance Cartridges to be used with standard receivers and amplifiers.

Shipping Weight — 1 1/2 lbs..... List Price \$15.95

Also available without rectifier as SPX-001, designed to take its power requirements (6.3 volts AC, 100DC) from the receiver or amplifier with which it is used. Leads and jacks provided for attachment to chassis and Variable Reluctance Cartridge.

Shipping Weight — 1 lb..... List Price \$9.90



Catalog No.
FA-21-A

GENERAL ELECTRIC TRANSCRIPTION ARM

The General Electric Transcription Arm, designed to mount the G-E Variable Reluctance Cartridges, is for use by those desiring the utmost in quality reproduction of lateral transcriptions and records.

The G-E Transcription Arm is designed for optimum performance of lateral transcription and recordings only. It contains no design compromise such as are necessary if provision for vertical reproduction is also incorporated.

The mass of the transcription arm has been reduced to the ultimate point by careful mechanical design and the use of magnesium alloy for the moving parts. Very low bearing friction in both the lateral and vertical planes is assured by precision, hand-adjusted cone-type bearings.

Shipping Weight — 2 1/2 lbs.

Suggested professional user's price \$41.00

An arm counterweight, Catalog No. RWP-001, is available to adapt the FA-21-A for long-playing records.

Suggested professional user's price \$3.85



GENERAL ELECTRIC PICKUP FOR LONG PLAYING RECORDS

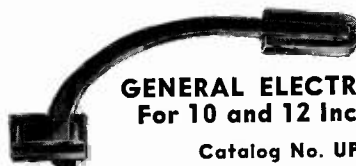
with the New
Variable
Reluctance
Cartridge

Catalog No. UPX-004

This G-E pickup has been designed specifically for use with long-playing records. The cartridge has a special high-compliance, low-mass stylus arm assembly, and a precision-ground highly-polished sapphire stylus. To keep the tone arm mass low, the arm has been made as small as possible, and the construction material is a special lightweight alloy.

Smooth lateral movement with a minimum of drag is assured by ball-bearings and a long bearing surface, protected by a dust cover.

Shipping Weight — 1/2 lb..... List Price \$15.95



GENERAL ELECTRIC PICKUP For 10 and 12 Inch Records

Catalog No. UPA-004

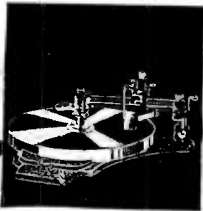
Especially designed for and equipped with the G-E Variable Reluctance Cartridge, this new pickup is an extremely fine unit for the improvement of record players.

Matched with the Variable Reluctance Cartridge, this product provides excellent performance — with installation simplified and proper balance assured.

It provides the best compromise between minimum tracking error and overall dimensions.

The unit is balanced at the factory to provide 1 oz. stylus pressure and may be adjusted if desired.

Shipping Weight — 1 lb..... List Price \$15.95



REK-O-KUT COMPANY INC.

AMERICA'S MOST POPULAR LINE OF RECORDERS AND TRANSCRIPTION EQUIPMENT



"CHALLENGER" PROFESSIONAL 13 1/4" DISC RECORDERS FOR STANDARD AND MICRO-GROOVE RECORDING

The "CHALLENGER", America's finest professional 13 1/4" disc recorder, embodies the most advanced design, engineering and production techniques in the disc recording industry. The many exclusive operating features built into the "CHALLENGER" simplify and improve the art of disc recording. The "CHALLENGER" is offered in three models:

STANDARD ★ CUSTOM ★ DELUXE

representing a choice in the recording facilities necessary to meet the respective needs of the Professional Recordist, Musician, Educator and Recording enthusiast.

SPECIFICATIONS:

1. OVERHEAD RECORDING MECHANISM: Permits interchanging leadscrews.
2. 16" PICKUP: For playback of transcriptions in addition to standard and long playing records.
3. FINGERTIP SPEED CONTROL: For instantaneous selection of 78 and 33 1/3 speeds.
4. SPIRAL GROOVE: A run-in, run-out and locked groove, made with a simple manual operation.
5. SPEAKER: Built to Rek-O-Kut specifications for extra power and range, mounted into the detachable cover of the case.
6. AMPLIFIERS: Equipped with either the R-5A six tube or R-8A eight-tube high fidelity, as described below.
7. CASE: Plywood covered with grey leatherette, built to withstand rough usage.
8. DIMENSIONS: 25" x 22" x 12". Shipping Weight: 80 lbs.

Model		
STANDARD MODEL	— With R-5A six-tube amplifier.....	
CUSTOM MODEL	— With R-8A eight-tube amplifier, variable reluctance magnetic pickup.....	
DELUXE MODEL	— With R-8A eight-tube amplifier, variable reluctance magnetic pickup, and Hysteresis Synchronous motor.....	
M12-192	— Additional Micro-Groove Leadscrew.....	
TR-103A	— Idler and Adapter for 45 RPM.....	
		Net Price
		\$329.95
		369.95
		399.95
		17.95
		6.00



R-8A UNIVERSAL RECORDING AMPLIFIER

FREQUENCY RESPONSE: ±1 db from 30 to 20,000 cycles at normal setting of equalizer controls.

POWER OUTPUT: 13.5 watts at less than 3% total distortion into resistive load.

TREBLE EQUALIZER: Boost of 14 db and attenuation of 15 db above 8,000 cycles, continuously variable.

BASS EQUALIZER: Boost of 14 db and attenuation of 14 db below 50 cycles, continuously variable.

INPUT CHANNEL: Four: 2 high impedance microphones, phono channel compensated for G.E. or Pickering pickup, radio. Switch on rear of chassis changes phono channel for crystal pickup operation.

GAIN: Microphone: 120 db, Phono: 90 db, Radio: 80 db.

OUTPUT IMPEDANCE: 4, 8, 15, 125, 250, 500 ohms for cutter and speaker.

OUTPUT SELECTOR: Three positions providing: recording, play-back and public address. Microphones are muted in play-back position.

MONITORING: A switch is provided giving three positions of monitor level: off, medium, loud. Speaker or headphones may be used. Meter on front panel indicates correct recording level.

HUM AND NOISE: 64 db below 13.5 watts with all controls turned for maximum hum and noise output.

CONTROLS: Microphone "A," microphone "B," radio-phone fader, output selector, treble equalizer, bass equalizer, monitor.

TUBE COMPLEMENT: (2) 6SJ7; (2) 6SL7; (1) 6SC7; (2) 6V6; (1) 5Y3.

POWER SUPPLY: 105-125 volts, 50-60 cycles.

POWER CONSUMED: 100 watts.

DIMENSIONS: Panel: 19" x 6 1/4" — Chassis: 17" x 8 3/4".

WEIGHT: 17 lbs.

Price — \$129.95 Net inc. tubes

R-5A UNIVERSAL RECORDING AMPLIFIER

FREQUENCY RESPONSE: ±1 db from 50 to 15,000 cycles at normal setting of equalizer controls.

POWER OUTPUT: 12 watts at less than 3% total distortion into resistive load.

TREBLE EQUALIZER: Boost of 14 db and attenuation of 15 db at 8,000 cycles, continuously variable control.

BASS SELECTOR: Attenuation of 14 db at 50 cycles, switch type.

INPUT CHANNELS: Three: high impedance microphone, high impedance phono pickup and radio.

GAIN: Microphone: 125 db, Phono: 76 db, Radio: 76 db.

OUTPUT IMPEDANCE: 2, 4, 8, 15, 500 ohms for cutter and speaker.

HUM AND NOISE: 64 db below recording level.

MONITORING: A switch is provided giving two positions of monitoring level or monitor may be cut out. Speaker or headphones may be used. Meter on front panel indicates correct recording level.

OUTPUT SELECTOR: Three positions providing: recording, play-back and public address. Microphone is muted in play-back position.

CONTROLS: Microphone gain, phono-radio fader, output selector, equalizer, bass, monitor.

TUBES: (1) 6SJ7; (2) 6SL7; (2) 6V6GT; (1) 5Y3GT.

POWER SUPPLY: 105-125 volts, 50-60 cycles.

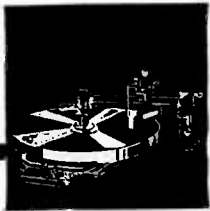
POWER CONSUMED: 80 watts.

DIMENSIONS: Panel: 19" x 6 1/4" — Chassis: 17" x 8 3/4".

WEIGHT: 16 lbs.

Price — \$89.95 Net inc. tubes

Case, optional, \$17.95 Net

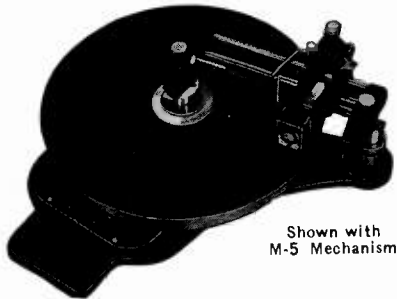


REK-O-KUT COMPANY INC.

AMERICA'S MOST POPULAR LINE OF RECORDERS AND TRANSCRIPTION EQUIPMENT

MODEL V DELUXE DUAL SPEED 16" RECORDING TURNTABLES

An outstanding value in the recording field. Ruggedly constructed and precisely machined, the model "V" deluxe turntable will maintain the constant, wow-free speed and smoothness demanded in broadcast work. The models M-5S, M-5 and the M-16 Overhead Cutting Mechanisms are mounted to the "V" and "VM" turntables in a matter of moments.



Shown with M-5 Mechanism

- MOTOR:** New Hysteresis synchronous type equipped with lamitex pulley for synchronous speed and maximum drive. Suspended in sheer shock mounts to prevent transmission of motor vibration to turntable or chassis.
- TURNTABLE:** Normalized aluminum alloy casting, lathe turned and balanced.
- CHASSIS:** Cast-iron ribbed L beam type with socket for instantaneous installation of M-5 or M-5S recording mechanisms.
- IDLERS:** Double-duty type made of Neoprene compound provides maximum traction. Will not glaze under operating conditions.

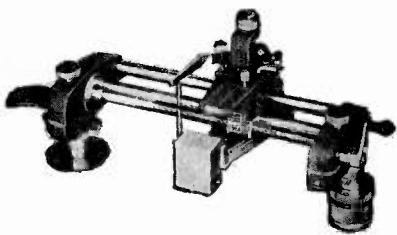
SPECIFICATIONS:

- OILING:** Shafts and bearings are self-oiling. Require infrequent periodic lubrication.
- SPEED CHANGE:** Mastermatic self-locking instantaneous speed shift.
- DIMENSIONS:** Length: 20"; Width: 20"; Height: 2½" above motor board; 5" below motor board; Weight: 28 lbs.

Model	Net Price
"V-Deluxe"	\$195.45
"MV" Equipped with induction motor and manual shift	140.00
"V103A" 45 RPM Idler	8.00

MODEL M-5S MASTER-PRO 16" OVERHEAD RECORDING MECHANISM

A precise tool for professional work. Working surfaces and moving parts are hardened, ground and polished to a micro finish. The Master-Pro is a universal machine that can be readily attached to all 16" recording turntables as well as the Rek-O-Kut models "V" or "MV" recording tables.



- TILT AND LEVEL ADJUSTMENT:** Enables the operator to level and square his unit to disc in a matter of moments.
- DUAL CLUTCH SPIRALING CONTROL:** A fool-proof device which eliminates the danger of spoiling a record while the crank-handle is in motion.
- MICROMETER DEPTH ADJUSTMENT:** For positive depth control of the cutting head.
- LEADSCREW:** Stainless steel with matched bronze feednut.
- ANGLE OF CUT:** Is controlled by a simple micrometer adjustment.

SPECIFICATIONS:

- GEARS:** Drive gears completely enclosed to prevent fouling by loose chips. Standard units are equipped with 8-ohm magnetic cutter and 120-line O.L. Leadscrews.
- DIMENSIONS:** Length: 16"; Width: 6½"; Height: 9"; Weight: 11 lbs.

Model	Net Price
M-5S With Spiral	\$215.00
M-5 Less Spiral	175.00
Micro-Groove Leadscrews	
MS-210 For M-5S	47.50
M-210 For M-5	36.25

MODEL TR-12, DUAL SPEED 12" RECORDING TURNTABLE

The first 12" dual speed recording turntable of professional quality offered to the recording field. Design and construction of the model TR-12 is similar to the Rek-O-Kut 16" professional recording tables. The model M-12 overhead recording mechanism is mounted to the chassis in a few moments.



Shown with M-12 Mounted

- TURNTABLE:** Aluminum, lathe turned and balanced.
- CHASSIS:** Cast aluminum. Drilled and tapped for instantaneous mounting of the M-12 recording mechanism.
- MOTOR:** High Powered, heavy duty, constant speed, fitted with a lamitex drive pulley. Suspended in sheer shock mounts to prevent transmission of motor vibration.
- SHAFTS:** Hardened, ground and polished to a micro-finish.
- DRIVE:** Internal rim drives through double-duty Neoprene drivers, insures free, smooth and quiet operation.

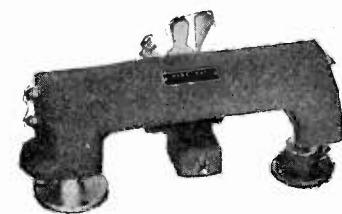
SPECIFICATIONS:

- SPEED CHANGE:** Instantaneous speed shift engages either the 78 or 33½ RPM idler.
- FINISH:** Beautiful blue grey wrinkle.
- DIMENSIONS:** L.: 14½"; W.: 16½"; Weight: 17 lbs.; Height: 1¾" above motor board. 5" below motor board.

Model	Net Price
TR-12 With induction motor	\$ 89.50
TR-12H With hysteresis synchronous motor	119.50
T103A 45 RPM Idler and Adapter	6.00

MODELS M-12 AND M-16 OVERHEAD RECORDING MECHANISMS

Model M-12 brings a truly professional machine within the reach of the recording enthusiasts and professionals who need a small machine capable of cutting up to 13¼" master discs. Model M-16—Same design and construction, is for use with 16" turntables.



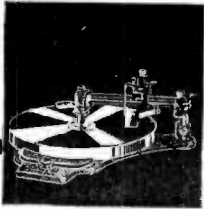
- SPIRAL GROOVE:** A run-in, run-out and locked groove made with a simple manual operation.
- LEADSCREW:** Stainless steel, lapped to a matched feednut which is in constant mesh.
- LIFT-O-MATIC:** Automatically lifts cutter from disc as it approaches end of leadscrew.
- MAGNETIC CUTTER:** Flat from 40 to 7,000 cycles.

SPECIFICATIONS:

- DIMENSIONS:** (a) M-12—L.: 11¼"; W.: 4¼"; H.: 6". (b) M-16—L.: 14"; W.: 4¼"; H.: 6".

Model	Net Price
M-12	\$ 89.50
M-16	119.50
Micro-Groove Leadscrews	
M-12-192 12"	17.95
M-16-192 16"	22.95

Standard units equipped with 8-ohm cutter and 108-Lpi O.L. leadscrews.



REK-O-KUT COMPANY INC.

AMERICA'S MOST POPULAR LINE OF RECORDERS AND TRANSCRIPTION EQUIPMENT

MODEL "G-2" DELUXE 16" TRANSCRIPTION TURNTABLES

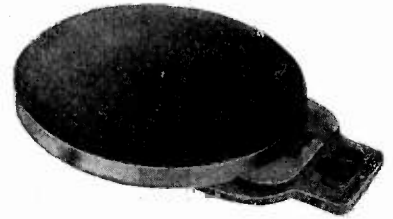
The model "G-2 Deluxe" Transcription Turntable is acknowledged without reservation by the broadcasting industry to be the finest rim-driven turntable on the market. The rigid tolerances of speed variations for network programs are easily met by the "G-2 Deluxe."

OPERATING DATA:

1. **STARTING:** From standing start to 78 rpm $\frac{3}{4}$ of a turn. From standing start at 33 $\frac{1}{3}$ rpm $\frac{1}{4}$ of a turn.
2. **NOISE LEVEL:** 50 db below maximum recording level.
3. **CUEING:** 15 $\frac{3}{4}$ " turntable permits the record to overlap $\frac{1}{8}$ " which enables the operator to cue from the rim of the disc.
4. **SPEED REGULATION:** Speed variation less than $\frac{1}{2}$ of 1% required under NAB standards. "Wow" content less than 1/10 of 1% permitted under NAB standards.
5. **CONSTRUCTION:** (A) Precision lathe-turned balanced turntable. (B) Hysteresis synchronous motor with Lamitex pulley for maximum drive. (C) Double-duty

- Neoprene idlers. (D) Cast-iron L beam no twist chassis. (E) Mastermatic self-locking instantaneous speed shift. (F) All shafts hardened, ground and polished to a micro finish.
6. **DIMENSIONS:** L.: 16"; W.: 20"; H.: 2 $\frac{1}{2}$ " above motor board; 5" below motor board. Weight: 26 lbs.

Model	Net Price
"G-2 Deluxe"	\$165.45
"G-2" Standard Equipped with constant speed induction motor and manual shift.	125.00
G103A 45 rpm idler and adapter	8.00



MODEL T-12 TWO-SPEED 12" TRANSCRIPTION TURNTABLE

The Rek-O-Kut model T-12 dual speed 12" transcription turntable brings professional performance to the home with the "new micro-groove records." Here is a turntable whose performance is equal to that of the larger 16" professional tables. In construction and design it is similar to the model "G."

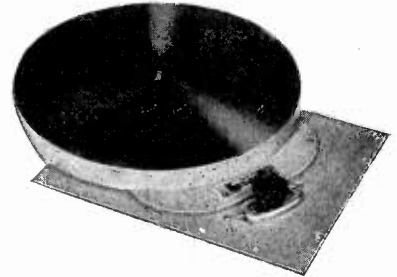
SPECIFICATIONS:

1. **NOISE LEVEL:** (A) T-12: 40 db below maximum recording level. (B) T-12H: 50 db below maximum recording level.
2. **CONSTRUCTION:** Identical with the TR-12. See description.
3. **MOTORS:** (A) T-12: 4-pole induction, built to Rek-O-Kut specifications. (B) T-12H: Hysteresis synchronous.

The motors, shock mounted, are fitted with Lamitex pulleys, which are pressed on and ground concentric to the motor shaft, an exclusive Rek-O-Kut feature which insures smooth rumble-free operation.

4. **CHASSIS:** Aluminum, cross ribbed, flush mount. Requires a rectangular cutout for mounting. Easily installed.
5. **FINISH:** Blue grey wrinkle.
6. **DIMENSIONS:** L.: 12"; W.: 15"; H.: 1 $\frac{3}{8}$ " above motor board; 5" below motor board. Weight: 13 lbs.

Model	Net Price
T-12	\$ 79.50
T-12H	109.50
T103A 45 rpm idler and adapter	6.00



MODEL LP-743 THREE-SPEED 12" TURNTABLE WITH INSTANTANEOUS SPEED SELECTOR

Now you can play 78-45-33 $\frac{1}{3}$ records whenever you wish, without taking your turntable apart. The model 743, by the use of a simple, ingenious speed selector enables you to pre-select your speed by merely pressing a button, like this:

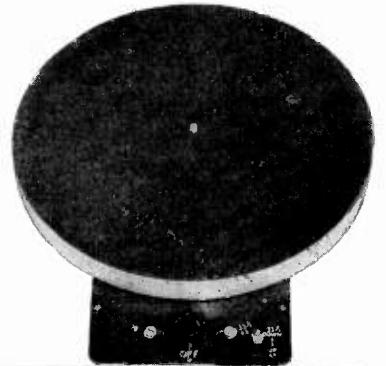
1. 78 rpm: slide shift-lever to the left.
2. 45 rpm: slide shift-lever to the right.
3. 33 $\frac{1}{3}$ rpm: press selector button down, slide shift-lever to right.

SPECIFICATIONS:

1. **NOISE LEVEL:** 30 db below maximum recording level.
2. **TURNTABLE:** Lathe-turned and balanced. Made of laboratory tested aluminum casting.
3. **MOTOR:** Constant speed, designed for smooth, quiet, vibration-free operation, fitted with a Lamitex motor pulley.
4. **SHAFT:** Turntable shaft hardened, ground and polished.
5. **SPEEDS:** Adjustable stops permit regulation of all three speeds.

6. **FINISH:** Brown hammertone to match mahogany or walnut.
7. **DIMENSIONS:** L.: 12"; W.: 15"; H.: 1 $\frac{3}{8}$ " above mtr panel; 5" below motor panel. Weight: 10 lbs.

Model	Speeds	Net Price
LP-743	78 - 45 - 33 $\frac{1}{3}$	\$49.95
LP-12	78 - 33 $\frac{1}{3}$	39.95
LP-35	45 - 33 $\frac{1}{3}$	39.95
LP-45	78 - 45	39.95



A C C E S S O R I E S

LEADSCREWS

Specify "Inside Out" or "Outside In" by letters IO or OI after part number.

Lines Per In.	For Model M-5	Net Price	For Model M-5S	Net Price
105	M-105	\$26.25	MS-105	\$37.50
120	M-120	26.25	MS-120	37.50
135	M-135	26.25	MS-135	37.50
210	M-210	36.25	MS-210	47.50
	Model M-12		Model M-16	
108	M12-108	17.95	M16-108	22.95
120	M12-120	17.95	M16-120	22.95
144	M12-144	17.95	M16-144	22.95
192	M12-192	17.95	M16-192	27.95

*Micro-Groove.

No.	Net Price	
VM-2	Recording level meter mounted in an unbreakable, cast aluminum case. Operates from the output of an 8, 15, 200 or a 500 ohm terminal.....	\$29.50
P-11	Portable case for 16" recording table and cutting mechanism, constructed of heavy plywood reinforced with a steel band, built to withstand rough usage.....	\$59.00
C-7	Console cabinet, with record drawer for storing 100 transcriptions, beautifully finished in metallic grey. 4 adjustable screw jacks. Built-in electrical outlets. Motorboard cutout for instantaneous mounting of Models "V" and "G" Turntables. Ventilated compartment for self-contained amplifier.....	\$129.00

Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER



Established 1909

Tone Arms

In keeping with the Webster Electric tradition for fine design, precise construction and dependable performance, these pickup arms are now being produced for modernization or repair of standard record-playing equipment. Each is a series of precisely-matched components built into an integral unit. All are designed to minimize track-

ing error, and are coupled to resonate at a very low frequency. Resonance distortion and microphonic feedback tendency have been reduced to the minimum. They will accommodate 10" or 12" records. Single-hole mounting. All models are supplied with arm rests and mounting base brackets.

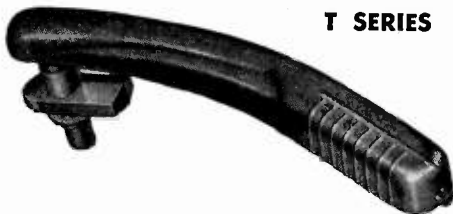
S SERIES



A new die-cast zinc alloy tone arm designed for use with F series cartridge, tracking at very low pressure. Modern design complements the appearance of any record-player. Supplied with cartridge model F2P (see reverse side for response characteristics).

Model SF2-3 List Price \$8.50

T SERIES



A lightweight, low-inertia tone arm constructed of stamped aluminum, attractively fluted and internally braced. Designed for use with N series cartridges; currently supplied with N8P and N10P cartridges (see reverse side).

Model TN8-1 List Price \$7.50
Model TN10-1 List Price \$7.50

V SERIES



Combines beautiful styling with exceptional rigidity, incorporating a high lateral ridge as an integral feature of the design. Supplied with N7P and F7P high fidelity cartridges, and with Model M1 Magnetic Cartridge (see reverse side) complete with needle.

Model VN7-1 List Price \$11.50
Model VF7 List Price \$11.50
Model VM1 List Price \$11.50



P SERIES FOR LP RECORDS

Designed specifically for LP microgroove use, this arm and cartridge assembly is exceptionally well suited for conversion use, as well as on new LP record players. Tracks at only 7 grams, providing .8 volts output at 1000 cps. Supplied with needle.

Model PF13 List Price \$9.50

THE NEW WEBSTER ELECTRIC Featheride RETRACTABLE

Tone arms shown at the left are now available with the new retractable cartridge, Webster Electric Company's latest development. If the arm is accidentally dropped or scraped across the record, there is no damage to record, crystal or needle. Finest response in normal playing, exceptionally quiet, low tracking pressure. Supplied with Q1 and Q2 cartridges (see reverse side for detailed specifications) complete with osmium-tipped offset needle and guard.

Model VQ1 List Price \$12.50
Model VQ2 List Price \$11.50
Model TQ2 List Price \$ 9.75

Recorder Heads

MODEL R-84

A magnetic cutting head for professional and semi-professional use. 8 ohms impedance at 400 cps. Frequency range 30-6000 cps. Less than 1½% distortion at 400 cps. Input power 1 watt nominal for maximum recording level. Standard 1⅛ inch spacing between mounting holes. LIST PRICE...\$27.50

MODEL R-84G

Similar to above but with 500 ohms impedance at 400 cps. LIST PRICE.....\$27.50





Established 1909

Crystal Cartridges

Webster Electric Crystal Cartridges are supplied in four general styles having universal replacement application. They are manufactured under exceptionally high standards of precision, and each cartridge is individually tested before release, assuring flawless performance and maxi-

imum customer satisfaction. The range of characteristics described below permits exact replacement of original cartridges found in the majority of record-players, record-changers and radio-phonograph combinations.

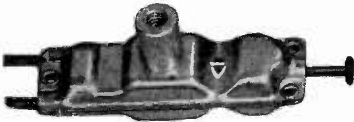
**MODEL C2
FLANGE
MOUNT**



**MODEL C3
CLAMP
MOUNT**



**MODEL C4
STUD
MOUNT**



**D
SERIES
SIDE-HOLE
MOUNT**



**F
SERIES
LIGHT
WEIGHT**



**N
SERIES
GENERAL
PURPOSE**



THE NEW RETRACTABLE CARTRIDGE



Model Q1
and Q2

Protects record, needle and crystal from accidental injury due to rough handling of the tone arm. Supplied in 1 volt or 2 volt models to replace most standard cartridges. Exceptionally quiet playing. Simple to install. Supplied complete with osmium-tipped needle (replaceable) and guard.

S P E C I F I C A T I O N S

Model No.	Average Output at 1000 CPS (Volts)	Impedance 1000 CPS (Ohms)	Minimum Tracking Pressure	Approx. Cut-Off Frequency (CPS)	NET WT.	LIST PRICE
C 2	2.3	200,000	2.5 oz.	5,000	16 gr.	\$4.50
C 3	2.3	200,000	2.5 oz.	5,000	16 gr.	4.50
C 4	2.3	200,000	2.5 oz.	5,000	16 gr.	4.50
D 2	2.3	80,000	2.5 oz.	5,000	25 gr.	5.40
D 3	.7	80,000	1.25 oz.	6,000	25 gr.	5.55
F 1P	1.0	200,000	1.0 oz.	5,000	8 gr.	5.00
F 2P	1.0	200,000	1.0 oz.	5,000	18 gr.	5.00
F 7P	1.0	200,000	1.0 oz.	8,000	18 gr.	7.50*
F 7P-2	1.2	200,000	1.0 oz.	5,000	18 gr.	6.50*
F 13M	.8	200,000	7 gr.	6,000	8 gr.	6.50*
F 14M	(.33 1/3) .8 (.78) 1.2	200,000	7 gr. .75 oz.	6,000	10 gr.	8.50*
M 1	.1	7,300	1.0 oz.	5,000	26 gr.	7.50*
N 6P	1.0	200,000	1.0 oz.	5,500	25 gr.	5.25
N 7P	.5	200,000	.75 oz.	10,000	25 gr.	6.50
N 10P	3.0	200,000	1.25 oz.	5,000	25 gr.	5.25
Q 1	1.0	200,000	1.0 oz.	8,000	23 gr.	8.50*
Q 2	2.0	200,000	1.5 oz.	8,000	23 gr.	7.50*
YN 2	.7	2 meg.	1.0 oz.	5,000	25 gr.	10.75

* Includes Needle

MAGNETIC CARTRIDGE



MODEL M1

A new magnetic cartridge incorporating latest refinements for superior playing performance. Provides .1 volt output at 1000 cps. Complete with osmium-tipped, replaceable needle.

PRE-AMPLIFIER

Pre-amplifier for use with above, giving 1 volt output. Supplied without tube. (Uses 6SF5 tube.) List price on application.

FOR LP RECORDS



MODEL F 13M

A new cartridge especially designed to give ideal results with LP records. Comes complete with replaceable osmium-tipped needle, and guard.



MODEL F 14M

A double-needle cartridge for playing both standard and LP records in tone arms adapted for its use, in conjunction with two-speed turntable. Complete with needles and guard assembly.

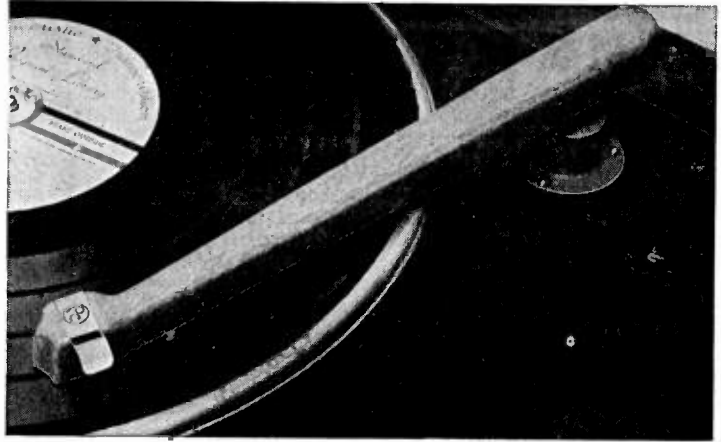


THE PICKERING PICKUP

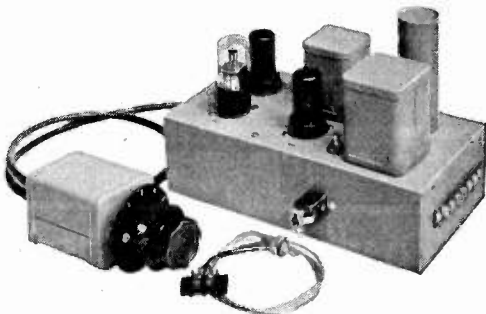


THE QUALITY UNIT THAT EXCELS THEM ALL!

Model 161 with Diamond Stylus. A professional magnetic type reproducer for lateral-cut phonograph records and transcriptions. It has virtually no intermodulation nor harmonic distortion at any amplitude capable of being recorded. There is no frequency discrimination over the range from 30 to 15,000 cycles per second and is completely free from any vertical response. Tracking pressure is 18 grams. Diamond stylus has .0025 inch radius for use with all 88 to 136 lines-per-inch recordings. Withstands practically any shock through unique guard into which stylus recedes. Arm is supported on frictionless hardened steel alloy cone pivots for perfect tracking, even on badly warped discs. Diamond stylus life is approximately 5,000 hours, at least ten times the life of sapphire. Overall length of arm, 14 $\frac{3}{4}$ " height, 2 $\frac{3}{4}$ ". Supplied with arm rest. Shipping weight, 2 lbs.



MODEL 161L—500/600 ohms output, —40 db. List price \$165.00
MODEL 161M—10,000 ohms output, .05 volt. List price \$165.00



Model 165L Equalizer-Amplifier Designed for use with Model 161M Pickup. Five-position equalizer switch compensates for American, European, N.A.B., Orthacoustic, etc., record characteristics. Supplied with output impedances of 30, 250 and 500/600 ohms at "0" db. Uses 6SJ7, 6SN7 and 6J5 tubes. Size 5 x 6 x 10 inches. Requires 250 volts D.C. at 15 ma. and 6.3 volts A.C. or D.C. at 1.2 Amperes. Supplied with tubes and input cable. Shipping weight, 9 lbs.
List price \$200.00

Model 163A Equalizer A loss-type equalizing network for use with the Model 161M Pickup. It is designed to compensate for most of the commonly encountered record characteristics. Position 1 — flat high frequency response to over 15,000 cps. Low frequency rise to give full compensation from 500 to 40 cycles. Position 2 — flat high frequency response. Low frequency response approximately 5 db. below position 1. Position 3 — for NAB or Orthacoustic transcriptions. Position 4 — Low frequencies same as position 2. High frequencies sharply attenuated to reduce surface noise. Attenuation starts at 4000 cycles. Position 5 — low frequencies same as position 1. High frequencies same as position 4. 250/600 ohms output, —60 db. Size 3 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 5 inches. Shipping weight 2 lbs.
List price \$70.00



EACH PICKERING PICKUP AND CARTRIDGE IS UNCONDITIONALLY GUARANTEED

Pickering reproducing equipment, with the exception of the stylus point, is fully covered by an unconditional guarantee provided that the units have not been tampered with, nor subjected to extraordinary abuse. Replacement styli can be installed in cartridge reproducers for the following net charges: .0027" sapphire — \$2.50; sapphire stylus of special radius \$5.00; diamond stylus \$15.00. Replacement diamond styli for the Model 161 transcription pickup can be installed for \$22.50 net. Unless otherwise specified diamond styli will be supplied with a radius of .0025". Other diamond stylus radii can be supplied at no additional charge. All returns should be sent direct to factory at Oceanside, L.I., N. Y.

Equipment returned to the laboratory for service will be reshipped within 24 hours after receipt. All frequency ranges indicated above denote region of response flat within 2 db. Voltage and db levels (6 mw/500 ohms) based on 10 cm/sec. stylus velocity.

Pickering Reproducing Equipment is Sold by All Principal Distributors

Pickering & Company Inc.

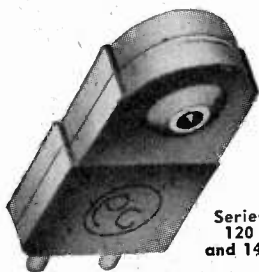
Audio Laboratories, Oceanside, Long Island, New York



THE PICKERING CARTRIDGE



THERE IS A PICKERING CARTRIDGE REPRODUCER FOR EVERY RECORD PLAYING AND TRANSCRIPTION USE . . . PROFESSIONAL, LABORATORY AND HOME PHONOGRAPH



Series 120 and 140

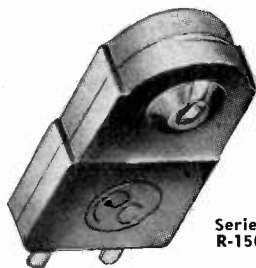
Models D-120M, S-120M, D-140S and S-140S, with diamond or sapphire stylus, are without peer; they produce the finest quality reproduction of lateral recordings and may be used in professional as well as non-professional record players. Model R-150, available with either sapphire or diamond stylus,

is specifically designed and manufactured to embody all of the features necessary to produce optimum quality record response with standard home record playing phonographs. The R-150 features a replaceable stylus. The R-150 is not for professional, laboratory or transcription use — but for home use only.

PICKERING CARTRIDGES ARE UNCONDITIONALLY GUARANTEED.

With the exception of the stylus point, all Pickering Cartridges are covered by an unconditional guarantee, provided the cartridge has not been opened nor subjected to extraordinary abuse.

Every Pickering Cartridge, before leaving the factory, is carefully tested for FREQUENCY RESPONSE, WAVEFORM DISTORTION, OUTPUT LEVEL, TRACKING PRESSURE; in addition, optical inspection of the stylus polish and shape; mechanical inspection of moving parts and electrical inspection of the pickup coil are made on each unit. Reports from users reveal absolute stability, amazing ruggedness and complete insensitivity to the effects of temperature and humidity.



Series R-150



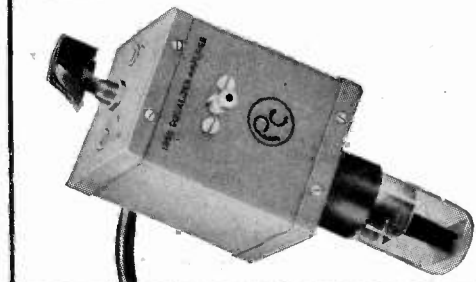
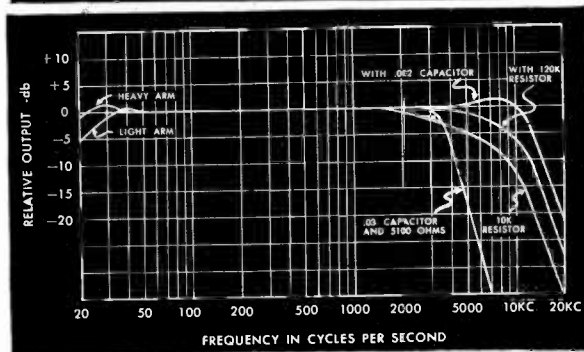
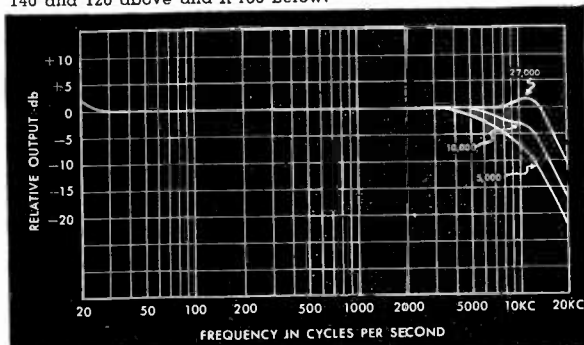
All Pickering Cartridges will fit practically any arm that will accommodate a crystal pickup. Their ingenious "Keystone Clip" mounting permits adaptation to a wide variety of arm shapes and sizes; also permits adjustment of the stylus position for minimum tracking error.

- Model S-120M with .0027" Sapphire stylus **List price \$16.50**
- Model D-120M with .0025" Diamond stylus **List price \$41.50**
- Model D-140S with .001" Diamond stylus for long-playing MICROGROOVE recordings **List price \$60.00**
- Model S-140S with .001" Sapphire stylus for long-playing MICROGROOVE recordings **List price \$25.00**
- Model R-150 without stylus for home phonographs **List Price \$16.50**

Styli for Model R-150 Cartridge Reproducer

- S-20 — .002" Sapphire **List price \$4.00**
- S-25 — .0025" Sapphire **List price \$4.00**
- S-30 — .003" Sapphire **List price \$4.00**
- D-20 — .002" Diamond **List price \$25.00**
- D-25 — .0025" Diamond **List price \$25.00**
- D-30 — .003" Diamond **List price \$25.00**

No Other Pickup Can Quite Match the Performance of Pickering Cartridges. The frequency response characteristics with various load impedance values are shown in the accompanying curves. Series 140 and 120 above and R-150 below.



Model 125-H Preampifier. Expressly designed for use with the Series 120 and 140 Pickering Cartridge Reproducers. It compensates for the average recording characteristic, and raises the output voltage to a level at least as high as that obtainable from crystal pickups. It operates from the power supply of the amplifier or radio set with which it is used, saving the cost of a separate power supply. Normal high-frequency characteristic to play new records flat to 15,000 cps; filter cuts off above 4,000 cps at 20 db per octave. Furnished complete with 6SL7GT tube, power input cable and simple installation instructions. **List Price \$32.50**

Pickering & Company Inc.

Audio Laboratories, Oceanside, Long Island, New York

REPRODUCERS

AUDAX

RECORDERS

The Standard by which Others are Judged and Valued

for
MICROGROOVE DISCS

VERTICAL DISCS

STANDARD DISCS

LM-61 . . . For Microgroove discs up to 12".

Response linear 50 cyc. to over 8 k.c. Point Pressure about 6 grams. Genuine Sapphire Stylus, **EASILY REPLACED BY USER.** Output about —25 db. High or low impedance. Plug-in connectors. Arm is Tangent-Tracking, ball-thrust and pivot-point bearings. Bronze finish. Turntable center to rear end of arm 10".

Listed at \$49.75

R-61 . . . For standard discs. Specifications and price same as for LM-61.

LM-62 . . . For Microgroove discs up to 18".

Performance identical with LM-61. French Grey and Chrome finish. Turntable center to rear end of arm 13 $\frac{9}{16}$ ".

Listed at \$64.75

R-62 . . . For standard discs. Specifications and price same as for LM-62.

LM-73 . . . For Microgroove discs up to 12".

Response linear 50 cyc. to 10 k.c. Point Pressure about 6 grams. Genuine Sapphire Stylus, **EASILY REPLACED BY USER.** Output about —30 db. High or low impedance. Vibratory momentum very low. Quick plug-in connectors. Arm is Tangent-Tracking, ball-thrust and pivot-point bearings. Bronze and Chrome finish. Turntable center to rear end of arm 10".

Listed at \$66.50

73-A . . . For standard discs. Specifications and price same as for LM-73.

LM-74 . . . For Microgroove discs up to 18".

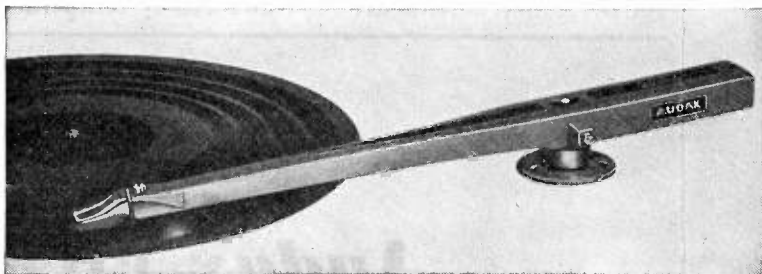
Performance identical with LM-73 above. French Grey and Chrome finish. Turntable center to rear end of arm 13 $\frac{9}{16}$ ".

Listed at \$83.00

74-A . . . For standard discs. Specifications and price same as for LM-74.

LM-79—STUDIO ARM, identical with Model 81 (at right). Linear 40 cyc to 10 k.c. Point-pressure about 6 grams. Genuine Sapphire replaceable stylus. Output about —30 db. High or low impedance. Listed at \$115.00

SA-79—For standard discs. Specifications and price same as for LM-79.



STUDIO - 81

For LATERAL recordings up to 18".

For use in Radio Stations, Studios and wherever superb-quality performance is paramount. Response Linear 20 cyc. to about 15 k.c. Point Pressure about 14 grams. Diamond Stylus. Output about —35 db. Impedance 200 ohms. Moving Mass Near Zero. Quick plug-in connectors. Arm is Special Studio Design, aluminum, Tangent-Tracking, ball-thrust and pivot-point bearings in gimbal mounting — eliminating side-thrust and drag. French Grey and Chrome finish. Turntable-center to rear end of arm 18 $\frac{1}{2}$ ".

Listed at \$165.00 (less equalizer)

LM-81 . . . For Microgroove discs. Specifications and price same as for STUDIO-81.

STUDIO - 99

For VERTICAL recordings up to 18".

For use in Radio Stations, Studios and wherever superb-quality performance is paramount. Response Linear 20 cyc. to about 15 k.c. Point Pressure about 25 grams. Diamond Stylus. Output about —40 db. Impedance 200 ohms. Moving Mass Near Zero. Quick plug-in connectors. Arm is Special Studio Design, aluminum, Tangent-Tracking, ball-thrust and pivot-point bearings in gimbal mounting — eliminating side-thrust and drag. French Grey and Chrome finish. Turntable-center to rear end of arm 18 $\frac{1}{2}$ ".

Listed at \$195.00 (less equalizer)

AUDAX EQUALIZER — 200 ohms input affording NAB. Orthocoustic Vertical, 78 RPM — and Filter positions. Listed at \$83.00

AUDAX REPLACEMENT STYLUS — Genuine Sapphire Jewel — Designed expressly for Fine Groove and Standard Discs. Listed at \$3.00

Any of the above models may be had with Diamond Points when desired.

PICK-UP UNITS

AUDAX

RECORDERS

The Standard by which Others are Judged and Valued

NEW AUDAX HIGH FIDELITY CUTTERS

AUDAX CUTTER H-5—Substantially FLAT to 10,000 cycles. Distortion about 1.2% at 1000 cycles. Fully modulates groove with input of about 18 db with 96 lines. Impedances up to 500 ohms.
Listed at...\$185.00

AUDAX CUTTER H-4—Substantially FLAT to 8,000 cycles. Distortion about 1.7% at 1000 cycles. Fully modulates groove with input of about 16 db with 96 lines. Impedances up to 500 ohms.
Listed at...\$125.00

AUDAX CUTTER H-3—Substantially FLAT to about 7500 cycles. Distortion about 2.1% at 1000 cycles. Fully modulates groove with input of about 18 db with 96 lines. Impedances up to 4000 ohms.
Listed at...\$83.00

AUDAX CUTTERS are magnetically powered—their characteristics are not affected by temperature or atmospheric changes. They are readily interchangeable on most recording machines.



AUDAX instruments are NOT affected by temperatures or atmospheric changes.

Also available . . .

Audax PICKUPS

using conventional needles

There Is No Substitute for *EXPERIENCE*

When you are buying a motor car, washing machine or refrigerator, almost instinctively you know that of first consideration is the experience of the manufacturer behind the product. Has he the all-important KNOW-HOW that comes only with years of experience? In no other field of endeavor is this KNOW-HOW more important than in the field of ELECTRONIC Sound Apparatus, where AUDAX has set the pace for over twenty-five years.

CLARKSTAN

CORPORATION
11927 W. Pico Blvd.
Los Angeles 34, Cal.

Manufacturing Engineers

SWEEP FREQUENCY GENERATOR

Model 125

The Clarkstan Sweep Frequency Generator is an electronic device used to determine quickly the behavior of audio and other alternating electrical apparatus with respect to frequency and associated phenomena.

The complex signal is produced by scanning photo-electrically a synchronously rotating disc. The modulation on the disc is the photographic reduction of a precision pattern.

The accuracy of the original disc assures a positive signal which limits anomalous distortion, frequency and other discriminations which could be introduced by non-stable reactive components of more complex circuits.

The Model 125 Sweep Frequency Generator is recommended for use in production testing, development laboratories, schools and colleges, motion picture sound equipment, magnetic recorder development, radio stations and maintenance and service technicians.

SPECIFICATIONS — Model 125A S.F. Generator

OUTPUT — 7 volts, open circuit; 50 milliwatts or 5 volts into 500 ohms. **IMPEDANCE** — Internal impedance 200 ohms. **POWER CONSUMPTION** — 25 watts, 115 v., 50 & 60 cycles. **CABINET MOUNTED** — 15 $\frac{3}{8}$ " x 8" x 8 $\frac{3}{8}$ " deep. **WEIGHT** — 18 $\frac{1}{2}$ lbs. **FINISH** — Dark Maroon Burlene baked enamel. All tubes supplied, 2 - 7C7; 1 - 7C5; 1 - 5AZ4; 1 - 927. Will operate with any standard oscilloscope.



FREQUENCY RANGE — 40 cps. to 10 KC with 60 cycle AC. **MARKER PULSES** — at 1, 3, 5, 7, and 10 KC. **SWEEP FREQUENCY** governed by 20 synchronizing pulses per second. (With 50 cycle AC current, the range is 33 cps. to 8333 cps. with frequency markers at 833, 2500, 4170, 5840, and 8333 cps.)

Model 125 Clarkstan Sweep Frequency Generator complete with scanning disc. Net Price.....\$165.00

Model 130.1 Scanning disc, 40 cps. to 10 KC, disc only. Net Price.....\$12.20

AUDIO SWEEP FREQUENCY TRANSCRIPTIONS (20 SPS) RECORDS AND FILM

— By Wayne R. Johnson

No. 1000A—12" Vinylite record, 78 RPM, 70 to 10,000 cps., recorded flat plus or minus 1 db. Net Price.....\$6.60

No. 1000D—12" Vinylite record, 78 RPM, 5 KC to 15 KC, recorded flat plus or minus 1 db. Net Price.....\$6.60

No. 100A—16" Vinylite record, 33 $\frac{1}{3}$ RPM, 60 to 10,000 cps., recorded with NAB curve. Net Price.....\$10.00

No. 102M—12" Vinylite record, 33 $\frac{1}{3}$ RPM, 60 to 10,000 cps, microgroove recording. Net Price.....\$6.60

No. 115—35 mm film, variable density in 10 ft. strips. Net Price.....\$10.00

No. 117—16 mm film, variable density in 10 ft. strips. Net Price.....\$10.00

WIDE RANGE RV PICKUP

The Clarkstan RV Wide Range Pickup is a variable reluctance reproducer featuring a removable stylus, and offering Flat Response, Low Distortion, in addition to featherweight needle force.

SPECIFICATIONS: TYPE—Magnetic, variable reluctance with removable stylus. **ARMATURE**—Stylus is the armature; weight 31 mg. (.031 g.) **RESPONSE** — Exactly velocity responsive to 15,000 cps. **STYLUS** — Sapphire with standard .003" radius ball point, 50° cone angle. Other sizes available. **NEEDLE FORCE** — 20 grams optimum for commercial pressings. **OUTPUT** — 60 millivolts at 1000 cps with lateral displacement of .001". **IMPEDANCE** — Standard cartridge, high impedance. May also be had in impedances of 5, 50, 250 and 500 ohms. **RECOMMENDED TERMINATION** — High impedance.

ELECTRICAL CHARACTERISTICS — Inductance 350 millihenries at 1000 cps.; "Q" 1.05; DC Resistance 1450 ohms. **MOUNTING** — Standard mounting holes, 1/2" between centers 3-48 screws. **WEIGHT** — 30 grams.

No. 211 RV Wide Range Pickup & Transcription Tone Arm complete with standard sapphire stylus. Net Price.....\$34.50

No. 212 Trionic Arm with "Slide-In" cartridge holder for 16" Records. Net Price \$22.50

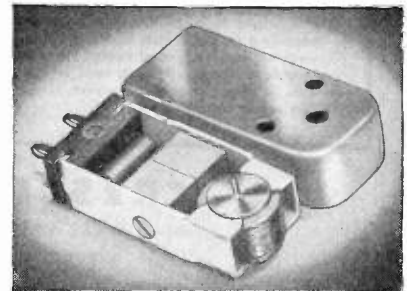
No. 201 RV Wide Range cartridge only (with standard sapphire stylus). Net Price.....\$15.00

Extra sapphire stylii (tubular shank) for Clarkstan RV Pickup: Sapphire

No.	Radius
251.10	.0010"
251.15	.0015"
251.2	.0022"
251.5	.0025"
251.3	.003"

Ball Point
No. 251.10 Radius .0010"
No. 251.15 .0015"
No. 251.2 .0022"
No. 251.5 .0025"
No. 251.3 .003"

Net Price.....\$2.40 each



(All prices subject to change without notice.)

Designed for **DOUBLE DUTY...**

Crescent

COMBINATION WIRE RECORDER MECHANISM

Note: The C-1000 Series Wire Recorder Mechanism is a basic mechanism not suitable for use except in combination with proper associated equipment.

THE
C-1000
SERIES



*Quality Built
Throughout!*

This mechanism is a product of the famous Crescent Tool and Die shops and is equipped with the new Crescent-engineered Recording Head. Many exclusive features of design built into this head give recordings the "Front Row" realism so much desired in this type of equipment.

- Records magnetically on a stainless steel wire—up to one full hour program from any input source that can be fed into the associated amplifier equipment.
- Plays back magnetically with a fidelity, dynamic range, and absence of background noise that accounts for the present heavy demand for Crescent Wire Recorder mechanisms.
- Plays or records on the wire from phonograph records much better than most single purpose record players...because the heavy duty recording motor and the heavy, accurately machined, die cast take-up drum are used as a phonoturntable. The new Crescent tone arm, originally designed for Crescent Automatic Record Changers, adds its share to listening and recording pleasure.
- Rewinds at fast speed...5 times as fast as recording speed...so that it takes only a short time to reach any part of the wire to Record, Play, Erase, or Re-record.
- One single knob controls the mechanism...because a special control assembly combines the electrical and mechanical control functions. Wire recorder automatically shuts itself off, at end of wire, in all positions of operation...recording, playing, or rewind.

A New Combination Record Player and Magnetic Recorder-Reproducer

Combined with proper associated equipment, the new Crescent Wire Recorder Mechanism becomes one of the most interesting devices now available to amateurs, experimenters, sound men, service men, or anyone else interested in the field of electronic equipment. There are at least a dozen practical uses for a good wire recorder in every home and office in America.

The current public demand for wire recorders is directly traceable to the last war. War production helped materially to expand the plant, personnel, machinery and engineering facilities of Crescent Industries to a position of leadership in the design and manufacture of wire recording equipment. The Crescent Recording Head is a specific example of Crescent engineering and manufacturing skill.

This is not the whole story behind Crescent's dominant position in the field, however. It remained for the men who originally made famous the name Crescent Tool and Die Co., to turn Crescent engineering developments and specifications into reality. Their experience, skill and precision workmanship achieved a steady, day-by-day production of wire recorder mechanisms that perform so fine they enhance the value and prestige of any other equipment with which they are combined to make up a complete system.

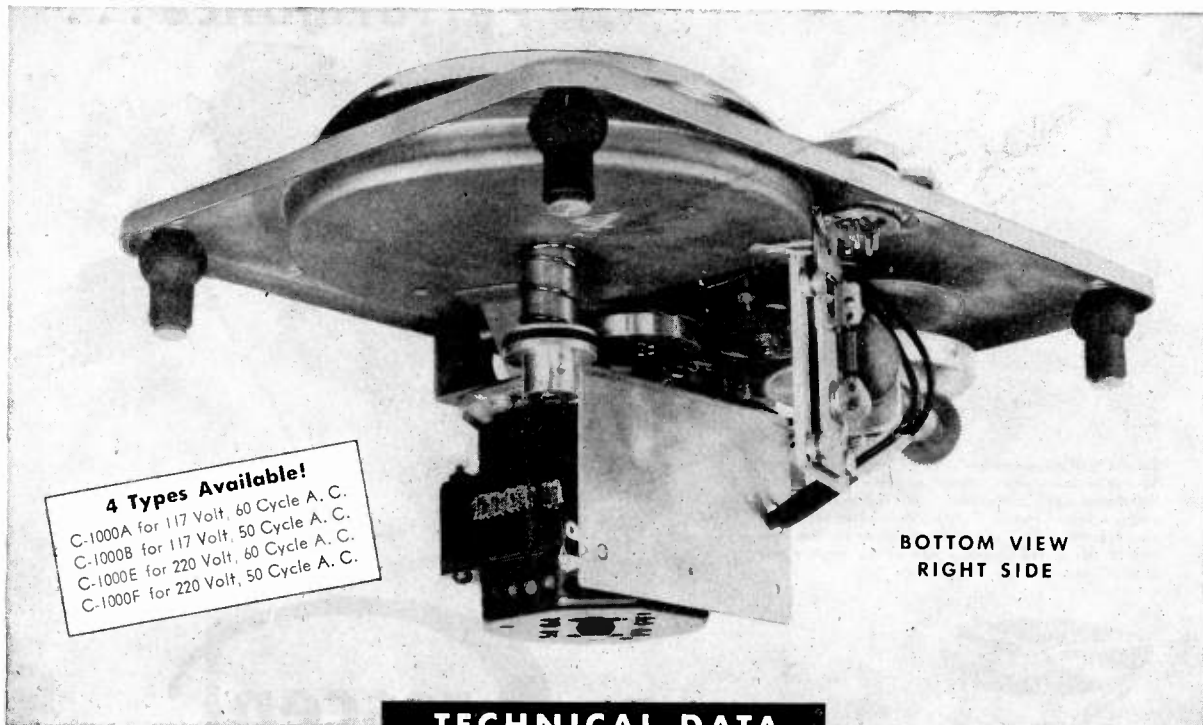
CRESCENT INDUSTRIES, INC.

4140 WEST BELMONT AVENUE • CHICAGO 41, ILLINOIS

EXPORT: SCHEEL INTERNATIONAL, INC., CHICAGO 18, ILLINOIS, U. S. A.

Printed in U.S.A.

Crescent C-1000 SERIES WIRE RECORDER MECHANISMS



4 Types Available!

- C-1000A for 117 Volt, 60 Cycle A. C.
- C-1000B for 117 Volt, 50 Cycle A. C.
- C-1000E for 220 Volt, 60 Cycle A. C.
- C-1000F for 220 Volt, 50 Cycle A. C.

**BOTTOM VIEW
RIGHT SIDE**

TECHNICAL DATA

ELECTRICAL

- Power, Input See Types Listed Above
- Motor Underwriters' Approved
Heavy duty, even speed recording motor
- Motor Switch Underwriters' Approved
- Erase Current Switch S. P. D. T.
- Crescent Recording Head Type No. WR45-C
- Voice Coil Impedance
 - At 10,000 Cycles Approx. 12,000 ohms
 - At 5,000 Cycles Approx. 7,600 ohms
 - At 1,000 Cycles Approx. 2,240 ohms
 - At 100 Cycles Approx. 500 ohms
- Input to Voice Coil (Recording)
Peak recording level 0.6 volt rms at 1000 cycles.
- Output from Voice Coil (Playback)
Recording at a level of 0.6 volt rms 1000 cycles, on standard recording wire will give approximately 2 millivolts output on playback.
- Recording Wire
Uses .004 or .0036 stainless steel wire, spools, and leaders conforming to proposed R. M. A. standards.
- Wire Speed
 - Recording and playback 2 feet per second
 - Rewind Average of 10 feet per second
- Erase and Bias Coil Designed to operate at 30,000 cycles
 - Impedance at 30,000 cycles Approx. 6.4 ohms
 - Requires 700 milliamps at 4.5 volts 30,000 cycles
- Compensation Simplest form
Shunt a .001 mfd condenser across a 100,000 ohm resistor and connect this combination in series with the voice coil.

An input of 15 volts rms of 1000 cycles to the circuit mentioned above will give 0.6 volts rms across the voice coil. Total audio power required is less than 2¼ milliwatts. If additional compensation is desired, it should be included in the amplifier circuit, as any substantial reduction of the value of the series resistance will materially reduce the signal to noise ratio.

Phono-Record Player

Take Up Drum
Also serves as a turntable for records. The turntable is rim driven from the powerful recording motor and operates at 78 RPM. Accommodates either 10 or 12 inch records.

Phono Pick Up
Lightweight, scientifically designed arm equipped with L70 or P928 crystal cartridge accommodates all standard types of modern needles.

PHYSICAL

- Dimensions Mounting Plate 9" x 13"
Requires inside cabinet space of 12½" x 15½" to play 12" record with lid closed.
Requires 3" above cabinet mounting board and 5" below surface of cabinet mounting board.
- Mounting Floating
Mechanism "floats" on four live rubber "Borry" mounts. Mounting centers 7½" x 11½".
- Finish Mounting plate finished in beautiful mahogany Hommerloid with cream colored plastic shield and chrome trim.
- Weight Actual weight of wire recorder mechanism 14 lbs.
Shipping weight 16 lbs.

Operating and Hookup, Service, and Application Data Packed With Each Unit.

CRESCENT INDUSTRIES, INC.

4140 WEST BELMONT AVENUE, CHICAGO 41, ILLINOIS, U.S.A.

MANUFACTURERS OF
RECORD CHANGERS • WIRE RECORDERS • LOUD SPEAKERS • TOYS • META STAMPINGS • TOOLS & DIES

For S-m-o-o-t-h TROUBLE-FREE Performance . . .



350 SERIES

Simplicity of Adjustment—Sit-down position for 10 and 12 inch records . . . and position at which tone arm trips the change cycle mechanism . . . are all indexed to a single, stamped control plate which does not vary. One simple screw driver adjustment synchronizes the Tone arm to this control plate . . . one of the reasons why Crescent Changers are Trouble-Free.



FREE-FLOATING—
It Floats . . . on 4 live rubber "Barry Mounts" that reduce transfer of vibration and motor rumble to a minimum! **Easy to Mount . . .** Drill 4-19/32" holes, then push the "Barry Mounts" into the holes (just try to get them out without tools). **No Shipping Bracket Required . . .** After changer has been installed in its cabinet, "Barry Mounts" help protect it during transportation.



CONTROLS—
Single Knob . . . controls ON-OFF and AUTOMATIC or MANUAL operation. Knob moves in four directions and is clearly marked. **Reject Button . . .** is conveniently located on top of the tone arm support. Operated by pushing down on the tone arm when the tone arm rests on the support, or by pushing the button itself when record is being played.



CHILD-PROOF — JAM-PROOF
Tone arm may be moved to any position at any time without jamming machine and without any danger of changing adjustments.

Crescent

AUTOMATIC RECORD CHANGERS

You'll like this practical, precision built, high quality record changer. *It's Trouble-Free!* Ideal both as original or replacement equipment. Simplicity of design and durability of construction assure a minimum of trouble after installation . . . cut profit losses due to extra servicing.

Changer is of the single post type to avoid chipping or cracking of records. Center post is scientifically shaped to guide the records down, on an air cushion, to the thick, velvet-like coating on the turntable which runs on a shock absorbing cork washer.

Tone arm design is such that it trips and functions perfectly with no more needle pressure than that required by any of the modern, high grade crystal cartridges. This means reduced needle scratch, reduced "needle talk", and longer record life.

Plays, automatically, 12 ten inch or 10 twelve inch records. (Not intermixed). Plays, manually, home recordings and single records. Less than 5 second change cycle for greater continuity of music.

Powerful even speed motor, special turntable bearing design, smooth rim drive and many other Crescent-engineered features combine to reduce noise, wobble and wow in this changer, and to lengthen its life.

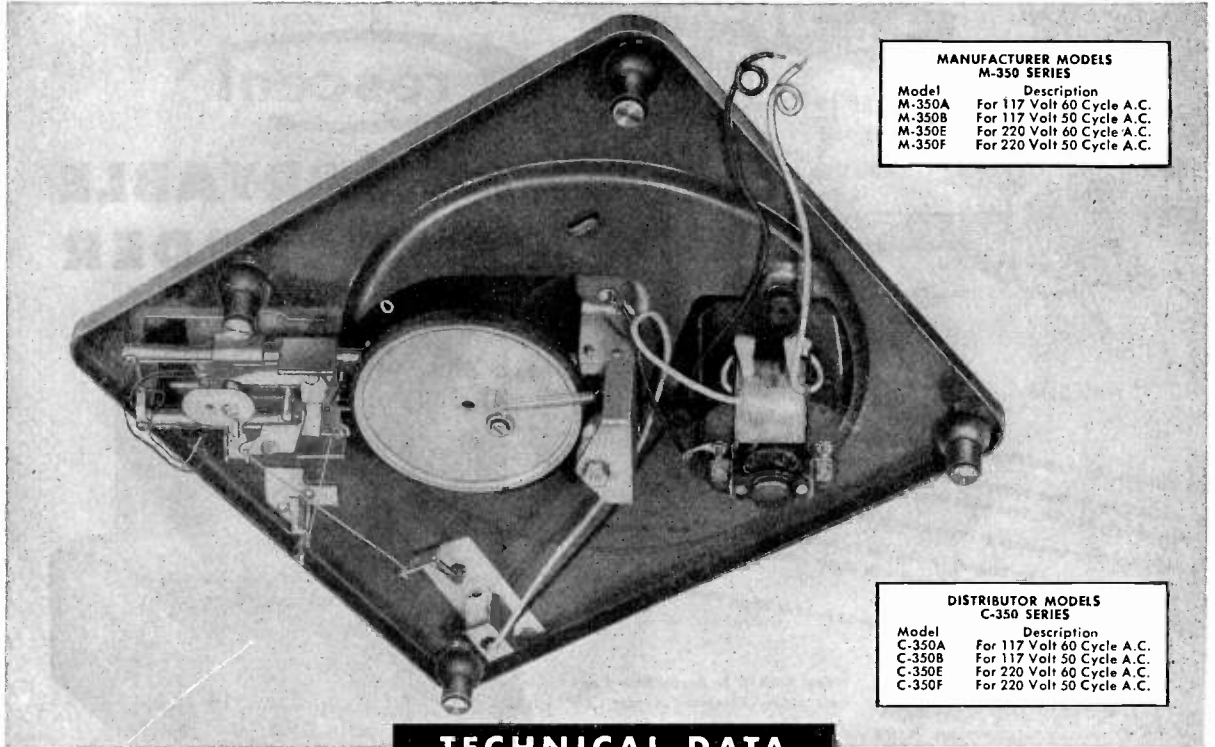
Beautiful mahogany Hammerloid finish with deep maroon turntable, tone arm, record shelf support casting, and plastic trim, gives just the right color contrast for plenty of eye appeal.

CRESCENT INDUSTRIES, INC.

4140 WEST BELMONT AVENUE • CHICAGO 41, ILLINOIS
EXPORT: SCHEEL INTERNATIONAL, INC., CHICAGO 18, ILLINOIS, U. S. A.

PRINTED IN U. S. A.

Crescent 350 Series Automatic Record Changers



MANUFACTURER MODELS M-350 SERIES	
Model	Description
M-350A	For 117 Volt 60 Cycle A.C.
M-350B	For 117 Volt 50 Cycle A.C.
M-350E	For 220 Volt 60 Cycle A.C.
M-350F	For 220 Volt 50 Cycle A.C.

DISTRIBUTOR MODELS C-350 SERIES	
Model	Description
C-350A	For 117 Volt 60 Cycle A.C.
C-350B	For 117 Volt 50 Cycle A.C.
C-350E	For 220 Volt 60 Cycle A.C.
C-350F	For 220 Volt 50 Cycle A.C.

TECHNICAL DATA

ELECTRICAL

Power Input See Models Listed Above
 Motor Underwriters' Approved
 Type Shaded Pole Induction
 Noiseless, constant speed, rubber mounted.
 Insulated To Withstand 1000 Volts
 Pick-up
 Frequency Range Standard
 Output Volts, Rated 1.0-1.6 Volts
 Pick-up, Crystal Astatic L 70 or Shure Bros. P 92 B
 Switch Underwriters' Approved
 Mounted on Automatic-Manual Control. Lever makes only one control knob necessary.

MECHANICAL

Spindle Nickel Plated Steel
 Especially designed to permit wider record shelf which prevents more than one record dropping at same time. Records drop flat to turntable where air cushion effect reduces chance of chipping and cracking.
 Turntable
 Size 9"
 Speed 78 R. P. M.
 Drive Rim
 Direct, cushioned, rim drive eliminates wow.
 Bearings Ball Thrust
 Stress-proof steel. Shack mounted on cork supports.
 Eccentricity010 Max.
 Tone Arm
 Weight According To Cartridge Used
 Mounting Smooth, Free-Floating
 Needle Accommodation All Standard Types
 Trip No Extra Force Beyond Tone Arm Torque required to actuate automatic trip.

Automatic Push-Off Mechanism
 Operates with stack of ten 12-inch or twelve 10-inch records (not mixed), dropping one record at a time. Automatically tripped at end of each record.
 Lubrication None required. Lubricated for life at the factory.

PHYSICAL

Changer Base Plate 11 1/2" x 13 1/4"
 Mounting Floats On 4 "Barry Mounts"
 No shipping brackets required.
 Mounting Hole Centers . Back Side 8 1/2"—Left side 10"—Front Side 11 1/2"
 Mounting Hole Diameters593 or 19/32"
 Clearance Required
 Above Cabinet Mounting Board 5 1/2"
 Includes stack of records and "Barry" mounts.
 Below Cabinet Mounting Board 2"
 Minimum Inside Cabinet Measurements 12 1/2" x 14 1/4"
 Finish
 Motor Board Mahogany Hammerloid Baked Enamel
 Tone Arm Deep Maroon Baked Enamel
 Tone Arm Support Deep Maroon Plastic
 Turntable Deep Maroon Flack
 Record Shelf Support Casting Deep Maroon Plastic
 Control Knob Deep Maroon Plastic
 Weight
 Record Changer Only
 Model 350 Approx. 8 1/2 lbs.
 Packed for Shipping
 Model 350 Approx. 11 lbs.

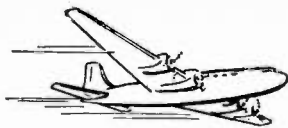
Operating Instructions and Service Manual Packed With Each Distributor Unit

CRESCENT INDUSTRIES, INC.

4140 WEST BELMONT AVENUE, CHICAGO 41, ILLINOIS, U.S.A.

MANUFACTURERS OF

RECORD CHANGERS • WIRE RECORDERS • LOUD SPEAKERS • TOYS • METAL STAMPINGS • TOOLS AND DIES



Be Up-To-Date with a . . .

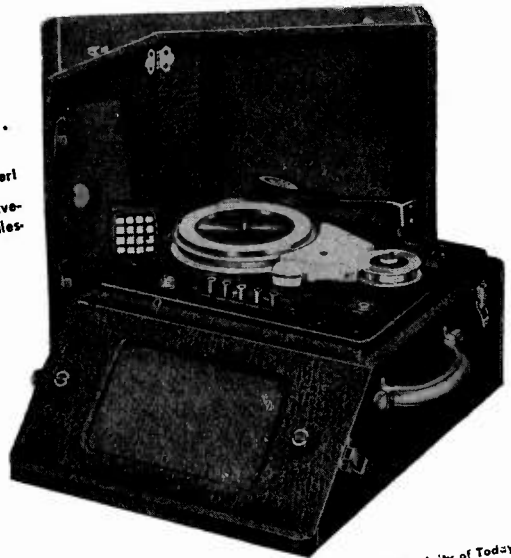


3-WAY PORTABLE WIRE RECORDER



- A Wire Recorder, Record Player and Public Address System In One Fine Instrument
- Records From Its Own Microphone . . . Copies Phono Records From Its Own Record Player . . . Records Speeches, Etc., Even While Being Used As a Public Address System
- Plays Back Wire Recordings or Phono Records Through a Built-In Playback Amplifier and Speaker
- Connection Provided For External Speaker. An Extension Speaker Increases Recorder's Effectiveness As a P. A. System. Permits Coverage Of Larger Groups and Adds To Usefulness For Salesmeetings, Small Dances, Etc.
- Provision Also Made For Connecting Recorder To Radio or Larger Sound Systems!

Model H-2A1C In Brown Boar Rawhide Fabric-Covered Carrying Case



Comes Complete With . . . Microphone • One-Quarter Hour Spool of Wire • Permanent Needle Pick-Up Cartridge • Three 6-ft. Shielded Connector Cables • One 6-ft. Detachable Power Cord

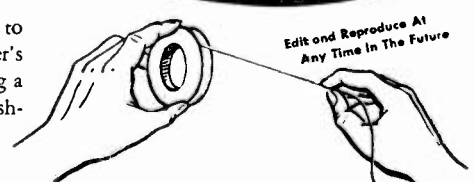
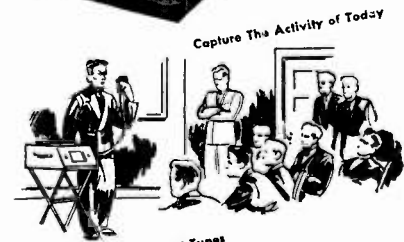
Pleasure trips are more enjoyable . . . and many business trips more profitable when a Crescent 3-way Wire Recorder is included in the list of "things to take with."

IT'S A COMPLETE WIRE RECORDER . . . Makes and plays back recordings on wire of commercial programs, broadcast programs, phono records, business conferences, or anything you wish to reproduce at a later date.

IT'S A PUBLIC ADDRESS SYSTEM . . . Can be used "as is" for salesmeetings, small gatherings, speech training, schoolwork, entertainment, etc.

IT'S A PORTABLE RECORD PLAYER . . . Has high quality turntable and pick-up equipment suitable for commercial or home use. And you don't have to carry an extra case to have this available!

You'll like the Crescent H-2A1C. Records program material continuously up to one hour. Wire can be used over and over again or kept forever. It's an engineer's dream come to life . . . A matched mechanical and electrical system comprising a 6-tube plus rectifier electronic unit, a 6" Alnico V speaker, and with five push-button controls. To hear it is to buy it!



CRESCENT INDUSTRIES, INC.
2140 WEST BELMONT AVENUE, CHICAGO 41, ILLINOIS, U. S. A.
EXPORT: SCHEEL INTERNATIONAL, INC., CHICAGO 18, ILLINOIS, U. S. A.

WEBSTER-CHICAGO



**FAMOUS FOR QUALITY RECORD CHANGERS,
ELECTRONIC MEMORY WIRE RECORDERS**

Wire Recorder Model 178



Can be used with any radio. Push-button controls. Meter type recording level indicator. Contains built-in pre-amplifier, inter-stage amplifier, oscillator, power supply. Comes with microphone, spool of wire. Size: 11" x 11 $\frac{3}{8}$ " x 5 $\frac{5}{8}$ ". Shipping weight: 22 lbs.

List Price.....\$107.50
West of the Rockies.....\$109.75

Model 357-1



This deluxe three-speed changer features the famous basic changer Model 356 enclosed in a base for semi-portable use. The Model 357-1 incorporates all the finest features of changer design. Plays through radio or amplifier. Velocity-Trip mechanism, Tandem-Tip Needle. Shipping weight: 16 lbs.

List Price.....\$58.25
West of the Rockies.....\$60.00

Model 357-27

Same as above but equipped with interchangeable tone-arm plug-in heads for G. E. Variable Reluctance Pick-ups. (Pick-ups not furnished.)

List Price.....\$49.50
West of the Rockies.....\$51.00

Model 364



Portable three-speed automatic record changer in luggage-type all wood carrying case covered in burgundy leatherette—Plays one-inch stack of 7-, 10- or 12-inch records at 33 $\frac{1}{3}$, 45 or 78 rpm, with cover closed. Ready to play by attaching to amplifier or radio-phone input or to wire recorder. Shpg. weight: 24 lbs.

List Price.....\$63.25
West of the Rockies.....\$65.25

Model 164

Portable single-speed for playing standard records—Similar in appearance to Model 364 above. Connects to radio, amplifier, or wire recorder. Shipping weight: 24 lbs.

List Price.....\$53.50
West of the Rockies.....\$55.50

Model 66



Portable amplifier to use with record changer or wire recorder. Attractive burgundy leatherette over wood. 8-watt push-pull amplifier with 8-inch Alnico speaker. Shpg. weight: 22 lbs.

List Price.....\$58.50
West of the Rockies.....\$59.95

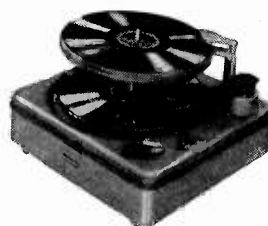
Model 355



The Model 355 is the Model 346 completely enclosed in a base for semi-portable use. Plays a full one-inch stack of 7-, 10- or 12-inch records—33 $\frac{1}{3}$, 45 or 78 rpm through radio or amplifier. Velocity-Trip mechanism. Shipping weight: 18 lbs.

List Price.....\$51.00
West of the Rockies.....\$52.50

Model 155



The Model 155 (similar in appearance to above Model 355) plays a full one-inch stack of standard 78 rpm records. Shipping weight: 18 lbs.

List Price.....\$38.00
West of the Rockies.....\$40.00

Model 755

Plays up to eight 7-inch records automatically 33 $\frac{1}{3}$ or 45 rpm. Quick 3-second change cycle. Balanced tone arm. Velocity-Trip. Plays through radio or amplifier. Shpg. weight: 9 lbs.

List Price.....\$29.75
West of the Rockies.....\$30.50

WEBSTER-CHICAGO RECORD CHANGER CHASSIS

FOR ORIGINAL OR CUSTOM INSTALLATION

Model 346



A high quality changer in the medium price range. Plays a full one-inch stack of 7-, 10- or 12-inch records—33 $\frac{1}{3}$, 45 or 78 rpm. Velocity-Trip mechanism, Tandem-Tip Needle. Dimensions: 12" x 12 $\frac{3}{4}$ " x 7 $\frac{3}{4}$ ". Shipping weight: 14 lbs.

List Price.....\$46.50
West of the Rockies.....\$47.75

Model 146

Plays a full one-inch stack of standard 78 rpm records only. Similar in appearance, dimensions and shipping weight to above (Model 346).

List Price.....\$34.75
West of the Rockies.....\$36.00

Model 156-1



The Model 156-1 is the single-speed version of the Model 356-1 (illustrated above). Plays a full one-inch stack of standard 78 rpm. records. Dimensions: 14"x14"x9". Shipping weight: 18 lbs.

List Price.....\$38.50
West of the Rockies.....\$39.75

Model 156-27

Same as above but equipped with G. E. Variable Reluctance Pick-up.

List Price.....\$41.50
West of the Rockies.....\$43.00

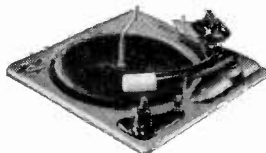
Model 356-1



This automatic three-speed changer plays a full one-inch stack of 7-, 10- or 12-inch records—33 $\frac{1}{3}$, 45 or 78 rpm. Velocity-Trip mechanism. Tandem-Tip Needle. Tone arm comes to rest after last record has been played, repeats last seven-inch record until attended. Dimensions: 14 $\frac{1}{4}$ " x 14" x 8 $\frac{3}{4}$ ". Shipping weight: 18 lbs.

List Price.....\$51.75
West of the Rockies.....\$53.25

Model 356-27



Same as above but equipped with interchangeable tone-arm plug-in heads for G. E. Variable Reluctance Pick-ups. (Pick-ups not supplied.)

List Price.....\$43.00
West of the Rockies.....\$44.50

Model 70-1



A deluxe unit for intermixed 10- or 12-inch standard 78 rpm records. Plays a full 1 $\frac{1}{8}$ -inch stack either size or intermixed. Stops automatically after last record has been played. Dimensions: 14" x 14" x 8 $\frac{1}{2}$ ". Shipping weight: 18 lbs.

List Price.....\$58.50
West of the Rockies.....\$60.00

Model 70-27

Same as above but equipped with G. E. Variable Reluctance Pick-up.

List Price.....\$61.50
West of the Rockies.....\$63.25

Model 77



The little "giant" in the new seven-inch field. Plays up to eight records—33 $\frac{1}{3}$ or 45 rpm. Quick 3-second change cycle. Balanced tone arm. Velocity-Trip mechanism. Dimensions: 7 $\frac{1}{8}$ " x 10 $\frac{1}{8}$ " x 6 $\frac{3}{4}$ ". Shipping weight: 7 lbs.

List Price.....\$27.50
West of the Rockies.....\$28.00



WEBSTER-CHICAGO

GARRARD



GARRARD

IMPORTANT NOTICE

AVAILABLE EARLY IN 1949—THE NEWEST IN A LONG LINE OF TOP QUALITY GARRARD INSTRUMENTS! A completely automatic record changer, designed to play every type of record on one turntable! It will accommodate 7", 10" and 12" records at 33 1/2 rpm, 45 rpm and 78 rpm, regardless of size of center hole and regardless of grooves.

Tonearm will be available with every type of quality pickup including Magnetic, Crystal and Variable Reluctance. The new GARRARD, a masterpiece of modern industrial design will be moderately priced.

GARRARD RC65 Record Changer

Radically improved in design and in mechanical operating features. Incorporates all the scientific and technical knowledge acquired through many years of critical testing, experimentation and manufacture.

Through the years, discriminating music lovers have learned to depend on this superior mechanism as the World's Finest in record playing equipment. They know that they can rely on a GARRARD to give them consistently quiet, efficient performance. The GARRARD RC65 is built to rigid standards and is fastidiously machined and assembled to assure trouble-free performance.

GARRARD's speed regulated, governor-controlled motor, using a steel governor disc, is fashioned to give powerful and regulated running at all times. The motor runs silently at maximum record loads without vibration, rumble or speed variations. The speed regulator feature permits adjustment of motor speed to 78 rpm or to retard or accelerate the tempo of any any record to suit individual tastes or to adjust for varying line voltages. The motor has a positive automatic stop which shuts the motor off after the last record is played. The on-off switch is located on the mounting plate in such a position as to prevent interference with the free movement of the tonearm.

The RC65 is a "mixer" Changer. It accommodates both 10" and 12" records intermixed in any assortment and in any combination. There are no buttons or switches to throw. It is entirely automatic.

GARRARD's exclusive true-tangent tone arm is jewel-mounted and equipped with ball-bearings. It is constructed to give perfect parallel lift, to set down on records gently, to track silently and to give genuine "floating" response.

GARRARD Type V Phono Assembly

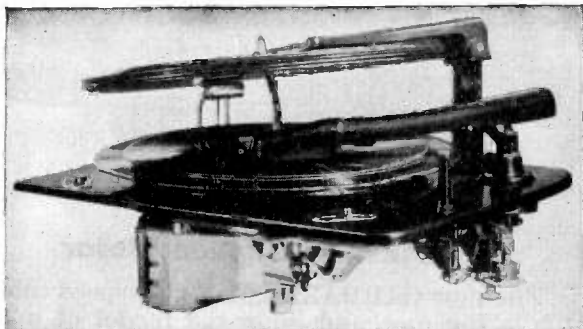
The newest unit of a long line of high quality phono assemblies for playing single records.

Here again, GARRARD has spared no effort or expense to produce the finest possible player for those who demand the best in record reproduction.

The entire assembly is typically GARRARD in that it features the finest type of phono motor—speed-regulated and governor-controlled. This exclusive feature makes it possible to adjust to perfect speed (78 rpm) or to accelerate or retard the tempo to suit the listener.

The Type V Assembly features an entirely new, unique mounting arrangement which represents the first genuine forward step in mounting design. This "bow" mounting is so efficient that even a blow struck on the motor board will not cause the tone arm to skip or repeat a groove. This is another exclusive feature and another GARRARD "first."

NOTE: ALL OF THE ABOVE PRICES INCLUDE FEDERAL EXCISE TAX.

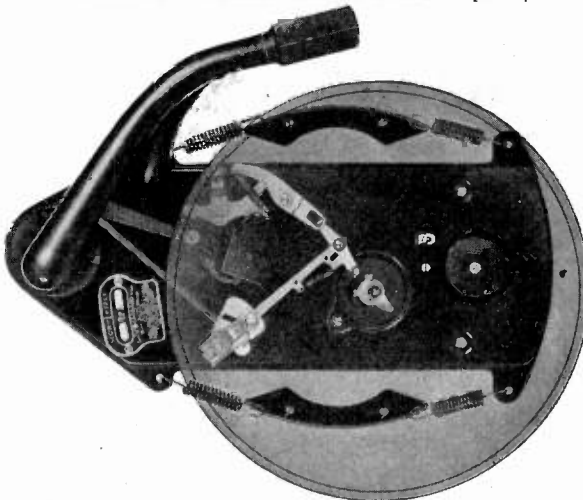


Available with your choice of quality pickups: (a) high fidelity Crystal pickup with permanent stylus, (b) Crystal pickup for use with replaceable needles, (c) GARRARD Magnetic Pickup, (d) G.E. Variable Reluctance Pickup.

GARRARD offers the unique advantage of having a replaceable pickup head which can accommodate any of the popular cartridges available. It is also initially offered to you with your choice of either a low-pressure Crystal with permanent needle OR Crystal for use with replaceable needles OR with the GARRARD Standard Magnetic Pickup OR with the GE Variable Reluctance Pickup. There is no change in price in any case. Simply specify which is preferred when ordering.

Minimum cabinet dimensions are 15" wide x 13" deep x 5 1/2" clearance above the unit plate and 4 1/2" clearance below the unit plate.

Model 65/D — AC Model, Dual Voltage Motor for 110/130 and 200/250 volts, 50/60 cycles; furnished with your choice of pickup as described above.....Net price \$69.50
Model 65/U — Universal AC-DC Model; 25/60 cycles; 110/130 and 200/250 volts; furnished with your choice of pickup as described above.....Net price \$89.50



Minimum cabinet dimensions are 15" wide x 13" deep x 4" clearance below the motorboard and 3 1/2" clearance above.

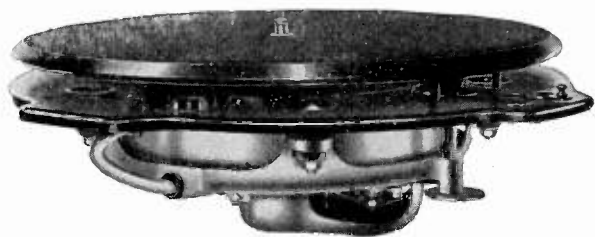
Type V/D — AC Model, for 110/130 and 200/250 volts, 50/60 cycles; furnished with your choice of pickup as described at left. Net Price \$33.50

Type V/U — Universal AC-DC Model; 25/60 cycles; 110/130 and 200/250 volts; furnished with your choice of pickup as described at left.....Net price \$45.00

GARRARD



GARRARD



GARRARD Two-Speed Motor

The new GARRARD 201-V two-speed motor is the new and improved model of our internationally famous 201T. It is now offered in its latest trouble-free form exactly as produced for the U. S. Navy and British Admiralty during the War.

The governor-controlled motor operates at either 33-1/3 or 78 rpm with absolute constancy and without waver or rumble. It is ideally suited for use where truly superior reproduction is desired.

Because of its extra-heavy rotor, which is slow-running, the resulting torque makes this motor amazingly smooth and silent. In sheer performance, it is the finest we have to offer. It is a self-starting induction type unit and is fitted with the patented GARRARD governor to insure perfect regularity.

The 201-V is equipped with Speed Regulator by means of which a wide range of speeds is possible—as well as perfect adjustment at 33-1/3 or 78 rpm. This regulator is on an extension arm so that 16" records can be speed-controlled.

MODEL 201-V—Two speeds, 33 1/3 and 78 rpm; dual voltage, AC-110/130 and 200/250 volts, 40/60 cycles.
Net Price \$65.00



GARRARD Carrying Cases and GARRARD Table Model Cabinets are made especially for us, to our standards.

The Carrying Case is of solid wood throughout and is covered with finest procurable parchment type material. Sewn leather edges run completely around the case. The Hardware used is the very finest and it has two locking snaps, with keys.

The Table Model Cabinet is a hand-finished case finished in striking mahogany. Its appearance is that of a high quality piece of furniture, and it makes possible the easy creation of "Combinations."



PRICES

MODEL CC1—Carrying Case with Motor Board uncut.
Net Price \$19.50

MODEL CC6—Carrying Case with Motor Board cut out to accommodate GARRARD Model RC65 Record Changer.
Net Price \$19.50

MODEL TM1—Table Model Cabinet with Motor Board uncut.
Net Price \$25.00

MODEL TM6—Table Model Cabinet with Motor Board cut out to accommodate Model RC65 Record changer.
Net Price \$25.00

GARRARD SALES CORPORATION

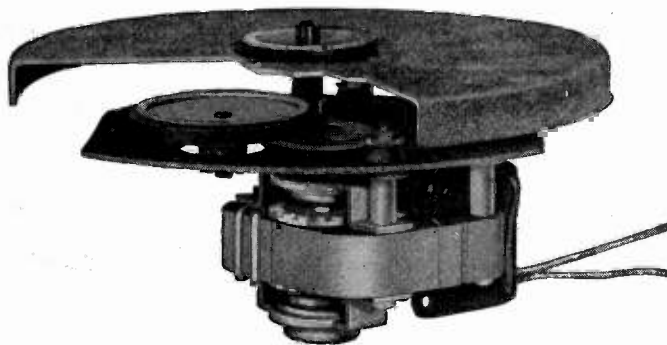
alliance

PHONOMOTORS

New 45 r.p.m. Phonomotor for Record Players

The new 45 r.p.m. record player Phonomotor, Model JP45, features a new motor which is designed specifically for this type of application. Exceptional features are quietness, freedom from mechanical vibration, no external fan, decreased height, and excellent speed regulation. On this unit the center disc is permanently fastened to the turntable and is designed for ease of record placement and removal. The unit is furnished with a 6½" O.D. turntable for RCA records with the 1½" diameter center hole.

NOMINAL RATING—45 r.p.m. for 5 gram stylus force with 117 volts, 60 cycles, 0.2 amps., and 10 watts input.



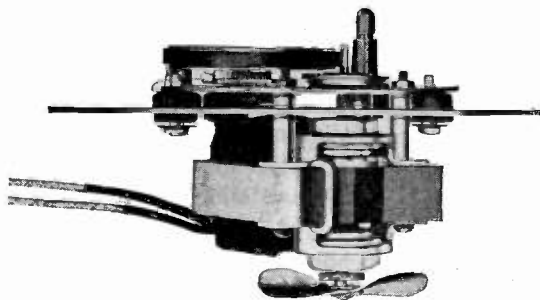
PHONOMOTOR MODEL JP45

New 45 r.p.m. record player PHONOMOTOR is designed for ease of record placement and removal.

New 33⅓ r.p.m. Phonomotor for Record Players

Here are three excellent record player phonomotors, Models MPS8, MPS9, and MPS10, for the 33⅓ r.p.m. long-play Micro-groove records. The idler tires are precision ground to extremely close limits, thus minimizing "wow." In each case the motor drive shaft is ground in its own bearings in order to minimize run-out. As is also the case with the Alliance 45 r.p.m. and 3-speed phonomotors for record players, each turntable bearing is rotary burnished to assure smoothness of operation. These units are furnished with 8", 9", or 10" O.D. turntables for records with conventional center holes.

NOMINAL RATING—33⅓ r.p.m. for 5 gram stylus force with 117 volts, 60 cycles, 0.3 amps., and 14½ watts input.



PHONOMOTOR MODELS MPS8, MPS9, AND MPS10
(with 8", 9", and 10" O.D. turntables, respectively).

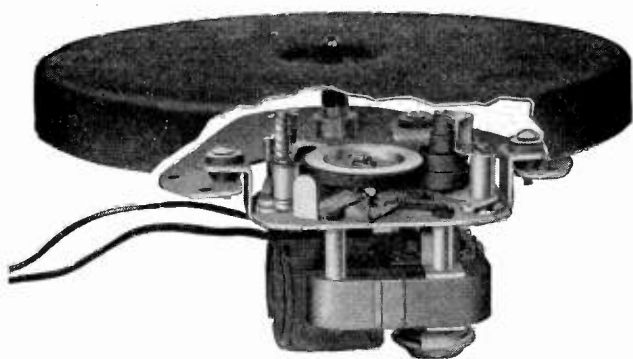
alliance

Powr-Pakt MOTORS

New 3-Speed Phonomotors for Record Players

Drive $33\frac{1}{3}$, 45, and 78.26 r.p.m. Records

The new Alliance 3-speed record player Phonomotors, Models JPT8 and JPT9, are so advanced in design that mechanical operation is unexcelled! There are no rubber bands or belts to slip, snap, distort, or stretch . . . no needle shafts to indent tires under stall. A totally new motor assures minimum rumble, hum, and unequalled speed regulation! Motor has minimum height — no external fan — electronically dynamic balanced rotor — new vibration reduction mounting! Driving mechanism assures unimpaired performance at all speeds — has fewer moving parts! These units are furnished with 8" or 9" O.D. turntables designed for records with either the conventional or the RCA $1\frac{1}{2}$ " diameter center holes. A removable center disc is provided to fit the $1\frac{1}{2}$ " diameter center holes. This disc is reversible and will go on either way. Its height is designed for ease of record handling.



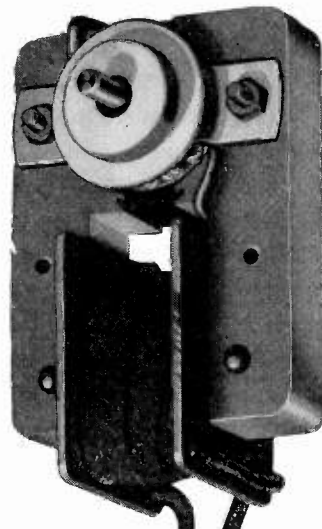
PHONOMOTOR MODELS JPT 8 AND JPT9
(with 8" and 9" O.D. turntables, respectively).

NOMINAL RATING— $33\frac{1}{3}$ or 45 r.p.m. for 5 gram stylus force and 78.26 r.p.m. for 10 gram stylus force with 117 volts, 60 cycles, 0.3 amps., and $14\frac{1}{2}$ watts input.

Powr-Pakt Model MS Motor

The Alliance Powr-Pakt Model MS motor is suitable for driving toys or other light loads. It is an adaptation of the quiet, smooth running motor which is used to power the Models MPS8, MPS9, and MPS10 Phonomotors. It measures $3\frac{1}{8}$ " x 2" x $1\frac{3}{4}$ " not including the $\frac{7}{16}$ " long shaft extension which has an $\frac{1}{8}$ " diameter. Rotation is clockwise facing the shaft extension. Its self aligning bearings are of the porous bronze oilless type.

NOMINAL RATING—2800 r.p.m. at full load with 117 volts, 60 cycles, 0.3 amps., and 16 watts input. More detailed specifications are available upon request.



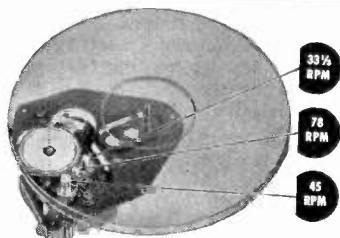
MOTOR MODEL MS

G GENERAL INDUSTRIES G

Smooth Power PHONOGRAPH MOTORS, RECORDERS AND RECORD CHANGER-RECORDERS

Suitable for every phonograph instrument where low cost, dependable performance, compactness, light weight and quietness of operation are important considerations. GI phonomotors are even in speed and have ample power to play 10" and 12" records. Fan cooling permits use in partially closed cabinets. Designed to comply with Underwriters' Laboratories' requirements.

THREE-SPEED PHONOGRAPH MOTOR



MODEL TS — 45, 78, 33-1/3 R. P. M.

115 volts a. c., 60 cycles

A novel 45-78-33 $\frac{1}{3}$ R.P.M. rim drive, 2-pole motor. Very compact. Employs two identical Neoprene belts for 45 and 33 $\frac{1}{3}$ R.P.M. speeds. 78 R.P.M. speed is obtained direct from rotor shaft. Speed is changed by a simple external lever movement. Specially designed and manufactured to hold wow and rumble to a minimum for excellent reproduction of the new records. Turntable shaft revolves with turntable, and is grooved for turntable clip. Available with 6 $\frac{1}{2}$ ", 8" or 9" turntable, using same mounting plate. A 45 R.P.M. record adaptor and a speed indicator dial are furnished with each motor.

List Price, \$10.85

Dimensions: Length—3 $\frac{1}{8}$ "; Width—2 $\frac{1}{4}$ "; Depth—2 $\frac{3}{8}$ " below mounting plate. Furnished complete with turntable and mounting plate ready for installation. Shipping weight—4 lbs.

DUAL-SPEED PHONOGRAPH MOTORS

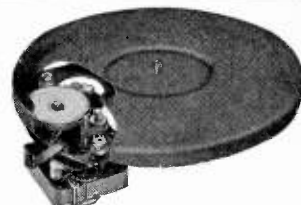
MODEL DS — 45, 33-1/3 R. P. M.

115 volts a. c., 60 cycles

A novel 45-33 $\frac{1}{3}$ R.P.M. rim drive, 2-pole motor. Very compact. Employs a Neoprene belt for the 33 $\frac{1}{3}$ R.P.M. speed. 45 R.P.M. speed is obtained direct from rotor shaft. Speed is changed by a simple external lever movement. Specially designed and manufactured to hold wow and rumble to a minimum for excellent reproduction of the new records. Turntable shaft revolves with turntable, and is grooved for turntable clip. Available with 6 $\frac{1}{2}$ ", 8" or 9" turntable, using same mounting plate.

List Price, \$10.75

Dimensions: Length—3 $\frac{1}{8}$ "; Width—2 $\frac{1}{4}$ "; Depth—2 $\frac{3}{8}$ " below mounting plate. Furnished complete with turntable and mounting plate ready for installation. Shipping weight—4 lbs.



MODEL DM — 33-1/3, 78 R. P. M. • MODEL DE — 45, 78 R.P.M.

115 volts a. c., 60 cycles

Novel and ingenious rim drive, 2-pole motors. Very compact. Employs a Neoprene belt for slow speeds. 78 R.P.M. speed is obtained direct from rotor shaft. Speed is changed by a simple external lever movement. Specially designed and manufactured to hold wow and rumble to a minimum for excellent reproduction of new records. Turntable shaft revolves with turntable, and is grooved for turntable clip. Available with 9" turntable.

List Price, \$10.75

Dimensions: Length—3 $\frac{1}{8}$ "; Width—2 $\frac{1}{4}$ "; Depth—2 $\frac{3}{8}$ " below mounting plate. Furnished complete with 9" turntable and mounting plate ready for installation. Shipping weight—4 lbs.



MODEL DR — 78, 33-1/3 R. P. M. • MODEL DZ — 78, 45 R. P. M.

MODEL DV — 45, 33-1/3 R. P. M.

115 volts a. c., 60 cycles

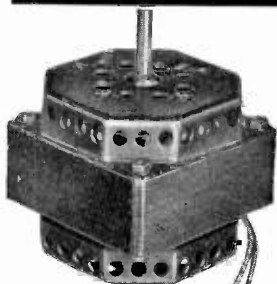
Deluxe rim drive, 4-pole motors with a simple and positive mechanism for shifting from one speed to the other. Speed change is accomplished by means of an external push-pull lever. An ingenious mechanism raises and lowers the entire idler assembly, disengages the idler wheel from the two-diameter motor shaft and moves the idler wheel from one diameter to the other. At the slow speed the idler wheel engages the small diameter of the motor shaft; at the fast speed it engages the large diameter.

List Price, \$18.50

Dimensions: Length—6"; Width—5 $\frac{5}{8}$ "; Depth—2 $\frac{5}{8}$ " below mounting plate. Furnished complete with 10" turntable and mounting plate ready for installation. Shipping weight—6 $\frac{1}{2}$ lbs.



TAPE, WIRE AND DISC RECORDING MOTORS



Heavy duty 4-pole, shaded pole induction motors. $\frac{1}{70}$ H.P. Free speed: 1740 R.P.M. Maximum running torque: 12 ounce-inches.

Features include: A locating and locking arrangement for both top and bottom covers which assures high accuracy in alignment of rotor within the stator bore; new air intake; dual cooling fans and self-aligning, oil-impregnated sleeve bearings.

These high torque motors are used in practically all tape, wire and disc recorders now being manufactured.

List Price, \$12.00

Dimensions: Length—3 $\frac{3}{8}$ "; Width—3 $\frac{3}{8}$ "; Depth 3" below mounting plate; Shaft diameter— $\frac{5}{16}$ "

115 volts a. c., 60 cycles

G GENERAL INDUSTRIES G

Smooth Power PHONOGRAPH MOTORS, RECORDERS AND RECORD CHANGER-RECORDERS

CONSTANT SPEED ELECTRIC PHONOMOTORS

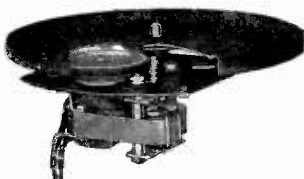


**Model MX Model MX-3
Model MX-45**

- MODEL MX** — 78 R. P. M. **List Price, \$7.95**
 - MODEL MX3** — 33-1/3 R. P. M. **List Price, 9.15**
 - MODEL MX45** — 45 R. P. M. **List Price, 9.15**
- 115 volts a. c., 60 cycles**

Rim drive, 2-pole motor with novel idler arrangement insuring quiet operation. Motor is also insulated from mounting plate to eliminate vibration. Turntable shaft revolves with turntable, and is grooved for turntable clip. Novel bearing construction insures rigid and permanent alignment of motor shaft. Oilless bearings. Furnished with 9" turntable and complete with mounting plate ready for installation.

Dimensions: Length—3 1/8"; Width—2 1/4"; Depth—2 1/4" below mounting plate.
Packed in individual cartons. Shipping weight—4 lbs.

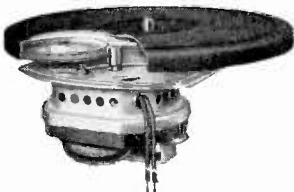


**Model LX Model LX-3
Model LX-45**

- MODEL LX** — 78 R. P. M. **List Price, \$6.80**
 - MODEL LX3** — 33-1/3 R. P. M. **List Price, 8.00**
 - MODEL LX45** — 45 R. P. M. **List Price, 8.00**
- 115 volts a. c., 60 cycles**

Rim drive, 2-pole motor. Rubber insulated from both mounting plate and turntable for quiet operation. Turntable shaft revolves with turntable, and is grooved for turntable clip. Furnished with 9" turntable and complete with mounting plate ready for installation.

Dimensions: Length—3 1/2"; Width—4 2"; Depth—2" below mounting plate.
Packed in individual cartons. Shipping weight—4 lbs.



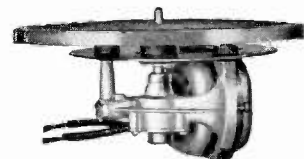
**Model RX Model RX-3
Model RX-45**

- MODEL RX** — 78 R. P. M. **List Price, \$10.25**
 - MODEL RX3** — 33-1/3 R. P. M. **List Price, 11.95**
 - MODEL RX45** — 45 R. P. M. **List Price, 11.95**
- 115 volts a. c., 60 cycles**

Rim drive, 4-pole motor. Rubber insulated from both mounting plate and turntable for quiet operation. Driving pulley, idler and turntable are positively aligned in one plane for efficient performance. Turntable shaft revolves with turntable and is grooved for turntable clip. Furnished with 9" turntable and complete with mounting plate, ready for installation.

EXTRA FOR 10" TURNTABLE, 20 CENTS EACH

Dimensions: Length—4 1/8"; Width—3 3/8"; Depth—2 7/8" below mounting plate.
Packed in individual cartons. Shipping weight—5 lbs.



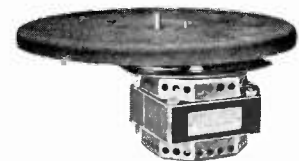
Models CX & CX3

- MODEL CX** — 78 R. P. M. **List Price, \$14.25**
 - MODEL CX3** — 33-1/3 R. P. M. **List Price, 16.00**
- 115 volts a. c., 60 cycles**

Gear drive, 4-pole motor. Fully enclosed, with silent, helical-cut gears running in oil bath within the sealed housing. Patented combination rubber turntable drive sleeve and record centering tip insure mechanical and electrical insulation between turntable and motor. Furnished complete with mounting plate, ready for installation; available with 9" turntable.

EXTRA FOR 10" TURNTABLE, 30 CENTS EACH

Dimensions: Length—4 1/4"; Width—4 1/8"; Depth—3 1/8" below mounting plate.
Packed in individual cartons. Shipping weight—6 lbs.



**Model RM4 Model RM4-3
Model RM4-45**

- MODEL RM4** — 78 R. P. M. **List Price, \$16.50**
 - MODEL RM4-3** — 33-1/3 R. P. M. **List Price, 18.30**
 - MODEL RM4-45** — 45 R. P. M. **List Price, 18.30**
- 115 volts a. c., 60 cycles**

Heavy duty, rim drive, 4-pole motor. Rubber insulated from both mounting plate and turntable for exceptionally quiet operation. Turntable shaft revolves with turntable and is grooved for holding clip. Retractable pin in turntable permits playing standard records without adjustment. Efficient performance is assured by positive alignment of driving pulleys, idler and turntable in one plane. Furnished with 10" weighted turntable and complete with mounting plate ready for installation.

Dimensions: Length—3 3/8"; Width—3 3/8"; Depth—2 1/8" below mounting plate.
Packed in individual cartons. Shipping weight—9 lbs.



GENERAL INDUSTRIES



Smooth Power PHONOGRAPH MOTORS, RECORDERS AND RECORD CHANGER-RECORDERS

HOME RECORDING AND PHONOGRAPH ASSEMBLIES

MODEL GI-R85L — LP, 78 and 33-1/3 R. P. M.
with conversion spring for changing the 33-1/3
R. P. M. speed to 45 R. P. M.

MODEL GI-R90L — 78 & 33-1/3 R. P. M. —
Standard

115 volts a. c.,
60 cycles

Model GI-R90L is the standard model which has been in the GI line for several years. It cuts 120 lines per inch, and plays back records with the standard needle pressure.

The Model GI-R85L incorporates a dual purpose pickup cartridge and an excellent and simple adjustment for playing the LP records and standard records. It cuts 160 lines per inch. In a separate envelope is furnished a conversion spring for changing the 33 1/3 R.P.M. speed to 45 R.P.M. with mounting instructions printed thereon.

Both models cut records up to 10" diameter . . . play records up to 12" diameter. To shift motor from one speed to the other, merely turn the speed change dial. Beautiful walnut wood grain on steel base plate. Streamline plastic trim on pickup and cutter arm attractively engraved with legends "Reproducer" and "Recorder". Turntable recessed into well in base plate. Merely lower cutting arm over record disc to start recording. Convenient, depth-of-cut adjustment. Dynamically-balanced, rim drive, 4-pole motor. Compensating switch operated by speed change dial.



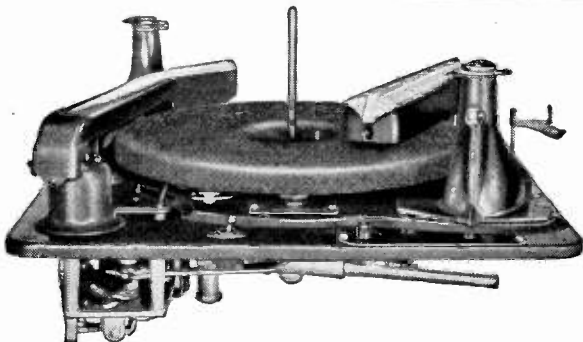
MODEL GI-R85L — LP List Price, \$53.50

MODEL GI-R90L — STANDARD List Price, 47.50

Assembly includes dual speed motor; 10" weighted turntable; crystal cutter; crystal pickup; compensation switch; pickup and cutter arm rests; drawn steel base plate with formed down edges.

Above prices include crystal cutter.
For (M41-10) magnetic cutter add \$2.00 each.
Dimensions: Base plate—15" wide; 11 1/2" front to back; height above lower edge of base plate—2 3/4"; depth below lower edge of base plate—3 3/8". Packed in individual cartons. Shipping weight—17 lbs.

COMBINATION RECORD-CHANGER RECORDER



One lever to move when changing from 10" to 12" records, removing records or to set for manual operation and recording. With lever in extreme position, all sizes of records can be removed from the turntable without interference. In manual position, tripping mechanism is inoperative. Non-jamming record handling fingers which do not extend past record lead-in space. Pressing reject button drops the first record onto the turntable and automatically positions the pickup on the record. Records may be ejected instantly. Handles records with either run-in or oscillating trip grooves. Means provided for guiding pickup needle into the playing grooves on records without lead-in grooves. Pickup arm supported at all times when not resting on record. Changing mechanism is positive and quiet in operation. Shock mounting provided which permits isolation of the entire assembly from the cabinet. Brown iridescent finish, streamline plastic trim on pickup and cutter arms attractively engraved with legends "Reproducer" and "Recorder".

Furnished with crystal cutter, crystal pickup, 10" weighted turntable, on and off switch with spring mounting hardware.

Add for (M41-10) magnetic cutter, \$2.00.

Dimensions: Base plate—14" x 14" x 3/8"; height above lower edge of base plate—5 1/8"; depth below edge of base plate—2 3/4". Packed in individual cartons. Shipping weight—24 1/2 lbs.

MODEL GI-RC130L — 78 R. P. M.
115 volts a. c., 60 cycles List Price, \$69.75

Cuts records up to 10" diameter. Plays twelve 10" or ten 12" records automatically. Only necessary to lower cutting arm over record disc to start recording operation. Convenient depth-of-cut adjustment on top of cutting arm. Turntable has retractable record driving pin. Heavy duty, dynamically-balanced, recording motor.

MASTER JR. SPRING MOTOR

Plays two 10" selections from one winding. Exceptionally quiet and uniform in speed. Turntable is held in place by turntable-holding clip. Furnished with 9" turntable, winding crank and esutecheon; turntable brake; dial and pointer speed regulator; mounting screws and washers. Dimensions: Length—5 3/8"; Width—4 1/4"; Depth—2 1/8" from top surface of casting to bottom.

MODEL: MASTER JR. — 78 R. P. M. List, \$10.25
Single Spring Type. Price includes 9" turntable and parts.

AUTOMATIC STOP SWITCH

Furnished optionally for use with electric motors. Cannot be used with spring motors, recording units or record changers.

MODEL 12670 List, \$1.45
Automatic Stop Switch for use with 9" or 10" turntables.

V-M *Automatic* RECORD CHANGERS



MODEL 4060 on "plug-in" base. Also available as replacement unit (Model 406).



MODEL 4070 on "plug-in" base. Also available as replacement unit (Model 407).



Model 8025 Portable



Model 100

TRI-O-MATIC

The new V-M Model 4060 Tri-O-Matic AUTOMATICALLY plays all records, all sizes, all speeds. While "Automatic Operation for all records" is the outstanding sales feature, from a practical standpoint the many record protecting features are equally important. Records are LOWERED—NOT DROPPED—on the Spindle Shelf. There is no wobbling down the spindle—no slap or scrape—no possibility of the tiny microscopic grooves of the new type records being damaged in any way.

Controls are simple and located at the front, easily accessible in any installation. All moving parts in Tri-O-Matic Changers are factory-adjusted—riveted or pinned in adjustment—insuring years of trouble-free performance. Actually, only two adjustments are ever needed—needle height and set-down—and both are accessible from above the base plate.

List Price
\$59.50

The V-M Model 4070 is a custom-styled version of the 4060, with smooth-flowing lines that readily adapt themselves to either modern or period cabinets. It is especially recommended for "custom built" installations.

List Price
\$63.50

OTHER FEATURES: Plays any ten 12" or 10" records of the same speed INTERMIXED—AUTOMATICALLY SHUTS OFF after last record—velvet action Velocity Trip—Dual Needle, Reversible Cartridge—Quick, Quiet Change Cycle—Minimum Mounting Space (13 1/8" wide, 12 1/4" long, 7 1/4" overall height).

Models 4070, 407, 4060 and 406 also available with G.E. Variable Reluctance Cartridges.

TRI-O-SPEED

Available in two styles—as a Portable unit, and on an Amplified Base—the V-M Tri-O-Speed Series has many outstanding sales features. The Portable Model 8025 plays all records now being manufactured, yet it is priced competitively with many single speed Portables. It has an exceptional amplifying system and a "jam-proof" and "child-proof" changer of simple design. The Tri-O-Speed Portable plays 10" and 12" 33 1/3 and 78 rpm. records AUTOMATICALLY, and 7" 45 and 33 1/3 rpm. records manually. An attractive, durable Leatherette carrying case adds eye appeal and its light weight (only 23 lbs.) makes it practical for traveling.

List Price
\$69.50

Model 8022 Tri-O-Speed Record Player is the same basic unit, on an amplified base. It is an ideal player for commercial sound installations—skating rinks, dancing schools, clubs, etc.—as well as for home use.

List Price
\$59.95

Both units carry full Underwriter's Laboratory Approval, and both operate on 110-volt, 60-cycle, A/C Current.

MODEL 100

Cost-conscious music lovers form a large market for the V-M Model 100. It is especially appealing to "beginners," since it captures true reproduction and exquisite tonal quality from all types of recordings—yet is priced to fit within modest budgets. The Model 100 is a completely self-contained unit with its own amplifier, loudspeaker and tone and volume controls. As simple to operate as a single speed player, the Model 100 plays all records, all sizes, all speeds, manually. It carries full Underwriter's Laboratory Approval.

List Price
\$34.95





THE RECORDISC CORP.

395 BROADWAY, NEW YORK 13, N. Y. • CABLE ADDRESS: RECORDISC, NEW YORK, N. Y.
EXPORT DEPT.: ROYAL NATIONAL COMPANY, INC., 89 BROAD STREET, NEW YORK

WORLD-FAMOUS HOME RECORDING BLANKS

ORANGE LABEL

Popular composition base disc . . . a party favorite! Heavy and firm, it will take punishment, yet it is coated carefully with our standard RECORDISC surface compound. The acme of amateur transcription blanks.

PURPLE LABEL

Lightweight aluminum base disc with heavyweight selling power! The lowest-priced high-quality disc with an inexpensive .012 aluminum base, designed for amateurs desiring semi-professional reproduction.

RED LABEL

High-fidelity, volume selling disc with .021 aluminum base. Coated with flawless RECORDISC compound. Professional quality in smaller sizes for those who want the finest. Professional nitrate coating.

"GM" LABEL

Available in the three larger sizes only, these discs are made on heavy .021 aluminum base, coated with critically selected compound. Precision-made, and minutely inspected, they are guaranteed for perfect performance and long use.

SPECIAL ORDER

At no increase in cost, made up to order, with the same quality and in the same sizes as the Orange and Red label blanks, RECORDISC offer their YELLOW and BROWN labels, using ethyl cellulose coating with the U.L. approved film, instead of regular cellulose nitrate.

ECONOMY LABEL

To meet the huge demand for extra-low-cost blanks, RECORDISC offers these slightly imperfect Red Label blanks which have failed to meet our rigid inspection. They do not bear the RECORDISC trademark. They will give at least the equivalent of one full side of perfect recording.

LIST PRICES †

LABEL	BASE	6 1/2"	8"	10"	12"
ORANGE	Bond	15c	25c	35c	
PURPLE	Aluminum	20c	30c	45c	
RED	Aluminum	30c	40c	60c	80c
"GM"	Aluminum		60c	80c	\$1.00
ECONOMY	Aluminum	15c	20c	30c	

PRECISION-PERFECT PROFESSIONAL RECORDING DISCS

Designed for broadcasting stations and recording studios. Years of costly research and the valuable experience gained as the world's largest producer of home recording blanks have been combined to produce the perfect professional recording disc . . . possessing a fidelity heretofore thought impossible. Each blank guaranteed for five full years.

LIST PRICES †

	10"	11 7/8"	12"	13 1/4"	16"	17 1/4"
1 ★ STAR consistently dependable, single face	\$.85		\$1.40		\$2.35	
2 ★ ★ STAR precision-processed, double-face	\$.90		\$1.50		\$2.70	
3 ★ ★ ★ STAR perfectly flawless, double-face	\$1.15		\$1.85		\$3.40	
MASTER DISCS double-face		\$2.35		\$3.05		\$5.10

RECORDISC RECORDING STYLI Best Suited for Best Recordings

SAPPHIRE STYLUS

A specially lapped sapphire point on each stylus cuts clean shiny grooves with less surface noise than any similar stylus. As much as 10 hours of recording time . . . can be sharpened as many as 15 times. Packed in individual jewel box. LIST PRICE: **650**



SPECIAL QX-5



A precision-made stylus made of processed and tempered steel . . . with an expensive filter cutting point and recessed shank. Smooth easy cutting for a fine but non-fragile recording tip. LIST PRICE: **75c**

HAND-LAPPED STEEL STYLUS



Carefully hand-lapped and micro-inspected for greatest fidelity at lowest price. A specially designed stylus that gives good service to semi-professional and amateur recordists. Packed one to the protective card. LIST PRICE: **50c**

STEEL STYLI (CHROME PLATED)



A fine economy stylus that gives excellent service during its recording life of approximately one hour. Shiny chrome-plate on hardened steel. Packed in protective cards. LIST: **3 for \$1**

STELLITE STYLUS

Carefully machined of special, hardened metal alloy . . . less fragile than costly sapphire styli. Recommended for less experienced recording operators. Packed one to a protective card. LIST PRICE: **200**



RECORDISC ACCESSORIES

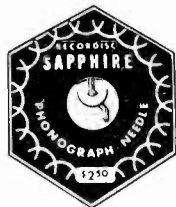
STROBOSCOPE. Determines turntable speed accurately for better recordings. . . \$1
RECORD PRESERVER. Cleans and preserves freshly-cut surfaces. 2 oz. bot. . . 45c
TURNTABLE LUBRICANT. For smooth operation on all parts subject to friction. . . 40c
MAILING ENVELOPES. Heavy brown, Kraft, lined. 6 1/2" . . . 10c 8" . . . 12c 10" . . . 15c



THE RECORDISC CORP.

395 BROADWAY, NEW YORK 13, N. Y. • CABLE ADDRESS: RECORDISC, NEW YORK, N. Y.
EXPORT DEPT.: ROYAL NATIONAL COMPANY, INC., 89 BROAD STREET, NEW YORK

BETTER PLAYBACK NEEDLES



SAPPHIRE

Critical music lovers and discerning artists prefer this most perfect of precious needles! Designed by RECORDISC engineers for top tone-fidelity, bell-like clarity and uniform performance. Guaranteed for 7000 plays.

LIST PRICE † **\$2.50**



IMPERIAL

Made to our own formula, "Imperial" needles provide full tonal range without scratch or hiss. Minimum of needle "talk" and record wear. Perfect playbacks up to 5000 times.

LIST PRICE † **\$1.50**



CORONET

A precious metal alloy needle with a satin-smooth, non-corrosive tip. Clear, clean reproduction makes this needle the favorite of juke box and record changer owners. 3000 plays.

LIST PRICE † **\$1.00**



SHADOWGRAPHED

Scientifically designed transcription needle to fit perfectly into the grooves of recording and transcription blanks. Wide frequency response and unusual tonal brilliance.

25 in envelope. LIST PRICE † **25¢** Pkg.

→ Super-Tone* ← RECORDING WIRE

DESIGNED
for
SATISFACTION



This handy wire recording guide and program data listing chart in every box. Expert hints for better recordings.

Like all the other fine RECORDISC products this stainless steel recording wire is the result of ceaseless study. Made with all the experience and training at our command, Super-Tone* is truly designed for satisfaction. Super-Tone* features outstanding durability, ultra-high fidelity, and ease of erasability. It needs no oil or grease for superb results.

3 SIZES

1/4 hour • 1/2 hour • 1 hour
to meet all needs



Super-Tone* is ready for immediate use. Each spool contains a serrated plastic leader, supplied by RECORDISC without extra cost, for machines with a turntable attachment. If not desired, it is simply cut off with a scissors.

Super-Tone* is carefully wound on standardized spools that meet R.M.A. specifications, and will fit any machine except magazine loader type. Packaged in a sturdy box for convenient storage, with no detail overlooked, Super-Tone* will meet the needs of every wire recording enthusiast.

LIST PRICES †

1/4 hour spool	\$2.00
1/2 hour spool	3.00
1 hour spool	5.00
Empty spool	.75

*Reg. U. S. Pat. Off.



REEVES

Soundcraft



FAMOUS NAME SOUND RECORDING DISCS

"THE BROADCASTING STATION STANDARD"

The 'BROADCASTER'

A MASTER selection in instantaneous sizes for vitally important recordings. An "extra fare" product in a class by itself. Perfect recording area, perfect edges, flat bases guaranteed.

Size	Standard Package	List Price each	Your Net at 40% off List in Std. Pkgs.
10" Double Face	20	\$1.40	\$0.84
12" " "	20	2.20	1.32
16" " "	20	3.95	2.37
10" Single Face	20	.90	.54
12" " "	20	1.50	.90
16" " "	20	2.75	1.65

The 'PLAYBACK'

A standard broadcasting-quality blank record for all professional uses in radio stations, recording and motion picture studios. Physical and sound properties equal to the best competitive blanks plus Soundcraft's many extra features.

6 1/2" Double Face	20	\$0.55	\$0.33
8" " "	20	.80	.48
10" " "	20	1.15	.69
12" " "	20	1.90	1.14
16" " "	20	3.45	2.07
10" Single Face	20	.80	.48
12" " "	20	1.40	.84
16" " "	20	2.40	1.44

The 'AUDITION'

A selection from the runs of 'BROADCASTERS' and 'PLAYBACKS' having minor physical defects outside of the recording areas. Suitable for less important radio and sound studio applications, for schools, amateur, and better home recording. Competitive with other 2nd quality blanks.

6 1/2" Double Face	10*	\$0.45	\$0.27
8" " "	10*	.70	.42
10" " "	10*	1.00	.60
12" " "	20	1.55	.93
16" " "	20	2.65	1.59

*Distributor's unit is carton of four folders of ten discs each

The 'MAESTRO'

Oversize MASTER discs for originals in making phonograph records and transcriptions. No trademarks, only one drive hole to comply with processing requirements.

12" Double Face	20	\$2.40	\$1.44
13 1/4" " "	20	3.10	1.86
17 1/4" " "	20	5.25	3.15
12" Single Face	20	1.65	.99
13 1/4" " "	20	2.20	1.32
17 1/4" " "	20	3.25	1.95

Use 12" for 10" phono records
" 13 1/4" " 12" " "
" 17 1/4" " 16" transcriptions
"The kind the processors like"

Technical specifications of Soundcraft discs and
Soundcraft stylus information on reverse of this sheet



REEVES

Soundcraft

"MAKING THE
RECORDINGS
MILLIONS LISTEN TO"

SAPPHIRES—CUTTING & PLAYING

Code Word	Description	List Price	Net to Radio Station, Studio, etc. Less 50%
SAPPHIRE CUTTING STYLUS			
Sacut	Broadcast quality, dural shank, maximum length jewel Standard 87 deg. angle, 1.5 mil radius. (Specify long shank or short shank. Short will be sent if long is not specified.)	\$7.50	\$3.75
STELLITE CUTTING STYLUS			
Stell	For semi-professional recording. (Specify long or short shank as above.)	\$2.00	\$1.00
SAPPHIRE TRANSCRIPTION PLAYBACK NEEDLE			
Sapla	Straight dural shank, 2.5 mil radius.	\$6.50	\$3.25
RESHARPENING SERVICE			
	Sapphire Cutting Stylus	\$3.25	\$1.63
	Stellite Cutting Stylus	1.00	.50
	Sapphire Transcription Playback	2.50	1.25
Mail styli for resharpening in original packaging to your distributor.			

TECHNICAL SPECIFICATIONS OF SOUNDCRAFT DISCS

PHYSICAL PROPERTIES OF BLANK DISCS

Aluminum Bases: Alcoa #2 Reflector Sheet Stretcher-leveled for flatness $\frac{3}{4}$ hard.	Drive Pin Holes: .284" + or - .010
Base Thicknesses: 17 $\frac{1}{4}$ " & 13 $\frac{1}{4}$ " — .050 16" — .040; 12" — .032 10", 8", 6 $\frac{1}{2}$ " — .025	Coating: Recording lacquer applied by flow method. Coating Thickness: .007 to .008 Coating thickness increases slightly toward outer edge so that weight of pile of discs is carried on outer edges in recording margin.
Center Hole: .2845" + or - .001"	
Thread Behavior: Thread throws inward $\frac{1}{2}$ " to $\frac{1}{4}$ ". Can be picked up with minimum suction.	

CHEMICAL PROPERTIES OF COATINGS

Free from foreign matter down to size of 1 micron (thoroughly filtered).	Free from excess lubricant (successfully processed regularly by RCA, NBC, CRC, BART, AUDIO MATRIX, etc.).
Free from hard or soft spots (thoroughly mixed).	
No deterioration with age (inert plasticizers).	
Free from solvents (thoroughly dried).	Free from lacquer impurities to cause grey cutting.

SOUND PROPERTIES OF COATINGS

Frequency Response: Indefinable (due to factors of temperature, diameter, stylus tip dimensions, pickup characteristics, playback needle dimensions, etc.), but will playback at least 10,000 cycles per second under commercial conditions.	Surface Noise: — 55 to 60 db below maximum signal level commonly recordable.
	Wearlife: At least 100 playings of unmodulated groove without noticeable noise increase using W. E. 9A pickup, if kept dust-free.

audiodiscs

ALUMINUM BASE RECORDING DISCS

First produced in 1939, Audiodiscs quickly won the acceptance of both professional and amateur recordists. Because of their many superior qualities, these instantaneous recording discs have gained a place of eminent leadership in the recording world.

AN AUDIODISC FOR EVERY RECORDING NEED

RED LABEL AUDIODISCS are standard throughout the recording profession exceeding the professional demands of broadcasting stations, sound and movie studios and other exacting applications when top quality and dependability are essential requirements. Their many exclusive features have given new meaning to high fidelity recording and life-like reproduction. They are the finest discs obtainable.

SINGLE FACE RED LABEL AUDIODISCS have exactly the same fine qualities as standard Red Label and bring real economy to applications requiring but one side. Both sides are coated with the recordable side identified with embossed label.

YELLOW LABEL AUDIODISCS are the popular choice for all general purpose recording. Of high uniform quality, they are designed primarily for commercial recording studios, educational institutions, home recordists and other applications where the super quality Red Label Audiodiscs are not required.

REFERENCE LABEL AUDIODISCS are especially adapted for making test cuts, filing and reference recordings, auditions and equipment adjustments. Their unusually low price gives maximum economy.

BLUE LABEL AUDIODISCS offer the very best in recording quality for schools, homes, amateur and demonstration work. Made of exactly the same materials used in the manufacture of professional type Audiodiscs—except on a thinner aluminum base—these discs have brilliant tone, long-playing life, no audible needle scratch and are of consistent quality.

MASTER AUDIODISCS are the outstanding choice where copies of recordings (pressings) are to be made by the electroplating process. The excellence and consistent quality of these discs are well known to all record processors.

TYPE	Size (in.)	List Price Per Disc	Box Contains
RED LABEL	6 1/2	\$.55	25
	8	.80	25
	10	1.15	25
	12	1.85	25
	16	3.40	25
SINGLE FACE RED LABEL	10	.85	25
	12	1.40	25
	16	2.35	25
YELLOW LABEL	6 1/2	.45	25
	8	.70	25
	10	.90	25
	12	1.50	25
	16	2.70	25
REFERENCE LABEL	10	.70	25
	12	1.05	25
	16	1.90	25
BLUE LABEL	6 1/2	.35	50
	8	.50	50
	10	.75	50
MASTERS	12	2.35	25
	13 1/4	3.05	25
	17 1/4	5.10	25
	13 1/4 S.F.*	2.05	25
	17 1/4 S.F.*	3.05	25

Prices slightly higher in Pacific Coast and Southwestern Areas.



Copyright by U. C. P., Inc.

PROPERTIES THAT MAKE FOR AUDIODISC LEADERSHIP

UNIFORM COATING

Audiodiscs' exclusive machine process produces a smooth flat coating seven thousandths of an inch thick, free from swirls, waves and "orange peel" effect. The depth of the coating is consistent within one-half thousandth of an inch.

LONGER STYLUS LIFE

The homogeneous coating is free from microscopic abrasive materials and surface imperfection which, in inferior discs, damage cutting points and cause extraneous noises in playback.

SILENT BACKGROUND

Audiodiscs, cut under good recording conditions, are entirely free from audible "background scratch."

LONG PLAYBACK LIFE

With correct playing equipment an Audiodisc can be played for more than a hundred times with no noticeable increase in surface noise.

BRILLIANT FREQUENCY RESPONSE

These discs are noted for their brilliant high frequency response. Audiodiscs "speak for themselves" with quality performance that pleases the most critical recordist.

NO DETERIORATION WITH AGE

A special curing process removes from Audiodiscs the last trace of volatile constituents. Discs made over six years ago still cut easily and play back perfectly.

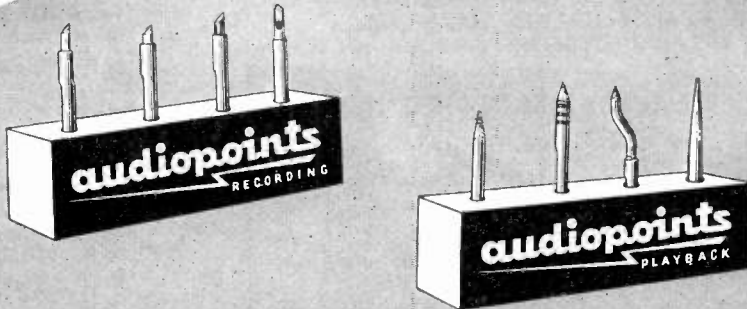
CONSISTENT QUALITY

Audiodiscs are manufactured by a unique automatic precision-machine process which assures consistent quality. This uniformity is a feature that helps engineer and amateur attain the highest degree of recording excellence.

GENERAL NOTE:

All Audiodiscs are manufactured on aluminum base. Red Label discs are embossed, Yellow and Reference discs have paper labels—Master Audiodiscs have no labels. All Audiodiscs have center-pin holes and three drive-pin holes except Master discs, which have one drive-pin hole. Lint-free envelopes are supplied in the packages of Red Label and Master discs. Other discs are packaged in their envelopes.

audiopoints



MICROSCOPICALLY MATCHED RECORDING AND PLAYBACK STYLI

THE NEWLY EXPANDED LINE of Audiopoints now covers the full range of recording and playback needs. There are Audiopoints that fully meet the requirements of the most exacting professional recordists. There are also Audiopoints which these engineers unhesitatingly recommend to the non-professional and the general public. Made by skilled craftsmen and conveniently packaged in cards, boxes or envelopes, Audiopoints are available in four types of recording styli and four types of playback points. Recording and playback Audiopoints for microgroove are also available.

RECORDING AUDIPOINTS

SAPPHIRE No. 14. Long recognized by recording engineers as the best recording stylus obtainable. Manufactured to rigid specifications the jeweled point with 87° included angle, correct radius and fine polish, cuts a silent, shiny groove for many hours. Disc-tested on a recording machine just before packaging. Also supplied with 70° included angle. List price \$7.25 (Resharpener cost \$3.25)

SAPPHIRE No. 202. A fine quality brass shank stylus, ideally suited for those recordists not requiring the super quality of Sapphire Audiopoint No. 14. List price \$5.25 (Resharpener cost \$2.60)

STELLITE No. 34. A favorite recording stylus with many professional and non-professional recordists. Though moderately priced, it is the very best stellite stylus produced. List price \$1.75 (Resharpener cost \$.85)

DIAMOND-LAPPED STEEL No. 50. Most practical stylus for home recordists when "first cost" is important. Being diamond-lapped, it cuts a quiet, shiny groove and gives from 15 to 30 minutes actual recording time. List price \$3 for \$1.00

PLAYBACK AUDIPOINTS

SAPPHIRE No. 113. Materials, workmanship and design make this playback point the finest made for original recordings and vinyl transcriptions. For years the outstanding choice of professional recordists. (Should not be used on shellac pressings.) List price \$6.50 (Resharpener cost \$2.25)

"RED CIRCLE" SAPPHIRE No. 103. With straight dural shank and fine polished jewel point. Excellent for original recordings, vinyl pressings and phonograph records. List price \$2.00 (Resharpener cost \$1.00)

"RED CIRCLE" SAPPHIRE No. 303. Bent dural shank sapphire needle that is tops for phonograph records. For the first time a phonograph needle with a resharpener feature. List price \$2.00 (Resharpener cost \$1.00)

STEEL TRANSCRIPTION NEEDLE No. 151. The ideal all-purpose transcription needle for original recordings, vinyl pressings and phonograph records. Quality performance is assured since each point undergoes a shadowgraph test. List price 100 for \$1.25—20 for \$.25

RESHARPENING SERVICE

Established years ago, our Resharpener Service gives real economy in the use of Audiopoints No. 14, No. 202, No. 34, No. 113, No. 103 and No. 303. (When returning points, care should be taken to package them individually. For this purpose the original protective package cards are strongly recommended.)

AUDIPOINT PACKAGING

All Audiopoints except the No. 151 Steel Transcription needles are packaged in attractive cards. No. 151 are packaged 20 to the envelope or 100 to the box. Cards containing points No. 34, No. 50, No. 103 and No. 303 are mounted on colorful display cards—one dozen package cards to each display card. The package cards are cellophane wrapped and mounted in slots in the display cards. A strip of Scotch Tape in the back holds these cards in place and permits easy, neat removal that does not tear the cellophane wrapper. Envelopes containing No. 151 points are similarly mounted on display cards—50 envelopes per card or 1,000 needles. Package cards containing points No. 14, No. 202 and No. 113 are shipped in small boxes. NOTE: Points No. 14, No. 202 and No. 34 are supplied in standard short shank and long shank.

"HOW TO MAKE GOOD RECORDINGS"

"How to Make Good Recordings" is an authoritative handbook on all phases of recording equipment, materials and technique. Now in its ninth printing, the new edition has been completely revised and expanded to 140 pages. Profusely illustrated with scores of photographs, charts and drawings, this book is written in non-technical language that all can understand. List price \$2.00.



AUDIODISC CHIP-CHASER

When making a disc recording with outside-in feed, it is necessary to have some way of brushing the thread out of the way of the stylus. The AUDIODISC Chip-Chaser is a perfect solution to this problem. It has a heavy base which is placed beside the turntable and requires no fastening down or adjusting. The Chip-Chaser automatically and infallibly brushes the thread toward the center, winding it up on the overhead post or drive pins, as the case may be. Available in two sizes: for 16" turntables and up to 12" turntables. List prices \$8.25 and \$5.00.





Instantaneous recording blanks for home and commercial use.



.. your guarantee of consistently fine performance

melodisc establishes new standards

of disc quality with ultra-fine grain lacquer and coating-control technique. No longer need you endure inconsistent performance from inferior recording discs. Today, with blanks available in quantity from many sources, you can pick and choose... selecting the one brand that consistently gives the best performance under your particular conditions.

No wartime substitute or "by-product", the new MELODISC blank is offered to the profession and hobbyist only after exhaustive tests have earned it the critical approval of many engineers, and recording studios. Ten years of patient research and practical development have resulted in MELODISC's radically new lacquer, and also a control technique which guards every step in the manufacture of the blank. BOTH of these exclusive factors combine to make the MELODISC an agent of consistently superior performance... and at an amazingly low price.

- ✓ HIGH FREQUENCY RESPONSE
- ✓ CUTTING CLEANLINESS
- ✓ CORRECT CHIP THROW
- ✓ LOW NOISE LEVEL
- ✓ FREEDOM FROM STATIC
- ✓ LONG-LIFE STABILITY
- ✓ FLAWLESS SURFACE

✓ *consistently*

LIST PRICES

White Label Heavy Aluminum Base	Standard Package	Red Label Light Aluminum Base
6 1/2"30	100	6 1/2"20
8"40	50	8"30
10"60	50	10"45
12"80	25	

FINEST PROFESSIONAL NITRATE COATING

AMERICA'S LARGEST MANUFACTURERS OF FINE HOME RECORDING BLANKS EXCLUSIVELY

Melodisc
ALUMINUM BASE

HOME

RECORDING PRODUCTS CORP.
50 MILL ROAD FREEPORT LONG ISLAND

**PLAYBACK
NEEDLES**

**RECORDING
NEEDLES**

**CHANGEABLE
NEEDLES**

**PRIVATE LABEL
NEEDLES**

**FIXED TYPE
NEEDLES**

Whatever your requirements

M. A. MILLER Mfg. Co.

can supply you with America's **FINEST QUALITY** needles in any quantity, for original installation and your replacement needs.

Special Needles of all types

made to your **EXACT** specifications. The needles shown here are only a few of the many special designs which we are equipped to produce for America's Radio Phonograph Industry. **JEWELLED** and **PRECIOUS METAL** points available for all needs.



Send us your specifications, samples or blueprints on special needles, precious metal alloy tipped instrument pivots and small metal parts. Our enlarged manufacturing capacity now enables us to furnish you the finest quality products of this nature in unlimited quantities.

Manufacturers of the World's Largest Line of Long Life Recording and Playback Needles

M. A. MILLER MANUFACTURING CO. Inc.

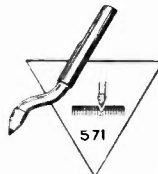
Carillon Dynamic NEEDLES

COIN MACHINE NEEDLES



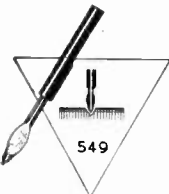
RIGID TYPE

Loud. A rigid needle especially adapted for the HEAVY pickups. Plays to 5000 records.
No. 544.....List \$1.00



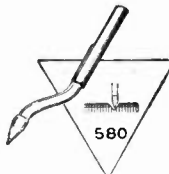
SAPPHIRE POINT . . . RUBY POINT

Our finest permanent type full tone needle with 1/8" offset Duraluminum shank and precision ground point set with finest quality long wearing jewel, good for 10,000 plays.
No. 571-S (Sapphire).....List \$2.00
No. 571-R (Ruby).....List \$2.50



MEDIUM

A semi-flexible type needle for HEAVY or LIGHTWEIGHT pickups, giving a medium tone and designed for the average juke installation. Up to 5000 plays.
No. 549.....List \$1.00



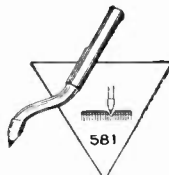
OSMIUM ALLOY

Similar in all respects to our No. 570 needle, but has 3/16" offset shank which gives a softer tone. A very high fidelity needle with a minimum of scratch and noise.
No. 580.....List \$1.50



SOFT

A flexible type needle giving a high fidelity reproduction. Especially recommended for the LIGHTWEIGHT pickups. Unsurpassed for reproducing beautiful music. Plays up to 5000 records.
No. 547.....List \$1.00



SAPPHIRE POINT . . . RUBY POINT

In all respects similar to our No. 571, but has 3/16" offset shank for softer tone. You cannot obtain a finer jeweled needle anywhere, regardless of price. Good for 10,000 plays.
No. 581-S (Sapphire).....List \$2.00
No. 581-R (Ruby).....List \$2.50



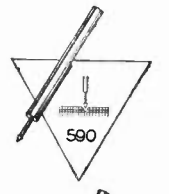
SAPPHIRE POINT

The best of quality in coin phonograph needles, especially designed for the new lightweight pickups. Tipped with sapphire, this needle cannot be excelled for true economical operation. Up to 7,500 plays per needle.
No. 1003.....List \$1.50



ALLOY TOOL STEEL

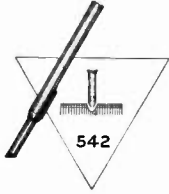
Made of the finest alloy tool steel, microscopically ground and polished with diamond dust. Recommended for amateur home use. Will cut approximately twenty-five six-inch records.
No. 543.....List 35c



HOME PLAY BACK NEEDLES MOUNTED ON HANDSOME COUNTER DISPLAYS HOLDING ONE DOZEN NEEDLES EACH

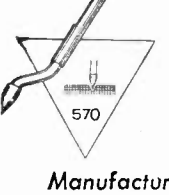
ALUMINUM SHANK

Osmium-alloy tip for high fidelity reproduction is carried on .020 needle shaft for low scratch level. The aluminum sleeves reduces vibration and needle-talk, minimizes record wear. One of the newer needle types.
No. 590.....List \$0.50



STELLITE

This patented Stellite recording stylus, when used by the advanced amateur or professional, will give results closely approximating the finest Sapphire. Hand-finished tip, cuts quiet smooth groove. Will cut approximately five hundred six-inch records.
No. 542.....List \$1.50



OSMIUM ALLOY

Scientific construction gives highest possible fidelity and full tone with lowest possible distortion and scratch. 1/8" offset. Precision shaped osmium alloy tip for long playing life.
No. 570.....List \$1.50

MICROGROOVE-LP-FINE GROOVE NEEDLES

All Carillon Dynamic Needles are available with small Radii—made to RMA Standards—to play all Microgroove, LP, or fine groove records.

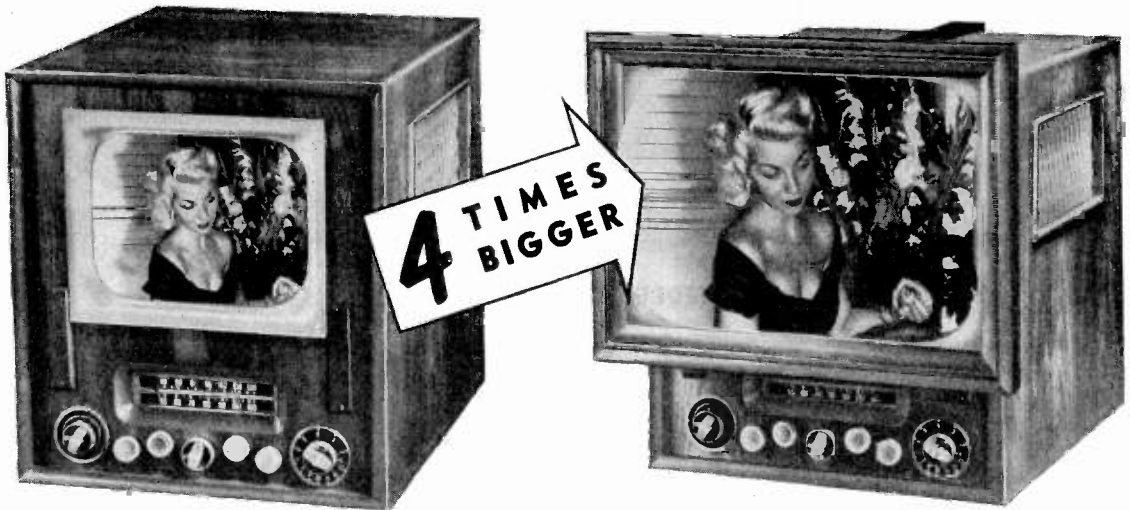
Manufacturers of the World's Largest Line of Long Life Recording and Playback Needles

M. A. MILLER MANUFACTURING CO. Inc.



DUOTONE

DAYLIGHT TELEVISION ENLARGING LENSES



These high-quality Television Enlarging Lenses fit any television set. No eye-strain—no distortion—more contrast and three dimensional wide angle view. Available in both daylight-blue tint or in clear lucite.

TINTED

LIST PRICE

250F	WITH MAHOGANY FRAME (for 5" or 7" screens)	_____	\$29.95
500F	WITH MAHOGANY FRAME (for 10" or 12" screens)	_____	\$59.95
250	WITHOUT MAHOGANY FRAME (for 5" or 7" screens)	_____	\$24.95
500	WITHOUT MAHOGANY FRAME (for 10" or 12" screens)	_____	\$49.95

CLEAR

200	(for 5" or 7" screens)	_____	\$19.95
300	(for 10" screens)	_____	\$29.95

RECORDING FLUIDS

DUOTONE RECORD PRESERVER

A newly developed fluid that helps make phonograph records (Victor, Columbia, Decca, etc.) last much longer. Duotone Record Preserver not only cleans the record, but actually puts a thin protective coating on it. This coating protects the record against excessive wear and in addition enables the needle to glide smoothly, thus reducing surface noise.

List
Each Bottle \$0.50

Cat. No. 105-B

Attractive display carton of twelve 2-oz. bottles..... 6.00

PRE-RECORDING FLUID

For use on the disc before cutting. When applied to the surface with a piece of soft cotton, it allows the needle to cut smoothly, thus reducing surface noise and needle wear. Will not harm ANY kind of coating.

List
Each Bottle \$0.50

Cat. No. 101-B

Carton of 12 Bottles..... 6.00

HARDENING FLUID

For use on home recorded records after cutting. Apply to surface with piece of soft cotton, covering entire surface of record. Preserves groove structure and record life. Materially reduces surface tension. Restores original tone quality on older records.

List
Each Bottle \$0.50

Cat. No. 102-B

Carton of 12 Bottles..... 6.00

DUOTONE RECORDING BLANKS





DUOTONE NEEDLES

FILTER POINT No. 6



The Filter Point needle is a newly developed needle which actually filters surface noise, yet retains the brilliance of your recordings. The highly polished and rounded point assures smooth movement in the record groove, reducing record wear to a minimum. The needles are hand picked and will play from 12 to 15 records without frequency loss or distortion. The specially designed point is guaranteed not to break when used with any type of record changer.

The needles are hand picked and will play from 12 to 15 records without frequency loss or distortion. The specially designed point is guaranteed not to break when used with any type of record changer.

List

Package of 10 needles \$ 0.10
 Cat. No. 610-B—Carton of 100 pkgs. 10.00
 Cat. No. 610-C—Display card of 50 pkgs. ... 5.00

Package of 25 needles \$ 0.25
 Cat. No. 625-B—Carton of 50 pkgs. 12.50
 Cat. No. 625-C—Display card of 50 pkgs. ... 12.50

MIRO-POINT No. 21



The Miro Point Needle is the "low surface" specialist of the Duotone Line. Despite this fact it still brings out the highs in a manner never before attained by a needle of this type. Designed to play at least 2000 records the Miro Point is the outstanding needle in the field today.

List Price

Needle list price, each \$0.50
 Cat. No. 21-B—Carton of 18 needles 9.00
 Cat. No. 21-C—Display card of 18 needles. ... 9.00



No. 19 "STAR"

Reproduces any type of record without surface noise yet maintains brilliant high frequencies. Finest quality gem, brightly polished for smooth riding in groove. Special design filters out all noise and needle talk. Has flat on shank for easy insertion in pickup. May be removed if desired. Individually packed in beautiful lucite box. Ideal for dubbing.

List Price

Each Needle \$ 5.00
 Cat. No. 19-B—Carton of 12 needles 60.00

CHROMIUM No. 17



The Duotone Chromium needle is Duo Chrome plated to insure long life and minimum record wear. Ideally suited for use on record changers. Each needle has a highly polished surface, and is shadowgraphed. Being of a semi-permanent type,

the Chromium needle avoids the necessity of constantly changing needles. Each needle is guaranteed to play at least 50 records, assuring a full evening of music without requiring a change of needle.

List Price

Package of 5 needles \$ 0.25
 Cat. No. 17-B—Carton of 50 pkgs. 12.50
 Cat. No. 17-C—Display card of 25 pkgs. ... 6.25

TRANSCRIPTION No. 7

Transcription needles are individually shadowgraphed to insure each needle being perfect. They are especially designed to reduce record wear on home recordings and will give life-like reproductions when used on commercial or home records. This needle, because of its perfect point and fine frequency response, is extensively used by broadcasting stations, and recording studios. Economically packed for use in home and studios.

List Price

Package of 10 needles \$ 0.10
 Cat. No. 710-B—Carton of 100 packages. 10.00
 Cat. No. 710-C—Display card of 50 packages. ... 5.00
 Package of 25 needles \$ 0.25
 Cat. No. 725-B—Carton of 50 packages. 12.50
 Cat. No. 725-C—Display card of 50 packages. ... 12.50
 Package of 75 needles \$ 0.50
 Cat. No. 750-B—Carton of 20 packages. 10.00

DURPOINT No. 15

Permanent needle for home use. Will play over 4000 records without changing. Takes additional polish from the groove of the record thus minimizing record wear, and reducing surface noise. Because of this feature the Durpoint should not be removed from pick up until replacement is necessary. Packed on individual cards.

List Price

Each Needle \$ 1.00
 Cat. No. 15-C—Display card of 12 needles. 12.00
 Cat. No. 15-B—Carton of 12 needles 12.00

CACTUS NEEDLES No. 18

Made from specially selected cactus thorns chemically treated to prolong life of point and assure quiet reproduction. Each needle may be re-sharpened many times. Can be used on record changers as well as ordinary phonographs. Especially recommended for use on records with high surface noise.

List Price

Package of 12 needles \$ 0.35
 Cat. No. 18-B—Carton of 50 packages. 17.50
 Cat. No. 18-C—Display card of 25 pkgs. 8.75

MANUFACTURER'S DEPT.

Duotone's Manufacturing Department will be glad to quote on any special needles for manufacturing requirements.

ENGINEERING DEPT.

Duotone's Engineering Department will design special needles for your requirements or supply needles according to your own specifications.

DUOTONE

No. 20
 "LIFETONE"
 OSMIUM
 TIPPED
 5000
 PERFECT
 PLAYINGS



The Duotone Lifetone Needle was especially designed for use with record changers. Its brilliant performance coupled with low surface noise makes it ideal for this purpose. When properly used, it will give at least 5000 perfect playings, maintaining throughout its life the same bright reproductive qualities. Packed in beautiful plastic container.

List Price

Each needle \$ 1.50
 Cat. No. 20-B—Carton of 12 needles 18.00
 Cat. No. 20-C—Display card of 12 needles. ... 18.00

NEW REGENT SAPPHIRE (Double Bend) No. 13

A permanent needle with a flat on the shank allowing removal from, and insertion into pickup as required. Will play approximately 6000 home recordings, or 5000 commercial recordings. Finest quality jewel assures natural tone reproduction and very low record wear. Especially recommended for use in lightweight pickups. Packed on individual card.

List Price

Each Needle \$ 2.00
 Cat. No. 13-B—Carton of 12 needles 24.00
 Cat. No. 13-C—Display card of 12 needles. ... 24.00

RUBY NEEDLE No. 35

The Ruby tops everything else in its price class. Second only to the famous Duotone "Star" Sapphire, the Ruby is known for its lifelike reproduction with a minimum of surface noise. A dozen is included with each dozen needles.

List Price

Each Needle \$ 3.50
 Cat. No. 35B—Carton of 12 Needles 42.00





DUOTONE NEEDLES

LUCKY SEVEN DEAL No. 777

This popular deal includes three of our most popular numbers, all on one attractive display.



	List Price
14 packages Filter Point needles.....	@ 25c. \$ 3.50
7 packages Duo Chrome needles.....	25c. 1.75
7 packages New Lifetone needles.....	1.50 10.50
	\$15.75
1 new Lifetone needle FREE	1.50
Total Value.....	\$17.25

SHOCKPROOF NYLON NEEDLE No. 25

Unique in design, this needle has an osmium tip on spring steel set into a Nylon bumper. This eliminates damage to either needle or record should the pickup arm be accidentally dropped. This needle also eliminates surface noise. Individually packed in attractive lucite container. This needle will play up to 5,000 recordings.



	List Price
Each needle.....	\$ 2.50
Cat. No. 25-C—Display card of 12 needles.....	30.00

STEEL CUTTING STYLUS No. 8



The ideal needle for use in homes by amateur record makers. With ordinary care will make a quiet record of good quality, which can be played back many times. Will make approximately 15 to 25 10" records. Packed 4 to handy point-protecting felt-lined package.

Price \$1.00

List

Cat. No. 8-B—Carton of 25 pkgs.....	\$25.00
Cat. No. 8-C—Display card of 25 pkgs.....	25.00

STELLITE CUTTING STYLUS No. 9

Available in Long and Short Shank



The Stellite cutting stylus with proper care, will make a record that compares favorably with a professional cutting. Its hand-lapped edge cuts a groove which assures a noiseless recording. Stellite stylus are recommended after some cutting experience has been acquired. The reduction in surface noise and the improved quality of the recording will be instantly noticeable, and will be well worth the difference in cost. Will cut approximately 500 6" records. Individually packed on cards. Price \$2.00.

List

Cat. No. 9-B—Carton of 12 needles.....	\$24.00
Cat. No. 9-C—Display card of 12 needles.....	24.00

LAPPED STEEL CUTTING STYLUS No. 10



This new hand-made lap on the cutting edge of the needle makes a much smoother cut, thereby reducing surface noise and adding to the life of the needle. Especially recommended for making vocal recordings. List Price, 5 Needles on card.....\$1.50
Cat. No. 10-B—Carton of 10 cards.....\$15.00
Cat. No. 10-C—Display card of 10 cards..... 15.00

SAPPHIRE STYLUS No. 12

Available in Long and Short Shank



The sapphire Professional cutting stylus is the finest available. The cutting jewel is very highly polished and has a patented hand-lapped edge, which cuts and polishes the groove, making a record with the lowest surface noise. With proper handling will give 10-15 hours of cutting and can be resharpened many times.

No. 11
No. 12

DO NOT DROP

Packed in plastic container.

Cat. No. 12—Needle, list price, each.....	\$5.50
(Resharpening—Each \$1.75)	

DURAL SHANK No. 11

Available in Long and Short Shank

This needle is similar to No. 12, and in addition is held to more exacting specifications, as established by leading engineers. Mounted in Dural shank. Packed in plastic container. Each \$7.25 (Resharpening—Each \$1.75)

"MUTED STYLUS" NEEDLES



This drawing shows the "muted" or curved shank characteristic of needles used with the new Shure cartridges, and the location of the knurled thumb nut on the bottom of the cartridge.



Duotone "Muted Stylus" Needles for Shure cartridges are easy to install. The customer loosens the knurled thumb nut and pulls out the old needle; inserts the new needle, and tightens thumb nut securely.

Muted Stylus Osmium Tip Needle \$1.50 each, List
Muted Stylus Sapphire Tip Needle \$2.50 each, List

"MICRO-GROOVE" NEEDLES

The Star Needle as well as the Shockproof Nylon Needle are available with the one mill radius for use on micro-groove records.

19-M Star Needle with One Mill Radius,	\$5.00 each, List
25-M Shockproof Nylon Needle with One Mill Radius,	\$2.50 each, List
13-M Regent Sapphire Needle with One Mill Radius,	\$2.00 each, List

CUTTING NEEDLES

11-M Special Sapphire Cutting Stylus, for use with Micro-Groove Equipment, \$7.25 each, List

"For the WORLD'S FINEST music"

Jensen PHONOGRAPH NEEDLES

JENSEN INDUSTRIES, INC., 329 S. WOOD ST. CHICAGO 12, ILL.



ROYAL JEWEL

The famous Jensen Royal Jewel phonograph needle with the *genuine* sapphire tip, and the modified stylus shank. Designed by Peter L. Jensen, the Royal Jewel reduces surface scratch to an irreducible minimum and increases the clarity of definition. It delivers



Catalog No. 25

List Price

\$2.50



greater brilliance than ever before by the delicately balanced reproduction of high frequency notes exactly as transcribed. This outstanding stylus absorbs vibration, prolongs the life of valuable records. Attractively packaged in a rich gold, red and black oval tray.

Colorful, point-of-sales, Royal Jewel Display with 12 Genuine Sapphire needles. Cat. No. 25D.....List price \$30.00



CLASSIC

The Jensen Classic—the needle designed especially for brilliant reproduction of instrumental and vocal recordings. The Classic has a wide tonal range and longer life with fidelity all the way. Its new spring

Catalog No. 15

List Price

\$1.50



construction minimizes hiss and scratch—delivers a "Stradivarius tone." Its osmium alloy tip assures a long service life. Packaged in a pentagonal red and gold tray.

The Jensen Classic Miniature Display, small enough to fit nicely under glass counters — or stand on top of counters is preferred.

Cat. No. 15M. Unit of 1 Display and 12 individually packaged needles.....List price \$18.00



CONCERT

The ever popular Jensen Concert Phonograph Needle is the finest \$1 needle ever offered. Its full tonal range and long playing qualities are assured by its flanged design and new 1949 notched shank. The spring action preserves the surface of records, lengthens their service life, provides clear, undistorted reproduction. Well

Catalog No. 10

List Price

\$1.00



over a million needles are in use. Packaged in a circular red, gold and blue tray.

The Miniature Jensen Concert Needle display — the type that was introduced by Jensen. Supplied as standard display with Concert needles.

Cat. No. 10M. Unit of 1 Display and 12 individually packaged needles.....List price \$12.00

The familiar Jensen Counter display for Concert needles, holds twelve individual circular packages. Available on special order.

Cat. No. 10D.....List price \$12.00

4-4-4 DISPLAY CARD

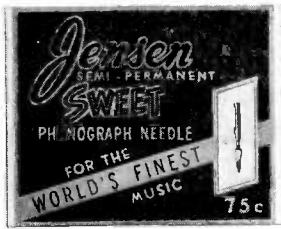
The Jensen *Combination* Display Card, known as the 4-4-4 Card because it holds 12 individually packaged Jensen needles: 4 Royal Jewel, 4 Classic and 4 Concert needles. Definitely desirable for dealers who wish to provide a choice of needles of varying price to their customers. Advantageous where display space is limited. An *ideal* Point-of-Sales help for gauging buying preferences. A practical, profit-building sales aid.

Cat. No. 444.....List price \$20.00



Jensen PHONOGRAPH NEEDLES

SWEET



Catalog
No. 75



List
Price
75c



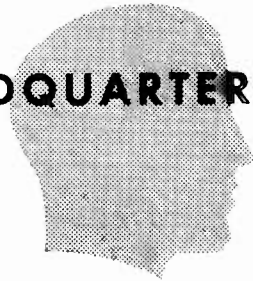
The Jensen Sweet—an outstanding Jensen needle at a low price. Especially popular with the teen age trade. Expressly designed for playing popular music. Remarkable tonal qualities, however, make it ideal

for all good records. Individually packaged in a gold foil holder printed in green and black.

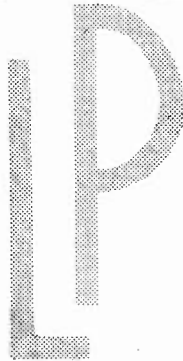
The Jensen Sweet display holds 12 Jensen Sweet needles packaged in gold foil holders printed in green and black.

Cat. No. 75M. List price \$9.00

HEADQUARTERS



Jensen is headquarters for Replacement Needles including many special and individual types issued as equipment by leading cartridge manufacturers. Available in 1 and 3 mil radius. Packaged to satisfy your requirements. Inquiries are invited.



Jensen Royal Jewel and Jensen Classic phonograph needles are now available for the new L-P (long-playing) records. The Royal Jewel (genuine sapphire) and Classic (osmium) have precision-sized, 1 mil radius tips. Both have micrometric accuracy, assured by shadowgraph and microscopic inspection. They provide extreme vertical compliance adapted to 6-gram R.M.A. specification. Surface hiss is reduced to a minimum, no blur-r-ring sound.

Cat. No. 25LP \$ 2.50
Unit of 1 Dozen 30.00

Cat. No. 15LP \$ 1.50
Unit of 1 Dozen 18.00

SALES KITS



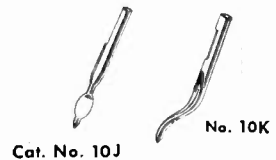
The Jensen Sales Kit, designed especially to make the demonstration of fine needles easy for Radio Servicemen. Convenient, compact, pocket-size, just the thing for taking on service calls. A real sales-help and profit booster. Available in two combinations: Kit No. 6KR holds 3 Jensen Concert and 3 Jensen Royal Jewel Needles. Kit No. 612 contains 3 Jensen Classic and 3 Royal Jewel Needles.

Cat. No. 6KR . . . \$ 10.50
Cat. No. 612 12.00

COIN MACHINE NEEDLES

Jensen Coin Machine Needles with the locked-in osmium tip for long service life, and for greater brilliance, minimized surface scratch.

Preferred by many operators — because they assure a definite savings in operating costs, fewer service calls, increased profits. Packaged two needles to a card, five cards to a unit.



Cat. No. 10J. 100 straight shank needles in units of 10
Price on application

Jensen Coin Machine needles are supplied with the conventional straight shank design. Available also are curved shank needles (on special order for Cat. No. 10K) for greater modulation.



Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

WALCO



Play Back NEEDLES

Trade Mark

QUANTITY DISCOUNTS QUOTED ON REQUEST

**WALCO "400"
FLOATING JEWEL SAPPHIRE**



MODEL WS-400

RATING: UP TO 10,000 PLAYS
LIST PRICE \$2.50

**WALCO "400"
RUBY JEWEL NEEDLE**



MODEL WR-400

RATING: UP TO 6,000 PLAYS
LIST PRICE \$2.00

**WALCO "400"
PRECIOUS METAL NEEDLE**



MODEL WA-400

RATING: UP TO 4,000 PLAYS
LIST PRICE \$1.50

These three needles are beautifully packaged and are available 12 to a counter-display card or in compact cartons of 12 needles. These needles are also available with microgroove (one mil radius) points for playing 33 $\frac{1}{3}$ RPM LONG PLAYING records.



**WALCO
DIAMOND NEEDLE
MODEL WD-90**

The Walco Diamond is the first professional broadcast-type needle to be offered for low cost, mass sale. Once installed in today's pickup, the needle problem is ended.

LIST PRICE \$12.50

**WALCO "Muted Stylus"
NEEDLES for**



**Muted Stylus
PICKUP CARTRIDGES**

Mfr'd and Sold by Walco under
Special Shure License

**PROFESSIONAL DIAMOND
PLAY BACK STYLUS**

MODEL WD-95 — For users who prefer a straight shank needle or where a bent needle cannot be used, Walco provides the WD-95 Straight Shank. TIP: South African diamond; SHANK: 17ST duraluminum; POINT RADIUS: .0025"; INCLUDED ANGLE: 45 degrees; OVERALL LENGTH: Straight shank — 1 $\frac{1}{2}$ ".

LIST PRICE \$12.50



**WALCO SAPPHIRE
"Muted Stylus"
NEEDLE**



**MODEL WP-30S
LIST PRICE \$2.50***

**WALCO PRECIOUS METAL
"Muted Stylus"
NEEDLE**



**MODEL WP-30
LIST PRICE \$1.50***

**THE ENCORE
MODEL WA-100**

An exceptionally fine needle priced for volume sales. Precious metal tipped.

LIST PRICE \$1.00



**STRAIGHT SHANK
SAPPHIRE
MODEL WN-55**

Especially recommended for low-pressure pickup and professional use. Notched dural shank.

LIST PRICE \$1.00



**BENT SHANK
SAPPHIRE
MODEL WN-50**

For use on older type phonos with heavier pickups. Hand polished sapphire with dural shank.

LIST PRICE \$1.00



**GROOVE-MASTER
MODEL WA-150**

A high fidelity needle tipped with precious metal alloy. Hand polished point with filter type shank.

LIST PRICE \$.50



**COIN MACHINE
SAPPHIRE
MODEL WS-900**

For the light weight tone arms in new coin phonographs. Rated at 5,000 record plays.

PRICES ON REQUEST



**COIN MACHINE
PRECIOUS METAL
MODEL WA-700**

An all-purpose, long-life coin machine needle of superior quality.

PRICES ON REQUEST

Brush

MAGNETIC RECORDING PRODUCTS



MODEL BK-411 SOUNDMIRROR*

The BK-411 "SOUNDMIRROR" produces high quality recordings easily and quickly. It offers unequalled advantages for home recording, professional and educational use. The new single control operates REWIND, FAST FORWARD, FAST REVERSE, and RECORD by a simple fingertip movement. Automatic REWIND occurs at the end of the forward movement of each complete reel. Designed with concealed space for microphone storage. Tone, volume and selector dials are also concealed. Selector dial permits easy selection of radio or microphone as source of recording. The solid mahogany cabinet of the "SOUNDMIRROR" is an attractive addition to any home.

The "SOUNDMIRROR" records on tape which can be "erased" and used over and can be "edited" with scissors and cellulose tape.

Dimensions - BK-411 12 $\frac{1}{8}$ inches x 17 $\frac{1}{2}$ inches x 13 $\frac{3}{4}$ inches.
Weight 36 lbs.

List Price \$199.50



PORTABLE MODEL BK-403 SOUNDMIRROR*

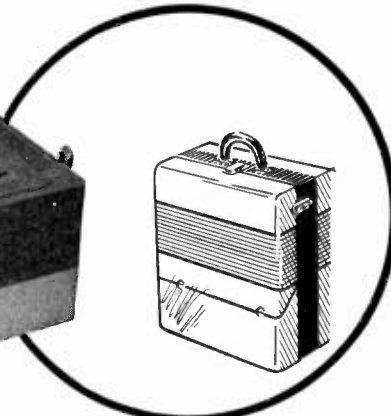
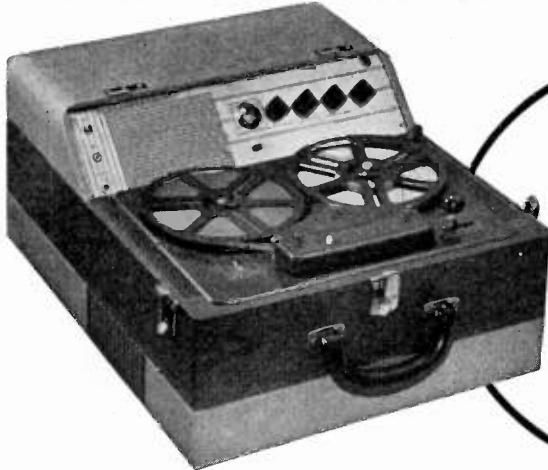
The BK-403 "SOUNDMIRROR" is a portable "Magnetic Ribbon" recorder contained in an attractive black leatherette carrying case. Ideal for use in broadcast companies, school classrooms, industrial conference recording, commercial sound studios.

Ideal for:

- | | | |
|-------------------|--------------------------|-----------------------|
| Remote pickup | Language studies | Sermon reference |
| Delayed broadcast | Class plays | Labor negotiation |
| Spot announcement | School musical societies | Important conferences |
| Speech correction | Assembly entertainment | Vacation reference |

Dimensions - BK-403 - 25 $\frac{3}{4}$ inches x 10 $\frac{1}{2}$ inches x 14 $\frac{1}{2}$ inches
Weight 50 lbs.

List Price \$375.00



MODEL BK-414 PORTABLE SOUNDMIRROR*

The BK-414 "SOUNDMIRROR" produces high quality recordings easily and quickly. It offers unequalled advantages for home recording, professional, and educational use. The new single control operates REWIND, FAST FORWARD, FAST REVERSE, and RECORD by a simple fingertip movement. Automatic REWIND occurs at the end of the forward movement of each complete reel. The "SOUNDMIRROR" records on tape which can be "erased" and used over and can be "edited" with scissors and cellulose tape.

Dimensions 17 $\frac{3}{4}$ in. x 21 in. x 9 $\frac{3}{4}$ in.
Weight 37 $\frac{1}{2}$ lbs.

List Price \$229.50

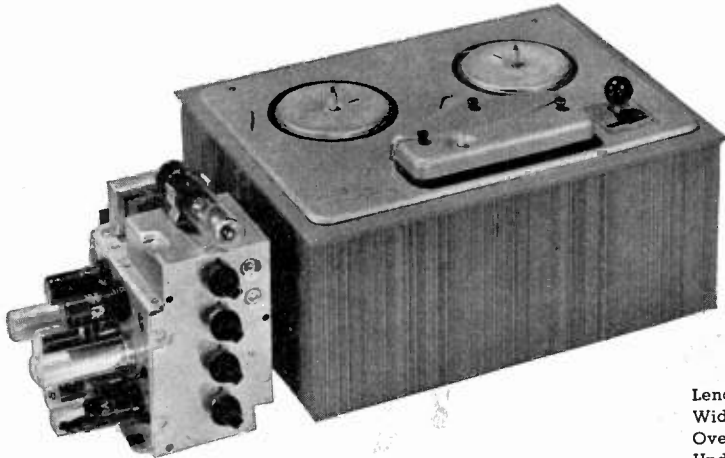
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Complete technical data on request
*Trade Mark Reg. U. S. Pat. Off.

THE BRUSH DEVELOPMENT CO.

Brush

MAGNETIC RECORDING PRODUCTS



MODEL BK-415 FOUNDATION UNITS

The Brush Development Company, leader in magnetic recording, announces the availability of magnetic tape foundation units consisting of complete mechanical and electronic assemblies.

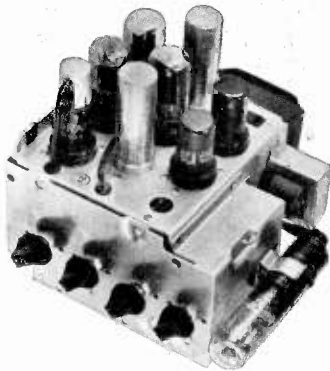
Unique design combines extreme operating simplicity with small size, which facilitates installation in difficult applications.

High quality recording from radio or a microphone is accomplished with minimum effort, using erasable, re-usable magnetic tape, the finest, most practical recording medium known.

List Price \$195.00

DIMENSIONS BK-415 FOUNDATION UNITS

Length	15½ inches
Width	11¼ inches
Over Panel	13⅞ inches
Under Panel	5½ inches
Amplifier	8⅞ inches x 9¾ inches x 7¼ inches



BK-415S

Complete tape handling mechanism including motor, record-reproduce and erasing heads. Furnished mounted in substantial, compact, attractive wood frame.

List Price \$125.00

BK-808

Completely wired 7-tube electronic unit, including pre-amplifier, oscillator, monitor circuit, amplifier and recording level indicator. Tubes included.

List Price \$70.00



BRUSH RECORDING TAPE:

1. HIGHEST QUALITY:

- (a) Uniformity
- (b) Excellent Frequency Response
- (c) Strong paper base
- (d) Firm adhesion of coating to paper—no residue on record head
- (e) Complete and easy erasure

2. The ONLY "HIGH LEVEL" Recording Tape on the market: will accommodate recording currents 6 db. higher without distortion.

3. The ONLY Recording Tape wound on highest quality steel reels which fit any popular priced recorder.

Available for any recorder:

LIST PRICE

BK-961: About 1,225 ft. wound with coating facing center of reel \$3.50
 BK-961-R: About 1,225 ft. wound with coating facing outside of reel \$3.50

REELS

BK-921: Empty 7" high-quality steel \$1.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Complete technical data on request



THE BRUSH DEVELOPMENT CO.

MAGNECORD

FIRST IN THE FIELD OF MAGNETIC RECORDING

MODEL PT6-A "MAGNECORDING"

- ★ BROADCASTING ★ BUSINESS ★ CHURCH
★ MOTION PICTURES ★ RECORDING STUDIOS

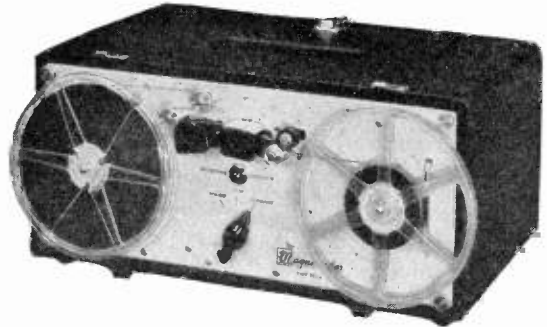
Magnecord gives wide frequency response with low distortion; light weight with dependability; flexible arrangement and use; and economical first cost and operation. Magnecord is the oldest and largest manufacturer of professional magnetic recorders.

BASIC RECORDING MECHANISM

PT6-A (with case)	\$278.00
PT6-AX (without case)	\$262.00

SPECIFICATIONS

- Recording Speeds: 15 inches/sec., or 7 1/2 inches/sec. interchangeable. Quick change capstans.
- Rewind Speed: Full 7 1/2-inch reel rewind in approx. 40 seconds.
- Frequency Response: At 15 inches/sec. from below 40 cps to 15 kc ± 2 db. At 7 1/2 inches/sec. 40 cps to beyond 7 kc when used with proper equalizer.
- Motors: Synchronous 117 v. 60-cycle AC motor provides constant speed drive for recording and playback. Shaded pole motor provides high speed rewind.
- Record-Reproduce Head: Magnecord RT-61 plug-in type.
- Erase Head: Magnecord ET-18 plug-in type.
- Flutter: Max. 0.3%.
- Mechanical Drive: Positive idler speed reduction system.



BASIC RECORDING MECHANISM

PT6-AH (with case)	\$284.00
PT6-AXH (without case)	\$278.00

● Same as above with addition of Hi Forward Cueing Speed.

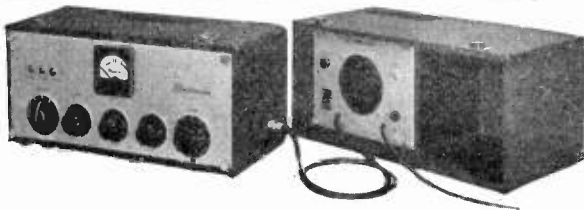
MULTI-PURPOSE AMPLIFIER PT6-P

Lightweight combination record/playback/remote amplifier used with Magnecord PT6-A to provide high-fidelity recording.

PT6-P	\$462.00
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SPECIFICATIONS

- Inputs: Three independently mixed low-level microphone channels 30/50 ohms; also, high impedance bridging input.
- Mixer: Individual low impedance controls (2 db per step) on each microphone input. Master gain control (2 db per step).
- Indicator Lights: Colored target lights indicate selector switch position.
- Monitor System: Small built-in loudspeaker with separate power tube and volume control.
- Headphone Jack: Jack for headphone monitoring.
- Volume Level Meter: Std. 3" square V.U. meter, Scale A.
- Tubes: PT6-P: 1-12AX7, 2-12AU7. PT6-PS: 1-6V6, 1-6X4.
- Power Requirements: 117 v, 60-cycle Single Phase AC, 60 watts.
- As remote amplifier, may be operated on battery with minor change.
- Case: 18" L x 8" W x 16 1/2" D. Finish: Black Grain Leatherette.
- Panel: Magnecord grey hammered finish.
- Weight: 31 lbs.



- Outputs: + 6 dbm, 600 ohms balanced. (Recording output is equalized signal developing approx. 1 ma in Magnecord RT-61 recording head used in PT6-A.)
- Frequency Response: ± 2 db from 50 to 15,000 cps at a tape speed of 15 inches/sec., and ± 2 db from 50 to 7,000 cps at 7 1/2 inches/sec. when plug-in recorder equalizer for the specific speed is used. Amplifier alone ± 2 db 50 to 15,000 cps.
- Harmonic Distortion: Total generated in record-playback cycle, including tape and recording head, 2.0%.
- Signal/Noise: Wide band measurement including tape — better than 47 db with total harmonic content less than 2%.
- Switching: Three-position switch selects "Record," "Listen" or "Remote" operation.

RACK AMPLIFIER PT6-R

Rack mounting recording and reproducing amplifier for use with PT6-A.

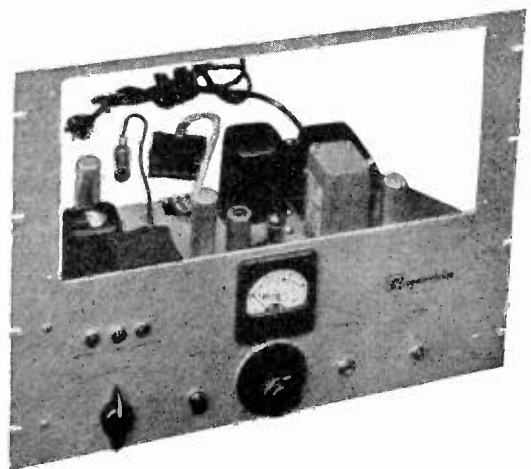
PT6-R	\$383.00
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SPECIFICATIONS

- Inputs: 600-ohm balanced; high impedance bridging.
- Output: + 6 dbm, 600 ohms balanced. (Recording output is equalized signal developing approx. 1 ma in Magnecord RT-61 recording head used in PT6-A.)
- Gain Control: Single, 2 db per step.
- Frequency Response: ± 2 db from 50 to 15,000 cps at a tape speed of 15 inches/sec., and ± 2 db from 50 to 7,000 cps at 7 1/2 inches/sec. when plug-in recorder equalizer for the specific speed is used. Amplifier alone ± 2 db 50 to 15,000 cps.
- Distortion: Total generated in record-playback cycle, including tape and recording head, 2.0%.
- Switching: Three-position switch selects "Record," "Listen" or "Amplifier."
- Indicator Lights: Colored target lights indicate selector switch position.
- Monitor: Jack on front panel provides for headphone monitoring.
- Volume Level Meter: Standard 3" square V.U. meter, Scale A.
- Tubes: 1-12AX7, 2-12AU7, 1-6X4.
- Power Requirements: 117 v, 60-cycle Single Phase AC, 60 watts.
- Dimensions: Std. 19" relay rack panel 14" H. x 12 1/2" deep. Has cut-out for mounting PT6-A recording mechanism in face of panel.
- Panel: Magnecord grey hammered finish.

AUXILIARY SPOOLING MECHANISM PT6-M

- Increases playing time of PT6-R/PT6-AX combination by factor of 2. \$128.00
- Rack Panel & Throwover Switch (PT6-HT), Throwover Switch, Adapter Plug, and Cables (PT6-T), Portable 12 v. DC Power Supply (PT6-S), and Monitor Head Strip (PT6-Q) also available.

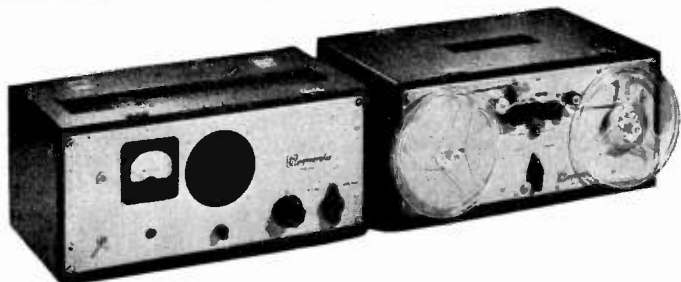


MAGNECORD ACCESSORIES

Allow convenient assembly of custom installation to meet all recording and playback needs at a reasonable cost.

MAGNECORD, INC. ★ Chicago, Illinois

MAGNECORD



MAGNECORDER PT6-JA*

FOR ★ BROADCASTERS ★ SCHOOLS
★ INDUSTRY ★ HOMES

The completely portable Magnecorder PT6-JA produces the same professional results achieved in Magnecord units now efficiently serving the radio broadcasting industry throughout the world.

\$499.50

PROFESSIONAL MAGNETIC TAPE RECORDER

Engineered by the Oldest and Largest Manufacturers of Professional Magnetic Recorders

SPECIFICATIONS

BASIC RECORDER MECHANISM

Produces high-quality recordings of all program material.

- **Recording Speeds:** 15 inches/sec. or 7½ inches/sec. interchangeable. (No tools required.)
- **Rewind Speed:** Full 7½" reel (1,200 ft. of tape) rewound in approx. 40 seconds.
- **Frequency Response:** At 15 inches/sec.: from below 50 cps to 15 kc ± 2 db, or 50 to 7,500 cps ± 2 db at 7½ inches/sec., when the proper equalizer for the specific speed is used in the amplifier.
- **Motors:** Synchronous 117 v, 60-cycle AC drive motor. Shaded pole motor for rewind.
- **Flutter:** Max. 0.3%.
- **Power Requirements:** 117 volts, 60-cycle Single Phase AC, 70 watts.
- **Case:** Dimensions: 18" L x 8" W x 15½" D. Finish: Black Grain Leatherette.
- **Panel:** Magnecord grey hammered finish. 7" H x 17" W.
- **Bias Oscillator:** Built in. Uses single 12AU7 tube. 6.3 at .3 amps and 300 v at 40 ma supplied from amplifier.

* Hi-forward cueing speed available for an additional \$16.00.

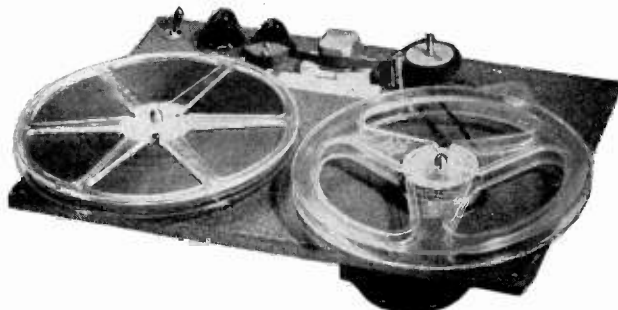
RECORD, PLAYBACK & 10-WATT AUDIO AMPLIFIER

Provides exceptionally clean, top-quality audio. Single low impedance microphone input with gain control, high-level terminal for tuner or amplifier input.

- **Inputs:** One low level, low impedance microphone. High level input: 100,000 ohms, unbalanced.
- **Output:** Line output, + 6 dbm at 600 ohms balanced from terminal strip. Power output, 10 watts, at 4 or 16 ohms.
- **Frequency Response:** ± 2 db from 50 to 15,000 cps at a tape speed of 15 inches/sec., and ± 2 db from 50 to 7,000 cps at 7½ inches/sec. when plug-in recording equalizer for the specific speed is used. Amplifier alone ± 2 db 50 to 15,000 cps.
- **Harmonic Distortion:** Total generated in record/playback cycle (including tape and recording head) 2.0% at normal recording level.
- **Signal/Noise:** Wide band noise including tape, 47 db or better.
- **Switching:** Three-position switch selects "Record," "Listen" or "Amplifier" operation. Inserts proper characteristics for record or playback and removes all equalization for use as a 10-watt audio or P.A. amplifier.
- **Monitor System:** Built-in 5" P.M. loudspeaker with on-off switch.
- **Volume Control Meter:** 3" square standard V.U. meter, Scale A.
- **Dimensions:** 18" L x 8" W x 12¾" D.
- **Panel:** Magnecord grey hammered finish. 17" W x 7" H.
- **Power Requirements:** 117 volts, 60-cycle Single Phase AC, 60 watts.

DUOTAPE MAGNETIC TAPE RECORDER PARTS KIT

All engineering completed. Kit makes high-fidelity, bi-filar type magnetic tape recorder for faithful playback of music and voice. Kit includes erase/record/reproduce head, special oscillator coil, drive motor (115 v, 60-cycle), motor switch, capstan flywheel and bearings, pressure roller and arm, tape reel takeup mechanism, motor mounting plate, main support panel, and hardware. Over-all size: 10¼" x 14¼". Sound recorded on one-half of tape width in one direction; on other half in opposite direction. Tape speed: 7½" per sec.; low distortion; insignificant wow and flutter. Includes directions for assembly, circuit diagram, parts lists, and hints on building a high-fidelity record-playback amplifier from parts sold by local dealer.



Easy to Assemble:

Screwdriver, Pliers, Soldering Iron Only Tools Needed.

DUOTAPE CO.



Chicago 1, Ill.