

Professional Recording Equipment

AMPEX MR-70 SERIES MASTER RECORDERS/REPRODUCERS

- UNSURPASSED PERFORMANCE, RELIABILITY AND OPERATING CONVENIENCE
- ABILITY TO RECORD UP TO EIGHT CHANNELS ON ONE RECORDER
- USES STANDARD 1/4, 1/2 OR 1" TAPES ● COMPATIBLE WITH EXISTING LIBRARIES
- HEAVY DIE-CAST FRAME FOR PERFECT ALIGNMENT OF COMPONENTS
- EASY, FAMILIAR EDITING PROCEDURES ● BUILT-IN SAFETY BRAKING
- OFFER "SOUND-ON-SOUND" RECORDING OR "OVER-DUBBING" CAPABILITY

Precision-made monophonic and stereo masters offering major design innovations to meet the exacting requirements of the recording industry. With today's low noise tapes, an improvement of 10 db in broadband (20-15,000 cps) signal-to-noise ratio is realized; units are capable of even higher ratios with future tape improvements. "Scrape flutter" (FM noise) is virtually eliminated through head assembly design employing a precision idler in the critical unsupported tape path. Components are permanently aligned to rigid, massive heavy-ribbed casting for stable, precise tape motion and tracking. Tape speed is "repeatable" and identical from reel to reel and from day to day. Distortion in the record and reproducer amplifiers is under 1% from 30-15,000 cps. All-nuvistor electronics section uses only two types of military/industrial grade nuvistors for maximum reliability. Operational features include: Variable speed wind/rewind; fully automatic tape lifters; panel pushbutton editing (foot pedal optional) and illuminated pushbutton controls for all functions; drop-down gate for easy access to heads. **Tape Speeds:** Dual track 7 1/2 and 15 or 15 and 30 ips. **Reel Size:** 11 1/4" max.; EIA, NAB or CCIR reels, or hubs. **Input:** 20K ohms unbalanced or balanced (with plug-in bridging transformer). Accept line levels from -20 to +12 VU. **Output:** Strappable for 150 or 600 ohms, balanced or unbalanced, with nom. line levels of +4 or +8 VU. **Equalization:** Switching automatic by transport speed selector. Choice of curves at each speed provides for NAB, CCIR, or AME (15 ips only); adjustments for other curves in the 17 1/2-100 μ sec range. **Overall Frequency Response:** ± 1 db, 50-15,000 cps or ± 2 db, 30-20,000 cps at 15 ips NAB; ± 1 db, 50-12,000 cps or ± 2 db, 40-15,000 cps at 7 1/2 ips NAB; ± 1 db, 50-20,000 cps at 30 ips (17 1/2 μ sec), full track heads; ± 1 db, 100-20,000 cps or ± 2 db, 50-20,000 cps at 30 ips (17 1/2 μ sec), multi-track heads. **Flutter and Wow:** Below 0.05% rms at 15 and 30 ips; 0.08% rms at 7 1/2 ips. **Timing Accuracy:** Better than $\pm 0.15\%$. **Power Required:** 115 VAC, 60 cps, with selector switch for 105 or 125 VAC. **Size:** Transport, 19" x 24 1/2" x 12" d.; electronics unit, 19" x 5 1/4" x 12" d. per channel; console (4-channel), 29" w. x 29 1/4" d. x 62 1/4" h.

MR-70-4
Four-
Channel
Console



STANDARD MR-70 SERIES TAPE RECORDERS

All with inline heads. Available in single-channel (full track), two, three or four channels, and in dual-speed 7 1/2 and 15 or 15 and 30 ips models.

Ampex Model	Chan-nels	Tape Width	Tape Speeds (ips)	Playback Azimuth	Unmounted		Console	
					Catalog No.	Net Each	Catalog No.	Net Each
MR-70-1	One	1/4"	7 1/2 and 15	Variable	4017011-01	\$4450.00	4017011-03	\$4900.00
MR-70-1	One	1/4"	7 1/2 and 15	Fixed	4017011-05	4500.00	4017011-07	4950.00
MR-70-1	One	1/4"	15 and 30	Variable	4017011-09	4450.00	4017011-11	4900.00
MR-70-1	One	1/4"	15 and 30	Fixed	4017011-13	4500.00	4017011-15	4950.00
MR-70-2	Two	1/4"	7 1/2 and 15	Variable	4017012-01	5750.00	4017012-03	6250.00
MR-70-2	Two	1/4"	7 1/2 and 15	Fixed	4017012-05	5800.00	4017012-07	6300.00
MR-70-2	Two	1/4"	15 and 30	Variable	4017012-09	5750.00	4017012-11	6250.00
MR-70-2	Two	1/4"	15 and 30	Fixed	4017012-13	5800.00	4017012-15	6300.00
MR-70-2	Two	1/2"	7 1/2 and 15	Fixed	4017012-17	5950.00	4017012-19	6450.00
MR-70-2	Two	1/2"	15 and 30	Fixed	4017012-21	5950.00	4017012-23	6450.00
MR-70-3	Three	1/4"	7 1/2 and 15	Variable	4017013-01	6950.00	4017013-03	7650.00
MR-70-3	Three	1/4"	7 1/2 and 15	Fixed	4017013-05	7000.00	4017013-07	7700.00
MR-70-3	Three	1/4"	15 and 30	Variable	4017013-09	6950.00	4017013-11	7650.00
MR-70-3	Three	1/4"	15 and 30	Fixed	4017013-13	7000.00	4017013-15	7700.00
MR-70-3	Three	1/2"	7 1/2 and 15	Fixed	4017013-17	7200.00	4017013-19	7900.00
MR-70-3	Three	1/2"	15 and 30	Fixed	4017013-21	7200.00	4017013-23	7900.00
MR-70-4	Four	1/4"	7 1/2 and 15	Variable	4017014-01	8200.00	4017014-03	8950.00
MR-70-4	Four	1/4"	7 1/2 and 15	Fixed	4017014-05	8300.00	4017014-07	9000.00
MR-70-4	Four	1/4"	15 and 30	Variable	4017014-09	8250.00	4017014-11	8950.00
MR-70-4	Four	1/4"	15 and 30	Fixed	4017014-13	8300.00	4017014-15	9000.00
MR-70-4	Four	1/2"	7 1/2 and 15	Fixed	4017014-17	8500.00	4017014-19	9200.00
MR-70-4	Four	1/2"	15 and 30	Fixed	4017014-21	8500.00	4017014-23	9200.00

ACCESSORIES

Ampex No. 4012107-01 Sel-Sync* Plug-In Preamp—Equalized plug-in playback preamp allows recording head to be used as playback head. Incorporates 50 μ sec post-emphasis characteristics plus compensation for gap loss of record head. One Sel-Sync per channel is required. Net Each...\$110.00 *Ampex Corp. trademark.

Ampex No. 4012121-01 Editing Foot Pedal—Leaves operator's hands free during editing in "Stop", "Play" or "Fast" modes. Net Each...\$29.50

NOTE

Standard models for 115 VAC, 50 cps, or 230 VAC (with selector switch for 220 or 240 V) 50 or 60 cps operation available at same prices. Special six and eight-channel models (1" tape width) also can be supplied. Write for complete information.

ALTEC LANSING RECORDING COMPONENTS

MODEL 1567A MIXER AMPLIFIER

For PA and broadcast applications or as a remote, portable mixer. Four low-level, one high-level inputs with individual volume controls plus a master gain control. Facility provided for accessory VU meter. Two outputs: Main for hi-Z load or low-Z using 15095 plug-in transformer; second for signal to tape recorders is unaffected by master gain or tone controls. Exceeds FCC requirements for AM and FM broadcasting. Model 12866 portable case available. **Frequency Response:** ± 1 db, 30-15,000 cps. **Gain:** 97 db max., channels 1-4; 55 db max., channel 5. **Source Impedance:** 30/50 ohms; 120/200 ohms using plug-in mike transformer. **Noise Level:** -88 dbm, master gain control closed. **Controls:** Five Mixer Gains, Master Gain, Bass, Treble, Illumination, VU Range and Power. **Tubes:** 3-12AX7, 1-6CG7. **Power Required:** 20 watts, 117 v. AC, 60 cps. **Size:** 19" w. x 5 1/4" h. x 6 3/4" d. Shipping Weight, 24 lbs. **\$189.00**

Altec Lansing Model 1567A—Dark green finish. Net Each.....

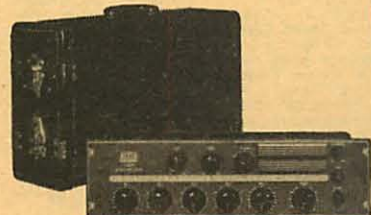
ACCESSORIES FOR 1567A

Altec Lansing Model 12866 VU Meter Assembly—Net Each.....\$27.00
Altec Lansing Model 12864 Phono Equalizer Assembly—Net Each.....5.25
Altec Lansing Model 12863 XL Connector Assembly—Net Each.....27.00
Altec Lansing Model 12866 Portable Carrying Case—Net Each.....50.00
Altec Lansing Model 4722 Plug-In Mike Transformer—Net Each.....12.75
Altec Lansing Model 15095 Plug-In Line Transformer—For 150/600 ohms line impedance. Net Each.....\$12.00

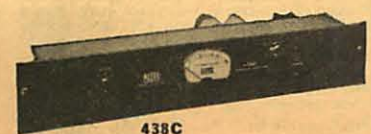
MODEL 438C COMPRESSOR AMPLIFIER

Designed for PA use but valuable in broadcast, recording and communication applications. Provides high gain preamplification plus complete automatic compression line amplifier. Assures high intelligibility, free from "blasting". A 600-ohm line bridging input is supplied for other sources. Proper balancing of both sources results in automatic "fading" of background material during paging. Serves as a simple mike preamplifier without compression by removing the 6AL5 tube from the circuit. Conveniently hinged front panel. **Gain:** 90 db, mike input; 40 db, bridging 600-ohm line. **Compression:** 30 db, max. **Power Output:** +19 dbm at 30 db compression; +24 dbm as straight amplifier. **Frequency Response:** ± 1.5 db, 40-10,000 cps. **Source Impedance:** 30/50 ohms, mike; 20,000 ohms unbalanced, bridging input. **Load Impedance:** 150 and 600 ohms. **Noise Level:** -60 dbm output, gain control at min. **Controls:** Gain; AC power switch; Threshold; Release Time. **Attack Time:** 50 milliseconds. **Harmonic Distortion:** Less than 1.5%, 35-15,000 cps at 25 db compression; 2.5%, 35-10,000 cps at 30 db. **Tubes:** 1-12AX7, 1-6BC8, 1-6CG7, 1-6AL5. **Power Required:** 22 watts, 115 v. AC, 60 cps. **Size:** 19" w. x 3 1/4" h. x 6" d. Shipping Weight, 17 lbs. **\$199.00**

Altec Lansing Model 438C—Dark green finish. Net Each.....



1567A



438C

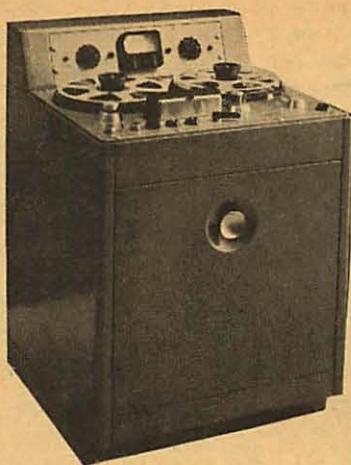
AMPEX

Tape Recorders, Duplicators

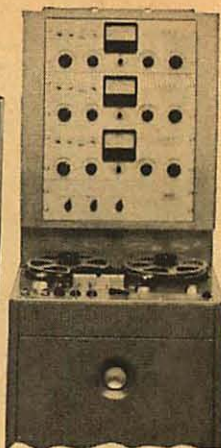
SERIES 300 MASTER RECORDERS/REPRODUCERS

Unexcelled performance verified by the continued domination of these units in the professional master recording industry. Available in single or multi-channel models (2 to 8 channels), up to three equalizations and a variety of mounting types. Transport uses three precision, heavy-duty motors; takes reels up to 14" dia.; tapes to 1" wide. Rigid unit assembly virtually eliminates flutter and wow; massive flywheel, precision capstan drive and long tape path assure no skewing. Starts and stops instantaneously. Recessed button control prevents accidental action. Fast/slow start switch permits "on" and "stand-by" capstan motor operations; provision made for remote control. Precision head alignment assures perfect playback of multi-channel recordings without phase shift between channels. Exclusive "Sel-Sync" optional feature provides switching to convert any of the heads to serve as temporary playback while others are still recording; permits sound-on-sound recording and other special effects. A-B switch allows monitoring by VU meter, headphones plugged into front panel, or by line-connected studio monitor circuit. **Tape Speeds:** 7 1/2"/sec. and 15"/sec. **Frequency Response:** ±2 db, 30-18,000 cps at 15"/sec.; ±2 db, 40-12,000 cps at 7 1/2"/sec. **Flutter and Wow:** Less than 0.1% rms at 15"/sec.; 0.15% rms at 7 1/2"/sec., measured 0-300 cps. **Noise Ratio:** 60 db, full track; 55 db, multi-track, measured when erasing signal of peak recording level in absence of new signal, 50-15,000 cps. **Equalization:** NAB 7 1/2"/sec. and 15"/sec. selected by speed on single channel unit; NAB 7 1/2"/sec. NAB 15 or AME 15 switch selected on multi-channel units. **Inputs:** Balanced or unbalanced +4 VU bridging, single channel; plus switch selected low-Z mike or bridging input on multi-channel units. **Controls:** Start, Stop and Record pushbuttons, relay operated; Play, Fast Forward and Rewind on Selector; separate button on Multi-Channel units energizes record relay for that channel only; remote control optionally available. **Outputs:** 600 ohm, +4 VU balanced or unbalanced, single channel; 600 ohm, +8 VU or +4 VU by restrapping, balanced or unbalanced, multi-channel. **Power Required:** 117 v. AC, 60 cps; 50 cps available on special order to Ampex International Operations.

Write for Prices for Special Speeds (1 1/2-30"/sec.), Heads and Extra Channels (Up to 8).



300-C



300-3SSC

TAPE RECORDERS

Ampex Model	Mounting	Tape Width	Tracks, Channels	Net Each
300-U	Uncased	1/2"	Full track, single channel	\$2395.00
300-C	Console	1/2"	Full track, single channel	2630.00
300-2U	Uncased	1/2"	Two-channel	2750.00
300-2C	Console*	1/2"	Two-channel	3200.00
300-3U	Uncased	1/2"	Three-channel	3500.00
300-3C	Console*	1/2"	Three-channel	3950.00
300-3SSU	Uncased*	1/2"	Three-channel with Sel-Sync	3800.00
300-3SSC	Console*	1/2"	Three-channel with Sel-Sync	4250.00
300-4SSU	Uncased	1/2"	Four-channel with Sel-Sync†	4650.00
300-4SSC	Console	1/2"	Four-channel with Sel-Sync†	4975.00

*Includes integral electronics rack. †Available without Sel-Sync®; deduct \$400.00 from prices shown.

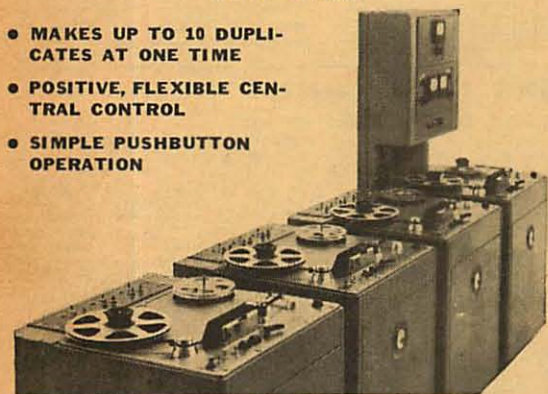
CABINETS AND MANUALS

Ampex Model	Description	Net Each
565-00	Single channel recorder cabinet	\$238.00
565-08	Console plus 3-channel electronics housing	375.00
30874-01	Electronics housing, only, for 3 channels	175.00
TM-2013	Single channel operation, maintenance manual	7.00
TM-2005	Multi-channel operation, maintenance manual	7.00

SERIES 3000 TAPE DUPLICATORS

3200 SYSTEM

- MAKES UP TO 10 DUPLICATES AT ONE TIME
- POSITIVE, FLEXIBLE CENTRAL CONTROL
- SIMPLE PUSHBUTTON OPERATION



Duplicates high quality tapes at low cost in either single or mass production runs. Meets the demands of audio engineers, broadcast technicians, educators and other critical users for high quality sound. A full system using a double-track master and ten slave recorders can reproduce in 8 minutes the material that would require 20 hours using two standard recorders. Provides simultaneous duplication of both tracks of a double track tape. Identical quality of the duplicated material is assured once the proper duplicating level is determined; tested and proved by thousands of hours of successful commercial operation. Low cost duplication obtained by low set-up time, high duplicating speed, simultaneous use of ten slaves, simplified operation control and the long lived nature of the equipment. The basic system consists of a master playback unit, master amplifier panel, master bias oscillator, master control panel and one duplicating recorder; additional slaves may be added at any time up to a maximum of ten. **Features:** Simultaneous control by master panel of all components. Pushbutton start; full speed attained in 5 to 10 seconds. Master unit and each slave equipped with full controls. Any slave may be stopped or started during duplication without affecting operation of others. All operations are meter-monitored. Handles reels up to

14" dia. Duplicates single or double-track masters in one pass of the tape. Produces 1200 hours of playback material in an 8-hour work day. Runs master tapes "backward" to eliminate need for rewinding duplicates before using. **Tape Speeds:** 30"/sec. and 60"/sec. **Frequency Response:** ±2 db, 50-5,000 cps (±4 db, 50-7,500 cps) for 3 3/4"/sec. duplicate from 3 3/4" or 7 1/2"/sec. master; ±2 db, 50-15,000 cps for 7 1/2"/sec. duplicate from 7 1/2" or 15"/sec. master. **Signal-to-Noise Ratio:** Duplicates exceed 55 db in 7 1/2"/sec. made at either 30" or 60"/sec. speed from 15" or 7 1/2"/sec. masters. **Controls:** Central Start, Stop and Record for all units from master control panel; Optional individual controls for each unit; Tape Speed, Reel Selector, Power Switch, Pilot Light, Rewind/Fast Forward/Play selector for each unit. **Monitoring:** Individual metering jacks for each head circuit for use with VTVM and audio oscillator. **Head Assemblies:** Plug-in type with two half-track play heads (one only is used for single-track duplication) for master; plug-in type with two half-track and one full-track heads for recording. **Power Required:** 115 v. AC, 60 cps; 50 cps available at no extra charge if specified. **Size:** 25 1/2" x 26" x 36 1/2" h. with rack extending 23" above top plate, consoles; 49" rack space, master; 8 3/4" rack space, master oscillator; 8 3/4" rack space, master amplifier panel; 3 3/4" rack space, master control panel; 29 3/4" rack space, each duplicating recorder.

Ampex Model 3201-C Master Playback Unit No. 16295-03—To drive 1-10 slaves; with electronics housing; operates **\$4950.00** at 30"/sec. and 60"/sec. Net Each.

Ampex Model 3202-C Slave Console Unit No. 16294-03—Operates at same speeds as playback master for re-recording. Net Each **\$2550.00**

Ampex No. TM-2008 Manual—Operation and maintenance manual for 3200 System. Net Each **\$7.00**

3300 SYSTEM

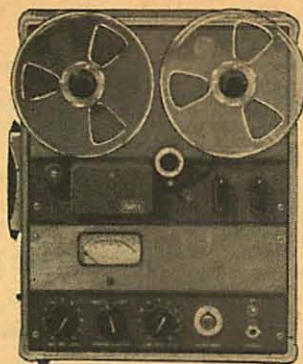
Identical to above system except designed for duplicating 4-track 1/2" tape onto 4-track 1/2" tape. Four-track operation only. Extra fast master unit has tape speeds of 60"/sec. and 120"/sec. Slaves operate at 30"/sec. and 60"/sec. All other features and specifications same as for 3200 System.

Ampex Model 3301-C Custom Master Unit—Available in console cabinet or uncased version. Custom-made to order only. Specify if to feed over 5 slaves. **Price, delivery and availability on request.**

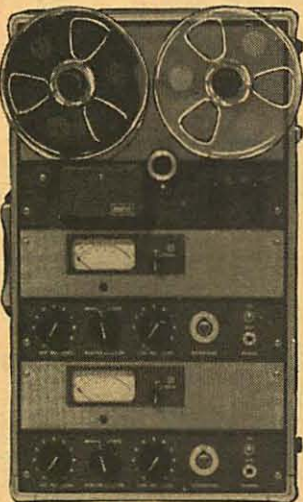
Ampex Model 3302-C Slave Console Unit No. 30636-01—Operates at 30"/sec. and 60"/sec. for simultaneous recording **\$2775.00** for 4-track 1/2" tape. Net Each.

Ampex No. TM-2007 Manual—Operation and maintenance manual for 3300 System. Net Each **\$7.00**

SERIES 602 COMMERCIAL/PROFESSIONAL FIELD RECORDERS



602-1



602-2

- ALL NEW ELECTRONICS • SILICON DIODE RECTIFIERS FOR COOL OPERATION
- IMPROVED TRANSPORT • BUILT-IN LOW IMPEDANCE MIKE TRANSFORMER
- HYSTERESIS-SYNCHRONOUS DRIVE MOTOR
- RECORD/SAFE SWITCH ON EACH CHANNEL • VERSATILE, PORTABLE, DEPENDABLE
- DC FILAMENT FOR LOW NOISE OPERATION
- REDESIGNED CLUTCHES GIVE UP TO 10 TIMES LONGER LIFE

Versatile Instrument offers full portability without compromising its reliability for professional studio performance. Improved version of the famous Ampex 600 Series, this field recorder delivers dependable, versatile recording and playback facilities for the most discriminating user. Available in two channel stereo, or monophonic models and matching speaker/amplifier to meet every field or studio requirement. Carry it with you; or, rack mount it for custom installation. Superior electronics permits monitoring tape or source while recording with separate heads and amplifiers for record and playback. Separate mixing controls for mike and line; two mikes can be mixed on one channel with accessory plug-in preamp in line circuit. Facility to feed 600-ohm remote broadcast line; built-in low impedance mike transformer. Cool operation by use of silicon diode rectifiers; DC filament holds noise to a minimum. Professional 3" VU meters permit monitoring during recording or playback. Sturdy parts and high quality components assure reliable operation under rugged operating conditions. Electronic adjustments accessible through "window" in rear of portable case. Improved transport employs hysteresis-synchronous drive motor; may be operated either horizontally or vertically. Redesigned clutches give up to 10 times longer life. Actually costs less per hour than low quality recorders due to fewer adjustments and parts replacements. Easy-to-carry, durable case is lightweight; single channel model weighs only 28 lbs. **Full one-year warranty on all parts.**

SPECIFICATIONS

Frequency Response: ± 2 db, 40-10,000 cps at $7\frac{1}{2}$ " /sec.; down no more than -4 db at 15,000 cps. +2, -4 db, 40-8,000 cps at $3\frac{3}{4}$ " /sec. **Flutter and Wow:** Less than 0.17% at $7\frac{1}{2}$ " /sec.; less than 0.25% at $3\frac{3}{4}$ " /sec., ASA standard. **Signal-to-Noise Ratio:** Over -57 db Model 602-1 with full track head; -55 db, half-track head. Model 602-2, over -55 db at $7\frac{1}{2}$ " /sec. **Timing Accuracy:** $\pm 0.2\%$ at $7\frac{1}{2}$ " /sec. (± 3.6 sec. in 30 minute recording). **Tape Speeds:** Separate models for $7\frac{1}{2}$ " /sec. and $3\frac{3}{4}$ " /sec.; both with fast forward and rewind (90 sec. for 1200-ft. reel). **Reel Size:** Up to 7". **Inputs:** Each channel has two with individual gain controls: Low-Z mike requires 150 μ V for recording; 100K ohms unbalanced line requires -10 dbm for recording. All have Cannon XL connectors. Provision for use of plug-in balanced line or bridging input transformers. Line input may be used for second mike with accessory plug-in preamplifier. **Equalization:** For 117 v. AC, 60 cps models: $7\frac{1}{2}$ " /sec., NAB; $3\frac{3}{4}$ " /sec., 120 μ sec. For 115/230 v. AC, 50 cps models: $7\frac{1}{2}$ " /sec., NAB or CCIR; $3\frac{3}{4}$ " /sec., 120 or 200 μ sec. **Outputs:** Each channel: +4 dbm into 600 ohms, balanced or unbalanced; headphone jack on front panel with monitor selector knob for monitoring from either the input source or tape playback while recording. **Power Required:** Model 602-1, 70 VA; Model 602-2, 105 VA. Standard models 117 v. AC, 60 cps; 115/230 v. AC, 50 cps also available. **Size:** Transport area $9\frac{1}{4}$ " x $12\frac{1}{2}$ "; electronic top area, $6\frac{1}{2}$ " x $12\frac{1}{2}$ " (two on Model 602-2); depth, 5" below top plate. Overall with case: Model 602-1, 8" x $13\frac{3}{4}$ " x $16\frac{1}{2}$ "; Model 602-2, 8" x $13\frac{3}{4}$ " x 23". Weight, 28 lbs., Model 602-1; 42 lbs., Model 602-2.

STANDARD MODELS

For 117 v. AC, 60 cps operation. Uncased and full-track versions of $3\frac{3}{4}$ " /sec. model available on special request.

Ampex Model 602-1 Portable, Catalog No. 602-01 ($7\frac{1}{2}$ " /sec., $\frac{1}{2}$ -track), **No. 602-02** ($7\frac{1}{2}$ " /sec., full-track) or **No. 602-17** ($3\frac{3}{4}$ " /sec., $\frac{1}{2}$ -track) **Monophonic Recorder**—Net. **\$625.00**

Ampex Model 602-1 Uncased, Catalog No. 602-03 ($7\frac{1}{2}$ " /sec., $\frac{1}{2}$ -track) or **602-04** ($7\frac{1}{2}$ " /sec., full-track) **Monophonic Recorder**—Less case. See accessories, below, for rack mount adapter. Net Each. **\$575.00**

Ampex Model 602-2 Portable, Catalog No. 6022-01 ($7\frac{1}{2}$ " /sec., 2-track) or **6022-07** ($3\frac{3}{4}$ " /sec., 2-track) **Stereo Recorder**—Two complete channels in portable case. Net Each. **\$875.00**

Ampex Model 602-2 Uncased, Catalog No. 6022-02 ($7\frac{1}{2}$ " /sec., 2-track) **Stereo Recorder**—Less case. See accessories, below, for rack mount adapter. Net Each. **\$795.00**

MODEL 622 SPEAKER/AMPLIFIER

Combined 8" speaker and 10 watt amplifier in matching portable case for use with above 602 Series recorders. Controls include volume, bass-treble, power switch and on-off indicator light. Concentric pin type audio input connector; built-in AC power outlet. External speaker jack automatically cuts out the built-in speaker and reciprocal network, delivering flat amplifier output to an external speaker. Single control on front panel provides boosting bass and attenuating treble, or vice versa; maximum boost 6 db, relative to opposite end. Special design 8" speaker gives full range frequency response. **Frequency Response:** Essentially flat, 65-10,000 cps. **Power Output:** 10 watts without audible harmonic distortion; speaker can handle full power. **Impedance:** Inputs, 100K ohms; output, 12 ohms to external speaker. **Power Required:** 55 watts, 0.5 amp, 117 v. AC, 50 or 60 cps. **Size:** 13" x 16" x 8", in portable case. Weight, 25 lbs. U/L Approved.

Ampex Model No. 622 Portable Speaker/Amplifier—Net Each. **\$189.50**



622

SERIES 602 TAPE RECORDER ACCESSORIES

Ampex Model 89-0080 Operation and Maintenance Manual—For all 602 Models. Net Each. **\$8.00**

Ampex Model 89-0099 Operator's Guide for 622 Amplifier/Speaker—Net Each. **\$1.00**

Ampex Model 820 Head Demagnetizer—Net Each. **9.95**

Ampex Model 823 Head Cleaner—4 oz. can. Net Each. **1.45**

Ampex Model 825 Lubricating Oil—In plastic oiler. Net. **.95**

Ampex Model 854 Portable Case—For all single-channel models. Net Each. **\$59.50**

Ampex Model 855 Portable Case—For all 2-channel stereo models. Net Each. **\$89.50**

Ampex Model 864 Rack Mount Adapter—Permits installing all 1-channel models in standard 19" rack. Takes $17\frac{1}{2}$ " vertical space when installed. Net Each. **\$17.50**

Ampex Model 865 Rack Mount Adapter—Same as 864, but for all 2-channel stereo models. Takes $23\frac{3}{4}$ " vertical space when installed. Net Each. **\$25.00**

Ampex Model 894 Professional Accessory Kit—Includes head cleaner, demagnetizer, motor oil and Q-tips. Net Each. **\$12.50**

Ampex Model 897 Minor Hardware Kit—Net Each. **11.95**

Ampex Model 830 Alignment Tape—Designed for alignment on full track, $7\frac{1}{2}$ " /sec. Net Each. **\$21.95**

Ampex Model 831 Alignment Tape—Designed for alignment on full track, $3\frac{3}{4}$ " /sec. Net Each. **\$21.95**

Ampex Model 835 Alignment Tape—Designed for alignment of tracks 1 and 3 on 4-track tape at $7\frac{1}{2}$ " /sec. Net Each. **\$21.95**

Tape Recorders, Tapes

SERIES PR-10 PORTABLE RECORDERS



- WORLD'S MOST ADVANCED PROFESSIONAL RECORDER
- MONOPHONIC AND STEREO-MONOPHONIC MODELS
- PLUG-IN PREAMPS, EQUALIZERS
- 4-POSITION, 2-CHANNEL MIXER

The first fully-portable, 2-speed compact recorder with professional studio features and quality. Exclusive electro-dynamic clutch system introduces smoothest tape handling mechanism ever designed; faster, gentler, starts without throwing tape loops; lower operating and braking tensions permits use of thin-base tapes; gives maximum tape-to-head contact without pressure pads. Four-position head assembly with separate erase, record and playback heads for long life; extra position for optional, 4-track stereo playback or special requirements. Plug-in equalizers provide easy selection of NAB (supplied) or AME curves. Front-panel accessibility to all bias, level and equalization alignment controls. Positive pushbutton control; relay-solenoid operation permits full remote control. Automatic shut-off switch releases pressure roller and brake solenoids. Large, continuous duty, hysteresis synchronous motor for horizontal or vertical operation. Compact electronics include "record-safe" switch, "A-B" monitor switches and hi-lo speed equalization switches. Record selector on 2-channel model selects A, A and B, or B; permits half track stereo, or parallel track monophonic and sound-on-sound recording. Two track heads permit conversion to two-channel, two-track stereo without changing heads. Write for available information on four-track playback head installed on any PR-10-1 or PR-10-2, complete with integral switch for two or four-track playback selection. Two 3" side-by-side VU meters give simultaneous reading and balancing of channels. Mounts in standard 19" rack in only 14" of space.

SPECIFICATIONS

Guaranteed minimum performance specifications listed are based on accurate measurements and professional standards for long range usage. **Speeds:** 7 1/2" and 15"/sec.; or, 3 3/4" and 7 1/2"/sec. **Frequency Response:** ±2 db, 30-15,000 cps at 15"/sec; 40-12,000 cps at 7 1/2"/sec.; 40-6,000 cps at 3 3/4"/sec. **Signal-to-Noise Ratio:** Better than 55 db at 7 1/2" and 15"/sec; 50 db at 3 3/4"/sec. **Flutter and Wow:** Less than 0.15% rms 15"/sec.; 0.13% rms at 7 1/2"/sec.; 0.25% at 3 3/4"/sec. **Timing Accuracy:** ±0.25% at 7 1/2" and 15"/sec.; ±0.40% at 3 3/4"/sec. **Output:** +4 dbm into 600-ohm balanced or unbalanced load. Cannon XL connectors. Single and 2-channel headphone jacks provided. **Inputs:** Single Channel Model—Low-Z mike and unbalanced bridging with provisions for plug-in balanced bridging transformers (or low-Z plug-in mike preamp). Two-Channel Model—One unbalanced bridging input per channel with provision for plug-in balanced bridging or low-Z plug-in mike preamp. Model MX-10 accessory mixer designed to feed unbalanced bridge inputs. **Power Required:** 117 v. AC, 60 cps. **Size:** 8 3/4" x 19" rack space for transport; 5 1/4" x 19", electronics. Weight, 53 lbs. portable.

Ampeg Model PR-10-1 Single Channel Recorder 96001-11 (Full-Track) or 96001-33 (Two-Track)—Unmounted; for \$1045.00
 3 3/4" and 7 1/2"/sec. Net Each.....
Ampeg Model PR-10-1 Single Channel Recorder 96001-09 (Full-Track) or 96001-01 (Two-Track)—Unmounted; for \$1045.00
 7 1/2" and 15"/sec. Net Each.....

Ampeg Model PR-10-1 Single Channel Recorder 96001-36 (Full-Track) or 96001-34 (Two-Track)—Portable mount—\$1125.00
 ing; for 3 3/4" and 7 1/2"/sec. Net Each.....
Ampeg Model PR-10-1 Single Channel Recorder 96001-35 (Full-Track) or 96001-33 (Two-Track)—Portable mount—\$1125.00
 ing; for 7 1/2" and 15"/sec. Net Each.....
Ampeg Model PR-10-1 Single Channel Recorder 96001-40 (3 3/4" and 7 1/2"/sec.) 96001-47 (7 1/2" and 15"/sec. NAB) or 96001-18 (7 1/2" and 15"/sec. CCIR)—Full-track; unmounted. \$1095.00
 Multi-volt; 50 cps. Net Each.....
Ampeg Model PR-10-2 Two-Channel Recorder 96000-03 (3 3/4" and 7 1/2"/sec.) or 96000-01 (7 1/2" and 15"/sec.)—\$1245.00
 Unmounted stereo-monophonic recorder-player. Net.
Ampeg Model PR-10-2 Two-Channel Recorder 96000-18 (3 3/4" and 7 1/2"/sec.) or 96000-17 (7 1/2" and 15"/sec.)—\$1325.00
 Two-track; portable mounting. Net Each.....
Ampeg Model PR-10-2 Two-Channel Recorder 96000-04 (3 3/4" and 7 1/2"/sec.) 96000-02 (7 1/2" and 15"/sec. CCIR) or 96000-09 (7 1/2" and 15"/sec. NAB)—Two-Track; unmounted stereo-monophonic recorder-player. Multi-volt, 50 cps. \$1295.00
 Net Each.....
Ampeg Model PR-10-4 Two-Channel Recorder 4018004-01 (Quarter-Track) with four- and two-track playback. Signal-to-noise ratio better than 55 db at 3 3/4" and 7 1/2"/sec. \$1295.00
 Unmounted. Net Each.....
Ampeg Model PR-10-4 Two-Channel Recorder 4018004-03—Same as above, but portable. Net Ea. \$1375.00
Ampeg Model PR-10-4 Two-Channel Recorder 4018004-06—Same as Model 4018004-01, except multi-volt version, 50 cps. Unmounted. Net Each..... \$1345.00
Ampeg Model PR-10-4 Two-Channel Recorder 4018004-08—Same as above model, but portable. \$1425.00
 Net Each.....

ACCESSORIES AND CASES

Ampeg Model MX-10 Stereo/Monophonic Two-Channel Mixer 96900-01—Four low-Z mike and two high level bridging inputs; each feeds channel A, A and B or B by switch selection. Facilities for coupling up to four MX-10 mixers provided. Matches design and finish of PR-10. Size, 5 1/4" x 19". Unmounted. \$395.00
 Net Each.....
Ampeg Model 622 Speaker-Amplifier 01-0622—Ideal companion to PR-10 Series, 602 Series and other portable recorders. Gives studio sound in compact size. Matched 8" speaker, \$189.50 enclosure and 10-watt, push-pull amplifier. Net Each.....

Ampeg Number	Description	Net Each
15-0200-01	Portable PR-10 case	\$ 75.00
96940-01	Portable case for PR-10 and MX-10	125.00
96015-01	4-track play head, mtg. hardware and switch	79.50
96121-01	7 1/2" NAB/15" NAB record equalizer	9.90
96120-01	3 3/4" NAB/7 1/2" NAB record equalizer	9.90
96122-01	7 1/2" NAB/15" AME record equal. for PR-10-1	9.90
96111-03*	7 1/2"/15" NAB reproduce equalizer	9.90
96110-03*	3 3/4" (120 cps) 7 1/2" NAB reproduce equalizer	9.90
96112-03*	7 1/2" NAB/15" AME reproduce equal. PR-10-1	14.50
96114-03*	3 3/4" (200 cps) 7 1/2" NAB reproduce equalizer	9.90
96510-01	Remote control with 30' cable	85.00
96520-01	Panel mount version remote, less cord	57.50
58-0116-01	Plug-in bridging input transformer	14.50
58-0116-02	Plug-in matching 600-ohm transformer	14.50
96440-01	Plug-in 40 db mike preamplifier	45.00
96440-04	Plug-in 60 db mike preamplifier	60.00

*For full track units change suffix to -05 (example: 966111-05). †Specify 120 or 200 μsec. ‡For Models PR-10-1 and PR-10-2.

AMPEX LABORATORY-STANDARD

Ampeg alignment tapes are the standard of the recording and broadcast industry, used by development labs, service depots, recording and broadcast studios throughout the world. All are recorded on the finest Ampeg mastering equipment by skilled engineers working under laboratory conditions.

All signal information on Ampeg alignment tapes is an original recording, not a duplication. Exclusive with Ampeg, this procedure holds deviations from standard to an absolute minimum; assures maximum uniformity from one tape to another.

Ampeg standard alignment tapes are made to agree with published standards of appropriate technical organizations (NAB, CCIR) and are available for various speeds, tape widths and track requirements.

Custom Alignment Tapes: Also available on a special order basis to meet various manufacturers, R & D and service organizations needs. Typical tapes include: Manufacturer's checkout tapes; tapes used for development of heads, recorders, etc.; and tapes to complement special machines. Inquiries for your special requirements are invited.

CALIBRATED FLUTTER TEST TAPE

Provides program of 600 ft. of 3 kc signal at 2 db above operating level. With meter calibration segment.

Ampeg Number	Tape Speed	Description	Net Each
31336-01	3 3/4"	30 min. playback time, 1/4" tape	\$21.95
31326-01	7 1/2"	15 min. playback time, 1/4" tape	21.95
31316-01	15"	7 1/2 min. playback time, 1/4" tape	21.95

ALIGNMENT AND TEST TAPES

CALIBRATED LEVEL SET TAPE

Provides program of 400 ft. of 700 cps signal at operating level.

Ampeg Number	Tape Speed	Description	Net Each
31325-01	7 1/2"	10 min. playback time, 1/4" tape	\$17.50
31315-01	15"	5 min. playback time, 1/4" tape	17.50

ALIGNMENT TAPE

Common Program Sequence, Nos. 31311-01, 31312-01, 31313-01, 31314-05, 31312-05: Operating level 700 cps, 15 secs.; 15 kc, 30 cps, 12 kc, 10 kc, 7.5 kc, 5 kc, 2.5 kc, 1 kc, 500 cps, 250 cps, 100 cps, 50 cps at 30 cps for 1 sec. each. **Nos. 31321-01, 31323-01, 31321-04 and 31321-05:** 10 db below operating level, 700 cps, 15 secs.; 15 kc, 30 cps, 12 kc, 10 kc, 7.5 kc, 5 kc, 2.5 kc, 1 kc, 500 cps, 250 cps, 50 cps for 10 secs. each; operating level, 700 cps, 15 secs. **No. 31321-04** has additional first signal 3 kc tone for one minute at operating level for vertical head adjustment. **Nos. 31331-01 and 31334-01:** 10 db below operating level 500 cps, 15 secs.; 7.5 kc, 30 cps; 5 kc, 20 cps; 2.5 kc, 1 kc, 500 cps, 250 cps, 100 cps and 50 cps for 10 secs. each; final 500 cps at operating level for 15 secs.

Ampeg Number	Tape Speed	Description	Net Each
31331-01	3 3/4"	1/4" full track, 120 μsec.	\$21.95
31334-01	3 3/4"	1/4" full track, 200 μsec.	21.95
31321-01	7 1/2"	1/4" full track, 50 μsec.	21.95
31321-04	7 1/2"	tracks 1 & 3 (of 4), 50 μsec.	21.95
31311-01	15"	1/4" full track NAB, 50 μsec.	21.95
31312-01	15"	1/4" full track AME	21.95
31321-05	7 1/2"	1/4" full track, 50 μsec.	31.50
31311-05	15"	1/4" full track NAB, 50 μsec.	31.50
31312-05	15"	1/4" full track AME	31.50

Recorders/Reproducers

NEW AG-350 SOLID STATE TAPE RECORDERS/REPRODUCERS

A series of professional units designed for trouble-free continuous duty operation in the most exacting applications. Cover all mono-phonie and stereo recording and playback requirements where quality, reliability, economy and low maintenance are "musts". Widely used in broadcasting, recording studios, industry, medicine, business, government and defense. The rugged, dependable tape transport retains the time-proven qualities of the previous Ampex 350 Series but incorporates a number of additional features for greater operator efficiency and convenience. The completely redesigned, more compact electronics unit is 100% solid state for cool operation and low power consumption; the plug-in transistors

used are readily available and easily replaced. Special head-gate design allows wider opening for easier editing, cleaning and threading. Equalization is automatic, switching is done when tape speed is selected. Head assembly has ferrite-type erase head, individually mu-metal shielded record and playback heads, and nonwearing, glass tape lifters. Large, easy-to-read VU meters have selectors reading input, tape level, bias and erase current; necessary electronic adjustments can be made from the front panel. Units offer a host of other features to maintain professional recording excellence. Available in dual-speed 7 1/2 and 15 ips or 3 3/4 and 7 1/2 ips models.

Tape Speeds: 7 1/2 and 15 ips, or 3 3/4 and 7 1/2 ips. **Tape Width:** Standard 1/2" tape. **Reel Size:** 10 1/2" max. **Overall Frequency Response:** ±2 db, 30-18,000 cps at 15 ips; ±2 db, 40-10,000 cps (+2, -4 db, 30-15,000 cps) at 7 1/2 ips; ±2 db, 50-7,500 cps at 3 3/4 ips. **Flutter (ASA Z57.1-1954 standard):** Below 0.11% rms at 15 ips; 0.14% rms at 7 1/2 ips; 0.18% rms at 3 3/4 ips. **Signal-to-Noise Ratio:** 60 db full track and 55 db two track at 15 and 7 1/2 ips; 55 db full track and 50 db two track at 3 3/4 ips (peak record level to unweighted noise; includes bias, erase and playback amplifier noise). **Record Input:** 100K bridging; 20 dbm to produce recommended operating level. **Equalization:** NAB (CCIR curves available on special order). **Start Time:** Tape at full speed in less than 1/10 sec. **Stop Time:** Tape moves less than two inches after pressing stop button (at 15 ips). **Playback Timing Accuracy:** ±0.2% (±3.6 sec in 30 min. recording time). **Rewind Time:** Approx. 1 min. for 2400-ft. NAB reel; 30 sec for 1200-ft. EIA reel (thin base tapes proportionately longer). **Electronic Adjustments:** (Front Panel) Equalization; reproduce level; record level; reproduce calibration; record calibration; bias adjustment. **Power Required:** 117 VAC, 2 amps for single channel, 2.5 amps for two channels. **Size:** Console, 24 3/4" w. x 27 1/4" d. x 52" h.; rack-mount transport, 19" x 15 1/2"; rack-mount electronics, 19" x 5 1/4" (two electronics required for two-channel stereo).



Model AG-350-2
Two-Channel Console

Ampex Model	Catalog Number	Mode	Track	Speeds (ips)	Mounting	Net Each
AG-350-1	4010035-01	Mono	Full	7 1/2 and 15	Unmounted	\$1750.00
AG-350-1	4010035-05	Mono	Full	7 1/2 and 15	Portable	1870.00
AG-350-1	4010035-03	Mono	Full	7 1/2 and 15	Console	2075.00
AG-350-1	4010035-13	Mono	Full	3 3/4 and 7 1/2	Unmounted	1750.00
AG-350-1	4010035-17	Mono	Full	3 3/4 and 7 1/2	Portable	1870.00
AG-350-1	4010035-15	Mono	Full	3 3/4 and 7 1/2	Console	2075.00
AG-350-1	4010035-07	Mono	Half	7 1/2 and 15	Unmounted	1750.00
AG-350-1	4010035-19	Mono	Half	3 3/4 and 7 1/2	Unmounted	1750.00
AG-350-2	4010036-01	Stereo	Two	7 1/2 and 15	Unmounted	2345.00
AG-350-2	4010036-05	Stereo	Two	7 1/2 and 15	Portable	2475.00
AG-350-2	4010036-03	Stereo	Two	7 1/2 and 15	Console	2670.00
AG-350-2	4010036-07	Stereo	Two	3 3/4 and 7 1/2	Unmounted	2345.00
AG-350-2	4010036-11	Stereo	Two	3 3/4 and 7 1/2	Portable	2475.00
AG-350-2	4010036-09	Stereo	Two	3 3/4 and 7 1/2	Console	2670.00
AG-350-2	4010036-13	Stereo	Two*	7 1/2 and 15	Unmounted	2395.00
AG-350-2	4010036-19	Stereo	Two*	3 3/4 and 7 1/2	Unmounted	2395.00
AG-350-2	4010036-15	Stereo	Two*	7 1/2 and 15	Console	2720.00
AG-350-2	4010036-21	Stereo	Two*	3 3/4 and 7 1/2	Console	2720.00

*With four-position head.

NEW AG-355 SOLID STATE TAPE REPRODUCERS

Employ the same basic tape transport as the AG-350 Series Recorders/Reproducers, but contain playback facilities only. Series AG-355 electronics are also completely solid state. One-channel reproducers have full-track or half-track head; two-channel models have two-track reproduce head assembly, or two-track and four-track switchable head assembly. **Playback Frequency Response:** ±1 db, 50-10,000 cps (±1 1/2 db at 15 kc) at 15 ips; ±1 db, 50-10,000 cps (±2 db at 12 kc) at 7 1/2 ips; ±1 db, 50-5,000 cps (±2 db at 7.5 kc) at 3 3/4 ips. **Playback Output:** +8 dbm into 600 ohms, retraceable for +4 dbm, balanced or unbalanced; maximum of +28 dbm before clipping. See AG-350 Series Recorders/Reproducers for other specs.

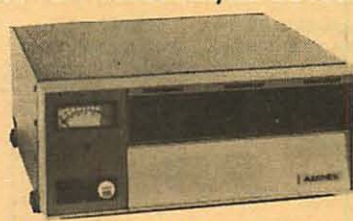
Ampex Model	Catalog Number	Mode	Track	Speeds (ips)	Mounting	Net Each
AG-355-1	4010037-01	Mono	Full	7 1/2 and 15	Unmounted	\$1325.00
AG-355-1	4010037-03	Mono	Full	7 1/2 and 15	Console	1595.00
AG-355-1	4010037-13	Mono	Full	3 3/4 and 7 1/2	Unmounted	1325.00
AG-355-1	4010037-15	Mono	Full	3 3/4 and 7 1/2	Console	1595.00
AG-355-1	4010037-07	Mono	Half	7 1/2 and 15	Unmounted	1325.00
AG-355-1	4010037-09	Mono	Half	7 1/2 and 15	Console	1595.00
AG-355-1	4010037-19	Mono	Half	3 3/4 and 7 1/2	Unmounted	1325.00
AG-355-1	4010037-21	Mono	Half	3 3/4 and 7 1/2	Console	1595.00
AG-355-2	4010038-13	Stereo	Two	7 1/2 and 15	Unmounted	1525.00
AG-355-2	4010038-15	Stereo	Two	7 1/2 and 15	Console	1820.00
AG-355-2	4010038-19	Stereo	Two	3 3/4 and 7 1/2	Unmounted	1525.00
AG-355-2	4010038-21	Stereo	Two	3 3/4 and 7 1/2	Console	1820.00
AG-355-2	4010038-01	Stereo	Two and four	7 1/2 and 15	Unmounted	1595.00
AG-355-2	4010038-03	Stereo	Two and four	7 1/2 and 15	Console	1890.00
AG-355-2	4010038-07	Stereo	Two and four	3 3/4 and 15	Unmounted	1595.00
AG-355-2	4010038-09	Stereo	Two and four	3 3/4 and 15	Console	1890.00

AG-350/AG-355 SERIES ACCESSORIES AVAILABLE INCLUDE MODEL MX-10 STEREO/MONO MIXER, REMOTE CONTROL UNITS, PLUG-IN EQUALIZERS AND PLUG-IN INPUT UNITS. WRITE FOR PRICES.

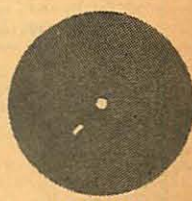
NEW AG-100 CUE-MATIC* MAGNETIC MAT RECORDER/REPRODUCER

Introduces a new concept in short-duration monophonic recording and playback for recording studios, radio stations, advertisers and their agencies. Offers easy operation, day-in day-out dependability of performance, easy maintenance, and improved recording quality at lower cost. Cue-Matic utilizes an 11 1/2" magnetic mat instead of reel-to-reel tape; mat is easily slipped into the front of the recorder and automatically cued. Cue time runs from under 1/2 to 5 seconds maximum depending on position of cue slot on mat; timing is operator controlled. Maximum playing time is 3 3/4 minutes, excellent for individual spots, complete 45's or LP album excerpts. Indicator lights show Cue, Ready, and Run modes. Safety device prevents accidental recording. Automatic, inaudible 30-cps tone at end of recording releases mat, and may be used to start a second Cue-Matic or other equipment, or to re-cue the same mat. All solid state electronics. **Recording/Playing Time:** 3 min., 45 sec. **Timing Accuracy:** ±0.2%. **Flutter and Wow:** Below 0.15% rms. **Start Time:** Approximately 0.1 sec. **Cuing Time:** .5 to 5 sec., operator controlled. **Frequency Response:** ±3 db, 70-12,000-cps during first minute, to ±3 db, 70-10,000 cps at max. record/play time. **Signal-to-Noise Ratio:** 50 db. **Power Required:** 105-125 volts, 60 cps, single phase (50 cps models available). **Size:** 19" w. x 17" d. x 7" h. Can be mounted in standard 19" rack with brackets. Weight, 65 lbs.

Ampex Model AG-100 Cue-Matic Recorder/Reproducer 4010039-01—Net Each.....\$1395.00
Ampex Model AG-105 Cue-Matic Reproducer 4010039-02—Playback function identical to Model AG-100. Net Each.....\$1145.00



Model AG-100 Cue-Matic



Cue-Mat

CUE-MATIC ACCESSORIES

Ampex Cue-Mat* No. 672-EGLLJY Magnetic Recording Mat—11 1/2" diameter, 3-mil polyester mats coated with a special random-oriented magnetic formulation. Maintains all the broadcast quality sound requirements and durability of tape. Can be quickly bulk erased. Includes one pressure-sensitive label per mat. Package of 50.....\$22.50
Ampex No. 4010045-01 Accessory File Case—Provides convenient index and file system for 100 to 200 magnetic recording mats. Includes 100 dividers. Net Each.....\$19.50
 *Ampex Corp. trademark.

Ampex Replacement Parts

300/350/351/354 SERIES SPARE PARTS

Ampex Number*	Description	Prof. User Net Price
4030127-10	Capstan Assembly 15, 30, 60 lps	5140.00
4030127-30	Capstan Assembly 7 1/2, 15 lps	95.00
4030127-40	Capstan Assembly 3 3/4, 7 1/2 lps	95.00
4100131-10	Capstan Dust Cap 1 1/2"	10.00
4100131-30	Capstan Dust Cap 3/4"	12.00
4440247-10	Capstan Felt Washer-Dust Seal	.20
430-050	Capstan TRU-ARC Retainer	.35
4030116-10	Capstan Idler Assembly 7 1/2, 15 lps	20.00
4030116-80	Capstan Idler Assembly 3 3/4, 7 1/2 lps, 3/4"	20.00
33-0106-01	Capstan Idler Arm	15.00
4200126-10	Capstan Idler Arm Bearing	9.10
4590063-10	Capstan Idler Solenoid	11.00
4270176-10	Capstan Solenoid Return Spring	.30
4270162-10	Capstan Idler Adjusting Spring	.15
4030131-05	Drive Motor 60 cps 3 3/4, 7 1/2 lps	150.00
4030131-08	Drive Motor 60 cps 7 1/2, 15 lps	150.00
4030131-07	Drive Motor 60 cps 15, 30 lps	150.00
4030131-12	Drive Motor 60 cps 7 1/2, 15 lps	160.00
4030131-11	Drive Motor 60 cps 15, 30 lps	160.00
4270179-10	Drive Motor Return Spring-Console	.55
4270180-01	Drive Motor Return Spring-Rack	.70
4590063-10	Drive Motor Solenoid	11.00
4270175-10	Drive Motor Pressure Adjusting Spring	.20
4030113-40	Take Up Assembly-Complete, 3/4"	160.00
4030115-40	Rewind Assembly-Complete, 3/4"	160.00
4030114-10	Take Up Brake Assembly, 3/4"	49.00
4030114-30	Take Up Brake Assembly, 3/4"	49.00
4030114-20	Rewind Brake Assembly, 3/4"	31.00
4030114-40	Rewind Brake Assembly, 3/4"	49.00

Parts common to Take Up and Rewind Assembly

85-0050-01	Motor Assembly	5130.00
4040414-10	Brake Band-Raybestos	2.80
85-0070-01	Brake Band-Felt	3.50
4270164-10	Brake Band Leaf	.45
4590067-10	Brake Solenoid	4.30
4330116-10	Turntable	7.00
4130105-10	Turntable Pad-Cork	.35
4030135-20	Rotary Tape Guide, 3/2"	38.00
4040469-10	Reel Guard-10 1/2"	5.70
4110172-10	Reel Guard-14"	3.50
4030111-60	Take Up Tension Arm, 3/2"	39.00
4030111-10	Take Up Tension Arm, 3/2"	32.00
4210183-20	Tape Guide, Tension Take Up Arm, 3/2"	4.40
4210183-10	Tape Guide, Tension Take Up Arm, 3/2"	4.60
4230158-10	Hook Guide, Tension Take Up Arm	1.30
4040407-15	Reel Idler Assembly 7 1/2, 15 lps, 3/4"	63.00
4040407-08	Reel Idler Assembly 7 1/2, 15 lps, 3/4"	60.00
4040407-03	Reel Idler Assembly 3 3/4, 7 1/2 lps, 3/4"	75.00
4290272-10	Base, Reel Idler Assembly	24.00
4040408-50	Reel Idler Pulley 7 1/2, 15 lps	28.00
4040408-10	Reel Idler Pulley 3 3/4, 7 1/2 lps, 3/4"	31.00
4210188-20	Reel Idler Assembly Tape Guide, 3/2"	4.00
4210188-10	Reel Idler Assembly Tape Guide, 3/2"	14.60
4250115-10	Reel Idler Flywheel	12.00
41-00132-10	Guard, Record Pushbutton	1.20
4100124-10	Guard, Stop & Start Pushbutton	.40
230-010	Knob, Speed Change	.15
230-002	Knob, Mode Selector	.70
132-005	Pilot Lamp Base, Amber (single track 300)	2.00
132-006	Pilot Lamp Base, Red	2.60
132-011	Pilot Lamp Base, Amber (multichannel 300)	2.70

Parts common to all transports

4040590-01	Capacitor, Drive Motor 5MFD	\$ 5.50
4540292-30	Capacitor, Rewind Motor, 60 cps	.85
4540292-10	Capacitor, Take Up Motor, 60 cps	.85
020-006	Relay	5.90
120-062	Switch, Safety	3.40
122-014	Switch, Speed	5.90
120-003	Switch, Power	2.40
122-025	Switch, Mode Selector	1.20
120-014	Switch, Pushbutton, Stop	1.20
120-013	Switch, Pushbutton, Record	1.20
120-025	Switch, Pushbutton, Play	7.60
581-001	Rectifier	8.90

*If only one part number with same suffix is shown, it is the same for either 3/4" or 1/2" equipment.

300 MULTICHANNEL 30960-11 AND -12

ELECTRONIC PARTS—All for 1/4" equipment

Ampex Number	Description	Prof. User Net Price
4050124-01	Power Supply Board	\$55.00
4050122-06	Record Board	65.00
4050125-03	Reproduce Board	41.00
4590061-01	Relay, Record	14.00
020-066	Relay	5.80
582-031	Rectifier, Bias Coupling Relay	2.30
581-001	Rectifier, Selenium	8.90
4140012-10	Meter, VU	43.00
62-0130	Switch, Rotary Input Transfer	1.60
62-0132-01	Switch, Equalization	3.90
62-0133-01	Switch, Meter and Output	2.90
122-016	Switch, Line Termination	2.80
120-005	Switch, Power	.80
120-013	Switch, Record	1.20
132-003	Light, Record Indicator	1.10
4580022-01	Transformer, Input	28.00
58-0124-01	Transformer, Output	8.30
58-0125-01	Transformer, Power	16.00
4580115-10	Transformer, Oscillator	13.00
4580122-10	Transformer, Microphone	60.00

350 SERIES TRANSPORTS—All for 1/4" equipment

Ampex Number	Description	Prof. User Net Price
850049-01	Drive Motor, 7 1/2, 15 lps, 60 cps	\$160.00
850049-05	Drive Motor, 7 1/2, 15 lps, 50 cps	170.00
850049-04	Drive Motor, 3 3/4, 7 1/2 lps, 60 cps	160.00
850049-03	Drive Motor, 3 3/4, 7 1/2 lps, 50 cps	170.00
4040591-02	Drive Motor Capacitor	7.80
4250114-10	Drive Motor Flywheel, Bodine	8.40
4250113-10	Drive Motor Flywheel, Ashland	20.00
591-001	Drive Motor Fan	2.60
4030113-30	Take Up Assembly	160.00
4030115-30	Rewind Assembly	160.00
4040406-20	Capstan Dust Cap 7 1/2, 15 lps	7.80
4040406-10	Capstan Dust Cap 3 3/4, 7 1/2 lps	16.50
4440237-20	Felt Washer	.05
120-014	Switch, Stop	1.20
120-013	Switch, Play, Fast Forward, Rewind	1.20
120-004	Switch, Tape Speed	2.70
120-005	Switch, Reel Size	.80
020-006	Relay	5.90
582-016	Rectifier	8.50

300 AND 350 SERIES HEAD ASSEMBLY REPLACEABLE PARTS—All for 1/4" equipment

4270166-10	Gate Spring	\$ 0.20
403-006	Gate Pin	.05
4210181-30	Glass Rod—1 1/2" long	1.10
4210181-10	Glass Rod—1 1/4" long	.10
4030189-02	Gate—1 1/2" Tape	39.00
4030189-06	Gate—1 1/2" long	56.00

ELECTRONICS—All for 1/4" equipment

4050124-01	Power Supply Board	\$55.00
4050122-01	Record Board 7 1/2, 15 lps	60.00
4050122-02	Record Board 3 3/4, 7 1/2 lps	60.00
4050125-01	Reproduce Board 7 1/2, 15 lps	44.00
4050125-02	Reproduce Board 3 3/4, 7 1/2 lps	45.00
4590061-01	Relay, Record-351	14.00
020-066	Relay, Bias Coupling	5.80
4590088-10	Relay, Record-350	15.00
582-031	Rectifier, Bias Coupling	2.30
581-001	Rectifier, Selenium	8.90
132-003	Lamp, Record Indicator	1.10
4140012-01	Meter, VU	43.00
62-0130	Switch, Input	1.60
62-0131-01	Switch, Equalization	1.30
62-0132-01	Switch, Meter & Output	3.90
122-016	Switch, Line Termination	2.80
120-005	Switch, Power	.80
120-013	Switch, Record	1.20
4040492-10	Hold Down Knob	12.00
4030145-10	Editing Knob	8.25
4330143-10	Reel Centering Adapter	2.00

TAPE RECORDER/REPRODUCER ELECTRONICS

Ampex Number	Description	Used in Series	Prof. User Net Price
02-0559-01	Basic Electronics, NAB	300-1	\$ 650.00
02-0515-01	Meter Panel		290.00
2-30960-11	Electronics for HiZ Heads	300-2/3	550.00
	NAB/AME		
95-0120-01	LoZ Head Adapter (for 30960-11)		49.50
01-0022-01	Sel-Sync Panel with Cables		495.00
2-30960-12	Electronics for LoZ Heads	300-4	600.00
	NAB/AME		
01-0027-01	Sel-Sync Panel with Cables		495.00
2-30637-03	Master: Reproduce Amplifier	3200	390.00
2-30638-01	Master: Bias Oscillator		710.00
2-30639-01	Master: 2 Channel Record Amp.		980.00
02-5997-01	Duplicator Switch Panel		115.00
4010060-01	Single Channel, 7 1/2, 15 lps NAB	AG-350-1	595.00
4010060-02	Single Channel, 3 3/4, 7 1/2 lps NAB		595.00
	Master: Same as 350-1 Single Channel	AG-350-2	
4010060-03	Slave: 7 1/2, 15 lps NAB		595.00
4010060-04	3 3/4, 7 1/2 lps NAB		595.00
4010061-01	Single Channel Reproduce Electronics, 7 1/2, 15 lps; 3 3/4, 7 1/2 lps NAB	AG-355-1	290.00
4010061-02	Dual Channel Reproduce Electronics, 7 1/2, 15 lps; 3 3/4, 7 1/2 lps NAB	AG-355-2	560.00
4010059-01	Single Channel, All Speeds, All Equalization	MR-70	1450.00
02-0211-01	7 1/2 lps NAB or 3 3/4 lps (120 msec) 117 V only	602-1	245.00
02-0211-04	7 1/2 lps CCIR or 3 3/4 lps (200 msec) 115/230 V		265.00
02-0211-02	7 1/2 lps NAB or 3 3/4 lps (120 msec) 117 V only; Master	602-2	245.00
02-0211-03	Same, but Slave		230.00
2-96050-01	NAB, 117 V only; Full Track: 7 1/2, 15 lps	PR-10-1	395.00
2-96050-03	Same, but for 3 3/4, 7 1/2 lps		395.00
2-96050-05	NAB, 117 V only; Half Track: 7 1/2, 15 lps		395.00
2-96050-07	Same, but for 3 3/4, 7 1/2 lps		395.00
2-96050-09	CCIR, Multi-Volt; Full Track: 7 1/2, 15 lps		415.00
2-96050-12	Same, but for Half Track		415.00
2-96052-01	NAB, 117 V only; 7 1/2, 15 lps	PR-10-2	525.00
2-96052-03	NAB, 117 V only; 3 3/4, 7 1/2 lps		525.00
2-96052-05	CCIR, Multi-Voltage; 7 1/2, 15 lps		545.00

Amplex Replacement Parts



TAPE TRANSPORTS—Power Required 117 V

Amplex Number	Description	Tape Speed Ips	Freq. cps	Used in Series	Prof. User Net Price
02-7784-02	With 559 Electronics	7 1/2, 15	60	300-1	\$1750.00
02-7784-03	With 559 Electronics	7 1/2, 15	50		1750.00
02-7784-12	With 30960 E'ronics	7 1/2, 15	60	300-2	1750.00
02-7784-13	With 30960 E'ronics	7 1/2, 15	50		1750.00
02-7784-14	1/2-inch	7 1/2, 15	60	300-3/4	1800.00
02-7784-15	1/2-inch	7 1/2, 15	50		1800.00
02-7870-01	1 1/4" Reel Capacity	30, 60	60	3200	1990.00
02-7870-02	1 1/4" Reel Capacity	30, 60	50		1990.00
4020254-01		7 1/2, 15	60	AG-350/355	1150.00
4020254-02		7 1/2, 15	50		1150.00
4020254-03		3 3/4, 7 1/2	50		1150.00
4020254-04		3 3/4, 7 1/2	50		1150.00
4020245-03	For Single-Channel*	3 3/4	60	602-1	300.00
4020245-04	For Single-Channel*	3 3/4	50		300.00
4020245-05	For Single-Channel*	7 1/2	60		305.00
4020245-06	For Single-Channel*	7 1/2	50		305.00
02-0210-07	For Stereo*	3 3/4	60	602-2	305.00
02-0210-08	For Stereo*	3 3/4	50		305.00
2-96200-01	For Stereo*	7 1/2, 15	60		695.00
2-96200-02	For Stereo*	7 1/2, 15	50		715.00
2-96200-03		3 3/4, 7 1/2	60	PR-10	695.00
2-96200-04		3 3/4, 7 1/2	50		715.00

*602 Transports do not include head cover, head shield, head tape guide and associated hardware.

Notes:

1. Transports do not include heads, hold-down knobs, reels, AC power cord or manuals.
2. Electronic components do not include any cables, plugs, etc. unless captive or otherwise specified above.
3. All components listed are those currently in production, and may not be interchangeable with units delivered earlier. If replacements are desired, consult the appropriate manual.

HEAD ASSEMBLIES: NEW AND REBUILT

Amplex Number	Description	Used in Series	Prof. User Net Pr.	
			New	Rebuilt
4020475-02	One Channel, Full Track	300	\$220.00	\$135.00
4020475-18	One Channel, Full Track	350	220.00	135.00
4020475-23	One Channel, Full Track	352	145.00	55.00
02-0101-10	One Channel, Full Track	600/601	95.00	
4020475-17	One Channel, Half Track	350	210.00	125.00
4020475-22	One Channel, Half Track	352	140.00	50.00
02-0101-20	One Channel, Half Track	600/601	95.00	
2-30028-01	Two Channel, Full Track Erase	300/350	295.00	195.00
2-30028-02	Two Channel, Split Erase	300/350	325.00	225.00
2-30028-04	Two Channel	352-2	175.00	85.00
2-96200-03	Two Channel ERP and Four Track Play	300/350	395.00	270.00
2-96200-04	Two Channel, Two Track and Four Track Play	352-2	275.00	150.00
02-0102-01	Two Channel	600/601	115.00	
2-30471-04	Three Channel, 1/2 inch	300	520.00	395.00
2-31055-01	Four Channel, 1/2 inch	300	700.00	575.00
4020475-26	Duplicator	3201	225.00	120.00
4020475-28	Duplicator	3202	275.00	170.00
2-80000-01	Duplicator	3301	520.00	395.00
2-80001-01	Duplicator	3302	475.00	395.00

HEAD STACKS

Amplex Number	Description	Used on Series	Prof. User Net Price
4040076-04	Two Channel Play	601, 602	\$ 40.00
4040076-05	Two Channel Record	601, 602	40.00
4040076-06	Two Channel Erase	602	40.00
4040084-10	Full Track Erase	601, 602	30.00
4040084-20	Full Track Record	601, 602	30.00
4040084-30	Full Track Play	601, 602	30.00
4040084-40	Half Track Erase	601, 602	30.00
4040084-50	Half Track Record	601, 602	30.00
4040084-60	Half Track Play	601, 602	30.00
4040438-63	Full Track Erase	300	32.50
4040401-07	Full Track Erase	351	32.50
4040438-65	Half Track Erase	351	32.50
4040426-01	Two Channel, Two Track: Erase	300-2	65.00
4040437-01	Two Channel, Two Track: Play	351-2	70.00
4040437-02	Two Channel, Two Track: Record	354	70.00
4040438-51	Half Track Play	351	40.00
4040438-52	Full Track Play	300	45.00
4040438-53	Lower Half Play	3201	50.00
4040438-54	Upper Half Play	3201	50.00
4040438-55	Full Track Record	300	45.00
4040438-57	Full Track Record	351	45.00
4040438-58	Half Track Record	351	40.00
4040438-59	Full Track Record	3202	55.00
4040438-60	Lower Half Record	3202	45.00
4040438-61	Upper Half Record	3202	45.00
4040534-01	Three Channel Play, 1/2-inch	300-3	125.00
4040534-02	Three Channel Record, 1/2-inch	300-3	125.00
4040553-01	Three Channel Erase, 1/2-inch	300-3	115.00
4040558-01	Four Channel Play, 1/2-inch	300-4	180.00
4040558-02	Four Channel Record, 1/2-inch	300-4	180.00
4040564-01	Four Channel Erase, 1/2-inch	300-4	170.00
4040542-01	Tracks 2 and 4 Record	3302	150.00
4040542-02	Tracks 1 and 3 Record	3302	150.00
2-80020-03	Tracks 1 and 3 Play, 1/2-inch	3301	170.00
2-80020-04	Tracks 2 and 4 Play, 1/2-inch	3301	170.00
2-96170-01	Two Channel, Two Track: Play	PR-10	50.00
2-96170-02	Two Channel, Two Track: Record	PR-10	70.00
2-96170-03	Two Channel, Two Track: Erase	PR-10	65.00

HEAD STACKS—(CONTINUED)

Amplex Number	Description	Used on Series	Prof. User Net Price
2-96170-04	Play	Two channel,	300-2
2-96170-05	Record	4-position	351-2
2-96170-06	Erase	Assembly	354
2-96170-07	Master, Two Channel Play		PD-10
2-96170-08	Duplicator, Two Channel Record		PD-10
2-96192-01	Full Track: Play		PR-10
2-96192-02	Full Track: Record		PR-10
2-96192-03	Full Track: Erase		PR-10
2-96640-02	Two Channel, Four Track: Play		PR-10
4020228-01	Two Channel, Four Track: Play		CL-10, PR-10-4
4020228-02	Two Channel, Four Track: Record		CL-10, PR-10-4
4020228-03	Two Channel, Four Track: Erase		PR-10-4
4040683-10	Two Channel Erase		E-65
4040684-10	Two Channel Play		E-65
4040684-20	Two Channel Record		E-65

SERIES PR-10 SPARE PARTS

Amplex Number	Description	Prof. User Net Price
4030185-10	Capstan Assembly 3 3/4, 7 1/2 ips	\$120.00
4030185-20	Capstan Assembly 7 1/2, 15 ips	120.00
4030141-10	Capstan Idler Assembly	4.30
4590090-10	Solenoid, Capstan Idler	8.60
4310051-10	Belt, Capstan Drive	3.50
4230121-10	Fork, Speed Shift, 3 3/4, 7 1/2 ips	3.50
4040326-10	Motor Assembly, Drive 7 1/2, 15 ips	120.00
4310052-20	Belt, Clutch Drive	2.60
4040485-02	Supply Arm Assembly (Brake with lining)	1.30
4040485-01	Takeup Arm Assembly (Brake with lining)	1.30
4590018-10	Solenoid, Brake	8.80
4590050-10	Relay, Transport	6.10
4620144-10	Switch, Pushbtn (Forward/Rewind/Play)	1.50
120-138	Switch Safety	1.60
031-016	Capacitor, Electrolytic (80/150 V)	.85
013-339	Diode, 1N2864	1.15
070-019	Fuse, 2 amp, Slo Blo	.20
4130441-10	Pad, Turntable	.20
040-045	Resistor, 900 ohms, WW, 30W	1.50
4270090-01	Pulley, Belt Idler	8.00
4270187-10	Spring, Safety Switch	.35
85-0062	Kit, Head Mounting	2.00
4030183-10	Belt, Separator Assembly	18.00
4550133-50	Capacitor, Electrolytic (40/10/450 V)	2.40
4550133-70	Capacitor, Electrolytic (2x40/400 V, 2x60/300 V)	3.60
4550133-60	Capacitor, Electrolytic (4x10/450 V)	2.60
4550132-30	Capacitor, Electrolytic (3x15/450 V)	4.00
4550131-10	Capacitor, Electrolytic (2000/15 V)	2.30
4140013-01	Meter, VU	31.00
4520138-10	Pot. Assembly (Level Control PR-10-2)	1.90
4520138-20	Pot. Assembly (Level Control PR-10-1)	1.40
582-061	Rectifier, 1N607	6.10
4590050-10	Relay, 3PDT	6.10
62-0128-01	Switch, Equalization (Rec-Select PR-10-1)	1.50
62-0128-02	Switch, Equalization (Rec-Select PR-10-2)	2.40
4620125-01	Switch, Record-Select	.40
4580115-10	Transformer, OSC	1.60
4580118-01	Transformer, Output	13.00
2-96170-02	Two Channel Record Head	3.90
2-96170-01	Two Channel Playback Head	70.00
		50.00

SERIES 601 AND 602 SPARE PARTS

4030024-10	Capstan Idler Assembly	\$ 5.60
27-070	Spring	.30
4040174-10	Pulley Assembly	2.00
4850091-10	Motor, Drive (601, 602)	47.00
4250068-10	Pulley, 7 1/2 ips, 60 cps	17.00
4250068-30	Pulley, 3 3/4 ips, 60 cps	20.00
4440062-20	Washer, Thrust	.05
4270068-10	Spring, Clutch "U"	.35
4250044-10	Clutch, Play Takeup	.85
4040165-10	Disc Assembly	2.20
4040165-20	Disc Assembly	2.30
4040166-10	Clutch Assembly	8.40
164804-030	Bearing, Ball	3.60
85-0033-01	Brake Assembly Kit	1.40
4040160-10	Shock Relief Assembly	2.40
4040161-10	Wheel, Idler Capstan	1.90
05-0245-01	Switch Deck Assembly (602)	2.10
05-0037-01	Switch Deck Assembly (601)	1.90
05-0245-02	Switch Deck Assembly (602-2)	2.50
4620035-20	Switch Mechanism	1.00
4040157-10	Flywheel Assembly, Capstan	9.00
4250041-10	Disc, Thrust	.10
4100129-10	Knob (601)	2.50
4100145-10	Knob (602)	.65
4310007-10	Belt, Drive, 60 cps, 7 1/2 ips	2.80
4310007-20	Belt, Drive, 50 cps, 7 1/2 ips	2.80
432-010	Belt, Takeup	.50
060-013	Bulb, Neon	.90
02-0101-10	Head Assembly, Full Track	95.00
4130028-10	Knob, Reel Holdown	.95
01-0897-01	Kit, Maintenance	11.95
85-0033-01	Kit	1.40
013-339	Diode (602)	1.15
060-122	Lamp, Neon	.70
4140003-10	Meter, VU	37.00
4580118-01	Transformer, Output (602)	3.90
4580144-10	Transformer, Oscillator (602)	3.90
11-0205-10	Glass, Meter	.25
4040084-20	Head, Record, Full Track *	30.00
4040084-30	Head, Playback, Full Track *	30.00