



PRODUCT DATA BULLETIN



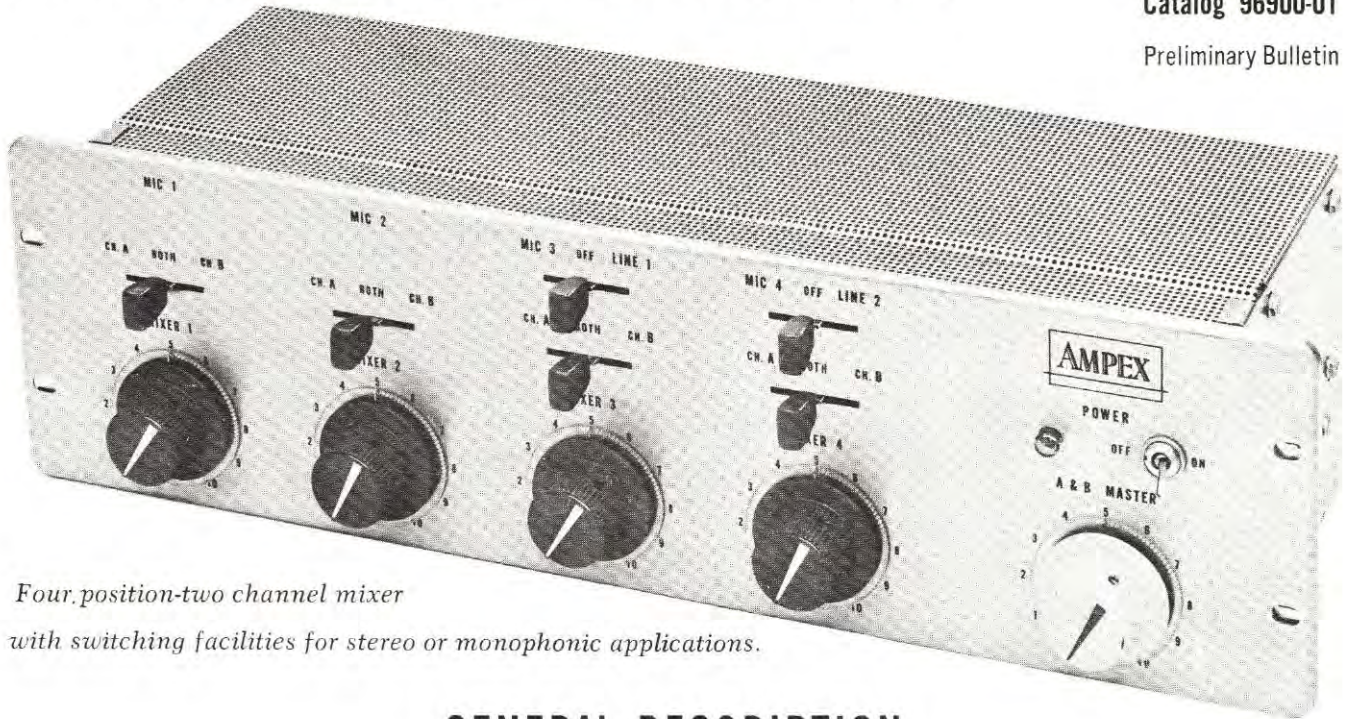
AMPEX PROFESSIONAL PRODUCTS COMPANY AUDIO PRODUCTS DIVISION

MOST FLEXIBLE ADVANCED DESIGN MIXER

Model MX10

Catalog 96900-01

Preliminary Bulletin



Four position-two channel mixer with switching facilities for stereo or monophonic applications.

GENERAL DESCRIPTION

A compact four position, two channel mixer with unique switching facilities found only in expensive custom designed studio consoles. Special coupling connectors are provided to give additional facilities where up to four MX10's can be coupled together with overall Master Gain controlled by the last unit in the system. Each mixer position has a reset indicator which permits return to a previous level and is supplied with a key switch which feeds channels "A" or "B" or BOTH. In the latter position, this permits feeding the solo mike (as in the case of stereo recording) equally to both left and right channels while other mikes are feeding either the left or right channels. Above mixer positions No. 3 and No. 4 are two additional keys to select mike or line input from appropriate receptacles located on the back of the unit. All switching regardless of combination maintains proper balance and isolation between channels.

The MX10 operates from four low impedance microphone inputs and two unbalanced line inputs: (balanced input when using No. 96134-01 plug-in transformer), feeding two independent program amplifiers controlled by a two gang master gain control. Advanced design amplifier circuitry permits very high input and output levels without distortion. Power supply is self-contained and all heaters are fed by a dc supply. Conservatively rated components maintain quality and long operating life without need for service or repair.

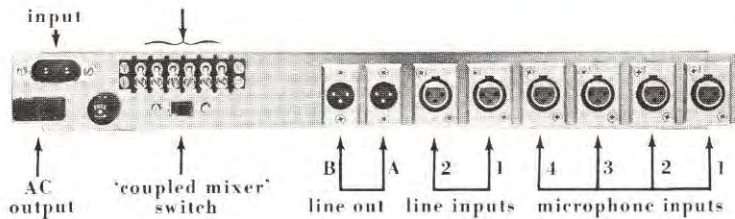
Although designed primarily to feed Ampex Professional recorders, this unit can be used with other audio recorders and sound equipment such as speech input systems, public address or sound systems where the unique control facilities of the MX10 make it a flexible audio tool.

FEATURES

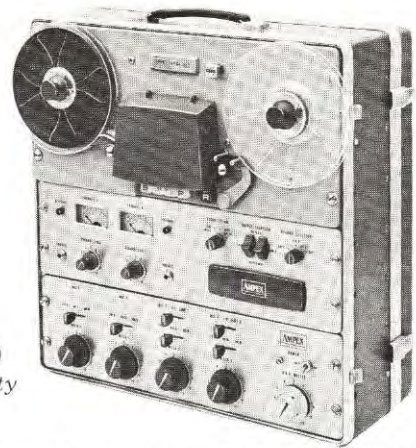
1. Ability to be strapped with other like mixers to handle up to sixteen microphones or eight lines still retaining all of its unique switching facilities. A "coupled mixer" switch lifts the master gain out of the circuit so that the last mixer in the system controls the overall gain of both channels.
2. Internal gain-set on each program amplifier

allows ± 10 db level set for balance adjustment.

3. Premium quality tubes are employed for low noise stable operation. Four calibrated potentiometers are available at extra cost.
4. Matches design and appearance of PR series Ampex recorders.



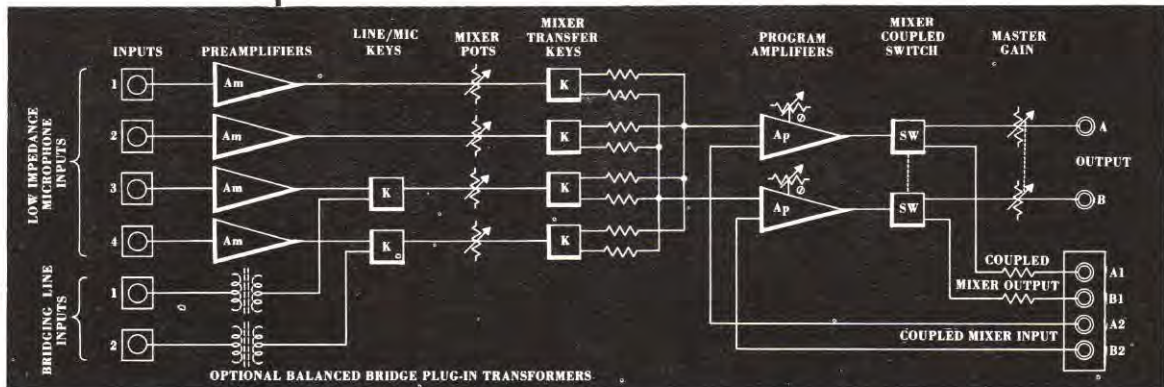
Terminal portion rear of chassis.



The PR-10-2 with the MX-10
A Complete Recording Facility

SPECIFICATIONS

INPUTS:	Four microphone level inputs and two line high level inputs incorporating high level mixing.
INPUT IMPEDANCE:	Microphone; 200 ohm non-terminating; line: 100 kohms bridging. (With optional plug-in balanced line transformer 20,000 ohms.)
OUTPUTS:	Two, 1 volt normal; 30 volts maximum unbalanced to feed bridging input of recorder.
GAIN:	With internal and external control settings at maximum, -67 dbm on any mic channel or -27 dbm on any line channel will produce 1 volt output. 1 volt input to the PR 10 electronics corresponds to 0 vu.
FREQUENCY RESPONSE:	±1 db 40 to 15,000 cycles
NOISE:	65 db below signal for inputs of -55 dbm. This represents a noise equivalent to an input signal of -120 dbm.
DISTORTION:	At 500 cycles, less than 0.3% with -43 dbm mic input level, 1v output level; less than 1% with -29 dbm mic input level, 25v output level.
CROSSTALK REJECTION:	65 db at 500 cycles, 50 db at 10 kc.
CONTROLS:	Four AB pots (calibrated step type available on special order); master gain (two gang) pot; key switches for selection of mic or line on two input positions; key switches for channel A, both or Channel B on each mixer position; AC line switch; mixer coupling switch (located on the back of the chassis).
CONNECTORS:	Rugged "XL" type on all inputs and outputs except mixer coupling strip.
POWER INPUT:	105-125 volts, 50-60 cycles, 30 watts.
TUBES:	Six EF86's and one 12AU7.
DIMENSION:	5-7/32" H, 19" L, 5-3/16" D (for 5-1/4" rack space or portable case).
FINISH:	Brushed stainless steel with grey knobs.
ACCESSORIES:	Plug-in balanced bridge line input transformer (Cat. No. 96134-01).
PRICE:	Unmounted \$395.00 net.



AMPEX

Offices and Representatives in
Principal Cities Throughout the World

MX 10 Ampex Mixer Block Diagram

Audio Products Division
AMPEX PROFESSIONAL PRODUCTS COMPANY
934 CHARTER STREET • REDWOOD CITY, CALIFORNIA

AMPEX

PRODUCT DATA BULLETIN

AMPEX PROFESSIONAL PRODUCTS COMPANY · AUDIO PRODUCTS DIVISION

Model MX35

Catalog 96910-01

Preliminary Bulletin

MOST FLEXIBLE ADVANCED DESIGN MIXER EVER OFFERED IN ITS PRICE RANGE



*Four position-two channel mixer
with switching facilities for stereo or monophonic applications.*

GENERAL DESCRIPTION

A compact four position, two channel mixer with unique switching facilities found only in expensive custom designed studio consoles. Special coupling connectors are provided to give additional facilities where up to four MX35's can be coupled together with overall Master Gain controlled by the last unit in the system. Each mixer position has a reset indicator which permits return to a previous level and is supplied with a key switch which feeds channels "A" or "B" or BOTH. In the latter position, this permits feeding the solo mike (as in the case of stereo recording) equally to both left and right channels while other mikes are feeding either the left or right channels. Above mixer positions No. 3 and No. 4 are two additional keys to select mike or line input from appropriate receptacles located on the back of the unit. All switching regardless of combination maintains proper balance and isolation between channels.

The MX35 operates from four low impedance microphone inputs and two unbalanced line inputs: (balanced input when using No. 96134-01 plug-in transformer), feeding two independent program amplifiers controlled by a two gang master gain control. Advanced design amplifier circuitry permits very high input and output levels without distortion. Power supply is self-contained and all heaters are fed by a dc supply. Conservatively rated components maintain quality and long operating life without need for service or repair.

Although designed primarily to feed Ampex Professional recorders, this unit can be used with other audio recorders and sound equipment such as speech input systems, public address or sound systems where the unique control facilities of the MX35 make it a flexible audio tool.

FEATURES

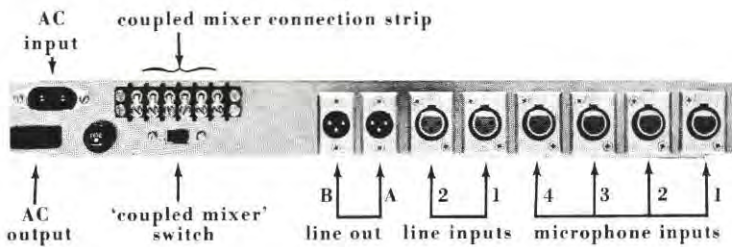
1. Ability to be strapped with other like mixers to handle up to sixteen microphones or eight lines still retaining all of its unique switching facilities. A "coupled mixer" switch lifts the master gain out of the circuit so that the last mixer in the system controls the overall gain of both channels.

2. Internal gain-set on each program amplifier

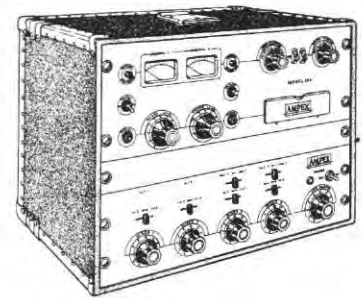
allows ± 10 db level set for balance adjustment.

3. Premium quality tubes are employed for low noise stable operation. Four calibrated potentiometers are available at extra costs.

4. Matches design and appearance of all 350, 351 and 354 series Ampex recorders plus earlier models including 400 series, etc.



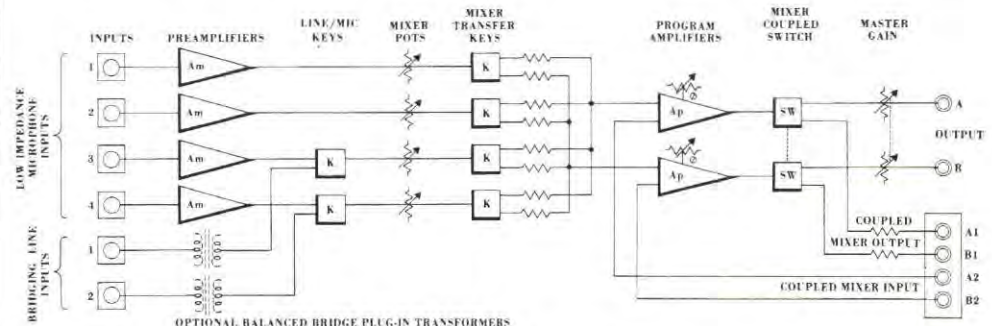
Terminal portion rear of chassis.



When mounted with 354 for a complete recording facility

SPECIFICATIONS

INPUTS:	Four microphone level inputs and two line high level inputs incorporating high level mixing.
INPUT IMPEDANCE:	Microphone; 200 ohm non-terminating; line: 100 k ohms bridging. (With optional plug-in balanced line transformer 20,000 ohms.)
OUTPUTS:	Two, 1 volt normal; 30 volts maximum unbalanced to feed bridging input of recorder.
GAIN:	When used with Model 354, sufficient to produce the recommended operating level on the tape with an input signal of -67 dbm on any mic channel and -27 dbm on any line channel for maximum control settings.
FREQUENCY RESPONSE:	± 1 db 40 to 15,000 cycles, $+1-3$ db, 25 to 20,000 cycles.
NOISE:	65 db below signal for inputs of -55 dbm. This represents a noise equivalent to an input signal of -120 dbm.
DISTORTION:	At 500 cycles, 0.2% with -39 dbm mic input level, 1v output level; 1% with -27 dbm mic input level, 25v output level.
CROSSTALK REJECTION:	60 db at 500 cycles, 50 db at 10 kc.
CONTROLS:	Four AB pots (calibrated step type available on special order); master gain (two gang) pot; key switches for selection of mic or line on two input positions; key switches for channel A, both or Channel B on each mixer position; AC line switch; mixer coupling switch (located on the back of the chassis).
CONNECTORS:	Rugged "XL" type on all inputs and outputs except mixer coupling strip.
POWER INPUT:	105-125 volts, 50-60 cycles, 30 watts.
TUBES:	Six EF86's and one 12AU7.
DIMENSION:	5-7/32" H, 19" L, 5-3/16" D (for 5-1/4" rack space or portable case).
FINISH:	Brushed stainless steel with black knobs.
ACCESSORIES:	Plug-in balanced bridge line input transformer (Cat. No. 96134-01).
PRICE:	User Net: \$395.00 Unmounted



AMPEX

Offices and Representatives in
Principal Cities Throughout the World

MX-35 Ampex Mixer Block Diagram

Audio Products Division
AMPEX PROFESSIONAL PRODUCTS COMPANY
934 CHARTER STREET • REDWOOD CITY, CALIFORNIA

If You Didn't Get This From My Site,
Then It Was Stolen From...
www.SteamPoweredRadio.Com

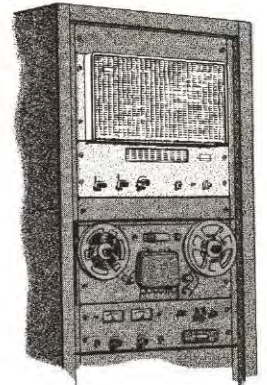
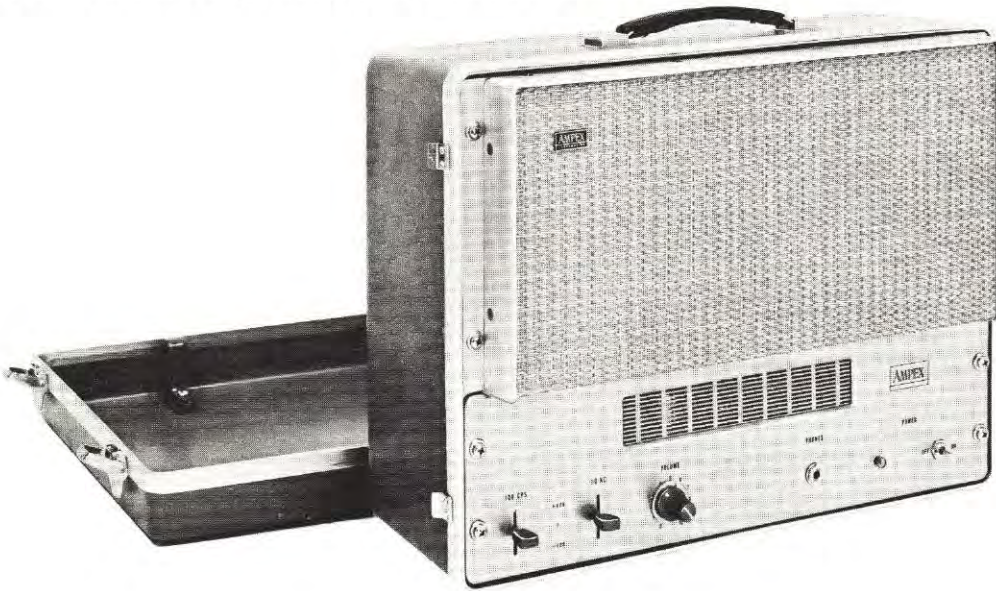
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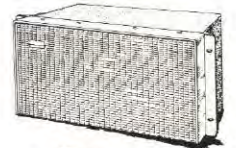
COMPACT AMPLIFIER-SPEAKER SYSTEM

with power and performance for professional users

Designed for radio, recording and TV studio playback and monitoring systems, the SA-10 gives superior performance characteristics never before achieved in a unit of its size. As a portable, the SA-10 meets all requirements for critical on-location monitoring, and for all compact sound system applications. Versatile input system permits amplifying from any sound source. Optional plug-in preamp permits use as a high quality PA system for medium size auditorium use.



Rack mounts in only 14" vertical space.



Speaker and amplifier assemblies are complete, separate units.

AMPLIFIER

An advanced design 40 watt power amplifier with the new Ampex dynamic regulator circuit giving greater stability and lower distortion than conventional amplifiers, even under extreme overload conditions. This new concept of amplifier design provides:

- Uniform frequency response over full audible range
- Ability to withstand overloads with minimum effect on tube operating points
- Instantaneous recovery from both transient and sustained overloads
- Constant tube operating voltages regardless of power output demand
- Improved signal-to-noise ratio by new filtering system
- Greater reliability, cooler operation, and longer tube life because power consumption under standby conditions is only 50 watts.

SPEAKER

The SA-10 speaker assembly has been specially designed to give the highest quality and lowest intermodulation distortion possible for a unit of its size. The speaker is an efficient, long excursion type mounted in a very rigid, completely separate, tuned duct enclosure designed to minimize low frequency distortion usually found in small enclosures.

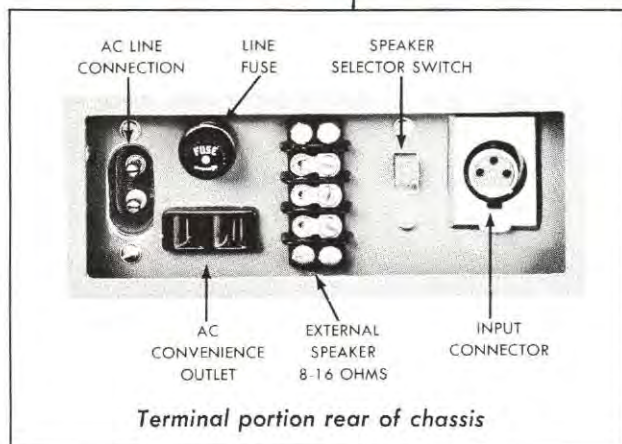
AS A SYSTEM

Although mechanically separate, permitting units to be used or mounted independently, the amplifier and speaker *in combination* constitute a compact *system-engineered* unit with exceptional performance, clarity of sound, and freedom from distortion at *all* frequencies. An equalizer network (bypassed when the amplifier is fed to an external speaker) complements the acoustical characteristic of the speaker and its enclosure. The system, therefore, has a smooth overall acoustical response in the range of 60 to above 15,000 cycles per second.

AMPLIFIER SPECIFICATIONS

POWER OUTPUT:	40 watts
FREQUENCY RESPONSE:	22 to 20,000 cps +0, -2 at any power level up to 40 watts
SIGNAL-TO-NOISE RATIO:	Amplifier noise (including hum) is 90 db below rated output.
HARMONIC DISTORTION:	Less than 1% at rated output.
SENSITIVITY:	2 volts for 40 watts.
INPUT IMPEDANCE:	50,000 ohm, unbalanced. Accessory plug-in low Z microphone preamplifier (Catalog No. 96440-03) and plug-in balanced 20,000 ohm bridging transformer (Catalog No. 96134-01) also available.
OUTPUT IMPEDANCE:	8 and 16 ohm to external speaker.
EQUALIZATION:	Two calibrated key switches for +4 db, 0 db, -4 db equalization at 100 and 10,000 cps.
CONTROLS:	Two equalizer keys, volume control with re-set indicator, power switch and pilot lamp. Internal-external speaker selector switch.
CONNECTORS:	Cable for AC power is supplied and an AC convenience outlet is built-in. Audio input is rugged Cannon XL. Monitor phone jack. External speaker connections are accessible on terminal strip.
MONITOR PHONE OUTPUT:	16 ohms, speakers are disconnected when jack is used.
TUBES:	2 - 7355 output stage, 1 - 12AU7 phase inverter, 1 - EF86 voltage amp, 1 - 6CY7 voltage regulator, silicon rectifiers for high voltage and bias.
POWER CONSUMPTIONS:	117 volts AC, 50 or 60 cycles; 50 watts at zero signal, 116 watts at rated power.
PORTABLE CASE:	Sturdy scuff proof Royalite* vacuum formed material. Absorbs severe shocks without fracturing. All hardware finished in brushed nickel.
DIMENSIONS: (Overall)	Speaker unit — 19" x 8 ³ / ₄ " unmounted Amplifier — 19" x 5 ¹ / ₄ " unmounted Portable Case — 19 ⁵ / ₈ " x 14 ⁵ / ₈ " x 9"
WEIGHT IN PORTABLE CASE:	42 lbs.

*TM U.S. Rubber Co.



PRICES AND ACCESSORIES

	Catalog No.	User Net Price
SA-10 Speaker-Amplifier System, unmounted	96975-01	\$295.00
SA-10 Portable Carrying Case	96960-01	65.00
SA-10 Amplifier only	96950-01	175.00
SA-10 Speaker unit in enclosure	96980-01	120.00
Microphone plug-in preamp, low imp.	96440-03	45.00
Balanced bridging plug-in transformer	96134-01	14.50

Prices and specifications subject to change without notice.



AMPEX CORPORATION
AUDIO DIVISION
934 CHARTER STREET • REDWOOD CITY • CALIFORNIA



AMPEX CORPORATION
AUDIO DIVISION

DOMESTIC PRICE LIST
SUPERSEDES ALL PREVIOUS SCHEDULES

LABORATORY STANDARD ALIGNMENT AND TEST TAPES

EFFECTIVE JUNE 18, 1962

DEALER FRANCHISE:
PROFESSIONAL-MASTER

TEST TAPES
FOR:
ALL
MODELS

Packaging: All tapes bearing -05 numbers are supplied on eight-inch metal reels in metal cans. The identification number is stamped on each metal reel and a paper label is secured on the front of each metal can. All other tapes are supplied on seven-inch plastic reels with four-inch hubs. Each reel bears an identification label secured with adhesive in the area on the reel provided for this purpose. Catalog number and description of each tape is rubber stamped on the end of each tape box.

Accompanying each reel in a craft paper box or metal can is a two-page technical manual describing the use and care of the tape.

TAPE SPEED	DESCRIPTION	ORDER NUMBER	SUGGESTED LIST PRICE
¼ INCH — REPRODUCE ALIGNMENT TAPE			
3¾	120 μ /Sec, Full Track	31331-01 (Consumer order number: 831)	21.95
3¾	200 μ /Sec, Full Track	31334-01	21.95
7½	50 μ /Sec, Full Track	31321-01 (Consumer order number: 830)	21.95
7½	CCIR, Full Track	31323-01	**
7½	50 μ /Sec, Tracks 1 and 3 (of 4)	31321-04 (Consumer order number: 835)	21.95
15	NAB, 50 μ /Sec, Full Tracks	31311-01 (Consumer order number: 832)	21.95
15	AME, Full Track	31312-01	21.95
15	CCIR, Full Track	31313-01	**
½ INCH — REPRODUCE ALIGNMENT TAPE			
7½	50 μ /Sec, Full Track	31321-05	31.50
15	NAB, 50 μ /Sec, Full Track	31311-05	31.50
15	AME, Full Track	31312-05	31.50
¼ INCH — CALIBRATED FLUTTER TEST TAPE			
3¾	3 KC Only, with meter calibration segment	31336-01	21.95
7½	3 KC Only, with meter calibration segment	31326-01	21.95
15	3 KC Only, with meter calibration segment	31316-01	21.95
¼ INCH — CALIBRATED LEVEL SET TAPE			
7½	700 CPS at operating level	31325-01	17.50
15	700 CPS at operating level	31315-01	17.50

** CCIR Tapes available through Ampex International Operations, Redwood City, California.

STANDARD ALIGNMENT-TEST TAPE — PROGRAMS

ALIGNMENT TAPE	TAPE NUMBER	ALIGNMENT TAPE	TAPE NUMBER
	31311-01 31312-01 31313-01 31311-05 31312-05		31321-01 31323-01 31321-04* 31321-05
COMMON PROGRAM SEQUENCE FOR THESE TAPE NUMBERS:		COMMON PROGRAM SEQUENCE FOR THESE TAPE NUMBERS:	
700 cycles (operating level)	15 seconds	700 cycles (10 db below operating level)	15 seconds
15 kc (operating level)	30 seconds	15 kc (10 db below operating level)	30 seconds
12 kc (operating level)	10 seconds	12 kc (10 db below operating level)	10 seconds
10 kc (operating level)	10 seconds	10 kc (10 db below operating level)	10 seconds
7.5 kc (operating level)	10 seconds	7.5 kc (10 db below operating level)	10 seconds
5 kc (operating level)	10 seconds	5 kc (10 db below operating level)	10 seconds
2.5 kc (operating level)	10 seconds	2.5 kc (10 db below operating level)	10 seconds
1 kc (operating level)	10 seconds	1 kc (10 db below operating level)	10 seconds
500 cps (operating level)	10 seconds	500 cps (10 db below operating level)	10 seconds
250 cps (operating level)	10 seconds	250 cps (10 db below operating level)	10 seconds
100 cps (operating level)	10 seconds	50 cps (10 db below operating level)	10 seconds
50 cps (operating level)	10 seconds	700 cps (operating level)	15 seconds
30 cps (operating level)	10 seconds		
		* Same program as above types except first signal is an additional 3 KC tone for one minute, at operating level — for vertical head adjustment.	

ALIGNMENT TAPE	TAPE NUMBER	FLUTTER TAPE
	31331-01 31334-01	
COMMON PROGRAM SEQUENCE FOR THESE TAPE NUMBERS:		
500 cps (10 db below operating level)	15 seconds	
7.5 kc (10 db below operating level)	30 seconds	
5 kc (10 db below operating level)	20 seconds	
2.5 kc (10 db below operating level)	10 seconds	
1 kc (10 db below operating level)	10 seconds	
500 cps (10 db below operating level)	10 seconds	
250 cps (10 db below operating level)	10 seconds	
100 cps (10 db below operating level)	10 seconds	
50 cps (10 db below operating level)	10 seconds	
500 cps (operating level)	15 seconds	

TAPE NUMBER	PLAYBACK TIME	PROGRAM
31316-01	7.5 min.	600 feet of 3 kc signal (2 db above operating level)
31326-01	15 min.	
31336-01	30 min.	
LEVEL TAPE		
TAPE NUMBER	PLAYBACK TIME	PROGRAM
31325-01	10 min.	400 feet of 700 cycle signal (at operating level)
31315-01	5 min.	

AMPEX

**AMPEX CORPORATION
AUDIO DIVISION**



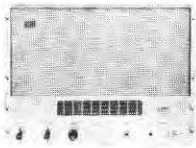
DOMESTIC PRICE LIST
SUPERSEDES ALL PREVIOUS SCHEDULES

PROFESSIONAL/MASTER ACCESSORIES

EFFECTIVE JUNE 18, 1962

DEALER FRANCHISE:
PROFESSIONAL- MASTER

**ACCESSORIES
FOR:
300
350
3000
PR-10**

GENERAL ACCESSORIES	DESCRIPTION	SPECIFICATIONS — USE	CATALOG NUMBER	USER NET PRICE
	MIXER, MODEL MX-10 — Four position, two channel mixer, feeds 4 or 2 mike and 2 line inputs to either or both channels.	For PR-10 Series and general use; unmounted	96900-01	\$395.00
	MIXER, MODEL MX-35 — Four position, two channel mixer, feeds 4 or 2 mike and 2 line inputs to either or both channels.	For 350 and 300 Series and general use; unmounted	96910-01	395.00
	SPEAKER/AMPLIFIER, MODEL SA-10 — 40 watt voltage regulated amp with low distortion at low frequencies — has amplifier compensation switch. (See below for mike preamp.)	Speaker/Amplifier, unmounted	96975-01	295.00
		Speaker and Enclosure, only	96980-01	120.00
		40 watt Amplifier, only	96950-01	175.00
		Portable Case	96960-01	60.00
	REMOTE CONTROL — For use with 351/352/354/PR-10	Wired (in box with 30' cord)	96510-01	50.00
		Panel Type (less cord)	96520-01	42.00
	LINE INPUT TRANSFORMERS — For use with PR-10/MX-10/SA-10/354/MX-35	Balanced Bridge	96134-01	14.50
		Matching 600 ohm	96134-02	14.50
	MICROPHONE PREAMPS — For use with PR-10/354 and SA-10	40 db (PR-10, 354)	96440-01	45.00
		60 db (PR-10, 354)	96440-04	60.00
		SA-10	96440-03	45.00
	HEAD DEMAGNETIZERS —For use with all series		820	9.95
	APPROVED CLEANING FLUID — For use with all series	4 oz. can	823	1.45
	APPROVED LUBRICATING OIL — For use with all series	4 oz. bottle	827	.95

STANDARD ALIGNMENT TAPES (See description and price, Sheet No. 1344-1345)

350 SERIES ACCESSORIES

	MODEL 354 RECORD PLUG-IN EQUALIZERS — (one per channel required)	7½ NAB — 15 NAB	96121-01	9.90
		3¾ NAB (Spec. 120 or 200 µsec.)—7½ NAB	96120-01	9.90
	MODEL 354 REPRODUCE PLUG-IN EQUALIZERS — (one per channel required)	7½ NAB — 15 AME	96122-01	9.90
		7½ NAB — 15 NAB	96111-03	9.90
		3¾ (120 µsec) — 7½ NAB	96110-03	9.90
		7½ NAB — 15 AME	96112-03	14.50
		3¾ (200 µsec) — 7½ NAB	96114-03	9.90
MODEL 351 — Operation and Maintenance Manual		(Furnished with Recorder)	TM-2002A	4.00
MODEL 352 — Operation and Maintenance Manual		(Furnished with Reproducer)	TM-2004	3.00
MODEL 354 — Operation and Maintenance Manual		(Furnished with Recorder)	TM-2011B	4.00
300 SERIES ACCESSORIES				
MODEL 300 — Operation and Maintenance Manual		Single Channel (Furnished with recorder)	TM-2013	4.00
MODEL 300 — Operation and Maintenance Manual		Multi-Channel (Furnished with recorder)	TM-2005	4.00
3000 SERIES ACCESSORIES				
3200 SYSTEM — Operation and Maintenance Manual		(Furnished with each unit)	TM-2008	4.00
3300 SYSTEM — Operation and Maintenance Manual		(Furnished with each unit)	TM-2007	4.00