

**MODELS MAGNECORD 1028 & 1048
TAPE RECORDER/REPRODUCER****GENERAL DESCRIPTION**

Models 1028 and 1048 are dual channel, direct capstan drive recorders with integrated vacuum tube electronics and tape speeds of 7.5/15 and 3.75/7.5 ips respectively. Both models are expressly designed for professional and broadcasting applications.

TAPE TRANSPORT

The tape transport mechanism of the 1028/1048 will handle 5, 7 and 10½" reels and is built on a precision machined, solid aluminum die-casting to insure the stability and ruggedness required in a machine intended for hard, continuous duty in broadcast and industrial service.

The brakes, pressure roller and tape gate are solenoid operated for reliability and permit the tape to be remotely started and stopped, in a pre-selected mode, by switching the primary of the solenoid power supply. The solenoid operated braking system is power fail-safe and provides differential braking action under all operating conditions including power failure.

The solenoid operated tape gate control provides straight slot loading, dropping the tape away from the heads during high speed winding modes and also provides for tape to head contact for manual cueing or editing.

The tape drive is direct by means of a special micro-ground chromium plated capstan extending from a two speed hysteresis synchronous motor shaft. This is the simplest, most reliable of capstan drives and gives the best timing accuracy as well as the lowest wow and flutter. Each reel is driven by a high torque split winding capacitor induction motor. A high inertia stabilizer, riding in low loss ball bearings, combines with a tape break sensing arm to effectively filter out tape velocity variations due to uneven tape wind and/or payout motor characteristics. A four digit, push-button resettable counter is provided.

Model 1028 or 1048 fits into a deep drawn, sturdy aluminum case with built-in ventilating fan for portability or table top use, or into an adaptor panel for rack or console mounting.

ELECTRONICS

The integrated electronics are two channel vacuum tube type. Standard inputs (mic. and line) are unbalanced, as are the cathode follower outputs. Accessory input and output transformers are available for use where balanced lines are required. Inputs are through "XL" connectors and barrier terminal strips. Outputs are through barrier terminal strips. Auxiliary input and output phono jacks (unbalanced) are provided for quick connect/disconnect use with mixer and portable power or public address amplifiers. Individual channel gain and master gain controls are in the record amplifier. Separate, ganged gain controls are in each channel of the playback amplifier. Channels may be operated independently as bias and erase are selectable for each channel. Each channel is monitored by its own VU meter. The electronics are equipped with all of the adjustments necessary to provide maximum efficiency of the unit as a recording system.

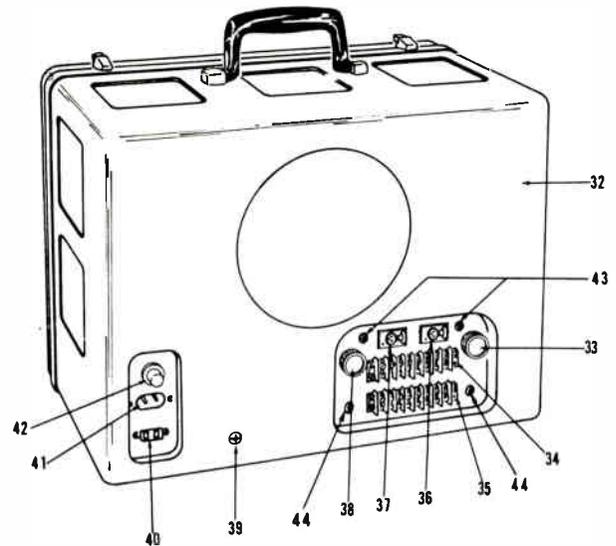
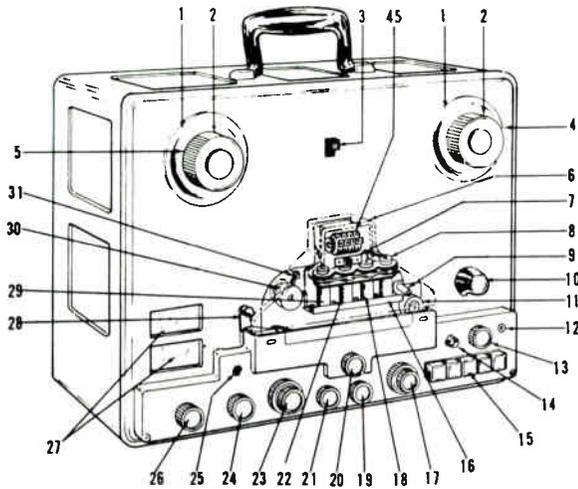
ENGINEERS' AND ARCHITECTS' SPECIFICATIONS

The tape recorder, reproducer shall be a two speed, dual channel (stereo) unit capable of handling reels of 5", 7" and 10½" diameter with EIA and NAB hubs. The tape transport shall be constructed on a solid die-cast aluminum transport main plate. The unit shall have a direct drive, micro-ground chromium plated capstan extending from a two speed, hysteresis synchronous capstan motor shaft. Each of the reels shall be driven by a separate split winding capacitor type motor. The unit must provide for straight slot tape loading as well as for manual cueing or editing. The unit shall be equipped with a ball bearing inertial stabilizer, a payout compliance arm and tape break switch. The tape gate, brakes and pressure roller are to be solenoid operated and the brakes shall be fail-safe in the event of power failure.

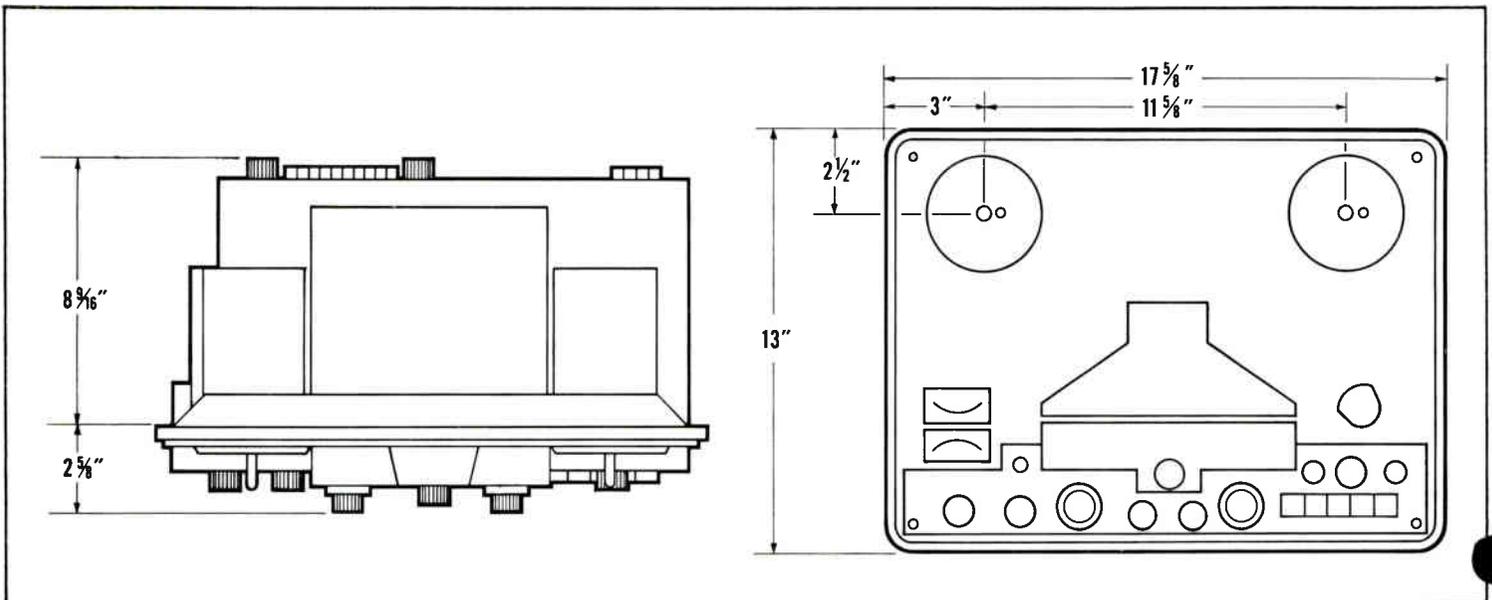


The amplifier shall be equalized to NAB standards and contain unbalanced microphone and line inputs and cathode follower outputs with provisions for optional input and output transformers when balanced lines are required. Unbalanced auxiliary inputs and outputs shall be available for use with external mixer or power amplifier. Individual channel and master gain control are to be provided for record mode and ganged individual channel controls for playback. A VU meter shall be incorporated in each amplifier channel with provisions for independent channel operations.

The entire recorder shall fit into an optional portable case or rack mounting adaptor panel. The unit shall be TELEX model MagneCORD 1028 or 1048 (specify catalog number).



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. REEL MOUNTING FLANGE 2. REEL RETAINER 3. REEL SIZE SWITCH 4. TAKE-UP TURNTABLE 5. SUPPLY TURNTABLE 6. HEAD COVER 7. PLAY HEAD SELECTOR SWITCH 8. PLAYBACK HEAD (OPTIONAL) 9. CAPSTAN 10. TAPE GUIDE 11. PRESSURE ROLLER 12. MONITOR JACK 13. TAPE SPEED SELECTOR 14. RECORD INTERLOCK BUTTON 15. RECORDER CONTROL SWITCHES 16. TAPE LIFTER GATE 17. PLAYBACK GAIN CONTROL 18. PLAYBACK HEAD 19. RECORD GAIN CONTROL (CH. 2) 20. TAPE LIFTER OPERATION CONTROL 21. RECORD GAIN CONTROL (CH. 1) 22. RECORD HEAD 23. MASTER RECORD GAIN CONTROL | <ol style="list-style-type: none"> 24. CHANNEL SELECTOR CONTROL 25. RECORD INDICATOR 26. METER SWITCH 27. VU METER (CH. 1—TOP, CH. 2—BOTTOM) 28. COMPLIANCE ARM 29. ERASE HEAD 30. STABILIZER ROLLER 31. TAPE BREAK SWITCH 32. PORTABLE CARRYING CASE 33. INPUT SELECTOR SWITCH (CH. 2) 34. INPUT BARRIER STRIP 35. OUTPUT BARRIER STRIP 36. MICROPHONE INPUT (CH. 2) 37. MICROPHONE INPUT (CH. 1) 38. INPUT SELECTOR SWITCH (CH. 1) 39. SAFETY SWITCH 40. AUXILIARY AC OUTLET 41. A-C POWER CORD PLUG-IN 42. FUSE HOLDER 43. UN-BAL IN JACK 44. UN-BAL OUT JACK 45. TAPE POSITION INDICATOR |
|---|--|



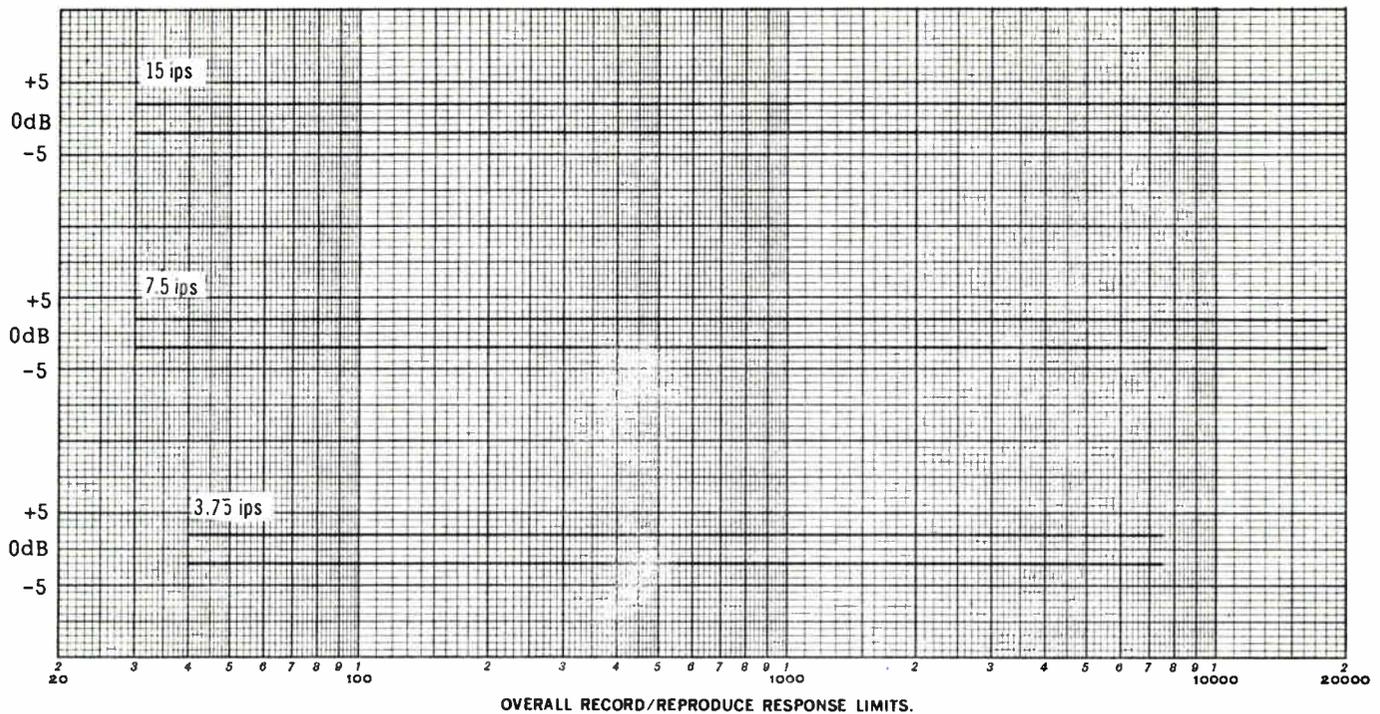
OUTLINE DIMENSIONS

ORDER MODELS 1028 (7.5 & 15 ips) OR 1048 (3.75 & 7.5 ips) BY CATALOG NUMBER

HEAD CONFIGURATION CODE: H = Half Track Q = Quarter Track 2 = Two Channel

Model Description	Type of Control	Speeds	Operating Power	Equalization	Heads (see code above)				Mounting	Order By Catalog Number	Model Description	Type of Control	Speeds	Operating Power	Equalization	Heads (see code above)				Mounting	Order By Catalog Number	
					Erase	Record	Play	Play								Erase	Record	Play	Play			
1028-2X	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	H2	H2	H2		Unmounted	A91A9808-2	1048-2X	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	H2	H2	H2		Unmounted	A91A9682-2	
1028-24X	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	H2	H2	H2	Q2	Unmounted	A91A9808-4	1048-24X	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	H2	H2	H2	Q2	Unmounted	A91A9682-4	
1028-2	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	H2	H2	H2		Cased	A91A9808-1	1048-2	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	H2	H2	H2		Cased	A91A9682-1	
1028-24	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	H2	H2	H2	Q2	Cased	A91A9808-3	1048-24	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	H2	H2	H2	Q2	Cased	A91A9682-3	
1028-4X	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	Q2	Q2	Q2		Unmounted	A91A9808-6	1048-4X	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	Q2	Q2	Q2		Unmounted	A91A9682-6	
1028-42X	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	Q2	Q2	Q2	H2	Unmounted	A91A9808-8	1048-42X	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	Q2	Q2	Q2	H2	Unmounted	A91A9682-8	
1028-4	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	Q2	Q2	Q2		Cased	A91A9808-5	1048-4	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	Q2	Q2	Q2		Cased	A91A9682-5	
1028-42	Electro Mechanical	7.5-15	117 V 60 Hz	N.A.B.	Q2	Q2	Q2	H2	Cased	A91A9808-7	1048-42	Electro Mechanical	3.75-7.5	117 V 60 Hz	N.A.B.	Q2	Q2	Q2	H2	Cased	A91A9682-7	
1028-2X	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	H2	H2	H2		Unmounted	A91A9808-10	1048-2X	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	H2	H2	H2		Unmounted	A91A9682-10	
1028-24X	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	H2	H2	H2	Q2	Unmounted	A91A9808-12	1048-24X	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	H2	H2	H2	Q2	Unmounted	A91A9682-12	
1028-2	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	H2	H2	H2		Cased	A91A9808-9	1048-2	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	H2	H2	H2		Cased	A91A9682-9	
1028-24	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	H2	H2	H2	Q2	Cased	A91A9808-11	1048-24	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	H2	H2	H2	Q2	Cased	A91A9682-11	
1028-4X	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	Q2	Q2	Q2		Unmounted	A91A9808-14	1048-4X	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	Q2	Q2	Q2		Unmounted	A91A9682-14	
1028-42X	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	Q2	Q2	Q2	H2	Unmounted	A91A9808-16	1048-42X	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	Q2	Q2	Q2	H2	Unmounted	A91A9682-16	
1028-4	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	Q2	Q2	Q2		Cased	A91A9808-13	1048-4	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	Q2	Q2	Q2		Cased	A91A9682-13	
1028-42	Electro Mechanical	7.5-15	117 V 50 Hz	N.A.B.	Q2	Q2	Q2	H2	Cased	A91A9808-15	1048-42	Electro Mechanical	3.75-7.5	117 V 50 Hz	N.A.B.	Q2	Q2	Q2	H2	Cased	A91A9682-15	
ACCESSORIES	Carrying Case									A91A3168-2												A91A3168-2
	Rack Adaptor Panel									A91C2959												A91C2959
	Input Transformer (50/150Ω), Plug-In									A32A33-1												A32A33-1
	Output Transformer (150/600Ω), Plug-In									A32B90-1												A32B90-1

NOTE: Units Supplied with High Impedance Un-balanced Inputs and Cathode Follower Outputs.



SPECIFICATIONS

MODEL 1028

Tape Speeds: 7.5 and 15 inches per second.

Flutter and Wow: less than 0.15% at 7.5 ips;*
less than 0.1% at 15 ips.*

Frequency Response – OVERALL RECORD/REPRODUCE:

30 to 20,000 Hz±2 dB at 15 ips;

30 to 18,000 Hz±2 dB at 7.5 ips.

Signal-to-Noise Ratio: 55 dB minimum (½ track)**
50 dB minimum (¼ track)**

MODEL 1048

Tape Speeds: 7.5 and 3.75 inches per second.

Flutter and Wow: less than 0.15% at 7.5 ips;*
less than 0.25% at 3.75 ips.*

Frequency Response – OVERALL RECORD/REPRODUCE:

40 to 16,000 Hz±2 dB at 7.5 ips;

40 to 7,500 Hz±2 dB at 3.75 ips.

Signal-to-Noise Ratio: 52 dB minimum (½ track)**
45 dB minimum (¼ track)**

MODELS 1028 AND 1048

Timing Accuracy: ±0.2%.

Reel Size: All standard 5, 7, 8¼ and 10½ inch reels.

Tape Size: ¼ inch wide, 1.5 and 1.0 mil thick.

Start Time: 0.2 seconds (slow speed). 0.25 seconds (fast speed).

Stop Time: 0.1 seconds (slow speed). 0.1 seconds (fast speed).

Rewind & Fast Forward: 1200 feet 45 seconds. 2400 feet 90 seconds max.

Cross Talk Ratio*:** -52 dB at 1 kHz (half track)
-45 dB at 1 kHz (quarter track)

Playback Equalization: Conforms to NAB standards at 15, 7.5 and 3.75 ips.

Input Each Channel:

MICROPHONE, input impedance 50 k ohms, input sensitivity – 70 dBm to -25 dBm.

LINE, high impedance, unbalanced: input impedance 53 k ohms nominal. Input sensitivity -40 dBm (8 mV).

Inputs Each Channel With

Accessory Input Transformer:

MICROPHONE, lo-impedance, balanced: Microphone impedance, 150-250 or 50 ohms.

INPUT SENSITIVITY, -90 dBm to -35 dBm.

Outputs Each Channel:

CATHODE FOLLOWER, unbalanced: 3300 ohms nominal output impedance. 2.5 Volts rms (±0.5V) output level at 0 VU.

MONITOR, phones, unbalanced: 2000 ohms nominal output impedance. 2.5 Volts rms (±0.5V) output level at 0 VU.

Outputs Each Channel With Accessory

Output Transformer:

LINE, balanced: 600 ohm output impedance with transformer, taps for 150 ohms.

+3 (±0.5 dB) dBm at 0 VU with line terminated and +4 dBm (±0.5 dB) with line not terminated.

CATHODE FOLLOWER, unbalanced: 3300 ohms nominal output impedance. 2.5 Volts (±0.5V) rms at 0 VU output level.

Normal Record Level: (0 VU on meter): A point 8 dB below the 3% harmonic level at 1 kHz.

Power Requirement: 115 Volt, 60 Hz, 240 Watts cased, 205 Watts uncased. 115 Volts, 50 Hz, 260 Watts cased, 225 Watts uncased.

Dimensions:

PANEL SIZE: 17-5/8 inches wide, 13 inches high.

OVERALL UNIT DEPTH: 12 inches cased or uncased.

MOUNTED WITH RACK ADAPTER: 19 inches wide, 14 inches high. Rear projection from panel: 8¼ inches. Front projection from panel: 2¾ inches.

Weight: 47 pounds (55 pounds encased).

* These specifications are based on using a standard E.I.A. 7-inch reel and 1.5 mil tape. Specifications will vary for other reel sizes, tape types and tape thicknesses.

** Down from a 3% 3rd harmonic distortion recording at 1,000 Hz.

*** Measured by placing both channels in record mode and recording a 1 KC signal at 0 VU on one channel and reading the playback level of the other. The playback gain set to produce 0 VU from a 0 VU recording.

SPECIFICATIONS

(*OPTIONS AVAILABLE AS LISTED AFTER STANDARD SPECIFICATIONS)

FREQUENCY RESPONSE:

70-25,000 Hz \pm 2DB at 15 IPS.*

40-16,000 Hz \pm 2DB at 7½ IPS.

40-10,000 Hz \pm 2DB at 3¾ IPS.

40- 6,000 Hz \pm 2DB at 1¾ IPS.

SIGNAL-TO NOISE RATIO

55 DB or better below peak recording level 7½ IPS, half track, overall record/play measuring all components 40-16,000 Hz unweighted.

OUTPUTS:*

One per channel. Balanced +4 VU into 600 ohm load. Less than 1% THD at + 20 DBM. For use with either matched or bridging loads. Connectors; type XL-3 male.

Head Phone Jack—600 ohm nominal (for 16 to 4,000 ohm phones).

INPUTS:*

Two per channel.

1) High level: Unbalanced bridging, 150 K ohm impedance, 100 MV sensitivity.

2) Low level: High impedance unbalanced microphone, 200 K ohm 1MV sensitivity.

Connectors; type XL-3 female.

DISTORTION: 1% total harmonic distortion, record/play at 1,000 Hz at 7½ IPS at 0 VU.

CROSSTALK REJECTION: 55 DB or better record/play at 1 kHz at 7½ IPS.

EQUALIZATION:* NAB and EIA standard, selected by front panel switch for high and low speed. Equalized for 3¾ and 7½ IPS.*

RECORD INTERLOCK: 24V DC (matches Viking 230 tape transport). Relay controlled function for each channel. 10 pin socket and interconnecting cable to tape transport for interlocking circuits.

BIAS/ERASE OSCILLATOR: 100 kHz High-Q Low distortion push-pull solid state circuit with controlled attack and decay time constants. Adjustment at rear panel.

CONTROLS:

MODEL RP110

LEVEL: Play; Input A; Input B.

SWITCHES: Equalization (AC Off/Low/High); Record; Monitor (Source/Tape).

MODEL RP120

LEVEL: Play 1; Input 1A; Input 1B; Input 2B; Input 2A; Play 2.

SWITCHES: Equalization (AC Off/Low/High); Record 1; Record 2; Monitor (Source/Tape/SIT2/S2T1).

INTERNAL TRIMMING ADJUSTMENTS: Play equalization; record level; bias trap.

HEADS: Adjusted for half track optimum heads.*

ERASE; 40V optimum, can be modified for 120 Volt.

RECORD: 50 MHY optimum, can be used with 50 to 200 MHY.

PLAY; 400 MHY optimum, can be used with 100 to 1,000 MHY.

CIRCUITRY: Completely solid state.

POWER:* 110-120V AC 50/60 Hz; 20 watts maximum. Fuse -0.5A, slow blow line fuse; Receptacle - switched AC for transport; Cord - supplied with 6-ft. removable AC cord.

DIMENSIONS: Standard EIA rack mount panel. Height 5¼"; Width 19"; Depth 8" behind panel (allow 3" additional for connectors). ¾" in front of panel.

PANEL FINISH: Stainless steel.

WEIGHT: Maximum 16 lbs. net. 20 lbs. in shipping carton.

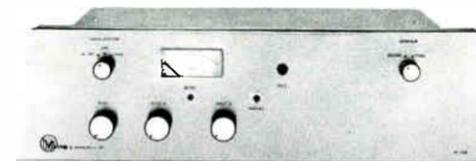
PRODUCTS OF SOUND RESEARCH

TELEX
COMMUNICATIONS DIVISION

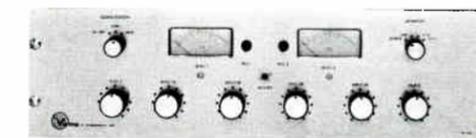
9600 ALDRICH AVENUE SOUTH
MINNEAPOLIS, MINNESOTA 55420

TECHNICAL DATA 4027

SERIES RP110 & RP120 RECORD PLAYBACK AMPLIFIER



RP 110



RP 120

GENERAL DESCRIPTION

Model RP110 single channel (monaural), and model RP120 two channel (stereo) solid state tape record and playback amplifiers incorporate the latest modular design concepts. Either model will record and play tapes of the highest professional quality and is intended for use with electrically controlled magnetic tape transports with separate erase, record and play heads such as the Telex model Viking 230.

Functions and flexibility of these amplifiers meet today's high requirements and performance exceeds NAB standards. Solid state circuitry on etched, glass epoxy plug-in boards provides an exceptionally clean amplifier layout and adds much to the convenience of service and adjustment.

Two inputs per channel for line and microphone are provided on the rear panel with optional, readily interchangeable plug-in modules and separate, front panel controls for mixing. One balanced output per channel works into 600 ohm load with front panel playback level control. Option for 150 to 250 ohm balanced line output available.

The two speed equalization switch and source-tape monitor switch are to the left and right of the front panel respectively, with a headphone jack at the center. An illuminated ASA standard precision VU meter, and an illuminated record push-button is provided per channel. Standard amplifiers are equalized for half track tape heads, 7-1/2 and 3-3/4 ips operation with options for other head configurations and/or speeds available.

A 24 V DC record interlock, complete with control cable is standard and matches the Telex model Viking 230 tape transport.

ENGINEER'S & ARCHITECT'S SPECIFICATIONS

The magnetic tape record and playback amplifier shall be a one channel (or, two channel) unit with solid state circuitry on glass epoxy plug-in boards. The amplifier is to be suitable for use with electrically controlled tape transports with separate erase, record and play heads such as Telex model Viking 230. Two rear panel inputs with XL-3 female type connectors are to be provided per channel with interchangeable plug-in modules, each with front panel level control. A rear panel balanced line output per channel with XL-3 male type connectors is to work into 600 ohm load with front panel playback level control. A front panel jack for 16 to 4000 ohm headphones shall be provided. The amplifier shall have front panel switching for AC power and high-low speed equalization, tape-source monitoring, an illuminated push-button type record switch per channel and illuminated ASA standard VU meter per

channel. Rear panel bias adjustment and internal trimming adjustments are to be provided for play equalization, record level and bias trap.

Amplifier performance shall meet or exceed NAB standards for half track, 7-1/2 ips operation as follows: Frequency response capability 40-16,000 Hz \pm 2 db. Signal to noise ratio 55 db or better below peak recording level. Record playback crosstalk rejection of 55 db or better at 1 kHz.

The amplifier shall operate on 115 V AC, 50/60 Hz, power consumption not to exceed 20 watts. The front panel shall be stainless steel, suitable for standard rack mounting, 5-1/4" high, 19" wide. The amplifier shall be Telex model Viking RP110 (or RP120) catalog no. (specify catalog no. designating monaural or stereo amplifier, head configuration and speed equalization. Add required input module accessories by catalog no.).

*OPTIONS AND ACCESSORIES

EQUALIZATION:

OPTION #E1 - Factory adjusted for 1¾ and 3¾ IPS.

OPTION #E2 - Factory adjusted for 7½ and 15 IPS.

PLUG-IN INPUT MODULES: Each of the 2 inputs per channel accept any one of the plug-in accessory options listed.

ACCESSORY #P1 - (One per channel supplied) Unbalanced bridging 150 K ohm, 100 MV sensitivity.

ACCESSORY #P2 - Balanced bridging 10 K ohm, transformer isolated for 150 to 600 ohm lines - 20 DBM to + 10 DBM.

ACCESSORY #P3 - (One per channel supplied) High impedance unbalanced microphone, 200 K ohm 1 MV sensitivity.

ACCESSORY #P4 - Low impedance balanced microphone, 50 to 250 ohm, -70 to -30 DBM.

OUTPUT LINE:

OPTION #L1 - Factory set, 150 to 250 ohm balanced line output, +4 VU nominal.

HEAD ADJUSTMENT:

OPTION #H1 - Factory adjusted for full track optimum heads. On RP110 only.

OPTION #H2 - Factory adjusted for quarter track stereo optimum heads. On RP120 only.

POWER:

OPTION #V2 - 220 to 240 V AC 50/60 Hz available on special order.

Special interconnection for synchronizing the bias oscillators in two amplifiers for multiple channel operations is optional.

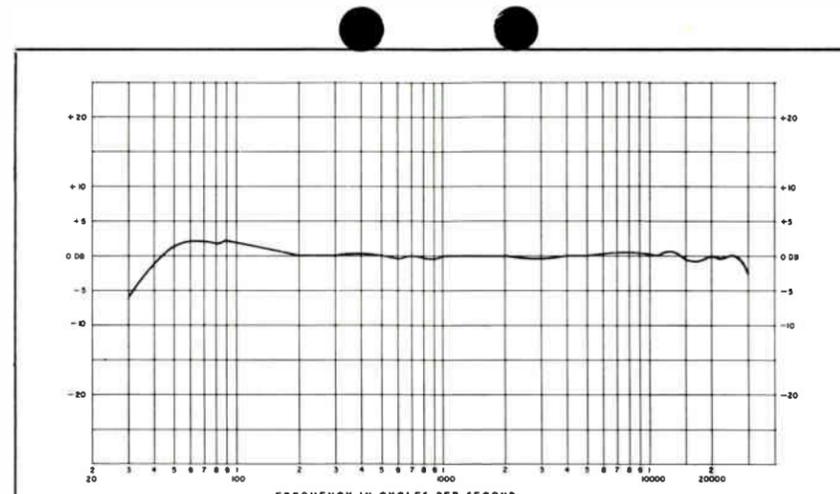
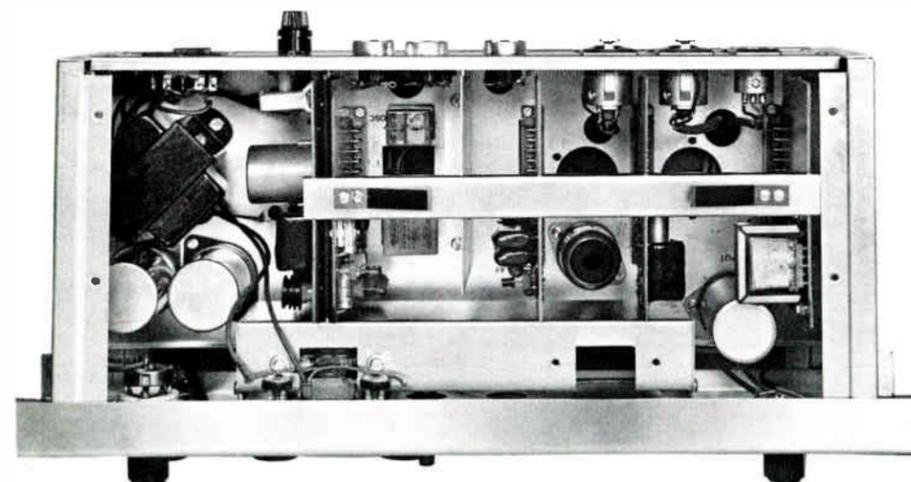
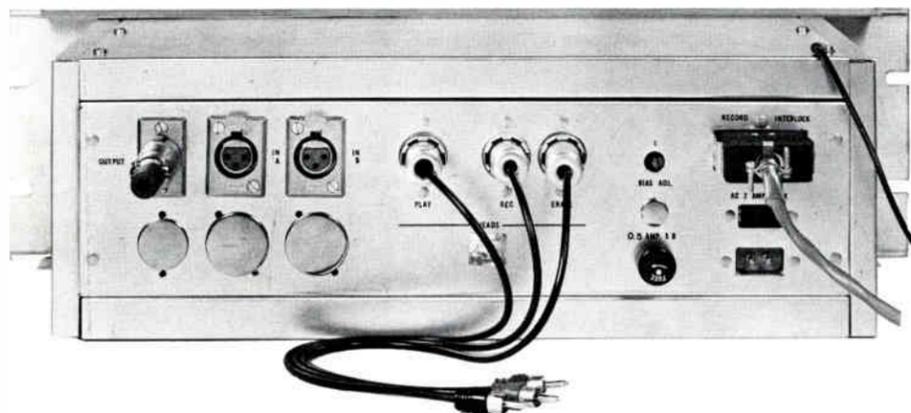
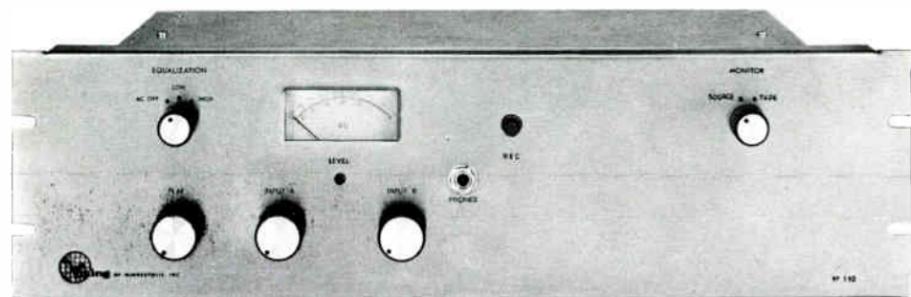
FOR MATCHING TAPE TRANSPORT TELEX MODEL VIKING 230

SEE TELEX TECHNICAL DATA SHEET NO. 4026.

Specifications listed herein are subject to change without notice.

RP110

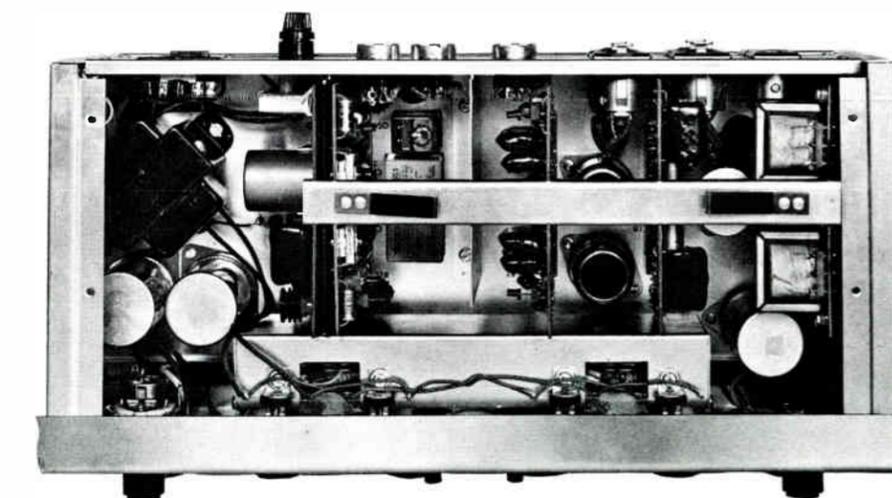
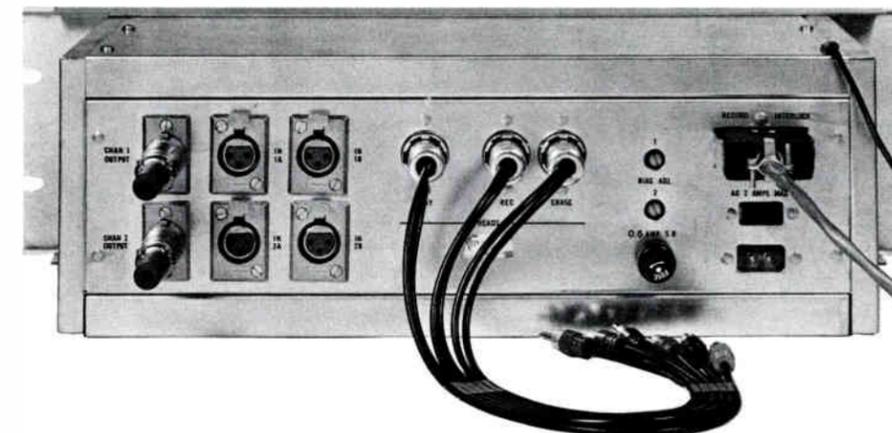
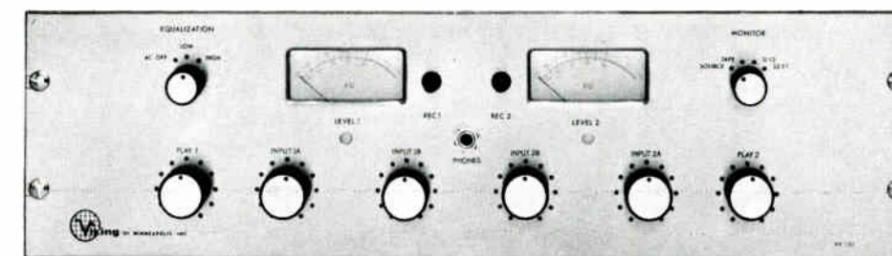
FRONT, REAR AND TOP VIEW



Typical RP110 or RP120 amplifier record/playback frequency response used in conjunction with half-track model Viking 230 tape transport at 7-1/2 ips.

RP120

FRONT, REAR AND TOP VIEW



ACCESSORY PLUG-IN INPUT MODULES

FIT ANY INPUT ON RP110 AND RP120 AMPLIFIERS



P1 - Catalog No. 1900-00-501
 P2 - Catalog No. 1900-00-502
 P3 - Catalog No. 1900-00-503
 P4 - Catalog No. 1900-00-504

ORDER RP110 BY CATALOG NUMBER

Model	NAB Equalized Single Channel	Equalized For Tape Speeds	Order By Catalog Number
RP110	Full Track	1.875 - 3.75	1100-01-503
RP110	Half Track	1.875 - 3.75	1100-01-501
RP110	Full Track	3.75 - 7.5	1100-01-508
RP110	Half Track	3.75 - 7.5	1100-01-500
RP110	Full Track	7.5 - 15	1100-01-504
RP110	Half Track	7.5 - 15	1100-01-502

ORDER RP120 BY CATALOG NUMBER

Model	NAB Equalized Two Channel	Equalized For Tape Speeds	Order By Catalog Number
RP120	Half Track	1.875 - 3.75	1200-01-501
RP120	Quarter Track	1.875 - 3.75	1200-01-505
RP120	Half Track	3.75 - 7.5	1200-01-500
RP120	Quarter Track	3.75 - 7.5	1200-01-507
RP120	Half Track	7.5 - 15	1200-01-502
RP120	Quarter Track	7.5 - 15	1200-01-506