

# THE **AMPEX** MODEL 352 TAPE REPRODUCER



## *for high fidelity playback of pre-recorded tapes*

The Ampex Model 352 is a reproducer that plays pre-recorded tapes much as a turntable plays disc records. For those many applications where only the playback function is needed, it serves in lieu of a high quality tape recorder and has special advantages of its own.

**No accidental erasures** — Since the Model 352 has no recording or erase heads, irreplaceable tape recordings are fully protected from accidental erasure. Thus the 352 is particularly suitable where non-technical personnel will play tapes — or in professional applications where loss through erasure could be high.

**Highest quality of reproduction** — The finest tape recordings can be reproduced "perfectly" on the Ampex Model 352. It is identical in performance to the playback functions of the Ampex Model 350 Recorder which is so widely used in radio network broadcasting and professional studio recording.

**Lower cost** — The Ampex 352 Tape Reproducer costs less than a recorder of comparable quality. Radio stations, recording studios and educational institutions can in many places use a tape reproducer in lieu of another recorder. Equipment costs are cut without sacrificing quality.

### APPLICATIONS

**In radio broadcasting** the Model 352 plays transcribed programs and time-delayed network material. In addition it is the safest machine for editing.

**For advertising agencies and theatrical and radio booking agents**, it is an ideal machine for auditioning taped radio programs, dramatic performances and commercials.

**In the professional recording studio**, the Ampex 352 provides high quality playback for checking, editing and hearings by studio clients, critics and others.

**For educational institutions**, it is an exceedingly durable machine for playing pre-recorded tapes. It can be entrusted to student use with minimum danger to tapes.

## The **AMPEX** Standard of excellence...

The 352 Tape Reproducer incorporates those characteristics that have put Ampex Tape Recorders in a class by themselves.

**ADHERENCE TO SPECIFICATIONS.** All published specifications are conservative ratings, **not exaggerated claims.** Each Ampex is instrument-tested to equal or exceed every performance figure (see back page).

**15,000 CYCLE/SEC. RESPONSE AT 7½ IN/SEC.** Ampex machines meet NARTB primary standards at a tape speed of 7½ in/sec. as well as at 15 in/sec. Tapes maintain these characteristics when interchanged between any Ampex equipment.

**FREEDOM FROM NOISE AND DISTORTION.** Signal-to-noise ratio of single track Model 352 Reproducers is over 60 db at the level of 3% distortion of a 400 cycle tone. Flutter and wow are well under 0.2% rms at 15 in/sec. and under 0.25% rms at 7½ in/sec

**ACCURACY OF TIMING.** Timing is accurate within  $\pm 3.6$  seconds in 30 minutes program time. Timing accuracy is a "built-in feature" — not a precarious balance of adjustments. It is standard from one Ampex to another.

**FAST RESPONSE TO CONTROLS.** Starting time is "instantaneous" — full stable tape speed in less than 1/10th second. In stopping, the tape moves less than 2 inches even at 15 in/sec. tape speed. Exact cueing is routine on an Ampex.

IF YOU PLAN FOR TOMORROW, BUY AN AMPEX TODAY.

**MODEL  
352  
REPRODUCER**

**GENERAL PERFORMANCE CHARACTERISTICS  
AND SPECIFICATIONS**

<b>TAPE SPEEDS</b>	7½ and 15 in/sec.		
<b>FREQUENCY RESPONSE</b>	15 in/sec. ± 2 db 30 to 15,000 cycles/sec. 7½ in/sec. ± 4 db 30 to 15,000 cycles/sec. (± 2 db 40 to 10,000 cycles/sec.)		
<b>SIGNAL-TO-NOISE RATIO</b>	<b>Speed</b>	<b>Max. Record Level to Unweighted Noise</b>	<b>Peak Record Level to Unweighted Noise</b> <i>The peak record level is defined as that level at which an overall (input to output) total RMS harmonic distortion is 3% when measured on a 400 cycle tone. Noise is measured when erasing a signal of peak recording level and in absence of new signal. Thus, bias and erase noise are included as well as playback amplifier noise. All frequencies between 30 and 15,000 cycles are measured.</i>
	15"	Full track 70 db Half track 65 db	Full track 60 db Half track 55 db
	7½"	Full track 70 db Half Track 65 db	Full track 60 db Half track 55 db
<b>FLUTTER AND WOW</b>	15 in/sec. 7½ in/sec.	Well below 0.2% Well below 0.25%	<i>The flutter and wow measurements, include all components between 0 and 300 cycles/sec. using an RMS meter calibrated to read the peak value of constant amplitude sinusoidal flutter.</i>
<b>PLAYING TIMES</b>		<b>Speed</b>	<b>Half Track</b> <b>Full Track</b>
	With NARTB 10½" reels (2400 feet of tape)	15 in/sec. 7½ in/sec.	64 min. 2 hrs. 8 min.      32 min. 64 min.
<b>STARTING TIME</b>	Instantaneous (tape accelerates to full speed in less than 1/10 second).		
<b>STOPPING TIME</b>	At 15 in/sec. speed, tape moves less than two inches after pressing "Stop" button.		
<b>PLAYBACK TIMING ACCURACY</b>	± 0.2% (± 3.6 seconds in a thirty minute recording).		
<b>REWIND TIME</b>	Approximately one minute for 2400-foot NARTB reel; 30 seconds for 1200-foot RMA reel.		
<b>CONTROLS</b>	Tape motion controlled by four pushbuttons; Start, Stop, Fast Forward and Rewind. Tape speed changed by a Motor Speed Switch and Equalization Switch. Reel Size Switch provides proper tape tensions for NARTB 10½" reels or RMA 5" and 7" reels.		
<b>OUTPUT</b>	Plus 4 VU output into 600 ohms, balanced or unbalanced. Will feed a high input impedance amplifier directly with approximately one volt.		
<b>PLUG-IN HEAD HOUSING</b>	Playback heads are contained in a single plug-in head housing.		
<b>POWER REQUIREMENTS</b>	Either half or full-track machines require 2.4 amperes at 117 volts A.C. Machines are available for either 50 or 60 cycle operation.		
<b>RACK SPACE</b>	Standard 19 inch wide panel with commercial notching.  <b>Tape Transport</b> , 15¾ inches of rack space, weight . . . . . 50 lbs. <b>Electronic Assembly</b> , 5¼ inches of rack space, weight . . . . . 13½ lbs. <b>Power Panel</b> , 1¾ inches of rack space, weight . . . . . 1 lb.		
<b>CONSOLE DIMENSIONS</b>	35" high x 24¼" wide x 2¾" deep; weight 109 lbs.		

**OPTIONS TO SPECIFY WHEN ORDERING**

<b>MOUNTING STYLE</b>	Console or rack-mount _____
<b>TRACK WIDTH</b>	Full track or half track _____
<b>POWER LINE FREQUENCY</b>	60 or 50 cycle/sec. _____

**ACCESSORIES**

<b>REMOTE CONTROL UNITS</b> (Cat. #5763 and Cat. #5763-1)	Controls, <b>Start, Stop, Fast Forward</b> , and <b>Rewind</b> from a remote location. Catalog #5763 is mounted in a wooden case and is completely wired. Catalog #5763-1 is mounted on a flat plate for flush mounting in studio consoles and is not wired.
<b>VU METER PANEL</b> Cat. #4331-1)	Includes VU meter, attenuation controls and phone jack. The attenuator and VU meter permit control of output level (otherwise output of the 352 Reproducer has a fixed setting of 4 VU and must be controlled externally).



**DISTRIBUTED BY**

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