



THE PRO LINE  
**ROBERTS**

MODEL **778X**  
with exclusive **CROSS FIELD**

**INTEGRATED CARTRIDGE & REEL RECORDER**



1800 S D  
~\$250

**S** featuring

**Now... a home instrument that RECORDS CARTRIDGES for music in your car!**

- High compliance acoustic suspension speakers to capture full Cross Field frequency range
- Two speeds for cartridge Record & Play, offering high speed duplicating and Fast Forward selection location
- Built-in cartridge erase, eliminating external bulk tape erasing
- Four speeds for standard reel record & play
- Records cartridge from reels, or externally plugged-in record player, tuner, mikes or another deck
- Illuminated read-out indicators for track selection

**MODEL 778X \$429<sup>95</sup>**

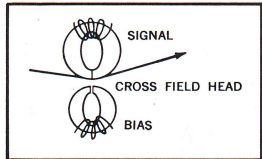
# ROBERTS MODEL 778X OUTSTANDING FEATURES

## "STEREO 8" CARTRIDGE RECORDING/PLAYBACK

The Model 778X employs the 8-track stereo system on the cartridge. The tape has a total of eight tracks, two of which are used at a time for stereophonic recording or playback. There are four choices of channels for stereophonic recording and playback. When the tape comes to an end, the next channel is automatically set in position for recording or playback. Recording or playback time for one channel is 15 minutes, and continuously 60 minutes for four channels when using a 300-foot cartridge tape. Any desired channel may be easily selected by manually pushing the CARTRIDGE PROGRAM SELECTOR BUTTON.

## CROSS FIELD HEAD

On conventional heads, the signal and the bias are applied to the same recording head. Therefore the components, especially the high frequency component, of the signal being recorded tend to be attenuated or erased by the effect of the bias field.



On the CROSS FIELD SYSTEM, the signal head and bias head are separate and mounted opposite one another with their centers slightly displaced so the recorded signal is free from the undesirable effect of the bias field. The tape can therefore be modulated over the entire frequency spectrum with maximum fidelity.

## REEL-TO-REEL

4-track stereo / monaural recording and playback • Tape speeds . . . 1 $\frac{7}{8}$ , 3 $\frac{3}{4}$ , 7 $\frac{1}{2}$  and 15 ips • CROSS FIELD HEAD SYSTEM (Erase, record/playback and bias heads) • Wide CROSS FIELD frequency response • Two lever system for user operation and rugged construction • Track selector knob for simple selection between stereo and monaural • Automatic shut-off, instant stop control • 3-digit index counter with reset button • Tape Lifters (not pressure pads) for longer head life.

## CARTRIDGE

8-track stereo recording and playback • Tape speed — 3 $\frac{3}{4}$  ips • Erase and record/playback heads • Cartridge program selector button for easy selection of any program • Jack for remote control of program selection • Program indicator • 60 minutes of continuous stereo recording and playback (300-foot cartridge tape) • 1 Micron Head gap to insure better frequency response.

## REEL-TO-REEL/CARTRIDGE

Hi-Fi stereo sound from high capacity 12 watt solid state amplifier and high compliance speakers • Silicon transistors and shielded-type head for high S/N ratio • Robust mechanism for durability • Tone Controls • Twin type VU meters for easy reading • Speaker On/Off switch • Stereo headphone jack • Vertical and horizontal operation.

# ROBERTS MODEL 778X PERFORMANCE SPECIFICATIONS

TAPE SPEED.....	REEL 1 $\frac{7}{8}$ , 3 $\frac{3}{4}$ , 7 $\frac{1}{2}$ , and 15 IPS	EQUALIZATION.....	NARTB correct equalization for playback of tapes recorded to the curve
	CARTRIDGE 3 $\frac{3}{4}$ ips	RECORDING LEVEL INDICATOR.....	Twin VU meters
WOW AND FLUTTER.....	REEL	RECORDING SYSTEM.....	REEL 4-track stereo/monaural, CROSS FIELD bias system
(Playback Only)	Less than 0.18% RMS @ 7 $\frac{1}{2}$ IPS	CARTRIDGE	"Stereo 8"
	Less than 0.30% RMS @ 3 $\frac{3}{4}$ IPS	FAST FORWARD & REWIND TIME.....	REEL
	Less than 0.45% RMS @ 1 $\frac{7}{8}$ IPS		120 seconds using 1200-foot tape @ 60 cycles
FREQUENCY RESPONSE.....	CARTRIDGE	RECORDING CAPACITY.....	REEL
	Less than 0.30% RMS @ 3 $\frac{3}{4}$ IPS		8 hours monaural recording @ 1 $\frac{7}{8}$ IPS (1200-foot tape)
	REEL		4 hours stereo recording @ 1 $\frac{7}{8}$ IPS
	30 to 23,000 cps $\pm 3$ db @ 7 $\frac{1}{2}$ IPS		CARTRIDGE
	30 to 18,000 cps $\pm 3$ db @ 3 $\frac{3}{4}$ IPS		60 minutes stereo recording with 300-foot tape in cartridge
	30 to 9,000 cps $\pm 3$ db @ 1 $\frac{7}{8}$ IPS	MAXIMUM REEL SIZE.....	7"
	CARTRIDGE	MOTOR.....	2-speed induction
DISTORTION.....	REEL	SPEAKERS.....	Two 4" extended range
	Within 2% @ 1,000 cps, 0 VU	TRANSISTORS.....	32 solid state circuit elements (19 transistors + 13 diodes)
	CARTRIDGE	POWER SUPPLY.....	120V AC, 50/60 cycles
	Within 3% @ 1,000 cps, 0 VU	POWER CONSUMPTION.....	60 watts
SIGNAL TO NOISE RATIO.....	REEL	DIMENSIONS.....	15"H x 13 $\frac{1}{2}$ "W x 9 $\frac{1}{2}$ "D
	Better than 50 db	WEIGHT.....	37.4 lbs.
	CARTRIDGE		
	Better than 45 db		
INPUT LEVEL.....	Mic — more than 0.5MV		
	Radio/Phono — more than 60MV		
POWER OUTPUT.....	6 Watts music power per channel, total 12 Watts		



THE PRO LINE  
**ROBERTS**

THE ROBERTS POLICY IS ONE OF CONTINUAL DEVELOPMENT AND IMPROVEMENT. FOR THAT REASON, ROBERTS RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE, AND WITHOUT INCURRING ANY OBLIGATION RELATING TO MODELS PREVIOUSLY MANUFACTURED BY THEM.

DIVISION OF RHEEM MANUFACTURING COMPANY • LOS ANGELES, CALIFORNIA 90016