

RECORDING OUTFITS REH(1) AND REH(2)

SUMMARY OF DATA

PURPOSE

Magnetic tape recording outfits for various monitoring requirements and other uses.

MAJOR UNITS

Patt. No.	Description	Physical Data			
		Height	Width	Depth	Weight
54819	Rack 19" Design 1	5' 5 $\frac{1}{2}$ "	1' 8 $\frac{1}{2}$ "	2' 4"	96 lb
100322	Tape Recorder and Reproducer A/F	11 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	56 lb
100325	Fittings, set of, for rack mounting REH(1)	-	-	-	13 $\frac{1}{2}$ lb
100326	Voice-Operated Switching Unit REH(1)(2)	3 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	6"	3 $\frac{1}{2}$ lb
100327	Box, for Working and Spare Components REH(1)(2)	8 $\frac{1}{2}$ "	1' 4 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	15 lb
100328	Tape, magnetic recording 1200ft. on 7" Spool	-	-	-	-
101253	" " " 200 ft. " 3 $\frac{1}{2}$ " "	-	-	-	-
100323	Tape Deck for A.P.100322	}	Part of Patt. 100322		
100324	Amplifier and Power Unit for A.P.100322				
13321A	Microphone Hand	-	-	-	-

- Notes:- 1. Patts. 54819 and 100325 are not supplied with Outfit REH(2)
2. Where rack is mounted on wooden floor a steel base plate (weight 30 lb) is supplied.

BRIEF DESCRIPTION

Outfit REH(1) is a commercially produced tape recorder mounted on a standard P.O. 19" rack. Outfit REH(2) is identical but is not rack mounted. Any recording may be played back immediately or stored for later use. A recording may be played back an almost indefinite number of times or be erased and the tape used again. Three speeds are available giving a choice between long playing time with limited frequency response, short playing time good response or a compromise. Two recordings can be accommodated on one tape. The total recording time per reel may be 1 hour at 7 $\frac{1}{2}$ " per sec. 2 hours at 3 $\frac{1}{2}$ " per sec. or 4 hours at 1 $\frac{1}{2}$ " per sec. During play back six different frequency response characteristics can be selected according to particular speed, operation or Service required. Provision is made for remote switching or voice operated control.

The instrument is intended for operation from and into 600 ohm lines. A high gain stage is provided however to allow recording direct from a suitable microphone via the microphone matching transformer supplied.

On the output side, provision is made for 2 watts to be fed to an external 600 ohm load in addition to the 2.5 volts available for feeding 600 ohm lines. An internal speaker allows monitoring both during recording and play-back and can be switched off when not required.



A.P.100322 TAPE RECORDER AND REPRODUCER A/F

POWER REQUIREMENTS

Power Supply:- 100 - 120V or 200 - 250V 50 c/s (60 c/s supply may be used with special pulley)

Power Consumption:- 110 watts approximately

HEAT DISSIPATION

110 watts approximately.

RECORDING MEDIUM

Standard Category A tape on 7" reels of 1200 ft. or 3½" reels of 200 ft. Tape width 0.25". Tape thickness 0.0024".

TRACK WIDTH

0.1" displaced to one edge.

NUMBER OF TRACKS

Two consecutive recordings can be accommodated side by side.

RUNNING TIME (50 C/S SUPPLY)

30 mins. each track at 7½" per sec. i.e. 1 hour per reel. Pro rata for other speeds. Rewind time less than 1 min. per full reel.

FREQUENCY RESPONSE

(a) at 7½" per sec. 70 - 8000 c/s
(b) at 3½" per sec. 70 - 4000 c/s
(c) at 1½" per sec. 70 - 2000 c/s } ± 3 db

INPUT IMPEDANCES AND LEVELS

(a) Line Input - 600 ohms balanced by P.O. Gauge "A" jack via built-in isolating transformer.

Minimum signal level 0.07V peak.

(b) Microphone Input - 1 megohm unbalanced or using external plug in matching transformer, 25 ohms balanced.

Minimum signal level 0.002V at high impedance socket.

OUTPUT IMPEDANCES AND LEVELS

(a) Main Output - 2 watts available into 600 ohm load, balanced through P.O. Gauge "A" jack. Dummy 600 ohm load connected when plug is removed.

(b) Line Output - 2.5V available across internal 4 ohm load, for feeding lines, balanced, P.O. Gauge "A" jack.

(c) Monitor Loudspeaker - 500 mW to internal 5" Speaker.

SIGNAL TO NOISE RATIO

In the range 200 - 8000 c/s, without distortion and at 7½" per sec. - 50 db (approx.)

HANDBOOK

B.R.1431

ESTABLISHMENT LIST

E.1040

INSTALLATION SPECIFICATION

B.744