

# RECORDING OUTFITS REH(3) AND REH(4)

REH(3)  
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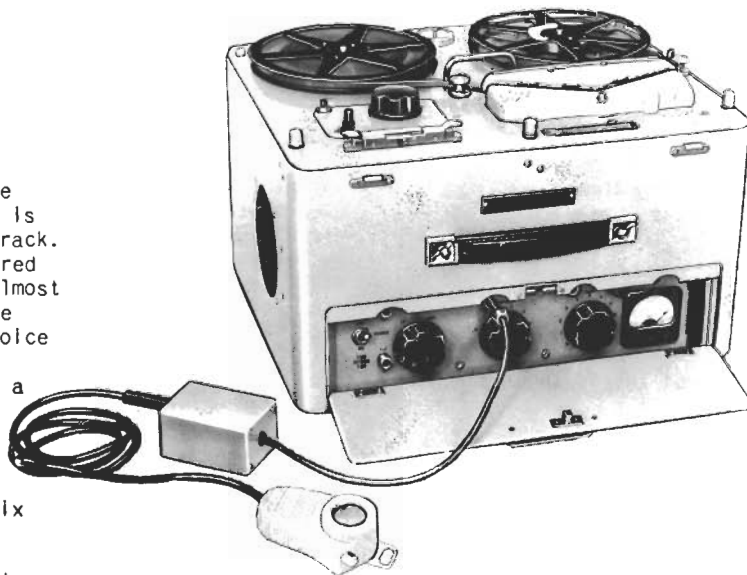
## SUMMARY OF DATA

### PURPOSE

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

### BRIEF DESCRIPTION

Outfit REH(3) is a commercially produced tape recorder mounted in a portable case. Outfit REH(4) is identical but is mounted on a standard P.O. 19 in. rack. 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 with good response, or a compromise. Two full length recordings can be accommodated on one reel of tape. The continuous recording time per Pattern 943-6981 reel is 1 hour at 7½ in. per second, 2 hours at 3¾ in. per second, or 4 hours at 1½ in. per second. During playback six different frequency response characteristics can be selected according to a particular speed operation or Service requirement. Provision is made for remote switching or voice-operated control.



943-8235 RECORDER-REPRODUCER, SOUND

The instrument is intended for operation from and into 600 ohm lines at zero level ± 10 dB approximately. A high gain stage input socket is provided however to allow recording direct from a suitable microphone matching transformer supplied. (Pattern 943-7003 Interconnecting Box.)

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 playback and can be switched off when not required.

### MAJOR UNITS

J.S. Cat. No. or A.P.	Description	Physical Data			
		Height	Width	Depth	Weight
943-8235	Recorder-Reproducer, Sound	11½ in.	16¾ in.	13¼ in.	56 lb
943-8238	Recorder-Reproducer, Sub-assy., Sound	-	-	-	-
943-8230	Amplifier, Power Supply	-	-	-	-
943-6987	Installation Kit	-	-	-	13½ lb
54819	Rack 19 in. Design 1 (for REH(4))	5 ft 5 in.	1 ft 8½ in.	2 ft 4 in.	96 lb
972-6181	Microphone, dynamic	-	-	-	-
943-7003	Interconnecting Box	-	-	-	-
943-8232	Control, Sound Recorder-Reproducer	¾ in.	7¼ in.	6 in.	3¾ lb
943-6981	Tape, Sound Recording (1200 ft)	-	-	-	-
943-8239	Tape, Sound Recording (200 ft)	-	-	-	-
943-8229	Maintenance Kit, Electronic Equipment	9 in.	16½ in.	9 in.	28 lb

- Notes:-
1. Patterns 54819 and 943-6987 are not supplied with Outfit REH(3).
  2. Where the rack is mounted on a wooden floor a steel base plate (weight 30 lb) is supplied.
  3. Patterns 943-8238 and 943-8230 are part of 943-8235 Recorder-Reproducer, Sound.

## MAIN PARAMETERS

Power Supply	100-120 v or 200 250 v 50 Hz (60 Hz may be used with special pulley)
Power Consumption	110 watts (approx.)
Recording Medium	Standard Category A tape on 7 in. reels of 1200 ft or 3½ in. reels of 200 ft. Tape width 0.25 in. Tape thickness 0.0024 in.
Track Width	0.1 in. displaced to one edge.
Number of Tracks	Two consecutive recordings can be accommodated side by side.
Running Time (50 Hz Supply)	32 minutes each track at 7½ in./sec., ie 64 minutes per reel of Pattern 943-6981. Rewind-time less than 1 minute per full reel. 2 h each track at 1½ in./sec., ie 4 h per reel. 1 h each track at 3½ in./sec., ie 2 h per reel.
Frequency Response	(a) at 7½ in./sec., 60-10 000 Hz ± 3 dB (b) at 3½ in./sec., 60-5000 Hz ± 3 dB (c) at 1½ in./sec., 60-2000 Hz ± 6 dB
Input Levels and Impedances	(a) <u>Line Input</u> . Minimum 0.125 v (peak) into 5000 ohms (approx.) balanced. (b) <u>High Z Input</u> . Minimum 0.0035 v into 1 Megohm unbalanced. Pattern 943-7003 converts this to 25 ohms, balanced, for use with a dynamic microphone.
Output Levels and Impedances	(a) <u>Main Output</u> - 2 watts available into 600 ohm load, balanced through P.O. Gauge 'A' jack. (b) <u>Line Output</u> - 2.5 v available across internal 4 ohm impedance source, balanced.  NOTE: For feeding into B.P.O. (British Post Office) lines a suitable impedance matching Transformer should be used. (c) <u>Monitor Loudspeaker</u> - 500 mw to internal 5 in. speaker; Dummy 2.5 ohm load connected when switched off.
Signal to Noise Ratio	This is approximately 50 dB, in the range 200-8000 Hz, without distortion and at 7½ in./sec.

## HANDBOOK

BR 1174

## ESTABLISHMENT LIST

E1191

## INSTALLATION SPECIFICATION

B774/R1