

TEACHER OUTFIT HRF

SUMMARY OF DATA

PURPOSE

A teacher designed to simulate on Radar Displays aircraft echoes, to provide practice in interception and telling from a P.P.I. It operates with Types 282 and 285 on small ships which have insufficient space for Teacher Outfit HRB.

**RANGE** 0 - 20,000 yds  
**ECHO SPEED** 500 knots opening - 500 knots closing  
**POWER REQUIREMENTS** 180 volts 500 c/s

MAJOR UNITS

Pattern No.	DESCRIPTION	PHYSICAL DATA			
		Height	Width	Depth	Weight
65165	Echo Generator Unit (Portable)	1' 1"	1' 4"	7"	16 lb
65166	Bearing Conversion Unit (Portable)	1' 1"	1' 4"	7"	16 lb
66091	Box, Junction for Teacher Outfit HRF	-	-	-	-
65827	Case, carrying (2 in No.)	-	-	-	-

Patt. 65165 Echo Generator and Patt. 65166 Bearing Conversion Unit are each stowed in a Patt. 65827 Case, carrying when not in use.

BRIEF DESCRIPTION

A small compact equipment which operates with Types 282 and 285. The teacher produces on the Display panels an echo which can be set by hand at any range from 0 - 20,000 yds (approx.). This echo can be made to travel along the trace by an electronic system, which can be set to give any constant travel between 500 knots opening and 500 knots closing.

When used with Type 285 the bearing of the echo can be varied manually over approximately 180 degrees; there being no automatic variation of bearing. Beam switching is incorporated and the double echo can be balanced by training the Director in the normal manner.

Ships fitted with Type 285Q ('K' tower) and Type 282 all Mk's will be able to carry out ranging exercises only, since there is no 'M' type transmission to operate the Bearing Conversion Unit.

The 'M' Type motor in the Bearing Conversion Unit operates in 6 minute steps. In ships fitted with Mk V, V<sup>x</sup> or V<sup>xx</sup> Range Finder Director, director training is transmitted automatically. Bearing transmission is therefore taken from the gun training instead of director training.

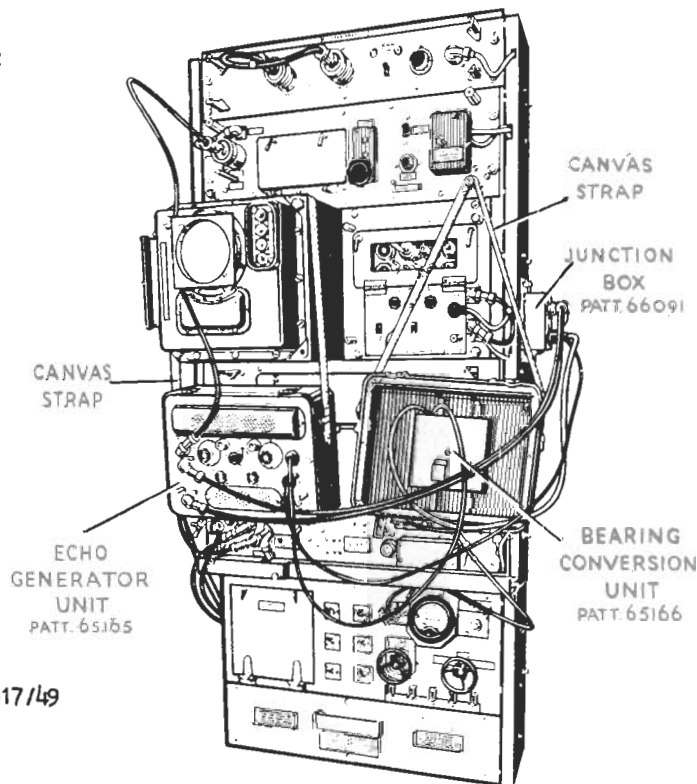
REMARKS

Since Teacher Outfit HRF has been designed to simulate aircraft targets only, low rate settings of the echo speed are unreliable and for this reason the outfit is unsuitable as a surface target teacher.

**HANDBOOK** B.R.1830

**ESTABLISHMENT LISTS** E932

**INSTALLATION SPECIFICATION** Not issued. A.F.O.1817/49 gives installation instructions.



TEACHER OUTFIT HRF CONNECTED TO TYPE 285