RANGING OUTFITS RTG(1) AND RTG(2)

SUMMARY OF DATA

PURPOSE

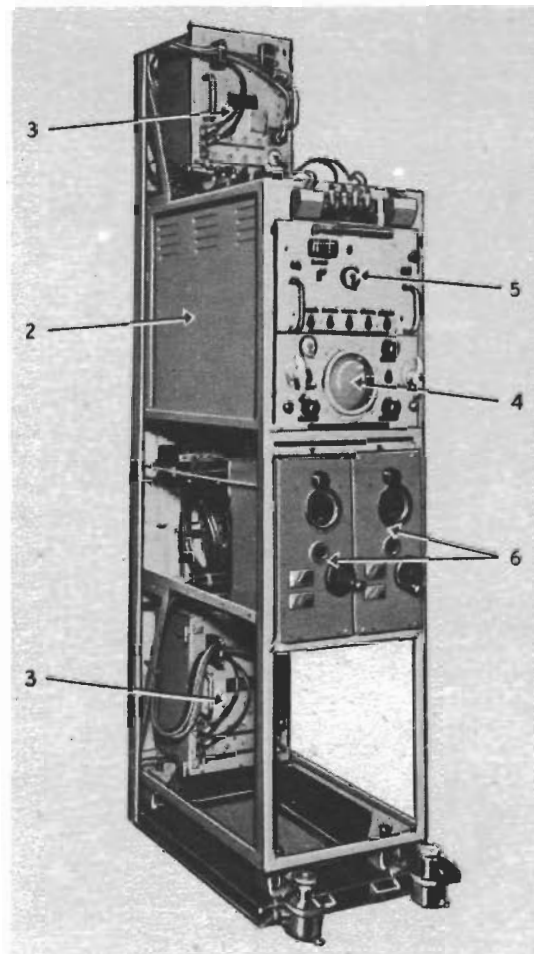
Radar Ranging Outfits used with Gun Direction Systems and fitted in the G.D.R. in association with any of the variations of T.I.U. Mark 2.

MAJOR UNITS

1. Patt. 66630 Range Transmission Rack Des. 3.
2. Patt. W9081 Panel L37RB.
3. Patt. 58924 Generator (Strobe) and Signal Unit, Des. 3 (2 for RTG(2)).
4. Patt. W9561 Cathode Ray Unit, Des. 18.
5. Patt. W9562 Time Base Unit, Des. 16.
6. Patt. A.F.4031 Range Transmission Unit Mark 10 Star (2 for RTG(2)).

Notes

(a) Item 1 contains Items 2 to 6 inc.
(b) Items 4 and 5 are parts of Item 2.
(c) Item 6 is a D.N.O. item.
(d) The difference between RTG(1) and RTG(2) is that RTG(1) uses only one Generator (Strobe) and Signal Unit and one Range Transmission Unit, while RTG(2) has two of each. Otherwise the function of the outfits is identical.



RANGING OUTFIT RTG(2)

PHYSICAL DATA

Height	6' 7"	Weight	285 lb
Width	1' 5½"	(Outfit RTG(1))	
Depth	2' 3"		336 lb
		(Outfit RTG(2))	

BRIEF DESCRIPTION

The Ranging Outfits provide electrical separation between the range transmission circuits from the G.D.R. to Fire Control Positions. This is achieved by using multiple magslip transmitters actuated from one range handwheel through suitable gearing. The outfits transmit range simultaneously and continuously to a number of different points on either short, medium or long range gun positions, to a maximum of 36,000 yards.

POWER REQUIREMENTS AND CONSUMPTION

From Radar Power Supply 180V. 500 c.p.s. 200W.

From Ship's Low Power Supply 22V. D.C. 33W.
50V. 50 c.p.s.)
or 60V. 60 c.p.s.) Low Frequency Magslips.

20V. 1100 c.p.s. High Frequency Magslips.

HANDBOOK B.R.1506 (ADDM).

ESTABLISHMENT LIST E.938.

INSTALLATION SPECIFICATION B.708.