

SUMMARY OF DATA

PURPOSE

D/F Outfit FM11 is a MF Direction Finder fitted in submarines superseding D/F Outfit FM4. D/F Outfit FM12 is fitted in trawlers and above and also in Royal Naval Air Stations as a MF Direction Finder superseding D/F Outfit FM7.

FREQUENCY RANGE

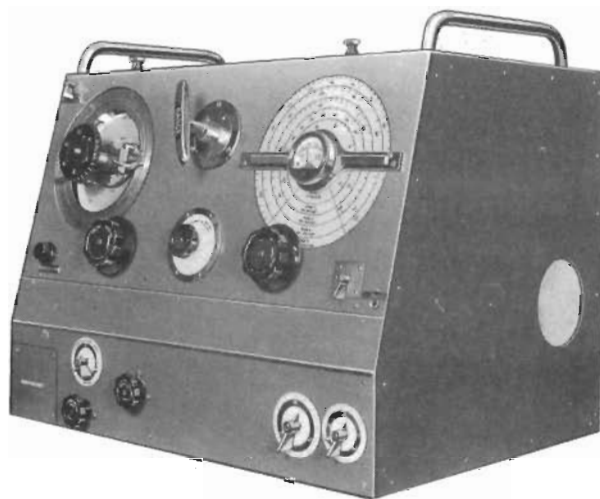
D/F Outfit FM11 - 15 to 580 kHz in five ranges.

D/F Outfit FM12 - 42 to 1060 kHz in five ranges.

BRIEF DESCRIPTION

D/F Outfits FM11 and 12 are direction finding sets which work on the Bellini-Tosi principle and employ fixed frame aerial systems.

D/F Assemblies FMA and FMB are completely self contained D/F assemblies and each include a receiver, Patt. 5471 Radionometer S33, power pack, inductance correcting unit and gyro motor etc. The receiver comprises three r.f. stages, detector, beat frequency oscillator and one stage of a.f. amplification. A single tuning control tunes all stages including the beat frequency oscillator. A built-in loudspeaker is incorporated and provision is made for the connection of an external loudspeaker and headphones to the set.



D/F ASSEMBLY FMB

MAJOR UNITS

<u>D/F Outfit FM11</u>		<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
Patt. W5482/A	D/F Assembly FMA	23½"	25"	18"	235 lb
Patt. W1953	Framecoil S21				224 lb
<u>D/F Outfit FM12</u>					
Patt. W5483/a	D/F Assembly FMB	23½"	25"	18"	235 lb
Patt. 1912	Framecoil S22				118 lb
or					
Patt. W1998	Framecoil S19				132 lb

Framecoil S19 is fitted in cruisers and above.

POWER REQUIREMENTS AND CONSUMPTION

230 volts 50 Hz supply with a consumption of 75 watts.

The supply is taken from an existing A.C. Supply Outfit, if this is not available A.C. Supply Outfit DRB, DQB or DJB is fitted.

AERIAL SYSTEM

A fixed framecoil system with a 30-40 ft vertical single wire sense aerial.

D/F Outfit FM11 - Framecoil S21 (submarine's fixed aerial is used as sense aerial).

D/F Outfit FM12 - Framecoil S19 or S22.

HANDBOOK

3R 1370

ESTABLISHMENT LIST

E550

INSTALLATION SPECIFICATIONS

B233 (D/F Outfit FM11)

B213 (D/F Outfit FM12)