

## 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**

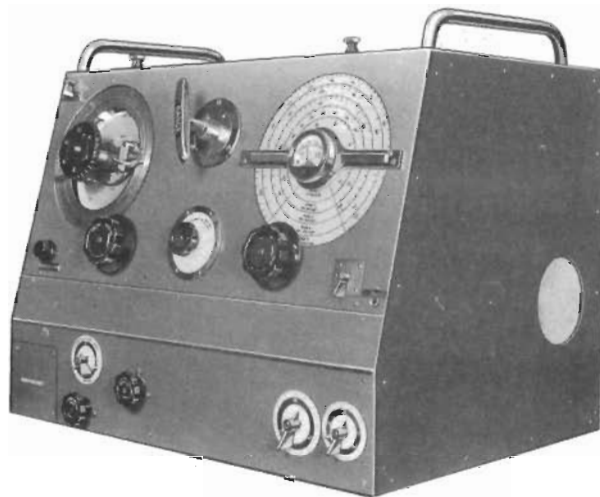
D/F Outfit FM11 - 15 to 580 kHz in five ranges.

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)