

TYPES 1000 AND 1001

**1000
1001**

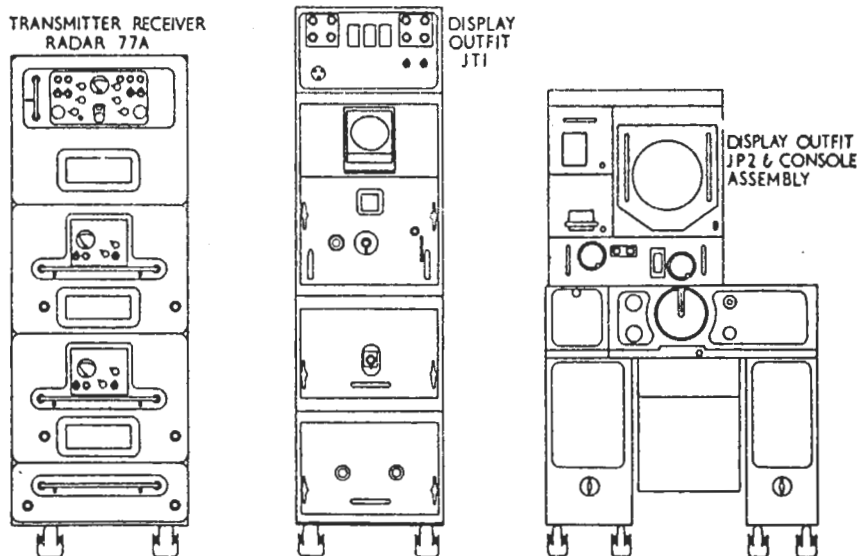
SUMMARY OF DATA

PURPOSE

Types 1000 and 1001 are submarine radars designed to give sea or sea and air warning together with an accurate ranging facility.

BRIEF DESCRIPTION

All Types in the 1000 series consist of the three major units illustrated, with Aerial Outfit AKS and a sea warning aerial (Type 1000) or a combined sea and air warning aerial (Type 1001). Either aerial may be connected to one of the transmitters in Panel 77A at any one time. Sector selection is available with both WS and WC aerials. There is a PPI display in the Control Room and Radar Office (Display Outfit JP2) for use primarily with the warning aerial, and an A scan display (Display Outfit JT1) for use with the ranging aerial AKS.



ELECTRICAL CHARACTERISTICS

- Transmitter Frequency : 9650 MHz \pm 50 MHz
- Power Output : 30 kW nominal
- Pulse Repetition Frequency : 400 - 500 Hz
or
2000 - 2500 Hz
- Pulse Duration : 1 μ s or 0.2 μ s
- Intermediate Frequency : 30 MHz
- Receiver Bandwidth : 2 MHz at -3 dB (Narrow)
8 MHz at -3 dB (Wide)

MAJOR UNITS

AP NO.	DESCRIPTION
AP 62167	Cabinet Assembly Design 62, Control
AP 62172	Cabinet Assembly Design 63, RF
AP 62181	Cabinet Assembly Design 64, Rectifier
AP 61364	Cabinet Assembly Design 28, Display
AP 61360	Cabinet Assembly Design 27, Range Calibrating
AP 61327	Cabinet Assembly Design 26, Rectifying
AP 64072	Time Base Unit Design 72S
AP 59992	Mixer-Unit Design 10
AP 61421A	Range and Bearing Unit Design 5
AP 65711	Control Unit Lower Left
AP 63766	Bearing Conversion Unit (Porpoise Class Only)
AP 65712	Control Unit Lower Right
AP 68541	Control Unit Upper Design 3 ('T' Class Conversions) or
AP 67043	Control Unit Upper Design 127 (Porpoise Class)

PHYSICAL DATA

	Height	Width	Depth	Weight
Panel 77A	158 cm (62.5 in.)	57 cm (22.5 in.)	61 cm (24 in.)	408 Kg (900 lb)
Panel JT1	173 cm (68.5 in.)	47 cm (18.5 in.)	63.5 cm (25 in.)	340 Kg (750 lb)
Console Lower Assembly	85 cm (33.5 in.)	86.4 cm (34 in.)	76.2 cm (30 in.)	308.8 Kg (672 lb)
Panel JP2	61.6 cm (24.25 in.)	57.2 cm (22.5 in.)	55.9 cm (22 in.)	357 Kg (784 lb)

POWER REQUIREMENTS

180 V 500 Hz	Type 77A, JT1, JP2
or 200 V 400 Hz	Type 77A, JT1
230 V 50 Hz	
or 115 V 60 Hz	Type 77A
115 V 400 Hz	Magslip
115 V 60 Hz	Aerial Motor
220 V dc	Heaters, Aerial Motor
24 V dc	

POWER SUPPLY OUTFITS

'T' Class Conversions, Outfit DXF
Porpoise Class, Outfit DUL

ASSOCIATED DISPLAY OUTFITS

JT1 and JP2

ASSOCIATED AERIAL OUTFITS

AKJ or AKU (1) in 'T' Class Conversions
AKT or AKU (2) in Porpoise Class

HANDBOOK

BR 2943

ESTABLISHMENT LIST

E 1133 Type 1000
E 1154 Type 1001

INSTALLATION SPECIFICATION

B 821