

TYPE 1004

1004

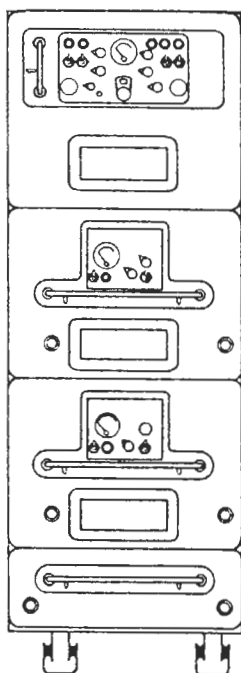
SUMMARY OF DATA

PURPOSE

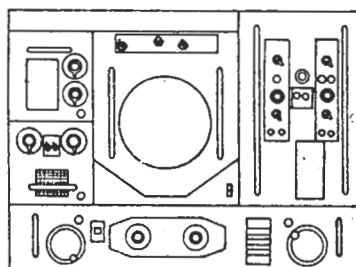
Type 1004 is a submarine radar designed to give combined surface and air warning.

BRIEF DESCRIPTION

Type 1004 replaces Type 267 PW in Submarine A—Class Conversions after refit. It consists of the two major equipments illustrated, together with Aerial Outfit AKU(5). Manual Sector Selection is available. There is a PPI display (Display Outfit JP4) in the Radar Office.



TRANSMITTER RECEIVER
RADAR 77A



DISPLAY OUTFIT JP4

ELECTRICAL CHARACTERISTICS

- Transmitter Frequency : 9650 MHz \pm 50 MHz
- Power Output : 30 kW nominal
- Pulse Repetition Frequency : 400—500 MHz
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

<u>AP No.</u>	<u>Description</u>
AP 63215 or 5840-AP 173243	Transmitter—Receiver 77A, 77A/A
AP 62167 or 5840-AP 173244	Cabinet Assembly Design 62, Control
AP 62172 or 5840-AP 173245	Cabinet Assembly Design 63, RF
AP 62181 or 5840-AP 173246	Cabinet Assembly Design 64, Rectifier
5840-AP 173040 or 5840-AP 173123 or 5840-AP 173253	Cabinet Indicator
5840-AP 173042 or 5840-AP 173120	Generator Sweep
5840-AP 172291 or 5840-AP 173122	Mixer Unit
5840-AP 173041 or 5840-AP 173121	Indicator Plan Position
AP 61421A or AP 614211	Range and Bearing Unit
5840-AP 173045 or 5849-AP 173254	Cabinet Control Power Supply
5840-AP 173046	Power Supply
5840-AP 204150	Servo Amplifier Mark 4 AC

PHYSICAL DATA

	Height	Width	Depth	Weight
Panel 77A, 77A/A	158 cm (62.5 in.)	57 cm (22.5 in.)	61 cm (24 in.)	408 Kg (900 lb)
Panel JP4	68.6 cm (27 in.)	56 cm (22 in.)	66 cm (26 in.)	239 Kg (527 lb)

POWER REQUIREMENTS

- 180 V 500 Hz
- or 200 V 400 Hz Type 77A, JP4
- 230 V 50 Hz Type 77A, Aerial Motor
- 115 V 60 Hz Fan Motor
- 115 V 400 Hz 1 phase Magslip
- 220 V dc
- or 115 V 60 Hz Anti-condensation Heaters
- 24 V dc

POWER SUPPLY OUTFITS

A-Conversions, Outfit DXF or DUL

ASSOCIATED DISPLAY OUTFIT

JP4

ASSOCIATED AERIAL OUTFIT

AKU (5)

HANDBOOK

BR 2945

ESTABLISHMENT LIST

E 1133

INSTALLATION SPECIFICATION

B 821