

DISPLAY OUTFIT JP2 AND CONSOLE LOWER ASSEMBLY

JP2

SUMMARY OF DATA

PURPOSE

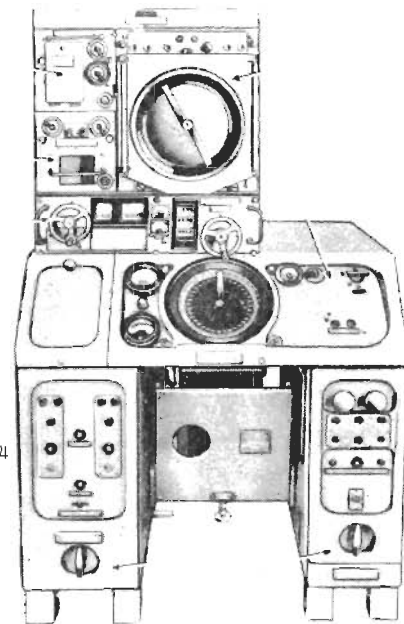
Display Outfit JP2 (Type 1000/1 Series) is a P.P.I. display for use with a submarine warning radar designed to transmit range and relative bearing to a torpedo computer.

BRIEF DESCRIPTION

Display Outfit JP2 consists of two Display Panels Design 4 and R.B.U.s. Design 5, one of each being fitted in the Radar Office and Control Room. The Radar Office part of the JP2 Display is mounted on the Console Lower Assembly. The rectifier units for both Display Panels are in the Console Control Unit Lower Left. The Lower Assembly. The rectifier units for both Display Panels are in the Console Control Unit Lower Left. The Control Unit Upper is mainly concerned with aerial control.

MAJOR UNITS

- (a) AP 59991/A Display Unit Design 29
  - (b) AP 64072 Time Base Unit 72S
  - (c) AP 59992 Mixer Unit Design 10
  - (d) AP 61421A Range and Bearing Unit Design 5
  - (e) AP 67043 Control Unit Upper Design 3 ('T' Class Conversions) or Control Unit Upper Design 127 (Porpoise Class)
  - (f) AP 68541 Control Unit Lower Left Design 2
  - (g) AP 65712 Control Unit Lower Right Design 2
- AP 64073 Display Panel Design 4



GENERAL VIEW

PHYSICAL DATA

- Weight : Display Panel Design 4 and R.B.U. Design 5, 500 lb  
Console + Display Panel Design 4 and R.B.U. Design 5, 1130 lb
- Dimensions : Width of Console : 2 ft 10 in  
Width of Display Unit : 22 in  
Height of Console + Display Unit : 4 ft 9 in  
Depth of Console : 2 ft 8½ in  
Depth of Display Unit : 22 in

POWER REQUIREMENTS

- 180 V 500 Hz at 500 W for rectifier units
- 220 V d.c. at 400 W for heaters and interlocks
- 24 V d.c. essential at 140 W max. for gyro M-transmission etc.
- 24 V d.c. non-essential at 207 W local M-transmission etc.
- 230 V 50 Hz at 500 W for selsyns ('T' Class Conversions only)
- 115 V 60 Hz 3 phase at 350 W for aerial motor (Porpoise Class only)
- 115 V 400 Hz for magslips in R.B.U. Gyro Supply

HEAT DISSIPATION

- Display Outfit JP2 : 250 W each display, Office and Plot
- Console Lower Assembly : 200 W

POWER SUPPLY OUTFITS

- 'T' Class Conversions : Power Supply Outfit DXF (180 V and 230 V a.c.) and D.E.E. 24 V and 220 V d.c. supplies
- Porpoise Class : Power Supply Outfit DUL (180 V a.c.) and D.E.E. 24 V and 220 V d.c. supplies

ELECTRICAL CHARACTERISTICS

- Type of Display : 8 inch diameter P.P.I., true North stabilised at 12 o'clock.
- Range of Scan : (A) 6000 yards, (B) 15 000 yards, (C) 60 000 yards.
- Range Indication : By positioning a strobe spot with a range handwheel.
- Bearing Indication : By positioning a cursor with a bearing handwheel.
- Calibration : 2000 yard markers from tuned L.C. circuit.
- Inputs : Sync and Signal from Transmitter-Receiver Radar 77A.  
Ship's head 24 V control circuit.  
Gyro
- Outputs : Magstrip range and relative bearing to T.C.S.S.3.

## RESTRICTED

BR 333(1)  
Original

### HANDBOOK

BR 1158

### ESTABLISHMENT LISTS

JP2 - E847, DXF - E735, DUL - E524

### INSTALLATION SPECIFICATIONS

Radar Type 1000 Series : B 821  
Power Supply Outfit DXF : B 723  
Power Supply Outfit DUL : B 687