

DISPLAY OUTFITS JP4/5

JP4/5

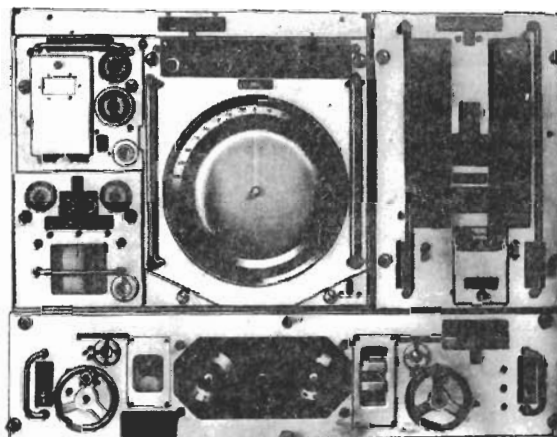
SUMMARY OF DATA

PURPOSE

Display Outfit JP4/5 is a P.P.I. Display for use with a submarine warning radar and is designed to transmit range and relative bearing to a torpedo computer.

BRIEF DESCRIPTION

Display Outfit JP4/5 consists of a P.P.I. associated with an R.B.U. that provides magstrip data for the Torpedo Computer. A Sector Selector Unit, part of the aerial outfit is mounted in the R.B.U. for convenience. JP4 only differs from JP5 in having AP 61421A R.B.U. (as for Display Outfit JP2) instead of 5840-AP 173164 R.B.U.. Where fitted, conditioning heaters are dual voltage, ie 220 V d.c. or 115 V a.c. 60 Hz.



MAJOR UNITS

- | | |
|--------------------------|------------------------------|
| 5840-AP 173253 | Cabinet Indicator |
| 5840-AP 173120 | Generator Sweep |
| 5840-AP 173122 | Mixer Unit |
| 5840-AP 173121 | Indicator Plan Position |
| 5840-AP 173164 | Range and Bearing Unit |
| (AP 61421A for JP4 only) | |
| 5840-AP 173254 | Cabinet Control Power Supply |
| 5840-AP 173046 | Power Supply |
| AP 204150 | Servo Amplifier Mk. 4 A.C. |

JP4 - uses AP 61421A R.B.U.
JP5 - uses 5840-AP 173164 R.B.U.

PHYSICAL DATA

Weight	Cabinet Control and Power Supply	108 lb
	Cabinet Indicator	250 lb
	Range and Bearing Unit	169 lb

Dimensions Overall 2 ft 10 in wide, 2 ft 3 in high, 2 ft 2 in deep.

POWER REQUIREMENTS

- 180 V 500 Hz (or 200 V 400 Hz) at 450 W for Rectifier Unit.
- 220 V d.c. or 115 V a.c. 60 Hz for anti-condensation heaters.
- 24 V d.c. for M type and lamps.
- 115 V 400 Hz 80 W for magstrips and servo amplifier.

HEAT DISSIPATION

Display Outfit JP4/5 - 450 W

ELECTRICAL CHARACTERISTICS

- | | |
|--------------------|---|
| Type of Display | 8 inch diameter P.P.I. True North stabilised at 12 o'clock. |
| Range of Scan | (a) 6000 yards at high or low p.r.f.
(b) 15 000 yards at high or low p.r.f.
(c) 60 000 yards at low p.r.f. |
| Range Indication | Positioning a strobe spot by means of a range handwheel. |
| Bearing Indication | Positioning a cursor by means of a bearing handwheel. |
| Calibration | 2000 yard markers from a tuned L.C circuit. |
| Inputs | Sync and signal from Transmitter-Receiver Radar type 77A.
Ship's Head control circuit, 24 V.
Gyro Compass magstrip. True aerial bearing data. |
| Outputs | Magstrip range and relative bearing to computer. |

RESTRICTED

BR 333(1)
Original

HANDBOOK

BR 2321

ESTABLISHMENT LIST

C 1265

INSTALLATION SPECIFICATION

Radar Type 1000 series → B82