

# RESTRICTED

BR 333(1)  
Original

## DISPLAY OUTFIT JP3

JP3

### SUMMARY OF DATA

#### PURPOSE

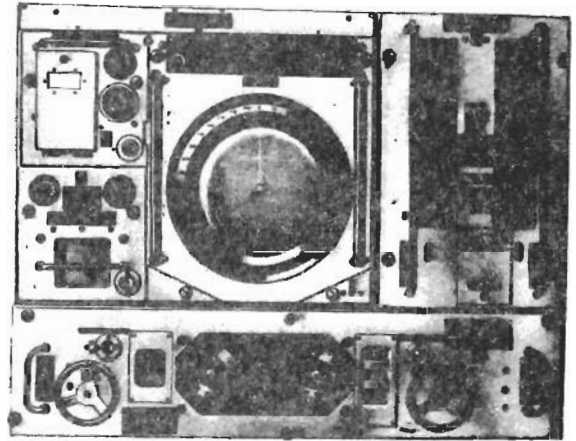
Display Outfit JP3 is a P.P.I. Display for use with a submarine warning radar and is designed to transmit range and relative bearing to a torpedo computer.

#### BRIEF DESCRIPTION

The Display Outfit JP3 consists of a plan position indicator associated with a Range and Bearing Unit which provides magstrip data for the Torpedo Computer. A Sector Selector Unit, mounted in the Range Bearing Unit, is part of the aerial outfit and is housed in the Range and Bearing Unit purely for convenience.

#### MAJOR UNITS

5840-AP 173040	Cabinet Indicator
5840-AP 173042	Generator Sweep
5840-AP 172291	Mixer Unit
5840-AP 173041	Indicator Plan Position
5840-AP 173044	Range and Bearing Unit
5840-AP 173045	Cabinet Control Power Supply
5840-AP 173046	Power Supply
AP 204150	Servo Amplifier Mk. 4 A.C.



DISPLAY OUTFIT JP3

#### 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.  
200 V d.c. or 240 V a.c. 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 JP3 - 450 W

#### ELECTRICAL CHARACTERISTICS

Type of Display	8 inch diameter P.P.I. True North stabilised at 12 o'clock.
Ranges 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 Ships Head control circuit, 24 V Gyro Compass magstrip. True aerial bearing data.
Outputs	Magstrip range and relative bearing to computer.

#### HANDBOOK

BR 2321

#### ESTABLISHMENT LIST

1266

#### INSTALLATION SPECIFICATION

Radar Type 1000 series - B 821