

**BEARING RESOLVER OUTFIT PAB**

**PAB**

**SUMMARY OF DATA**

**PURPOSE**

To receive mag slip bearing information from a radar aerial and convert this information into a two phase signal suitable for feeding to remote fixed-coil P.P.I. displays.

**BRIEF DESCRIPTION**

A 400 Hz mag slip link is used for transmission from the radar aerial to the Bearing Resolver Outfit and the output from the latter is in the form  $A \sin \theta$  and  $A \cos \theta$  where  $\theta$  is the angle between the aerial and a fixed datum line (either true north or snips head) and A is a constant which in this equipment is 80 volts. There is a common earth return for both phases. Normally, up to 15 display outfits of the JDA series or any number of display units with a total load impedance of not less than 13 000 ohms may be fed from one Bearing Resolver Outfit.

Early production cabinets have been modified to include a third grille, later cabinets have two grilles, as indicated in lower illustration.

**MAJOR UNIT**

Pattern 64694 Cabinet, Design 189, Bearing Resolver  
The following chassis are contained in the Cabinet:-

Pattern 64713 Phase Sensitive Rectifier Chassis, Design 5  
(2 in Number)

Pattern 64714 Oscillator Chassis, Design 11

Pattern 64715 Voltage Regulator Chassis, Design 4

Pattern 64716 Power and Resolver Chassis.

**PHYSICAL DATA**

Bearing Resolver Cabinet (containing chassis) -

Height	Width	Depth	Weight
27½ in	18½ in	15½ in	200 lb

**POWER REQUIREMENTS AND CONSUMPTION**

Main input	115 V	50-60 Hz	1φ	4.5 A
	or 230 V	50-60 Hz	1φ	2.25 A
	or 440 V	50-60 Hz	1φ	1.175 A
	or 200 V	400 Hz	1φ	2.58 A

Fan Supply	115 V	50-60 Hz	1φ	0.64 A
	or 230 V	50-60 Hz	1φ	0.32 A

Anti-condensation Heaters	115 V	50-60 Hz	1φ	0.35 A
	or 230 V	50-60 Hz	1φ	0.35 A
	or 115/230 V	d.c.		

**HEAT DISSIPATION**

600 W

**HANDBOOK**

BR 1146(1)(2)

**ESTABLISHMENT LIST**

E.1160

**INSTALLATION SPECIFICATION**

B.860

