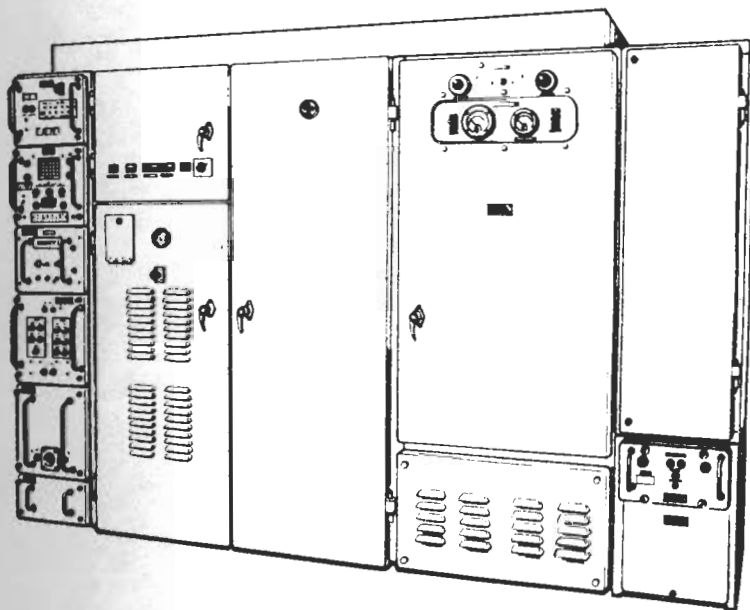


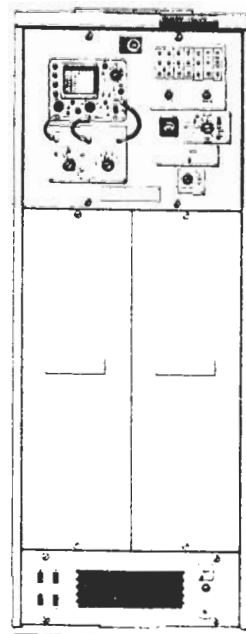
**TYPE 966**

**966**

SUMMARY OF DATA



TRANSMITTER SUITE



RECEIVER/SIGNAL  
PROCESSOR CABINET

**PURPOSE**

Air-warning, Moving-Target-Indication (MTI) radar.

**BRIEF DESCRIPTION**

The Type 966 radar system is a long range aircraft warning radar with MTI facilities. A common aerial is used via a duplexer for the Transmitter and the Receiver/Signal Processor. Remote Control facilities in the form of two Versatile Console System (VCS) type units are located in the Operations Room. The Type 966 radar system is also integrated or co-ordinated with IFF Mk 10, Radar Types 944 or 1010.

**FREQUENCY**

216-224 MHz

**WAVELENGTH**

1.4 metres (approx)

**POWER OUTPUT**

320 kW peak nominal into aerial.

**PULSE REPETITION FREQUENCY**

185 to 196 p/s

**PULSE DURATION**

10  $\mu$ s

**BANDWIDTH**

120 kHz at -3 dB points

**INTERMEDIATE FREQUENCY**

13.5 MHz

**ASSOCIATED AERIAL OUTFITS**

Aerial Outfit AKE(1) (3) Single Stack  
or  
Aerial Outfit AKE(2) (4) (5) Double Stack

**POWER REQUIREMENTS**

Transmitter: 230V 50/60 Hz, 3-phase, 3-wire, 6 KVA  
from  
415 V 50/60 Hz, 3-phase, via external transformer  
115 V 50/60 Hz 800 W (for anti-condensation heaters (ACH))  
Signal Processor: 230 V 50/60 Hz 400 W  
115 V 50/60 Hz, 150 W (for anti-condensation heaters (ACH))

**MAJOR UNITS**

<u>NSN</u>	<u>Description</u>
5840-99-531-4796	Cabinet Electrical Equipment Control and Monitor
5840-99-531-1645	Cabinet Electrical Equipment Modulator
5975-99-529-7681	Cabinet Electrical Equipment Oscillator
AP 204001	Cabinet Electrical Equipment Blower
5975-99-529-7683	Cabinet Electrical Equipment Filter
5840-99-531-4416	Cabinet Electrical Equipment Duplexer incorporating
5840-99-531-0518	Receiver (Radar)
Signal Processor:	
5840-99-531-0530	Cabinet Electrical Equipment Signal Processor incorporating
5840-99-531-0506	Frame Electrical Equipment (MTI) Frame Electrical Equipment Receiver
Remote Control Units:	
5840-99-529-7337	Radar Remote Control Unit (Versatile Console System)
5940-99-521-1664	Radar Remote Control Unit (Control Video Sector)

**HANDBOOKS**

BR 4275

**ESTABLISHMENT LIST**

S 1843

**INSTALLATION SPECIFICATION**

B 1342