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 duplex 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 REPEITION FREQUENCY
165 to 190 p/s
PULSE DURATION
10 μs

BANDWIDTH
120 kHz at −3 dB points

INTERMEDIATE FREQUENCY
13.5 MHz

ASSOCIATED AERIAL OUTFITS
Aerial Outfit AKE(1) (3) Single Stack
Aerial Outfit AKE(2) (4) (5) Double Stack

POWER REQUIREMENTS
Transmitter: 230 V 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])
230 V 50/60 Hz 400 W
115 V 50/60 Hz, 150 W (for anti-condensation heaters [ACH])

Signal Processor:
5840-99-531-0518
Cabinet Electrical Equipment Signal Processor incorporating
Frame Electrical Equipment (MTI)
Frame Electrical Equipment Receiver
Remote Control Unit:
5840-99-529-7337
5940-99-521-1664
Radar Remote Control Unit (Versatile Console System)
Radar Remote Control Unit (Control Video Sector)

MAJOR UNITS
NSN Description
5840-99-531-4776 Cabinet Electrical Equipment Control and Monitor
5840-99-531-1640 Cabinet Electrical Equipment Modulator
5975-99-529-7687 Cabinet Electrical Equipment Oscillator
AP 204000 Cabinet Electrical Equipment Signal Processor
5975-99-529-7683 Cabinet Electrical Equipment Filter
5940-99-531-4416 Cabinet Electrical Equipment Duplexer
5840-99-531-0518 Receiver (Radar)

HANDBOOKS
BR 4275

ESTABLISHMENT LIST
S 1943

INSTALLATION SPECIFICATION
B 1342

6.38

RESTRICTED