AERIAL OUTFIT AKE(5)

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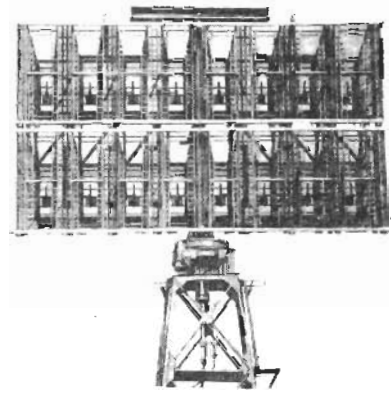
SUMMARY OF DATA

PURPOSE

Aerial Outfit AKE(5) is used with Radar Types 965 and 966 to provide long range air warning.

BRIEF DESCRIPTION

Aerial Outfit AKE(5) is a directional A9 'P' Band transmitting and receiving aerial, It is driven at a nominal speed of 7.5 rev/min and can be synchronised in rotation with other radar aerials. The aerial is not stabilised.



FREQUENCY RANGE

216 to 225 MHz

BEAM WIDTH

Horizontal 12° (approximately)
Vertical 40° (approximately)

MAJOR UNITS

NSN	Description
5985-99-529-4944	Aerial Array
5985-99-422-0818	Feeder Assembly, Pedestal Extension, Lower
5820-99-529-0181	Pedestal Unit
5985-99-529-4265	Joint, Rotating, RF Two-channel in Container
5840-99-531-1421	SlipRing Assembly (AMN fits only)
5840-99-524-2107	Integrated IFF Type 1010 Aerial (AMN)
	OR
5840-99-524-2108	Integrated IFF Type 1010 Aerial (AML)

PHYSICAL DATA

Total weight of Aerial Outfit, including IFF Aerial - 2747.5 kg (6045 lb)
Aerial Array (including feeder Assembly, Pedestal Extension Lower) - 1558 kg (3431 lb)
Pedestal Unit - 1005 kg (2208 lb)
Joint, Rotating - 102 kg (225 lb)
Slip Ring Assembly - 16.5 kg (36 lb)
IFF Aerial AMN - 66 kg (145 lb)
IFF Aerial, AML - 61 kg (134 lb)
Overall height of Aerial Outfit including IFF Aerial above platform - 5.9 m (19 ft 3 in)
Overall size of rotating Aerial Array - 8.2 m (26 ft 9 in) wide 5.1 m (16 ft 9 in), high 1.9 m (6 ft 1 in) deep

POWER REQUIREMENTS

Training Motor 440 V 60 Hz, 3 phase
Training Brake 440 V 60 Hz, 1 phase
Ship's Head Marker 24 V dc
Data Transmission Unit 115 V 400 Hz 1 phase
Retransmitter Data Bearing 115 V 400 Hz 1 phase and 115 V 60 Hz 1 phase
Air Conditioning Unit (if fitted) 440 V 60 Hz 3 phase or 230 V 50 Hz 1 phase

HANDBOOKS

BR 8535 Aerial Outfit AKE(5)
BR 4213 Aerial Outfits AML, AMN, AMM

ESTABLISHMENT LIST

S 1779

INSTALLATION SPECIFICATIONS

B 1343
B 1181