AERIAL OUTFIT AKE(5)

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 AB "Q" Band transmitting and receiving aerial. It is driven at a nominal speed of 1.5 rpm and can be synchronised in rotation with other radar aerials. The aerial is not stabilised.

FREQUENCY RANGE
216 to 225 MHz

BEAM WIDTH
Horizontal ½° (approximately)
Vertical 40° (approximately)

MAJOR UNITS

<table>
<thead>
<tr>
<th>NSN</th>
<th>Description</th>
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<tbody>
<tr>
<td>5805-99-029-6944</td>
<td>Aerial Array</td>
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<tr>
<td>5805-99-422-0818</td>
<td>Feeder Assembly, Pedestal Extension, Lower</td>
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<tr>
<td>5820-99-529-0181</td>
<td>Pedestal Unit</td>
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<tr>
<td>5805-99-529-0265</td>
<td>Joint, Rotating, RF, Two-channel in Container</td>
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<tr>
<td>5804-99-531-1421</td>
<td>Slop Ring Assembly (AMN fits only)</td>
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<tr>
<td>5840-99-524-2107</td>
<td>Integrated IFF Type 1010 Aerial (AMN) OR</td>
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<tr>
<td>5840-99-524-2108</td>
<td>Integrated IFF Type 1010 Aerial (AML)</td>
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PHYSICAL DATA
Total weight of Aerial Outfit, including IFF Aerial - 2747.5 kg (6049 lb)
Pedestal Unit - 1005 kg (2208 lb)
Joint, Rotating - 102 kg (225 lb)
Slop 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, 6.1 m (16 ft 9 in) high, 1.9 m (6 ft 1 in) deep

POWER REQUIREMENTS
Training Motor 440 V 60 Hz, 3 phase
Transmitter 440 V 60 Hz, 1 phase
Ship's Load Mains: 24 V dc
Data Transmission Unit 115 V 400 Hz 1 phase
Repeater 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 3335 Aerial Outfit AKE(5)
BR 4213 Aerial Outfits, AML, AMN, AMM

ESTABLISHMENT LIST
S 3799

INSTALLATION SPECIFICATIONS
R 1343
R 1181

Restrict