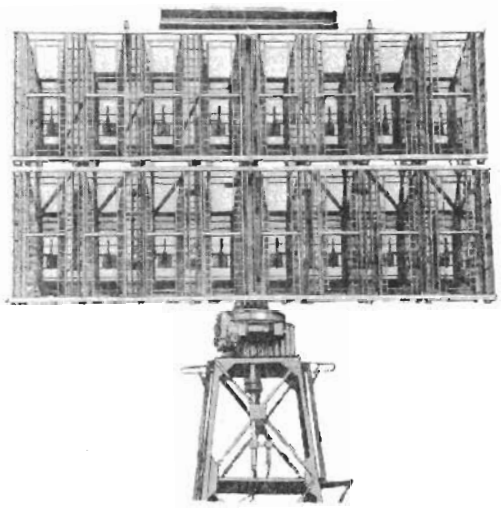
AERIAL OUTFIT AKE(2)/(4)

AKE(2)/(4)

SUMMARY OF DATA

PURPOSE

Aerial Outfit AKE(2) and AKE(4) are used with Type 965P and 966 to provide longe range air warning.



BRIEF DESCRIPTION

Aerial Outfits AKE(2) and AKE(4) are directional metric band transmitting and receiving aerials. The AKE(2) rotates at a constant speed of 10 rpm and AKE(4) at 7½ rpm. The latter speed enables other aerials to be co-ordinated with the AKE(4). Neither aerial is stabilised against ship's motions.

FREQUENCY RANGE

217 to 224 MHz.

BEAMWIDTH

Horizontal 12° (approximately)

POWER REQUIREMENTS

440 V 60 Hz	Aerial Training Motor
440 V 60 Hz	Aerial Motor Brake
50 V dc	Ship's Head Marker
230 V 50 Hz single phase or 440 V 60 Hz three phase	Air Conditioning Unit

MAJOR UNITS

AP No.	Description
AP 186241	Aerial Array
AP 186278	Feeder Assembly, Pedestal Extension, Lower
AP 186247	Pedestal Unit AKE(2)
AP 186710	Pedestal Unit AKE(4)
5985-99-520-4445	Pedestal Unit AKE(2)) on defect replacement
5985-99-520-4447	Pedestal Unit AKE(4))
AP 186384	Joint Rotating rf 2 channel in Container

The IFF Mk 10 Aerial, AT—352 UPA—22A (MSA) is integral with Aerial Array

PHYSICAL DATA

Total weight of Aerial Outfit including IFF Mk 10 Aerial	:	2487 Kg (5480 lb)(approximately)
Aerial Array (including Feeder Assembly, Pedestal Extension Lower)	:	1538 Kg (3390 lb)
Pedestal Unit	:	880 Kg (1940 lb)
Joint, Rotating, rf	:	68 Kg (150 lb)

The overall height of Aerial Outfit including IFF Mk 10 above ship's mast platform — 5.9 m (19 ft 3 in.)
Overall size of rotating Aerial Array 7.9 m (26 ft) wide, 5.0 m (16 ft 9 in.) high, 1.9 m (6 ft 1 in.) deep.

HANDBOOKS

BR 2342

U.S. Navy Department, Bureau of Ships instruction IB-739 (MSA) for IFF Mk 10 Aerial

ESTABLISHMENT LIST

E1230

INSTALLATION SPECIFICATION

B 912, B 963 (Aerial Co-ordination).
B 902 (Air Spaced Feeders)
B 960 Vol. 2 (DLGs 05—06)