

RESTRICTEDBR 333(1)
Original**AERIAL OUTFITS ALM(1)/(2)****ALM****SUMMARY OF DATA****PURPOSE**

Fin-mounted Outfits that can be used on the Surface or when the submarine is not deep enough to stream the buoy outfit. Used to receive VLF/LF transmissions, eg LORAN C at 100 kHz.

FREQUENCY RANGE

10 - 200 kHz.

BRIEF DESCRIPTION

The Antenna and Head Amplifier are mounted in the fin, and a special purpose Cable passes the received signals from the amplifier to Aerial Control and Termination Outfit EUA(1)(2)(3) in the submarine. The antenna consists of two ferrite-Cored loops, accurately located at right angles to each other, giving P/S and F/A Coverage. ALM(2) has two pressure transducers: one for depths from 0 to 50 ft, the other from 50 to 800 ft. ALM(1) has only one pressure transducer, from 0 to 50 ft.

MAJOR UNITS

	ALM(1)	ALM(2)
Antenna	5820-99-972-4571	5985-99-519-8547
Amplifier, Head	5820-99-972-4576	5895-99-972-4077
Cable Assy., R.F.	5995-99-520-0899	5995-99-520-0899
or Cable Assy., R.F.	5820-99-972-4572	5820-99-972-4572
Cable Assy., Special Purpose	5895-99-972-4171	5895-99-972-4171

OPERATING MODES

The outfits have two modes of operation, dependent on the depth.

- (a) BROAD-BAND Mode. At depths between 0 and 25 ft., the outfit operates in the VLF/LF band, 10 - 200 kHz.
- (b) VLF Mode. With increasing depth, auto Switching occurs at 25 ft, to give operation in the VLF band 10 - 40 kHz. Manual Switching is also available.

HANDBOOK

BR 2475

E LIST

1419

INSTALLATION SPECIFICATION

B986