

**RESTRICTED**BR 333(1)  
Original**AERIAL OUTFITS ALK(2)/(3)****ALK****SUMMARY OF DATA****PURPOSE**

Buoy mounted Outfits for the reception of VLF/LF transmissions, navigational or broadcast.

**FREQUENCY RANGE**

10 - 40 kHz ALK(2)  
10 - 200 kHz ALK(3)

**BRIEF DESCRIPTION**

The buoy is streamed from the submerged submarine to any required depth. The Antenna and Head Amplifier are mounted in the buoy. Signals are passed from the amplifier to Aerial Control and Termination Outfit EUA(1)/(2)/(3) in the submarine. The antenna consists of two loops giving port/starboard (P/S) or fore/aft (F/A) Coverage.

**MAJOR UNITS**

	ALK(2)	ALK(3)
Antenna Assembly	5895-99-519-8937	5985-99-924-5073
Antenna Sub-Assembly	5985-99-521-3312	-
Amplifier, Head	5985-99-519-7947	5895-99-972-4077
Pressure Transducer	5895-99-519-1176	-
Cable Assembly	5995-99-924-7736	5895-99-972-4076

**OPERATING MODES**

Outfit ALK(3) has two modes of operation, dependent on 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**

1286

**INSTALLATION SPECIFICATION**

B1147 - ALK(3)  
B916(R2) - ALK(2)

**RESTRICTED**