

Chapter 3 INSTALLATION

3.1 ANTENNA

3.1.1 Antenna Site

Following instructions shall be noted for antenna installation to minimize disturbance on direction measurement, since the performance of a short wave direction finder is vulnerable to the influence of conductive bodies nearby. (e.g., upper structure, stay cables, derricks and other antennas.)

- (1) The separation between the Adcock antenna and the keel line shall be minimized.
- (2) The top of the fore mast, radar mast or the highest possible position is recommended to install the Adcock antenna.
- (3) The Adcock antenna shall be situated 2m or higher from the TX/RX main antenna. Make the horizontal separation larger than 2m from the main antenna by inserting insulators. The separation of Adcock antenna and the navigation lamp shall be larger than 1m. (Refer to Fig. 3 - A)
- (4) The Adcock antenna shall be 1m or higher than radar antenna and the horizontal separation from a tip of radar antenna shall be 0.8m or more. (Refer to Fig. 3 - B)
- (5) Keep a horizontal separation of 2m or more and vertical separation of 1m or more from a perpendicular metallic object (metallic mast, pole, etc.). If there is a metallic object higher than the Adcock antenna, keep a horizontal separation of 5m or more. (Refer to Fig. 3 - C)
- (6) When wire stays are used for the stanchion, insert insulators 1m from the stanchion. (Refer to Fig. 3 - D)
- (7) When whip antenna or like is close to the Adcock antenna, keep a vertical separation of 1m and a horizontal separation of 4m. When such separation is impossible, tilt the whip antenna. (Refer to Fig. 3 - E)

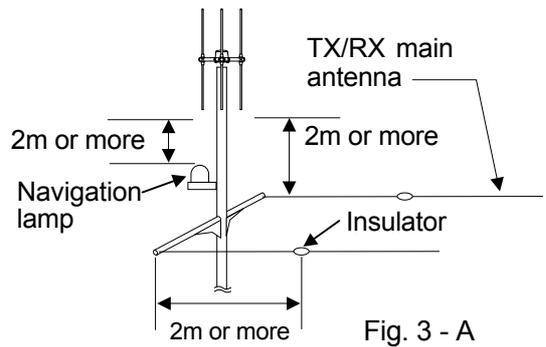


Fig. 3 - A

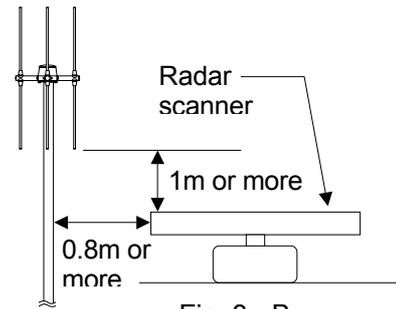


Fig. 3 - B

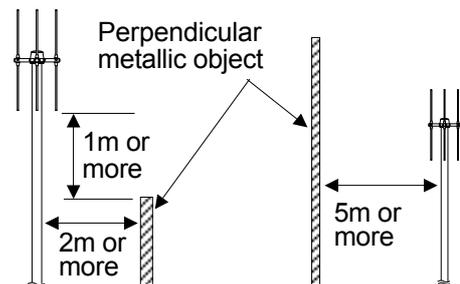


Fig. 3 - C

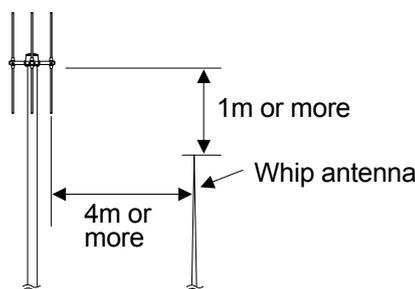


Fig. 3 - E

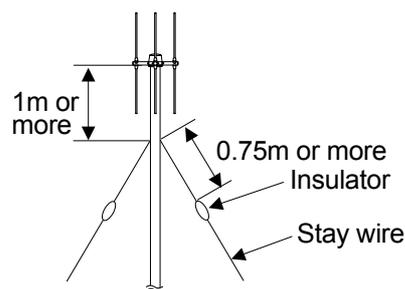
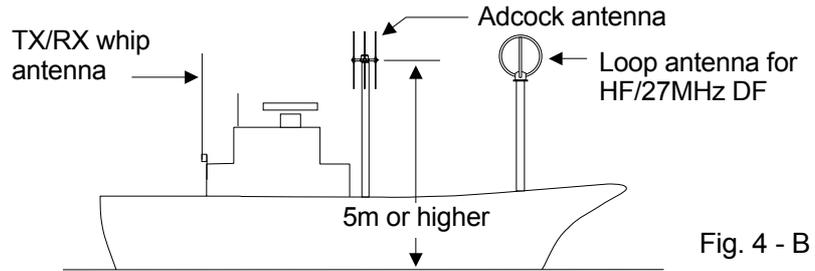
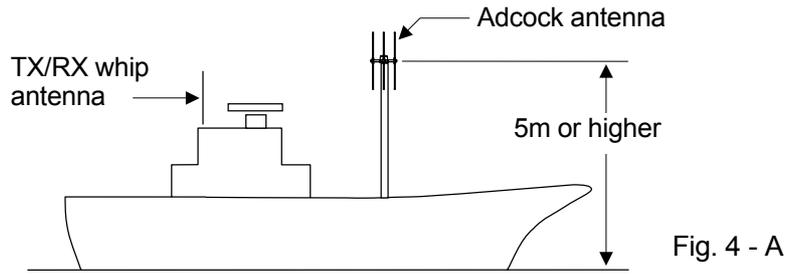


Fig. 3 - D

When an H type Adcock antenna is installed on board a small fishing boat 15m or smaller, please refer to the following figure.



When a H type Adcock antenna is installed on board a fishing boat 20 ~ 30 m long or more, please refer to the following figure.

