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VTronix ///

YHK : YWX VHF Masthead Antenna

Thank you for purchasing a Masthead Antenna. Masthead works hard to build reliability and durability into all of its products for maximum customer satisfaction. ***Before installing, please read all instructions, study the diagram and check parts supplied against those listed.***

The Masthead Antenna offers superior performance and reliability and features the unique solderless connector to make installation and servicing easier. Manufactured using the latest techniques. It is strong, flexible and very light. Features static protection.

Installation Instructions

Correct positioning is most important for the efficient operation of **ANY** VHF Antenna. Maximum reliable range is about 30% beyond the horizon, so the higher the Antenna, the greater the range. Most yachtsmen fit their Antenna on top of the mast.

1. If a wind indicator is supplied, it is easier to assemble the Wind indicator and fit it on the Antenna before installation on the mast. See separate instructions

2. Select a place clear of any other apparatus such as revolving radar aerials and rigging. Fit the bracket leading aft so that the indicator will be visible from the cockpit.

3. Use the bracket as guide and drill holes 3.5mm dia. Mark a cable entry point on the mast and drill hole 10.0mm dia.

4. Secure bracket to mast with screws supplied. Place Antenna (with assembled Wind Indicator) on bracket and secure with black nut. Ensure base is correctly slotted in bracket. Turn nut until finger tight. Use a 25mm spanner to add further ¼ turn.

5. If Wind Indicator is supplied turn the Wind Indicator Locking Block until the Reference Arms are equally disposed about the centre line of the vessel. Tighten the Side Screw firmly into the Antennas stem. As a final test, hold the nose and tail then rock the Vane to ensure that there is no movement at the Vane skirt which might allow it to rock past the Locking Piece and escape. Don't let your "Hawk" fly away! – glue the Antenna tip.

6. Ensure grommet is correctly placed on cable. Unscrew PL259 radio plug from cable end. Thread the cable through mast hole and feed down the

mast. Leave a small loop between the Antenna and the mast hole. Press the grommet fully into the hole. The cable is now firmly held in place.

7. Thread the cable out at the lower end of the mast, insert the loose grommet supplied.

8. Feed cable to the radio following the shortest possible route. Leave a short length of cable for access to the radio and cut off any surplus. Reconnect the PL259.

Importance advice:

• **The Antenna has a built-in low resistance to protect you from any static charges. Checking the cable with a DC meter will indicate short circuit**

Supplied Parts

YWX – Masthead Antenna
Cranked Bracket
20m RG58 Cable
Solderless connector
PL259

YHK – Masthead Antenna
Flat Bracket
20m RG58 Cable
Solderless connector
PL259
Wind Indicator

Tools Required:

Soldering Iron, solder, knife, wire, cutters & 25mm A/F spanner.

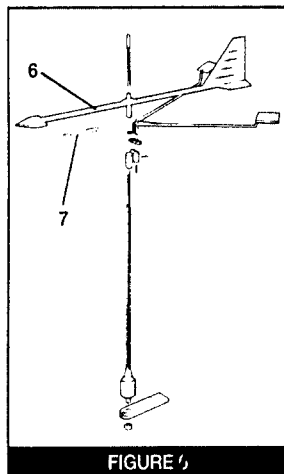
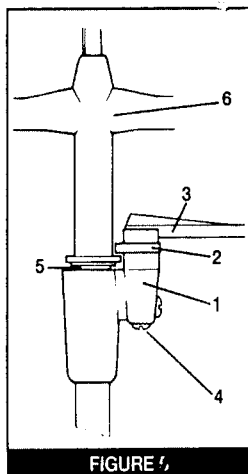


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WIND INDICATOR ASSEMBLY



The Wind Indicator kit is made up of the following parts:

- | | |
|---|--------|
| 1 off Locking Block with Side Screw. | Part 1 |
| 4 off Locking Pieces. | Part 2 |
| Three are marked for angles: 55, 60 or 65 degrees | |
| The fourth is a friction lock only for any angle | |
| 2 off Reference Arms Left and Right. | Part 3 |
| 2 off S/S Self Tapping Screws. | Part 4 |
| 2 off Washers. | Part 5 |
| 1 off Vane. | Part 6 |
| 1 off weight (clipped in Vane) | Part 7 |

Assembly Sequence:

1. Select one of the Locking pieces (Part 2) and place on top of Locking Block (Part 1). See Fig 1.
2. Place Reference Arms (Part 3) in position and secure with Screws (Part 4). Tighten the screws until all three parts are completely locked together.
3. Remove tip from Antenna and thread the Locking Block assembly, a washer (Part 5) and the Vane (Part 6), in that order, unto the whip portion. Replace the tip securely.
4. Carefully lower the three parts to the thick black lower stem, ensuring that the rim of the Vane (Part 6) is under the Locking Piece (Part 2). Push Locking Block firmly until it sits on the stem. Tighten the Side Screw **lightly** to secure the Locking

Block on the stem. It will be firmly secured during installation on the mast.

5. Check the balance of the Vane: hold the Antenna horizontally in still air and check that the Vane stays in any one position. If one end drops, adjust the position of the weight (Part 7) by sliding it along until no rotation occurs.

The Antenna assembly is now ready for fitting to the mast. See fig. 2.

SOLDERLESS CABLE TERMINATION

1. Put large 'O' ring on thumb screw.
2. Slide cable entry bush, thumb screw, cable spacer (slot end first), and small 'O' ring over cable.
3. Strip cable outer sleeve and fold braid back.
4. Screw hollow nosed bullet (clockwise) on to cable as far as possible. Some inner insulation should show at the nose of the bullet.
5. If any braid is showing at the cable end of the bullet, trim this.
6. Cut the inner insulation and conductor cleanly at the end of the bullet. Ensure that there are no loose strands of inner conductor protruding.
7. Insert bullet into base fitting of aerial and tighten up thumb screw.

