ZCG

Model

ZM312W-K

White marine AM/FM receive whip and OB mount base

660mm

AM/FM Radio Receive

AM Radio: 530 -1600 KHz

FM Radio: 87.5 -108 MHz

- Mounts to any flat metallic surface at least 0.5 metres square, such as the deck or cabin of an aluminium or steel boat
- 5 metres of white RG58 low loss stranded cable with car radio connector fitted.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

Standing 660mm tall the ZM312W white fibreglass braided whip and OB mount base is manufactured for AM and FM radio receive applications for a vessel, caravan or structure.

The whip mounts onto the supplied white OB base with 5.0m white RG58A/U cable, deisgned for a long service live with minimal maintenance in the harsh marine environment.

5 metres of white RG58A/U stranded cable bottom exits from the OB-3 antenna base fitted with a male radio connector for a plug-and-play installation. If your radio does not require the connector, simply cut the connector off and terminate your cable to your radio.

A detailed specification sheet is available to download from **www.zcg.com.au**

TUNING

The ZM312W has been manufactured and tuned to cover the AM Radio Band 530 - 1600 KHz and the FM Radio Band 87.5 - 108 MHz.

This antenna is not suitable for alternate frequencies other than stated above and this tuning cannot be altered.

SELECTING THE MOUNTING POSITION

IMPORTANT : The antenna is not ground independent and therefore must be mounted <u>on a metallic surface</u> at least 0.5 metres square for effective performance.

Typical mount positions would be on the deck or cabin of an aluminium or steel boat.

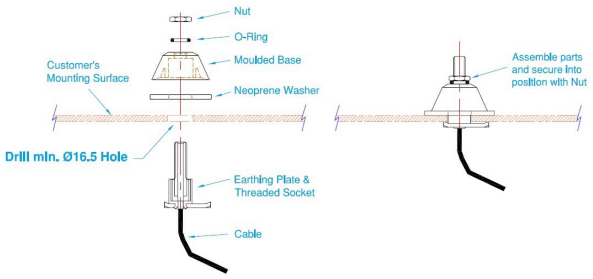
To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point:

1. ***Mount the antenna in as high a place as possible.***
2. ***Mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the 360^{o} omnidirectional pattern. At least 350 mm side clearance is desirable, preferably more.***
3. ***For optimum performance the antenna must be in a vertical position, not at an angle.***

MOUNTING THE ANTENNA BASE

The OB antenna base can be mounted through any flat metallic surface up to 5mm thick. The metal surface must be at least 0.5 metres square and acts as a ground plane for the antenna to perform at stated levels.

1. Drill a 16.5mm diameter hole through the metal surface. Remove any burrs or sharp edges as these may cause “noise”.
2. Unscrew and remove the nut on top of the white OB base, then dis-assemble all components as shown in the diagram.
3. From underneath, push the mounting leg through the hole.
4. From above, replace the rubber gasket, base cap, washer and nut in that order.
5. The rubber gasket will provide a waterproof seal. However, for the marine environment we do recommend that you also use a good sealant, such as silicon, to reduce the likelyhood of water ingression inside your structure and to reduce rust or corrosion setting in.
6. Tighten the top nut to firmly secure the base in position.
7. Screw the white whip onto the 5/16”–26 brass thread on top of the OB mounting base.



ROUTING THE CABLE

IMPORTANT : <u>Leave some slack</u> in the cable at the point where the cable bottom exits from the base. This will ensure that there is no unnecessary tension placed on the cable.

Route the RG58A/U stranded cable carefully to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks.

Use cable ties, but do not pull so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

CONNECT TO YOUR RADIO

A car radio connector has been fitted to the cable for your convenience.

Simply attach the connector to your radio.

Installation is now complete.

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Specifications are subject to change without prior notice

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