



Model

## ZM09-AMFM-B

Black radome marine

AM/FM collinear, 900mm

AM/FM Radio

Receive

530-1600 KHz & 87.5-108 MHz

- Mounts to MM1 or MM2 using 1"-14 UNS thread
- 5 metres of white RG58 stranded cable.
- FME female fitted to cable, FME male to AM/FM adaptor supplied

## INSTALLATION GUIDE

[www.zcg.com.au](http://www.zcg.com.au)

### ANTENNA DESCRIPTION

Standing 900mm tall and factory tuned to receive AM and FM radio broadcasts while at sea, the black radomed ZM09-AMFM-B marine antenna is a single piece construction and will match the height of other models in the ZM09 marine range.

All components used are of the highest quality to ensure long term survival in the harsh marine environment. The antenna will deliver reliable performance for many years.

5 metres of RG58 cable side exits from the aluminium mount ferrule, terminated with a FME female for ease of routing your cable. A FME male to AM/FM radio male adaptor is supplied for a plug-n-play installation.

A detailed specification sheet is available to download from [www.zcg.com.au](http://www.zcg.com.au)

### TUNING

The antenna has been tuned in the factory to cover the AM radio band 530-1600 kHz and the FM radio band 87.5-108 MHz.

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

No metal ground plane is necessary for the antenna to operate effectively. 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° 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.**

### FOLD DOWN SWIVEL BASE (not included)

You can choose between the MM1-B black toughened plastic fold down mount or MM2-B black finish 316 grade stainless steel fold down base. Both of these bases include a 1"-14 UNS thread on the top which mates with the thread in the chrome mount ferrule of your antenna.

Alternatively the MM1 white toughend plastic and MM2 polished 316 stainless steel bases are available.

Both of these fold down mounts are adjustable in two directions and also swivels in the opposite plane by loosening the stainless steel pivot bolt. This versatility allows the antenna to be mounted in a variety of positions on any flat surface and at any angle using four screws or bolts.

Use the base as a template to mark the position of the 4 holes required to secure the deck mount base.

ZCG recommend using high quality stainless steel fastening screws or bolts, depending on your mounting surface.

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### INSTALLATION GUIDE

Remove the bolt and washer from the base of the parallel spring and off the cable. From above, insert the threaded spring base through the hole of your mounting bracket. Insert the cable through the washer and nut and screw onto the threaded base of the spring base. Tighten the nut to firmly secure the antenna to the bracket.

**IMPORTANT : Leave some slack in the cable at the point where the cable exits the mount ferrule. This will allow the antenna to flex in the usual manner during travel without placing unnecessary tension on the cable.**

Route the FME female terminated RG58 cable carefully to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks. Avoid high heat locations such as engine rooms that could cause detrimental heat damage to the cable. We also recommend routing your cable away from possible causes of electrical interference, such as electric fans or fuse boxes.

Use 316 grade stainless steel cable ties in the marine environment. Utilise a stainless steel cable tie tension tool to ensure the correct amount of tension is applied. Overtighten cable ties can damage a coaxial cable, this can result in high VSWR and reduced performance.

Screw the supplied FME male to AM/FM radio male adaptor onto the FME female termination and insert into the socket on your radio.

For high dust or possible moisture locations, ZCG recommend water/dust proofing your terminations using amalgamation butyl rubber tape and a top layer of PVC tape.

**Installation is now complete.**



FME female fitted onto coaxial cable



FME male to AM/FM Radio male adaptor - supplied



MM1-B toughend black plastic base - not supplied



MM2-B black finish 316 stainless base - not supplied

Specifications are subject to change without prior notice

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