ZCG

Model

B20G-N-AMFM

Marine Mast or Side Mount
Antenna, 3.4 metres tall

AM/FM Radio
Receive

530 KHz to 108 MHz

N-Female connector at base of the stainless steel mount tube

Mounts to the mast of a vessel, or side mount to the wheelhouse or any other flat vertical surface.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

To boost AM and FM radio reception while at sea, the ground independent B20G-N-AMFM mast mount antenna offers superb performance. Alternatively, this model can be side mounted from a wheelhouse or any other flat vertical surface.

The white fibreglass tapered radome and stainless steel mount tube stands 3.4 metres tall. An N-female connector is located at the base of the mount tube.

All components used in construction are of the highest quality to ensure the antenna will survive in the harsh marine environment for many years.

The B20G-N mast mount model for VHF 156-162 MHz communications is identical in appearance.

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

TUNING

The antenna tune has been optimised in the factory to receive AM Radio, 530 to 1600 KHz and FM Radio, 88 to 108 MHz.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

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 radiation pattern. At least 350 mm side clearance is desireable, preferably more.***
3. ***For optimum performance the antenna must be in a vertical position, not at an angle.***

To broaden your choice of mounting positions, both mast mount or side mount clamps are available.

For mounting to a mast, **2 x EB1SS** stainless steel parallel clamps are recommended for a round mast between 20 mm and 50 mm in diameter. Take care not to over-tighten the clamps beyond reason.

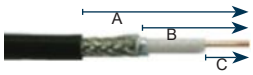
For mounting to the side of a wheelhouse or any other vertical flat surface, use **2 x NSM-CL3642** nylon side mounts which include □ □BSW stainless steel fasteners.

Drill a 12.7 mm (□ □) diameter hole through the wall for the stainless steel bolt and then firmly secure each side mount in position. The antenna mount tube is held tightly by the 8 mm stainless steel clamp bolt.

PREPARE THE FEEDER CABLE

RG58 low loss stranded cable is recommended for use as a feeder cable. To reduce signal loss, the cable should be kept to the shortest length necessary.

The □**7933**" N-Male crimp connector is available to fit RG58 cable. The proper trim dimensions are :



A = 14.2 mm
B = 6.7 mm
C = 3.5 mm

Attach the N-Male connector to the antenna□s N-Female connector located at the base of the mount tube. Route the feeder cable to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks.

If using cable ties, then we highly recommend the stainless steel type for the harsh marine environment.

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

CONNECT YOUR RADIO

Cut the cable to the shortest length necessary, prior to fitting the appropriate connector for your AM/FM radio. If using our □**7966**□ easy fit solderless car radio connector, follow these steps :

1. Unscrew the black cap and disassemble all connector components.
2. Thread the black cap onto the coaxial cable.
3. Carefully strip the end of the coaxial cable as shown in the diagram and fold the braid back over the jacket.

A = 7.0 mm
B = 5.0 mm

4. Place the retention clip over the end of the cable and exposed braid, then squeeze the fingers into the cable jacket to hold the clip secure.
5. Loosen the screw in the white centre pin piece, insert the centre conductor wire into the pin and tighten the screw.
6. Move the black cap up the cable and over the retention clip.
7. Thread the metal outer body piece over the inner white centre piece.
8. Screw the black cap and connector outer body together finger tight.

SEALING CONNECTIONS

For the marine environment, it is vital that all connections be well sealed with at least two layers of self-amalgamating tape to prevent ingress of moisture. PVC or electrical tape will not be adequate.

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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