ZCG

Model

GID-M410

Elevated Feed Ground Independent Mobile Antenna, Black Tip, 93 cm

UHF 400-420 MHz 6.2 dBi Gain

- Includes detachable stainless steel whip.
- Recommended for vehicle bull bar, guard, the boot of a sedan or truck mirror.
- Mounts into any bracket with minimum 12.7 mm (½") diameter hole.
- 4.5 metres of RG58 low loss stranded cable.
- UHF male solder connector supplied, not fitted.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

Manufactured in Australia by ZCG, the GID-M410 elevated feed ground independent UHF mobile antenna offers effective performance with 6.2 dBi gain.

GID-M series antennas have a detachable stainless steel black powder coated whip with phasing coil.

The modest size and light weight design makes this antenna an excellent choice for mounting in various positions on a vehicle or to a truck mirror using the appropriate bracket.

4.5 metres of RG58 low loss stranded cable bottom exits through the mount base. Cut the cable to the shortest length necessary prior to fitting the UHF male solder connector provided.

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

TUNING

The antenna has been tuned in the factory to cover the UHF frequency range 400 to 420 MHz.

VSWR has been optimised to better than 1.5:1 across the full band.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

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

Typical mounting positions for this antenna are to a vehicle bull bar or guard, the boot of a sedan or truck mirror using the appropriate bracket with minimum 12.7 mm (½") diameter hole.

The antenna can also be mounted in locations other than on a vehicle.

The high quality brass, delrin, chrome and stainless steel components also make the antenna perfectly suited for use in the harsh marine or industrial environments.

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 desireable, preferably more.***
3. ***Mount the antenna vertical, not at an angle.***

INSTALLATION GUIDE

Remove the nut and washer from the threaded base and slip them off the cable. Pass the cable through the hole of your mounting bracket.

Thread the washer and then the nut back up the cable and onto the threaded base.

From underneath, tighten the nut to secure the antenna firmly to the bracket.

ROUTING THE CABLE

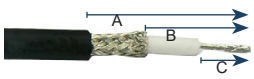
IMPORTANT : <u>Leave some slack</u> in the cable at the point where the cable bottom exits the threaded base so as not to place unnecessary tension on the cable.

Route the RG58 cable carefully to your radio. Ensure that the cable is not stretched excessively and there are no sharp kinks. Avoid high heat areas in the engine bay.

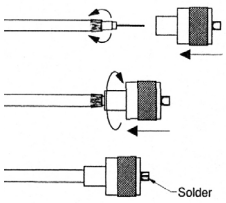
Use cable ties, but do not pull so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

FITTING THE CONNECTOR

We recommend that you cut the cable to the shortest length necessary, prior to fitting the UHF male connector provided. Carefully strip the end of the coaxial cable as shown in the diagram.



A = 20.0 mm
B = 15.0 mm
C = 13.0 mm



1. Fold back the uncovered braid over the outer jacket.
2. Screw the UHF male connector over the braid until tight. Trim any exposed braid.
3. Solder the centre core of the cable to the connector pin. Remove any excess solder.

Attach the connector to your radio. The maximum input power rating is 50 watts.

Installation is now complete.

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Specifications are subject to change without prior notice

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