ZCG SCALAR

CB RADIO ANTENNAS

Model

TCMA675

Ground Independent Mobile Antenna
2.2 metres tall

477 MHz UHF CB Radio 8.1 dBi Gain

Recommended for a vehicle bull bar

Mounts into any bracket with minimum 12.7 mm (ï ") diameter hole.

5 metres of RG58 low loss stranded cable.

UHF male solder connector supplied, not ýtted.

20 watts maximum input power.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

The **TCMA675** UHF CB radio antenna offers 8.1 dBi gain, providing the maximum reception range available in a vehicle mounted UHF CB antenna.

At 2.2 metres tall, the antenna is designed to mount to a vehicle bull bar only. Due to size, mounting this antenna to the vehicle guard, boot or mirror is not practical.

Suitable for all Uniden, GME, Icom and Vertex UHF CB radios, the high quality components and construction ensures a long service life even in the harsh Australian environment.

The mount ferrule is chrome plated brass with a heavy duty stainless steel parallel spring and tapered white ýbreglass radome.

5 metres of RG58 low loss stranded cable side exits from the aluminium mount ferrule and is not terminated to allow easy installation through vehicle ýrewalls and dashboards.

A UHF male solder connector is supplied, not ýtted.

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

TUNING

The antenna has been tuned in the factory for 477 MHz UHF CB Radio. VSWR has been optimised to better than 1.5:1.

This tuning cannot be altered.

MOUNTING POSITION

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

The mounting position for this antenna is to your vehicle bull bar using a bracket with minimum 12.7 mm (Ì ò) diameter hole.

If required, the **BBM-SS** stainless steel bull bar bracket is available to order separately.

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

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 distortion of the 360º omnidirectional pattern and interference. At least 350 mm side clearance is desireable, preferably more.***
3. ***Mount the antenna vertical, not at an angle.***

INSTALLATION GUIDE

Remove the bolt and washer from the parallel spring. From underneath, insert the bolt and washer through the hole of your mounting bracket. Screw the bolt into the thread of the spring. Tighten the bolt to ýrmly secure the antenna to the bracket.

IMPORTANT : <u>Leave some slack</u> in the cable at the point where the cable exits the chromed brass ferrule. This will allow the antenna to þex in the usual manner during travel without placing unnecessary tension on the cable.

Route the RG58 low loss 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 them so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

We recommend that you cut the cable to the shortest length necessary, prior to ýtting 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 is 20 watts.

Installation is now complete.

ZCG Scalar, Head Ofýce, 1 Hall Street, PO Box 7, Lindenow, Victoria, 3865, Australia
Telephone (03) 5157-1203, Fax (03) 5157-1641
sales@zcg.com.au
www.zcg.com.au