



Model

MAG-AMFM

Magnetic base AM/FM
radio receive whip

AM Radio
530-1600KHZ
FM Radio
87.5-108MHZ

- Requires metallic mounting surface.
- 4.5 metres RG58 low loss stranded cable.
- Belling Lee L1666 male supplied, not fitted

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

The MAG-AMFM magnetic base whip is intended for short-term/temporary use for AM/FM Radio receive.

The magnetic base mounts simply onto any flat metal surface. Easy to set-up, easy to remove and the detachable whip makes the antenna easy to store when not required, or overall height exceeds vehicle clearance.

The 105mm diameter magnetic base is manufactured from black steel outer, internal medium-duty magnet with scratch reduction pad. The fibreglass whip will screw onto the 5/16"-26TPI thread on top of the OB Australian standard base.

The antenna is supplied with a 4.5 metre RG58 low loss stranded cable set side exiting from the magnetic base. A 8676 Belling Lee male connector L1666 connector is supplied, not fitted. Alternate connectors are also available to suit your requirements.

The 7966 car radio connector is the standard in-vehicle connector, order separately.

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

TUNING

The antenna is tuned in the factory for AM/FM Radio receive.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

Typical mounting positions for this antenna are to your vehicle roof or boot.

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

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

ANTENNA INSTALLATION

Clean the mounting surface from all debris that may cause surface damage. Ensure your surface is magnetic capable. Mount your magnetic base in intended location and then install whip onto base. Ensure height does not impede movement of vehicle.

Route the RG58 low loss cable carefully. Avoid high heat areas in the engine bay. 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.

Fit the supplied connector to the cable and insert into AM/FM radio device.

If poor signal occurs, check termination contact between braid and connector outer sleeve, this is where failure occurs.

Also check signal strength of in-coming signal. Not all areas will receive AM/FM radio signal, this may be due to high density buildings, mountainous locations blocking signals as well as no signal broadcasted into low population density locations.