

## TUNING INSTRUCTIONS

### INSTALLATION

#### 1) Hole mount installation

**A) Hole Drilling:** Choose the position on your vehicle (centre roof is recommended) and drill a hole according to the mount diameter. Please ensure a good electrical ground contact is made.

**B) Connections:** Position the cable in your vehicle shortening its length according to your needs. Connect the PL259-male to the cable ready for the connection to the transceiver.

**C) Electrical Tests:** Ensure there is no short circuit between the central pin and the nut of the connector. Ensure there is electrical continuity of the cable from the central pin (connector side) to the central contact (antenna side). Ensure there is electrical continuity of the cable from the nut (connector side) to the ground (antenna side).

**REMARKS:** As some antennas are in short circuit and it would be impossible to do the test after the installation, we recommend you test the cable prior to connecting the antenna.

**D) Installation:** Pay attention to securing all screws and nuts during the final installation.

**E) Suggestion:** After the final installation and BEFORE connecting your transceiver, we recommend an electrical continuity check between the nut of the PL259 and the ground of your vehicle.

**2) Special mounts installation:** Follow the same instructions of Point 1.

**3) Magnetic mount installation:** Follow the instructions supplied with the magnetic mount.

### TUNING

Removing the rubber cap cut the antenna 1cm at a time till you have the desired result. Replace Rubber cap

A) To perform a correct test, move to an open space far from metal parts such as metal doors, buildings, towers, gates etc. at minimum 50 metres or more.

B) Connect your SWR-meter between the antenna connector and your CB transceiver (follow the instructions of your SWR-meter for the correct use to your equipment).

C) The following procedure is used for the tuning of the 40 channels CB-band Radio in the range of:

**CH-1 = 26.965 MHz to CH-40 = 27.405 MHz with CH-19 = 27.185 MHz** as centre band for **AUS Frequencies**.

Select CH-1 on your CB-transceiver and take an SWR measurement, writing down the results. **Transmit only for a few seconds because in case the SWR is too high the transceiver could be damaged.**

D) Repeat the procedure for CH-19 and CH-40

E) If all SWR results are very high (more than 3) probably there's a short circuit in the cable or your antenna is defective. **To avoid damages to your CB transceiver DO NOT use it until the problem is rectified.**

F) If the SWR results are the same on CH-1 and CH-40 and the lower value is on CH-19, your antenna doesn't need any tuning.

G) If the SWR result on CH-1 is lower than CH-40 your antenna is electrically **TOO LONG** and you should slightly cut the radiator by 10mm at a time. Avoid cutting too much. As long as you get the same values on CH-1 as well as CH-40.

H) If the SWR result on CH-40 is lower than CH-1 your antenna is electrically **TOO SHORT** and you need to pull out the radiator as long as you get the same values on CH-1 as well as CH-40.

# BNCA ML 145

## SPECIFICATIONS

### Technical Data:

Type: Base loaded 1/4 wave

Impedance: 50 Ohm

Frequency Range: 26 - 28MHz

Polarization: Vertical

Radiation: Omni

Vertical Beam Width: 12°

SWR @ freq. res.: <1.5

Max Power: 400 Watts P.E.P

Gain: 4dBi

Height (approx.): 1450mm

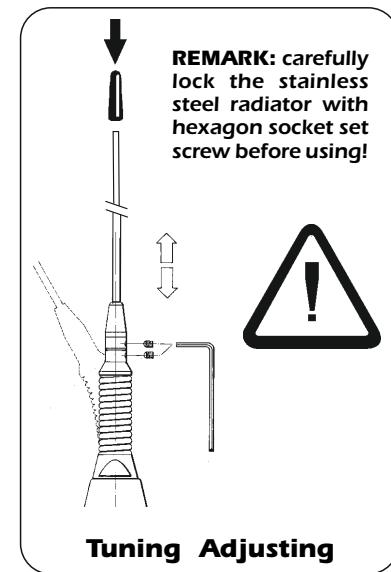
Weight (approx.): 0.5g

Mounting: UHF (SO239)

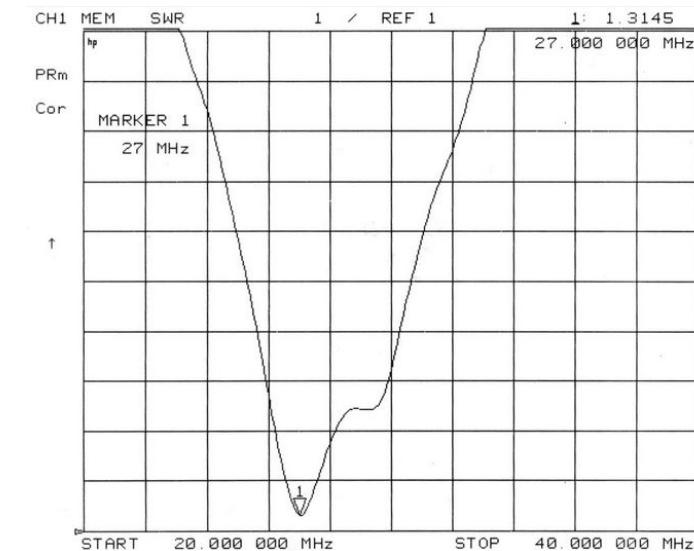
## BNCA ML 145



Mount on UHF female  
( SO-239 connector)



BNCA ML 145



## Installation Manual