

# 2m/70cm Dual-Band Compact High Performance Mobile Whip Antenna

## CR-77

### OPERATING INSTRUCTIONS

#### Description

1. The CR-77 is a very compact mobile gain whip antenna which covers 2m and 70cm bands.
2. The antenna is designed to go well with refined contemporary car design.

#### Adjustment

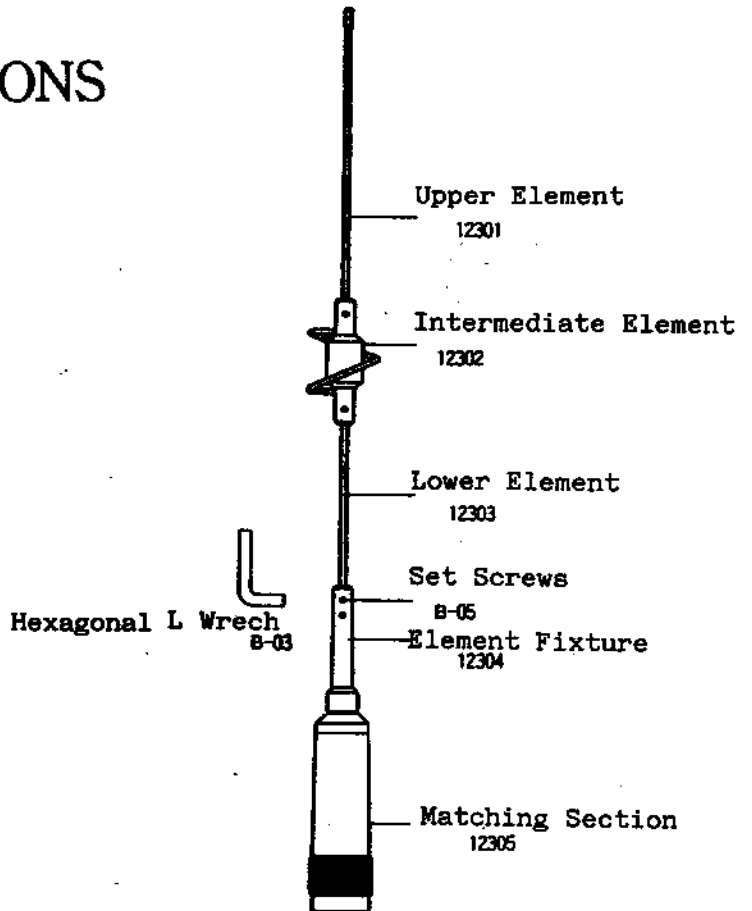
The CR-77 is factory adjusted to operate on both 2m and 70cm bands without any modification. If frequency coverage of the antenna has to be shifted to operate on such frequency as MARS band, the antenna can be realigned by putting whip element in and out from the whip element holder section. In order to align the antenna, loosen two set screws at the top of the element holder section by hexagonal wrench attached and put the element in and out to have lowest vswr at desired frequency. Be sure to fasten two set screws firmly after adjustment. Since vswr on 2m band varies on the installation location, be sure to install on the place where lowest vswr can be achieved.

#### Specifications

- Frequency : 144-146MHz  
430-440MHz
- Gain : 2.15dBi (on 2m and 70cm bands)
- Max. power: 100W
- Impedance : 50 ohms
- VSWR : Less than 1.5:1
- Length : 0.29m (11.4")
- Weight : 90g (0.20 lbs.)
- Connector : UHF male
- Type : 1/2 wave gain whip antenna (430MHz)  
1/4 wave whip antenna (144MHz)

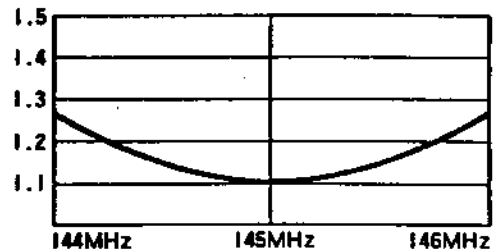
#### Part name (number)

- 12301 Upper whip element
- 12302 Phase inductor
- 12303 Lower whip element
- 12304 Whip element holder
- 12305 Impedance matching section
- B-03 Hexagonal wrench
- B-05 Set screw

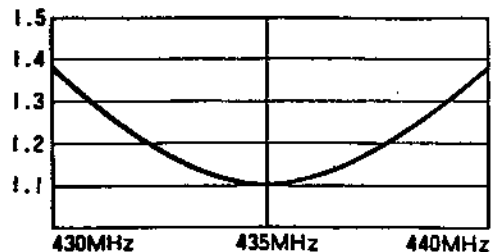


#### ● V.SWR CHART

144MHz BAND



430MHz BAND



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