

**2m/1-1/4m/70cm Tri-Band Mobile Gain whip Antenna
Fold Over Whip Structure**

CR320A

OPERATING INSTRUCTIONS

Description

1. Fold over whip structure permits the antenna to be tilted for any direction.
2. The antenna is designed to go well with contemporary car design.
3. High performance on 2m with 1/4 wavelength, 1-1/4m with 1/2 wavelength C-Load radialless and 70cm with two 5/8 wavelength phased element radialless structures.
4. The antenna can be used to operate on all three bands simultaneously by using optional antenna triplexer.

Adjustment

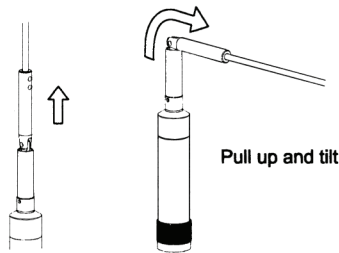
The CR320A antenna is factory adjusted on all three bands. Due to its rather complicated triband structure, the antenna is not allowed to readjust by users.

Assembling

Be sure to confirm the package before assembling the antenna.

To tilt the antenna

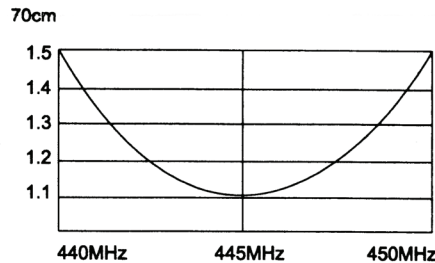
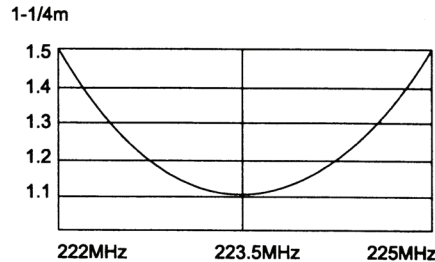
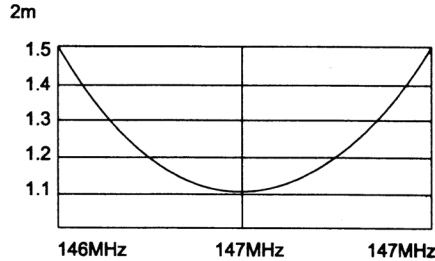
If the antenna has to be tilted in order to park the car in a garage, pull the antenna up at fold over whip section and incline it for desired direction. Be sure not to drive the car with the antenna tilted



Note

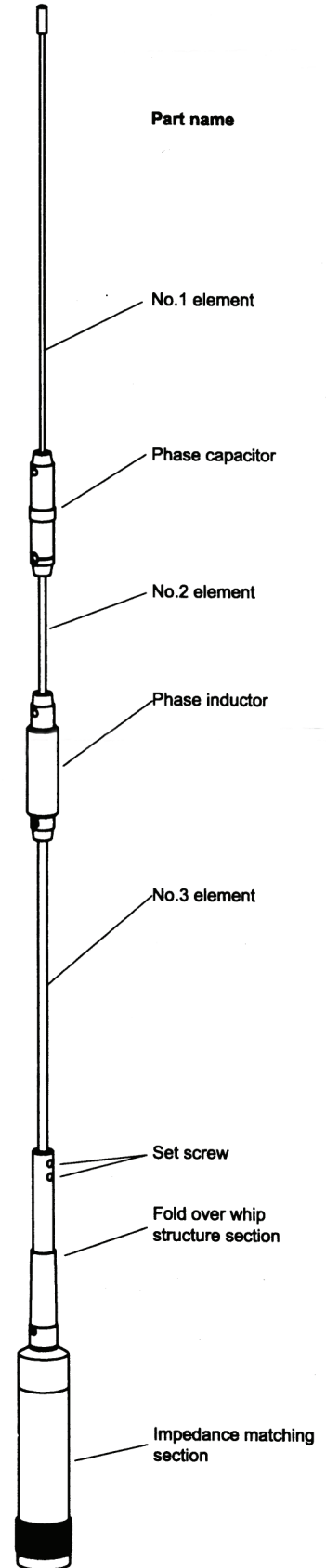
1. Since the antenna is not radialless structure on 2m band, an antenna bracket is required to be grounded.
2. Since set screws in the antenna may be loosened due to the vibration during driving, be sure to fasten those screws from time to time after several drives especially if the antenna is right off from the package.
3. Since the antenna is DC ground structure, lower whip element and ground section of impedance matching section are conducted and lower whip element and center conductor of impedance matching section are isolated.

VSWR charts



Specifications

Frequency	:146-148MHz,222-225MHz 440-450MHz
Gain	:2.15dBi(2m),3.8dB(1-1/4m), 5.5dB(70cm)
Max. power rating	:200W(2m),100W(1-1/4m), 200W(70cm)
Impedance	:50ohms
VSWR	:Less than 1.5:1
Length	:0.95m(37.4")
Weight	:270g(0.59lbs.)
Connector	:UHF
Type	:1/4-wavelength(2m), 1/2-wavelength C-Load radialless(1-1/4m), Two 5/8-wavelength phsed element radialless(70cm)



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5340 BBS Way | Braselton, GA 30517 | (770) 614-7443

www.diamondantenna.net