

OPERATION MANUAL

DP-NR2C 2m Band C-Load Radialless Mobile Gain Whip Antenna With Omnidirectionally Tilttable Whip Element Structure.

Description

1. The DP-NR2C employs radialless structure Which does not require any ground. This structure enables the antenna to perform well as an antenna for temporary fixed station, bicycle or handheld transceiver.
2. The C-load structure of the antenna enables to achieve 4.1 dB gain which is almost equal to the one with 7.8 wave length element, with relatively short 1.41m element length.
3. Rigid 17.7 PH stainless steel is used for upper element and suitable diametrical stainless steel element is used for lower element to balance the antenna and to avoid undesirable OSB or sensitivity changes caused by element vibration.
4. The omnidirectionally tilttable whip element structure enables the antenna to be tilted for any direction with a touch of the finger tips. It also eliminates troublesome antenna removal when your car is parked in a garage.
5. The antenna is designed to go well with refined contemporary and future car design.

Assembly

Unscrew a set screw at the top of the phase capacitor section of lower whip element with hexagonal wrench and put upper whip element into it as shown in the below figure.

Installation

Since the DP-NR2C employs radialless structure, it performs perfectly whatever place it is installed on a car. For installing the antenna, use DIAMOND'S genuine gutter mount, trunk rid or magnetic base for safety purpose.

Adjustment

The antenna is factory adjusted ar around the center frequency of the 2m band and does not require any adjustment in normal use. If readjustment of the center frequency is required for the MARS operation or other reasons, it can be changed by putting lower whip element in and out from the tilttable whip element structure section with reliable vswr or in-line power meter. The element can be adjusted by loosening two set screws and put upper element in and out to adjust the antenne to the desired frequency and then fasten the screws to fix the element.

To tilt the antenna

In order to tilt the antenna for parking your car in a garage and so on,pull the element at the tilttable whip element structure section and tilt it for desired direction. Do not drive the car with the antenna tilted for safety purpose.

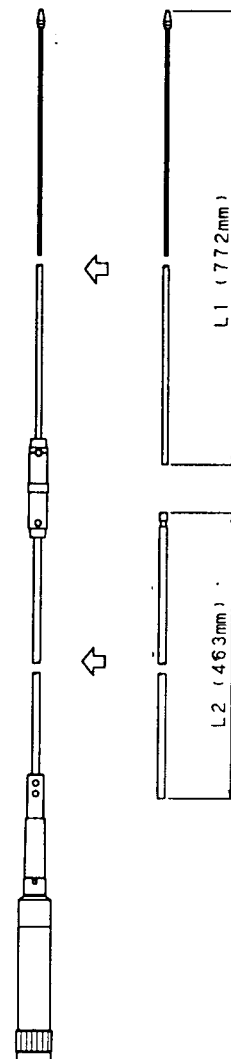
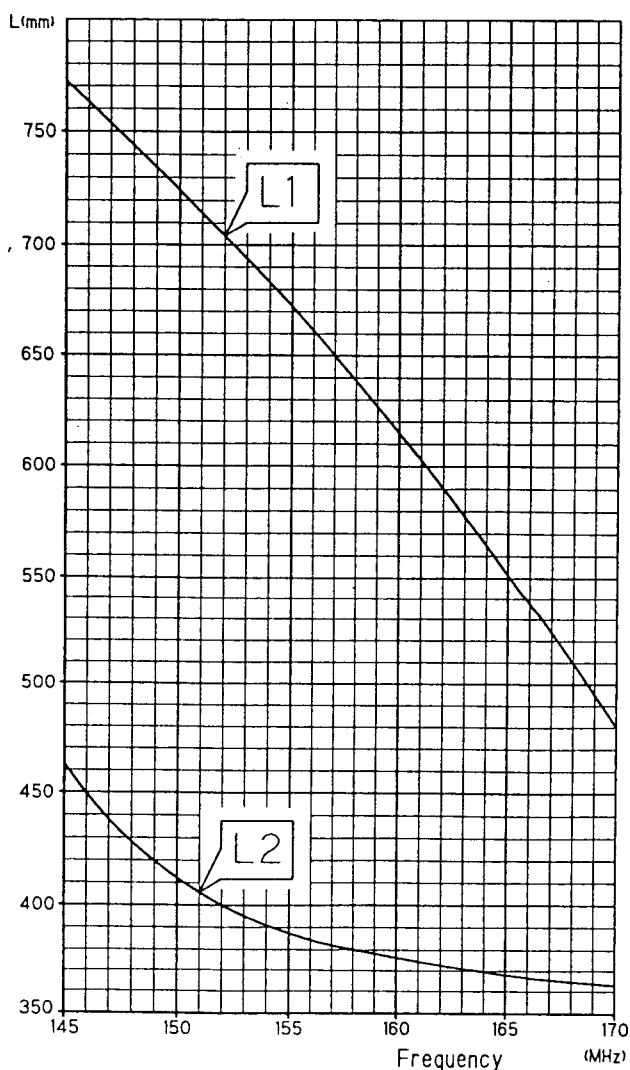
Note

Since set screws of the antenna may be loosened by vibrations during driving, especially when the antenna is new, be sure to fasten the screws after several drives.

Specifications

| | |
|-------------------|-----------------------------|
| Frequency | 144-146MHz |
| Gain | 4.1dB |
| Max. power rating | 150W |
| Impedance | 50ohms |
| VSWR | Less than 1.5 |
| Length | 1.41m (55.5") |
| Weight | 200g (0.44 lbs) |
| Connector | UHF male |
| Type | C-Load radialless gain whip |

NR-2C CUTTING CHART



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