OPERATING MANUAL

DP-NR2 2M 1/2 Wave Gain Whip Antenna With Omnidirectionally Tiltable Element Structure. (I.R. 1412570)

● Description

1. The DP-NR2 is a radialless whip antenna which works well at temporary fixed station, with motorcycle, with bicycle or with handheld transceiver.
2. Stiff 17-7 PH stainless steel is used in element material to avoid unwanted vibrations that cause QSB.
3. Despite its rather short, 1.1 m (43.3"), element length, it achieves substantial gain which is enough to compete with 5/8 wave antennas.
4. Omnidirectionally tiltable whip structure (I.R. 1412570) is employed to avoid troublesome antenna detachment when a car is parked in a garage.
5. The antenna is designed to go well with contemporary car design.

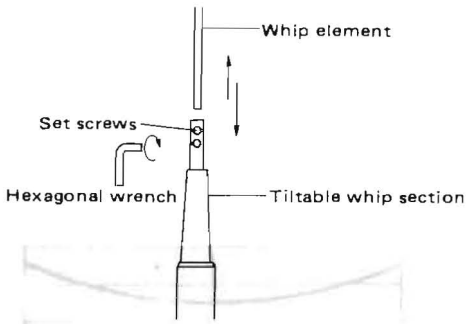
● Installation Procedure

The DP-NR2 can be installed anywhere on a car with Diamond's gutter or trunk mount bracket, or rooftop magnetic base. If the antenna is set on a bumper, mast with rooped radial element is recommended to use with it for better performance.

● Adjustment Procedure

The antenna is factory adjusted at 2 m band center frequency, so that it can be used without any adjustment.

If the center frequency of the antenna has to be changed, it can be altered by putting whip element in and out at tiltable whip section as follows;
First, loosen two set screws at the top of tiltable whip section with hexagonal wrench attached. Then put the element in and out to get lowest vswr at desired frequency. And fasten these two set screws with the wrench to fix it. (See below figure for reference.)



● To Tilt the Antenna

If the antenna has to be tilted, to park a car at a garage for instance, it can be tilted for any direction simply by pulling tiltable whip element up. Be sure not to drive with the antenna tilted for safety purpose.

● Notice

Fasten set screws after several drives after the antenna is installed on a car, especially if the antenna is brand new, since they may be loosened by vibrations.

● Specifications

Frequency	144 ~ 146 MHz
Gain	2.15 dBi
Max. Power Rating	200 W
Impedance	50 ohms
VSWR	1.5 or less
Length	1.1 m (43.3")
Weight	150 g (0.33 lbs.)
Connector	UHF
Type	1/2 wave radialless whip

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