144/430 MHz Dual Band High Performance, High Power Rating.
Radialless Mobile Gain Whip Antenna
Repeater Frequency Compatible (Spring Type)

NR-770RSP

Operation Instructions

Description

1. Since the antenna employs radialless structure on both 144 MHz and 430MHz bands, it works well at temporary fixed station, bicycle or with handheld transceiver.
2. The antenna covers entire 430 MHz band including repeater input / output frequencies.
3. Since the antenna is the spring base, it affects less shock when hitting the branch of tree.

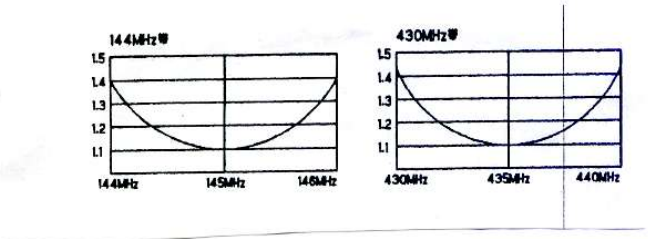
Installation

Since the NR770RSP employs radialless structure on both 144 MHz and 430 MHz band, it can be installed at virtually any place on your car.
In any case use Diamond's genuine gutter or trunk rid mount bracket or magnetic base, which is available at major ham shops for maximum safety.

How to Adjust

The antenna is factory adjustment at canter frequencies on both 144 MHz and 430 MHz bands so that it can be used as it is.
If frequency coverage of the antenna has to be altered, it depends on how much it is screwed into the spring base by using wrench..
Be sure to fasten setscrew firmly after the adjustment.

V. SWR



Specifications

Frequency	:	144-146MHz / 430-440MHz
Gain	:	2.15 dBi (144MHz) / 5.5 dBi(430MHz)
Max power rating	:	200W
V. SWR	:	Less than 1.5
Impedance	:	50 Ω
Length	:	0.97m
Weight	:	240 g
Connector	:	M
Type	:	1/2 wave radialless (144 MHz)
	:	2 x 5/8 wave radialless (430 MHz)

Note

1. VSWR of the antenna cannot be lowered if the antenna element is located very close to the car body or other antennas.
2. VSWR of the antenna may become higher depending on the quality of coaxial cable or connector. Diamond's genuine coaxial cable set is recommended.
3. The NR770RSP employs DC ground structure so that whip element and ground section (outer shell of the impedance matching section) are short-circuited, and center conductor of the feedpoint, connector and whip element are isolated.
4. Since those setscrews on whip element holder section may be loosened due to the vibration during driving, the have to be refastened from time to time after several drives especially when the antenna is right off from the package.

Parts Name (Number)

M05001	Upper whip element
M05002	Phase inductor
M05003	Lower whip element
M05004	Spring base
M05005	Impedance matching section
M05006	Setscrew
M05007	Wrench

DIAMOND ANTENNA CORPORATION
Miyata Building, No. 15-1, 1-chome Sugamo, Toshima-ku Tokyo, Japan 170-0002 TEL.03-3947-1411 FAX.03-3944-2981
Home Page http://www.diamond-ant.co.jp