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SUPER GAINER

2m/70cm DUAL BAND HIGH PERFORMANCE MOBILE GAIN WHIP ANTENNA
REPEATER FREQUENCY COMPATIBLE
OMNIDIRECTIONALLY TILTABLE WHIP ELEMENT STRUCTURE

SG7000

OPERATING INSTRUCTIONS

Description

1. THE SUPER GAINER series antennas employ our new design concept for the mobile whip antenna which emphasizes to go along well with recent aerodynamic car design.
2. Since the antenna employs radialless structure on 70cm, it can be located on any place without effecting vswr characteristics.
3. The antenna is less effected by installation place in its structure on 2m band.
4. High performance C-Load structure is used on both 2m and 70cm bands.
5. Both bands can be transmitted or one band can be transmitted while receiving another band or vice versa simultaneously by using a duplexer.
6. 24K gold plated center conductor is used in connector section of the antenna.
7. Omnidirectionally tilttable whip structure enables the antenna to be tilted for any direction by pulling the whip element section lightly. And it eliminates troublesome antenna detachment when your car is parked in the garage.

Adjustment

THE SUPER GAINER series antennas are all factory adjusted and do not require any adjustment. If center frequency of the antenna has to be altered, loosen two set screws at the top of tilttable whip section and put the element in and out to have best vswr at desired center frequency. Be sure to fasten the screws after the adjustment.

Note

1. Since the SG7000 employs DC ground structure, lower whip element and ground section (outer shell of the impedance matching section) are short-circuited.
2. Since those set screws being used throughout the antenna may be loosened due to the vibration during driving, they have to be refastened from time to time after several drives especially the antenna is right off from the package.
3. Do not drive the car with the antenna tilted, since whip element moves freely when the antenna is tilted.
4. Be careful not to be bit your finger into the tilttable whip section when the antenna is being erected.

Specifications

Gain	2.15dBi (144MHz) 3.8dB (430MHz)
Max.power rating	100W (Sum of both bands if operated simultaneously.)
Impedance	50ohms
VSWR	less than 1.5 : 1
Length	0.47m (18.5")
Weight	280g (0.62lbs.)
Connector	UHF male
Type	1/4 wave C-Load whip antenna (144MHz) 6/8 wave C-Load radialless gain whip antenna (430MHz)

Part name (number)

17601	Upper element
17602	C ring
17603	Omnidirectionlly tilttable whip section
17604	Impedance matching section
B-05	Set screw
B-03	Hexagonal wrench