

# SUPER GAINER

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

## SG7700

### 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 both 2m and 70cm bands, it works well at virtually any place on your car body. It can be located on trunk lid, roof, gutter or any place without effecting vswr characteristics.
3. High performance C-Load structure is used on both 2m and 70cm bands.
4. Both bands can be transmitted or received simultaneously or one band can be transmitted while receiving another band or vice versa simultaneously by using a duplexer.
5. 24K gold plated center conductor is used in connector section of the antenna.
6. Fold over 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 tiltable whip section and put the element in and out to have best v.swr at desired center frequency. Be sure to fasten the screws after the adjustment.

#### ●Note

1. The SG7700 employs DC ground structure, 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.
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 tiltable whip section when the antenna is being used.

#### ●Specifications.

Gain	4.3dB(2m) 6.8dB(70cm)
Max.power rating	150W(Sum of both bands if poerated simultaneously.)
Impedance	50ohms
VSWR	Less than 1.5:1
Length	1.27m(50")
Weight	350g(0.77lbs.)
Connector	UHF
Type	5/8 wavelength double C-Load radialless(2m), Two-5/8 wavelength C-Load phased element radialles (70cm)

#### ●Part name (number)

- K1801 Upper element assembly(With capacitor)
- K1802 Phase inductor
- K1803 Middle whip element
- K1804 Lower phase capacitor
- K1805 Lower wihp element
- K1806 Fold over whip structure
- K1807 Impedance matching section
- B-03 Hexagonal wrench
- B-05 Set screw

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