SUPER series

SUPER 70 (700mm height)

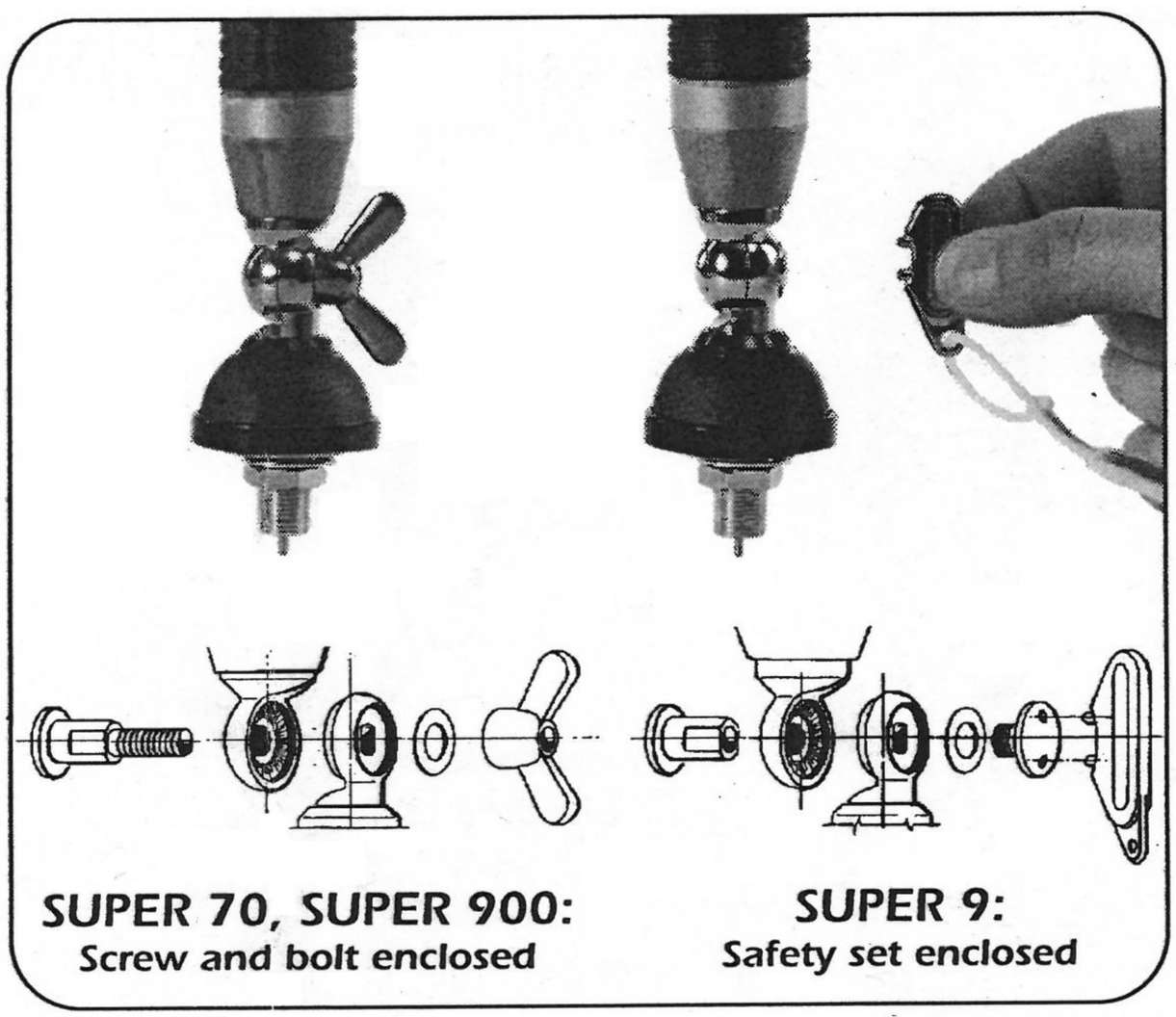
SUPER 900 (780mm height)

SUPER 9 (1550mm height)

Installation Manual

SPECIFICATIONS

Electrical Data	SUPER 70	SUPER 900	SUPER 9
Type	Base loaded		
Impedance	50 Ω		
Frequency Range	27 ... 28.5 MHz		
Polarization	Linear Vertical		
SWR @ res. freq.	≤ 1.2		
Bandwidth @ SWR ≤ 2	≥ 1200 KHz (100 channel)	≥ 1100 KHz (100 channel)	≥ 1900 KHz (170 channel)
Max Power	15 Watts (CW) continuous 150 Watts (CW) short time	15 Watts (CW) continuous 150 Watts (CW) short time	35 Watts (CW) continuous 250 Watts (CW) short time
Height (approx.)	700 mm	780 mm	1550 mm
Weight (approx.)	380 gr	450 gr	420 gr
Cable Length / Type	4m / RG 58		
Standard Mount	"N"		
Mounting Hole	Ø 12.5 mm		



SUPER 70, SUPER 900:
Screw and bolt enclosed

SUPER 9:
Safety set enclosed

INSTALLATION AND TUNING INSTRUCTIONS

INSTALLATION

1) Hole mount installation

A) Hole Drilling: Chose the position on your vehicle (centre roof is recommended) and drill a hole according to the mount diameter. Please ensure a good electrical ground contact is made.

B) Connections: Position the cable in your vehicle shortening its length according to your needs. Connect the PL259-male to the cable ready for the connection to the transceiver.

C) Electrical Tests: Ensure there is no short circuit between the central pin and the nut of the connector. Ensure there is electrical continuity of the cable from the central pin (connector side) to the central contact (antenna side). Ensure there is electrical continuity of the cable from the nut (connector side) to the ground (antenna side)

REMARKS: As some antennas are in short circuit and it would be impossible to do the test after the installation, we recommend you test the cable prior to connecting the antenna.

D) Installation: Pay attention to securing all screws and nuts during the final installation.

E) Suggestion: After the final installation and BEFORE connecting your transceiver, we recommend an electrical continuity check between the nut of the PL259 and the ground of your vehicle.

2) Special mounts installation: Follow the same instructions of Point 1.

3) Magnetic mount installation: Follow the instructions supplied with the magnetic mount.

TUNING

Most of the antennas are factory tuned and don't need any extra tuning, but in case of fine adjustments we recommend to follow the procedure below:

A) To perform a correct test, move to an open space far from metal parts such as metal doors, buildings, towers, gates etc. at minimum 50 metres or more.

B) Connect your SWR-meter between the antenna connector and your CB transceiver (follow the instructions of your SWR-meter for the correct use to your equipment).

C) The following procedure is used for the tuning of the 40 channels CB-band Radio in the range of:

CH-1 = 26.965 MHz to **CH-40 = 27.405 MHz** with **CH-19 = 27.185 MHz** as centre band for **EU Frequencies.**

CH-1 = 27.601 MHz to **CH-40 = 27.991 MHz** with **CH-19 = 27.781 MHz** as centre band for **UK Frequencies.**

Select CH-1 on your CB-transceiver and take an SWR measurement, writing down the results. **Transmit only for a few seconds because in case the SWR is too high the transceiver could be damaged.**

D) Repeat the procedure for CH-19 and CH-40

E) If all SWR results are very high (more than 3) probably there's a short circuit in the cable or your antenna is defective. **To avoid damages to your CB transceiver DO NOT use it until the problem is rectified.**

F) If the SWR results are the same on CH-1 and CH-40 and the lower value is on CH-19, your antenna doesn't need any tuning.

G) If the SWR result on CH-1 is lower than CH-40 your antenna is electrically TOO LONG and you should slightly cut the radiator by 10mm at a time. Avoid cutting too much. As long as you get the same values on CH-1 as well as CH-40.

H) If the SWR result on CH-40 is lower than CH-1 your antenna is electrically TOO SHORT and you need to pull out the radiator as long as you get the same values on CH-1 as well as CH-40.

REMARK

Some antennas can be tuned only by adjusting special rings, nuts or screws so you can follow the above procedure but you don't need to cut or extend the radiator.

Technical Data are subjected to change - Printed in ITALY - Rev. 09/09/2014 - Cod. ID419/Z