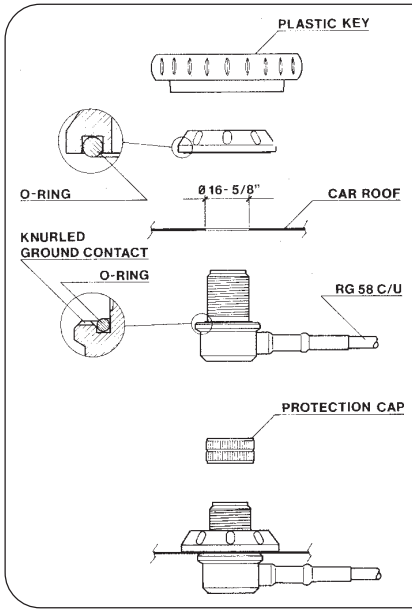
ALTERNATIVE MOUNT TYPE



HP-AC/U angular connector:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 41 mm
Mounting Hole: Ø 16 mm
Materials: Brass nichel plated, Teflon insulator, Gold plated pin
Cable: 5m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male/ UHF-male (PL259)
Antenna connection: UHF-female

P/N 2510805.00 HP-AC/U

HP MAG H 12 PL:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 92 mm
Materials: Chromed Brass, Nylon, Teflon insulator, Gold plated pin
Cable: 3.6 m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male / UHF-male (PL259)
Antenna connection: UHF-female

P/N 2511802.05 HP MAG H 12 PL

HP MAG 125 PL:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 127 mm
Materials: Chromed Brass, Nylon, Teflon i insulator, Gold plated pin
Cable: 3.6 m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male / UHF-male (PL259)
Antenna connection: UHF-female

P/N 2511202.05 HP MAG 125 PL

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HP 2000 HP 2000 C

VHF 2m Radialless Mobile Antennas

HP 2000

HP 2000 C

Installation Manual

DESCRIPTION

VHF radialless vehicular antenna working on 2m band. The very best materials have been used to guarantee the maximum strength and the best performance. The whip, made of 17/7 PH stainless steel, has an inclination system that allows the 90° tilting without using keys or tools. Also a particular attention has been paid to the UHF-male connector with a goldplated center pin, "Teflon" insulator and silicone rubber gasket for a perfect waterproofing.

SPECIFICATIONS

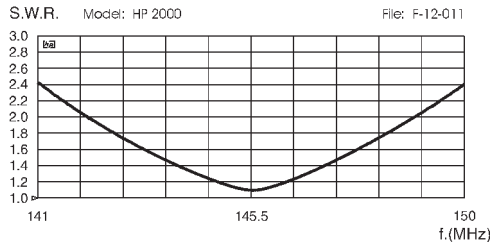
Electrical Data

Type		
HP 2000	:	1/2 λ
HP 2000 C	:	C-loaded
Design Frequency	:	145 MHz
Impedance	:	50 Ω Unbalanced
Radiation (H-plane)	:	360° Omnidirectional
Polarization	:	Vertical
Gain		
HP 2000	:	1.5 dB ref. to λ/4 whip
HP 2000 C	:	2 dB ref. to λ/4 whip
Bandwidth at V.S.W.R. 2:1		
HP 2000	:	6.9 MHz
HP 2000 C	:	20 MHz
V.S.W.R. at res. freq.	:	≤ 1.2:1
Max Power	:	150 Watts (CW) at 50° C
Feed System / Position	:	Transformer DC-Ground / Base
Connector type	:	UHF-male (PL 259)

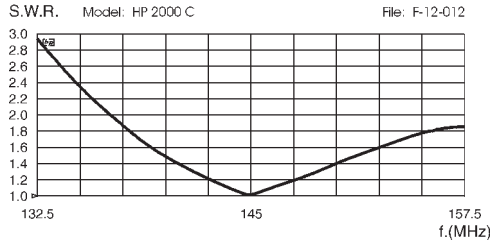
Mechanical Data

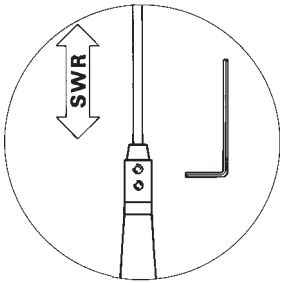
Materials	:	Stainless Steel 17/7 PH, Nylon, Chromed Brass
Height (approx.)		
HP 2000	:	1050 mm
HP 2000 C	:	1410 mm
Weight (approx.)	:	320 gr

TYPICAL S.W.R. RESPONSE



TYPICAL S.W.R. RESPONSE

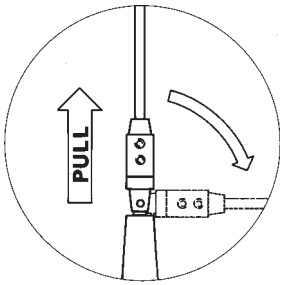




ADJUSTMENT

ADJUSTMENT: all SIRIO HP Antennas are factory adjusted and no additional tuning is usually required. However, if the center frequency needs to be changed, please follow these simple directions:

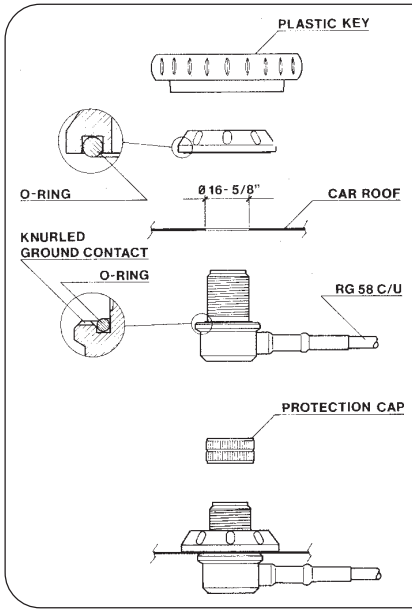
1. Release the allan-screws on the whip using the supplied key
2. Move the whip in or out as needed to obtain a low SWR at your prefered frequency range.
3. After tuning, re-tighten the allan-screws to lock the whip.



TILTING

TILTING: all SIRIO HP Antennas have an inclination system that allows the 90° tilting without use keys or special tools.

ALTERNATIVE MOUNT TYPE



HP-AC/U angular connector:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 41 mm
Mounting Hole: Ø 16 mm
Materials: Brass nichel plated, Teflon insulator, Gold plated pin
Cable: 5m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male/ UHF-male (PL259)
Antenna connection: UHF-female

P/N 2510805.00 HP-AC/U

HP MAG H 12 PL:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 92 mm
Materials: Chromed Brass, Nylon, Teflon insulator, Gold plated pin
Cable: 3.6 m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male / UHF-male (PL259)
Antenna connection: UHF-female

P/N 2511802.05 HP MAG H 12 PL

HP MAG 125 PL:
Frequency Range: from DC to 500 MHz
Overall Size: Ø 127 mm
Materials: Chromed Brass, Nylon, Teflon i insulator, Gold plated pin
Cable: 3.6 m RG 58 C/U MIL-C-17F / FME-female
Adaptor: FME-male / UHF-male (PL259)
Antenna connection: UHF-female

P/N 2511202.05 HP MAG 125 PL

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Model HP 140-175

VHF Mobile Antenna 140-175 MHz

Installation Manual

DESCRIPTION

VHF vehicular antenna working on 139.3-175 MHz by means of the enclosed cutting diagram. It is made with the very best materials to guarantee the maximum strength and the best performance. The whip, made of 17/7 PH stainless steel, is very flexible and incorporate a custom inclination system that allows it to be tilted to 90° without using keys or tools. Also a particular attention has been paid to the UHF-male antenna connector with a goldplated center pin, a "Teflon" insulator and a silicone rubber gasket for a perfect waterproofing.

SPECIFICATIONS

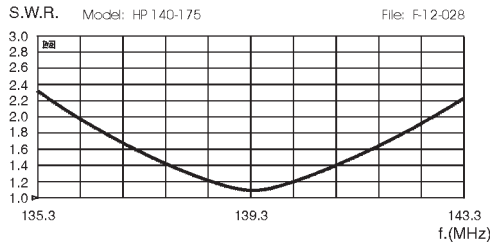
Electrical Data

Type	:	5/8 λ Ground Plane
Frequency Range	:	139.3-175 MHz tunable by cutting
Impedance	:	50 Ω Unbalanced
Radiation	:	Omnidirectional
Polarization	:	Vertical
Gain	:	1.5 dB ref. to l/4 whip
Bandwidth at V.S.W.R. 2:1	:	6.6 MHz at 139.3 MHz
V.S.W.R. at f. res.	:	≤ 1.2 : 1 at 139.3 MHz
Max Power	:	150 Watts
Feed System / Position	:	Transformer DC-Ground / Base
Connection	:	UHF-male

Mechanical Data

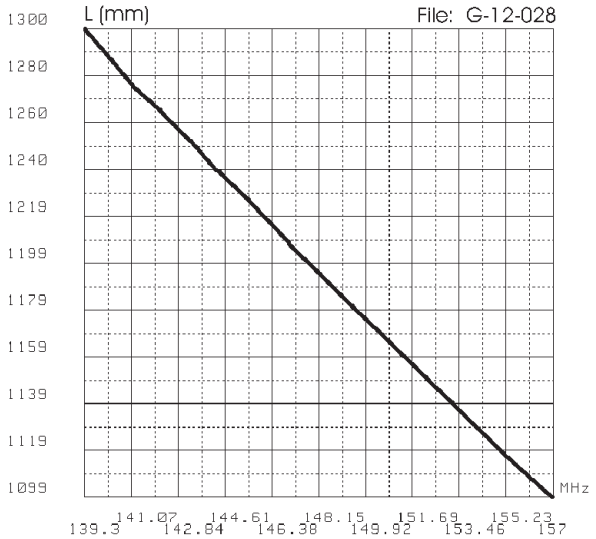
Materials	:	Chromed Brass, Stainless Steel 17/7 PH
Height (approx.)	:	1435 mm
Weight (approx.)	:	265 gr

TYPICAL S.W.R. RESPONSE

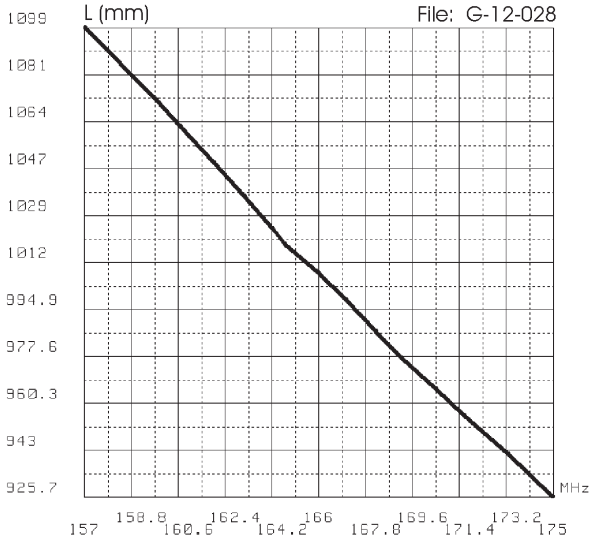


TYPICAL TUNING DIAGRAMS

TYPICAL TUNING DIAGRAM vs FREQUENCY



TYPICAL TUNING DIAGRAM vs FREQUENCY



NOTE:

- It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.
- L is the length of the stainless steel rod.