

HF VEHICLE ANTENNA

HW4 1.8-30MHz

- *Efficient*
- *No ATU required*
- *Cost effective*
- *Simple to install*

SMC have designed the HW4 series as an efficient HF centre loaded spot frequency mobile antenna capable of being used without an antenna tuning unit. Where a second or third frequency is to be used, it is only necessary to unscrew the loading coil/whip combination and replace with a pre-tuned assembly.

Medium power capability permits an unobtrusive slimline format for either wing, bumper or vertical panel mounting, to provide reliable HF communications under the most arduous conditions.

The resonator and whip sections are individually made and calibrated to your specified frequency; additional frequency allocations need only another resonator and whip section which we can normally supply within days.

Although resonators are supplied to a specific frequency, adjacent frequency working may be used as shown within the specifications.

The HW series antennas have proved themselves over many years in the role of vital communication links to authorities worldwide.



Technical Specification

Maximum power	100W 1.5MHz to 3MHz
Capability	150W 3MHz to 30MHz rated SSB duty cycle
VSWR	Typically less than 1.5 : 1 at resonance
Impedance	Nominal 50 ohm (somewhat less at lower frequencies). Impedance matching networks not normally needed for valve or solid state amplifiers.
Bandwidth	For 2.1 VSWR better than: 20KHz at 1.5MHz 150KHz at 10MHz 40KHz at 3MHz 300KHz at 22MHz 80KHz at 7MHz 500KHz at 30MHz
<u>Mechanical</u>	
Mast section	Fibreglass with non-ferrous fittings 3/8" UNF stainless steel screw fitting for base mount. Partial inductive loading on mast with whole enclosed in tough black PVC heat shrunk sleeve.
Resonator Coil	Non-ferrous metal fittings on high impact resistant formers. Lengths vary from 13" at 1.5MHz to 6" at 30MHz. Individual wound and calibrated, coated 100% polyurethane, finished with tough black PVC sleeve.
Top Whip	Resonator supplied with stainless steel whips to order.

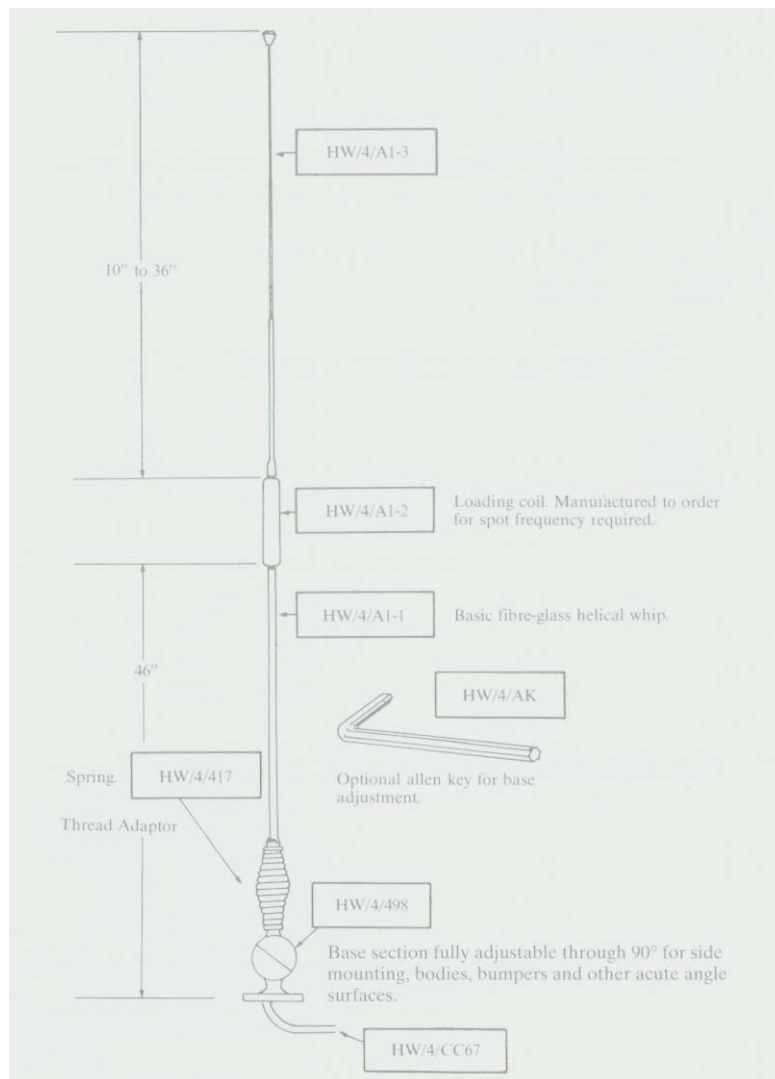


GENERAL ARRANGEMENT

HW4 VEHICLE ANTENNA

TECHNICAL SPECIFICATION

Power input	100-150W SSB PEP
Impedance	50 ohm nominal
Frequency range	Spot between 1.8-30MHz



Note: Antennas normally supplied with stainless steel tapered whips, base and coaxial cable, unless otherwise specified

SMC reserves the right to change specifications without prior notice



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