



# MOONRAKER

## INSTRUCTIONS

Insert the top whip into the lower section about 1 cm and tighten the Allen screw. Then transmit a few Watts of power and using a VSWR meter adjust frequency to find lowest VSWR which will indicate the resonant frequency of the whip. To achieve the required resonant frequency, extend the top whip to lower the resonant frequency and lower tie top whip for a higher resonant frequency. Always adjust the whip in small increments. VSWR at resonance should be 2:1 or less. After tuning, tighten the Allen screws securely. Bandwidth and VSWR will vary due to mounting location and adding an antenna tuning unit will help by lowering the VSWR and increasing the bandwidth.



## Mobile HF Antenna

Power Rated at 200 WATTS

Moonraker offers the following HF Mobile Antenna

MODE NO	Band	Frequency	Bandwidth	Length
12-074	6 Meter	50-52MHz	1500KHz	125 CM
12-072	10 Meter	29MHz	500KHz	245 CM
12-070	11 Meter	27MHz	350KHz	245 CM
12-068	12 Meter	24MHz	300KHz	245 CM
12-066	15 Meter	21MHz	200KHz	245 CM
12-064	17 Meter	18MHz	160KHz	245 CM
12-062	20 Meter	14MHz	150KHz	245 CM
12-060	30 Meter	10MHz	60KHz	245 CM
12-058	40 Meter	7MHz	60KHz	245 CM
12-057	60 Meter	5MHz	55KHz	245 CM
12-056	80 Meter	3.5MHz	35KHz	245 CM

## MOUNTING ADVICE

The ideal mounting position is on the car roof or boot and our three-leg magnetic mount is the simplest method of achieving this optimum mounting position. Smaller magnetic mounts will result in poor VSWR on bands lower than 20 metres and may not be secure. Gutter mounts only work if the car gutter is metal and is firmly bonded to the main car body. Hatch back mounts frequently have poor bonding to the rest of the car and produce high VSWR. Some car panels are made of glass fibre and so are unsuitable for mounting aerials. Many roof racks also cause problems with resonance. The main point to remember is that on HF you need as much metal as possible immediately below the antenna. This is the secret of an efficient HF mobile aerial system.