



# MULTI-RANGER-9

## HF - UHF Multi-Band Mobile

### High Performance Communications Antenna

The Watson Multi-Ranger-9 mobile whip eliminates the need to buy a separate antenna for every band as it covers 80m-40m-20m-15m-10m-6m-2m-70cm plus AM airband both transmit and receive.

The antenna band switching is easily achieved by using the supplied fly wander lead.

Helical winding is employed on a fibre glass whip and the whole unit is weather protected. Construction is excellent (uses Japanese assembly technology) and the item breaks down into two sections.

Base fitting is PL-259 so mounting is no problem at all.

Adjustable top whip resonator & band switching jump lead included.

#### Specifications

Frequency Range: 3.75MHz(80M) / 7.15MHz(40M) / 14.2MHz(20M) / 21.2MHz(15M) / 29MHz(10M) / 51MHz(6M) / 145MHz(2M) / 435MHz(70cm)

VSWR: Low VSWR  
 Polarization: Vertical  
 Impedance: 50 Ohms  
 Power Capacity: 120 Watts  
 Connector: UHF Male (PL-259)  
 Length: 1.9m Max  
 Weight: 1kg

Trunk Lip Mount Is Recommended For The Lowest VSWR On This Antenna.  
 Handle The Chrome Brass Base Only When Installing The Multi-Ranger-9 Antenna.

#### Frequency Adjustment Chart

<b>80M Band</b> (3.6-4MHz)	Jumper Lead	Freq. (MHz)	3.5	3.625	3.75	3.875	4
	Not Needed	Length (mm)	1760	1635	1510	1395	1300
<b>40m Band</b> (7-7.3MHz)	P1 Jump	Freq. (MHz)	7	7.075	7.15	7.225	7.3
	To P2	Length (mm)	1760	1760	1715	1665	1620
<b>20M Band</b> (14-14.35MHz)	P1 Jump	Freq. (MHz)	14	14.075	14.15	14.25	14.35
	To P3	Length (mm)	1735	1735	1695	1695	1655
<b>15M Band</b> (21-21.45MHz)	P1 Jump	Freq. (MHz)	21	21.1	21.2	21.325	21.45
	To P4	Length (mm)	1850	1850	1850	1850	1850
<b>10M Band</b> (28-29.7MHz)	P1 Jump	Freq. (MHz)	28	28.15	28.3	29	29.7
	To P5	Length (mm)	1800	1800	1780	1715	1675
<b>6M Band</b> (50-54MHz)	P1 Jump	Freq. (MHz)	50	50.1	51.4	52.7	54
	To P6	Length (mm)	1475	1475	1410	1375	1355
<b>2M Band</b> (144-148MHz)	P1 Jump	Freq. (MHz)	144	146	148		
	To P6	Length (mm)	1420	1420	1400		
<b>70cm Band</b> (420-450MHz)	P1 Jump	Freq. (MHz)	420	430	440	450	
	To P6	Length (mm)	1440	1410	1365	1355	
<b>Air Band</b> (118-136MHz)	P1 Jump	Freq. (MHz)	118	127	136		
	To P6	Length (mm)	1760	1620	1510		

