

Adjustment

1. Select the right frequency, check the position of the antenna body scale with the graphic or the band chart Fig.1 & Fig.2
2. Loosen the set screw as a half turn by hand. (Keep the rod element retracted).
3. Slide the antenna body to the request frequency after step 1 and **fasten it with the set screw by hand**. Make the rod element full length.

(Do not use any tools such as pliers when fasten set screw. The antenna may be damaged).

4. Transmit and measure the SWR. If the tuning frequency is lower than the request frequency, make the rod element short or make the antenna body down.

The SWR should be lower than 1.5 depending on the conditions. If not, please change the installation conditions. We also recommend using the antenna tuner.

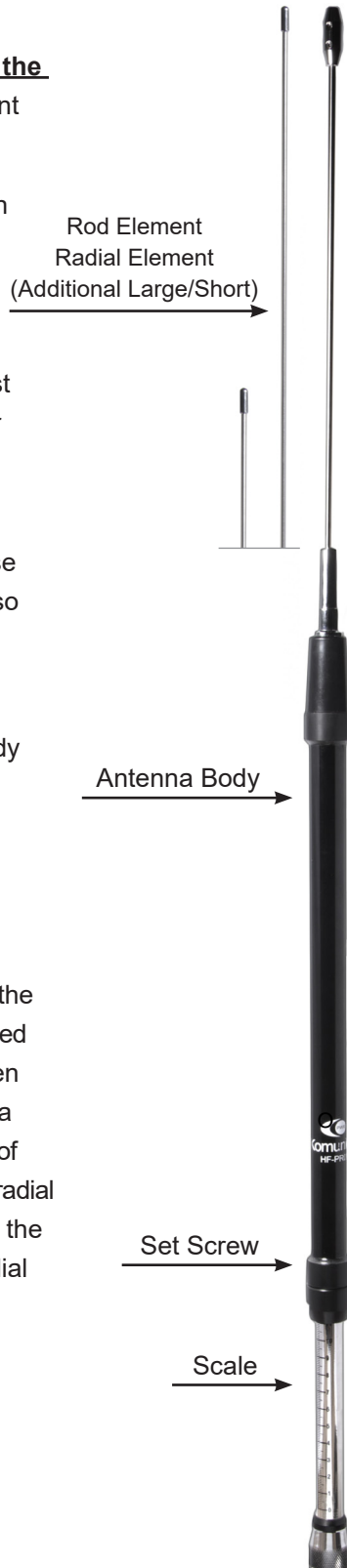
5. If the tuning frequency is higher than the request frequency, move the antenna body up.

6. When adjusting 50MHz band, put the antenna body down and make the rod element full length. (Large radial element).

7. When adjusting 144/430MHz bands, put the large radial (Large radial element) in the fixed antenna and fasten the radial element. When adjust 144MHz band, shorten the antenna body 1/4 wave, change the radial element of the body antenna to the shorter one (Short radial element). When adjusting 430MHz, make the antenna body retracted with the large radial element (Large radial element).

Attention!!!

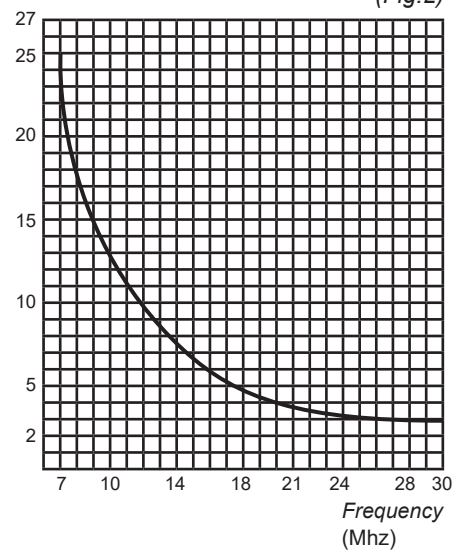
1. Please install the antenna vertically to have a better performance.
2. The SWR should be lower than 1.5 depending on the conditions. In that case, please use the antenna tuner.



(Fig.1)

Settings of HF PRO 1	
Frequency	Scale (mm)
30.000	3
29.000	3
28.000	3
24.900	4
21.300	4
18.000	5
14.100	8
10.500	16
7.400	22

Scale (Fig.2)



Installation Place (example)

1. Set the bracket where the grounding earth can be taken. (gutter mount, trunk lid etc)
2. Install the antenna at the car roof by the magnet base.
3. Set the magnet base on the wood table and install the antenna with approx. 10m ground wire and connect to the grounding earth.
4. Install the antenna at the metal handrail where the grounding earth can be taken.



Made with recycled materials



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