

HF Band Mobile Antenna

MODEL	HFB-80	HFB-40	HFB-30	HFB-20	HFB-17
	HFB-15	HFB-12	HFB-10	HFB-6	

Instruction Manual

Thank you for purchasing our products.

For your safety :

Read this manual carefully for proper handling and operation before using.
Keep this manual in a safe place for future reference.

【Common Specification】

- Impedance : 50Ω
- VSWR : 1.5 or less at center frequency
- Connector : PL-259 (M-P)

【Specification】

	Frequency	Max.Power	Length	Weight
HFB-80	3.5-3.575 MHz	120W (SSB)	1.55 m	400 g
HFB-40	7.0-7.2 MHz	250W (SSB)	1.60 m	340 g
HFB-30	10.1-10.15 MHz	250W (SSB)	1.06 m	250 g
HFB-20	14.0-14.35 MHz	250W (SSB)	0.96 m	220 g
HFB-17	18.068-18.168 MHz	250W (SSB)	0.96 m	210 g
HFB-15	21.0-21.45 MHz	250W (SSB)	0.96 m	208 g
HFB-12	24.89-24.99 MHz	250W (SSB)	0.96 m	206 g
HFB-10	28.0-28.7 MHz	250W (SSB)	0.96 m	204 g
HFB-6	50.0-54.0 MHz	250W (SSB)	0.96 m	198 g

【Features】

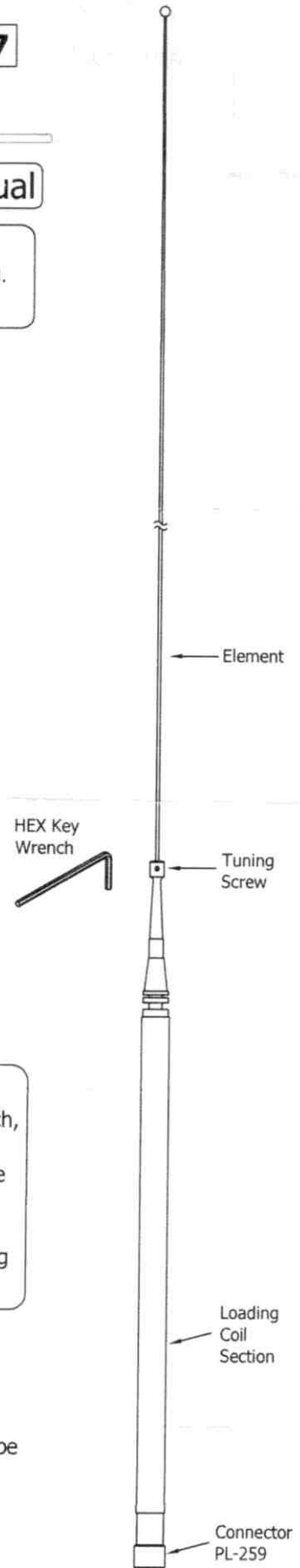
- 1/4λ Base loading type for automobile use.
- Simple and compact, widely adjustable antenna.

⚠ PRECAUTIONS for mounting

- Check if the connecting cable fits into the antenna connector. If they don't match, it could cause damages or disconnection.
 - While driving, the antenna could fall down and VSWR could be higher due to the lack of ground contact area.
 - VSWR could be higher than 1.5 in case you attach it to the base-up mast.
- Placing any other antennas or electrical conductors nearby this product, or changing earthing means could make VSWR higher or fluctuate resonance frequency.

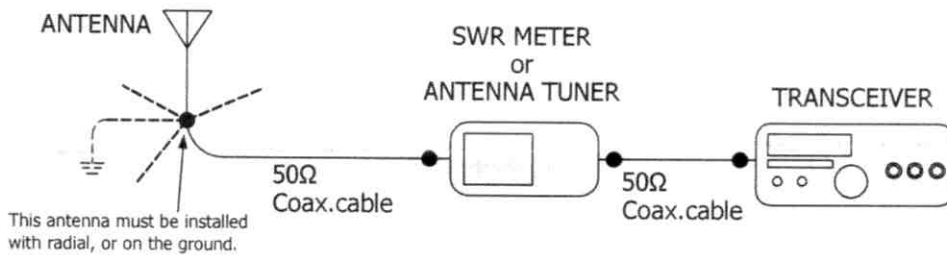
【How to adjust】

1. Unfasten the tuning screws to adjust the stainless element.
2. Slide the element to the desired freq.
*Freq band could be narrower depending on the mounting environment. It may be better to cut the element at approx.3.57MHz.
*Concomitant use of a tuner is highly recommended.
3. Measure SWR at desired Freq.

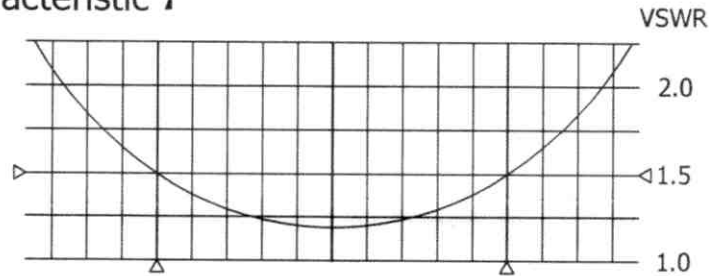


【Appearance】

Connection Diagram



[VSWR Characteristic]



HFB-80	-5KHz	fo	5KHz	[10KHz/cm]
HFB-40	-15KHz	fo	15KHz	[26.5KHz/cm]
HFB-30	-15KHz	fo	15KHz	[55KHz/cm]
HFB-20	-25KHz	fo	25KHz	[70KHz/cm]
HFB-17	-100KHz	fo	100KHz	[100KHz/cm]
HFB-15	-100KHz	fo	100KHz	[120KHz/cm]
HFB-12	-200KHz	fo	200KHz	[140KHz/cm]
HFB-10	-500KHz	fo	500KHz	[700KHz/cm]
HFB-6	-1000KHz	fo	1000KHz	[340KHz/cm]

【How to use】

1. Make sure all the screws are tightened securely.
2. Attach the antenna to the base etc.
3. Keep the antenna as vertically as you can for better transmitting.

Precautions for using

- This antenna is only for ham radio. Do not use this for other purposes.
- Operation outside the specification might damage the antenna.
- Adjust the antenna correctly. Elevated SWR could damage the antenna.
- Never attempt to modify or fix the antenna by yourself.
- Do not touch the antenna while transmitting.

Maintenance

- Check SWR before using to confirm if the antenna works normally.
- Check if screws, bolts and nuts are tightened securely, and if not, retighten them.
- Be sure to change the parts, deformed by long-term use or low in intensity.

◆ Specifications or appearance is subject to change without notice.

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