

HF-BV/RM

HF Base Station Vertical Antenna, Roof-Mounted

Installation Instructions

This antenna provides permanent or portable operation in restricted space.

This antenna is designed to be roof-mounted (model HF-BV/GM is available for ground-mounting), and is supplied complete with radial ground plane.

PRIOR TO INSTALLATION

Remove all components from the packaging, and check to ensure that the following items have all been supplied:

5 x vertical sections, numbered at the lower end as 1 through to 5. The lowest section has a base insulator and 500mm black wire attached, and the top section has a black plastic cap.

4 x D-shackles.

4 x thimbles.

8 x cable clamps.

2 x roof-mounting-brackets (1 with 10mm bolt, nut and washers).

Guying disk with 4 x blue dielectric 8.2m guys.

Radial ground plane comprising 8 x 8m wires and 1 x 500mm wire.

VERTICAL SECTIONS

Take the vertical section numbered "2" and slide it into the top of the vertical section numbered "1".

Vertical section "1" is the bottom section of the antenna, has an insulator at its base, and will later be connected to a (non-supplied) antenna-tuning unit and a roof-mounting bracket.

Repeat this with the other 3 sections.

GUYING DISK

Place the guying disk over the top vertical section, and slide it along until it rests at the top of the joiner at the base of the vertical section numbered "4".

Remove the black cable ties that separate the blue dielectric guys in transit.

ERECTION

WARNING – DO NOT ALLOW ANY PART OF THE ANTENNA TO COME INTO CONTACT WITH POWER LINES, AS DEATH MAY RESULT.

Bolt the roof-mounting bracket with 3 holes on to the roof, using as many of the holes as possible.

Lay the antenna on its side and attach the bottom section of the antenna through the 12mm hole of the other roof-mounting bracket, and tighten securely.

Connect the 2 roof-mounting brackets together using the supplied 10mm bolt, and leave loosely tightened.

Separate and extend the 4 blue dielectric guys, and array them around the antenna at an angle of 90 degrees to each other.

Install suitable mounting points for the ends of the guys, each at an angle of 90 degrees from each other.

Have one person hold the end of each guy while other persons raise the antenna to a vertical position.

Securely tighten the nut on the 10mm bolt joining the roof-mounting brackets.

Attach the guys to the mounting points using 1 D-shackle, 1 thimble and 2 able clamps for the end of each guy.

ATTACHING RADIAL GROUND PLANE

Attach the radial ground plane to the hole in the bottom roof-mounting bracket, using the supplied 8mm bolt, nut and washers.

Separate and extend the 8 radials, and array them around the base of the antenna as evenly as possible.

Connect the radial ground-plane to the earth connection of the (non-supplied) antenna-tuning unit using the 500mm length of wire.

CONNECTING THE ANTENNA-TUNING UNIT

Connect the black wire that is attached to the base section of the antenna to the output connection of the (non-supplied) antenna-tuning unit.