

M V 3 B H
(M V 3 A H)

BAND: 14, 21, 28 MHz
(7, 21, 28 MHz)
OVERALL LENGTH: 3850 mm
(3590 mm)
INPUT POWER: 2KW PEP Max.
(2KW PEP Max.)

Assembling:

Joint each element as shown in Fig. Loosen 4x6 screw which is fixed to the swaged sleeve, then insert the pipe fixed to the trap into the element. Tighten the 4x6 screw after making sure that the all dimension are as shown in the Fig.

Fix the auxiliary element with tapping screw and spring washer.

To be taped for several turns to prevent rain penetration.

Installation:

In principle, vertical type antenna will be used as grounded, not necessarily to be installed on high place since the propagation is made by ionospheric reflection for HF bands (whereas VHF communication is made by means of Ground Wave which results better reach with higher antenna position). Besides, the grounded vertical requires less complicated adjustment than high positioned vertical which is necessary to be with radial wire.

In general, the SWR comes down to less than 1:1.5 when MV3AH is installed with a pipe which is driven into the ground to 500-1000 mm. In case MV3AH is installed on the roof, fix a radial wire for each band. It is recommended that slight longer wire than the length required to be used by folding the end with proper insulator as shown below, so that the wire length can be adjusted easily to obtain the lowest SWR.

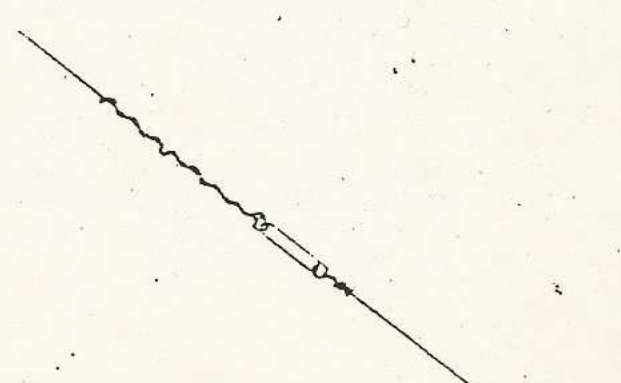
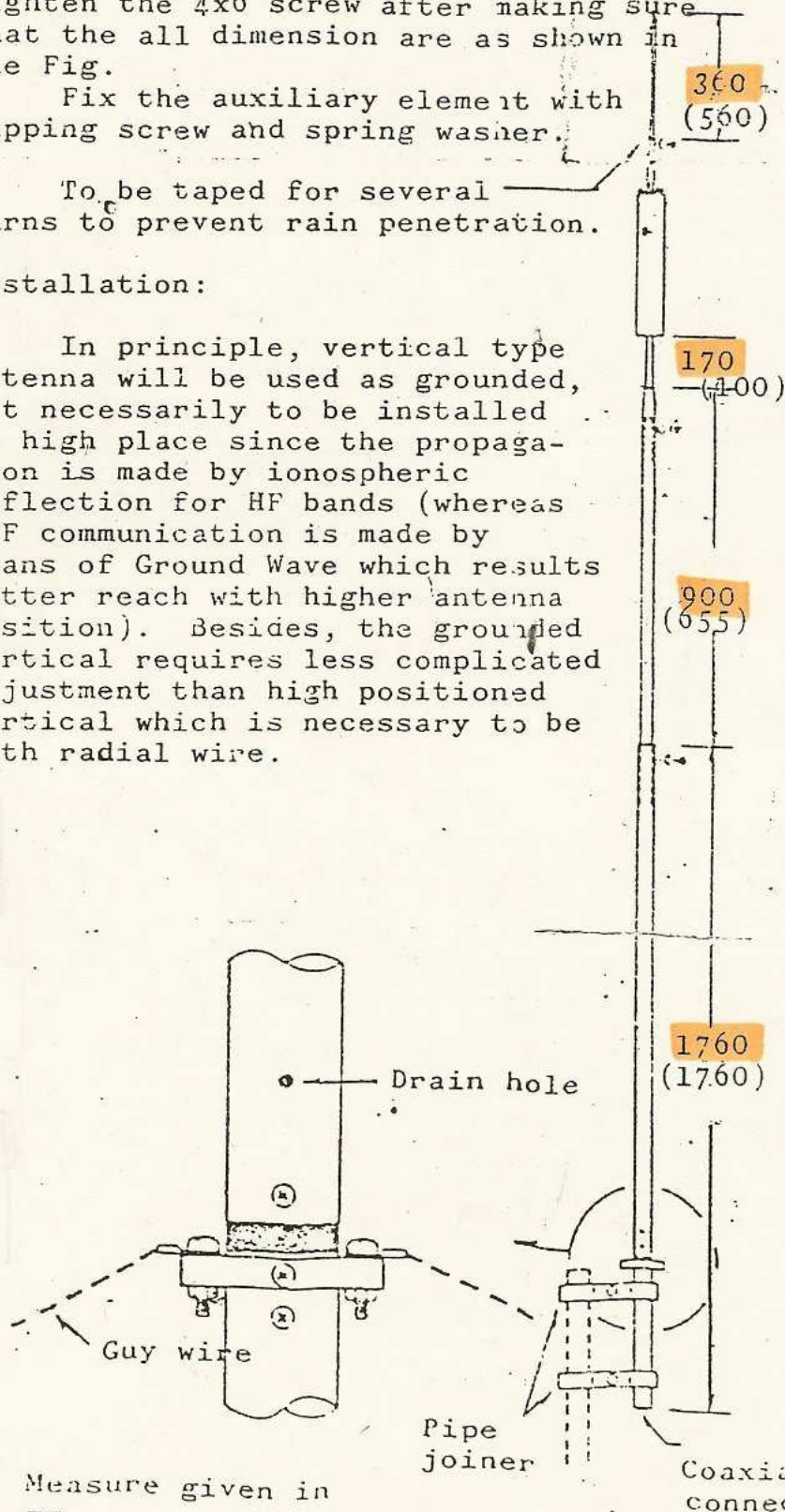
Adjustment:

No particular adjustment is necessary though slight difference in characteristics might be shown depending on the ambient conditions. Recheck the ground if extreme bad SWR is shown. Adjust the angle between the element and the wire when the radial wire is used (from horizontal to 60°).

The radial wires ideally to be placed at 120° each other for 3 directions, however, place the wires as straight as and as radial as possible where the place is limited in the space. The wires can be bent at their ends to less than 90° as shown. Then the length and the angle to be adjusted so the best SWR as to be shown.

Radial wire length.

14MHz band	5.12m
21MHz band	3.35m
28MHz band	2.65m
7MHz band	10.2m



te: Measure given in mm.