

Side Mount Dipole Antenna Support for Rohn Tower

Materials consist of 1" PVC Schedule 40 Pipe and fittings



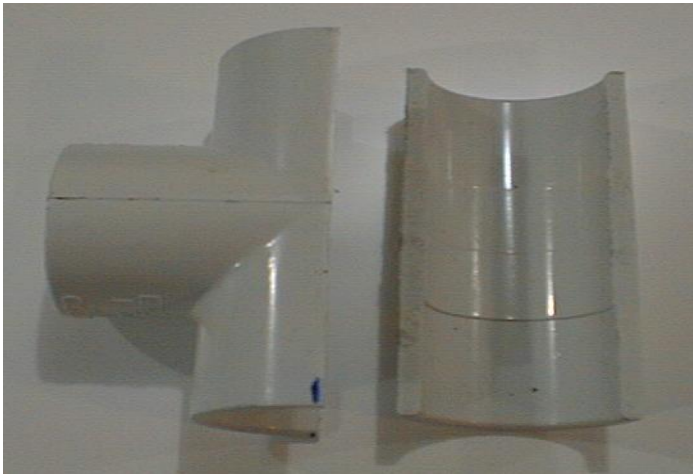
[Fig 1] Completed assembly with coat of gray paint. White vertical member on left is for demonstration only. This mount would be attached to the vertical leg of a Rohn Tower using four stainless steel hose clamps.

Parts List

<u>Description</u>	<u>Quantity</u>
60" section of 1" Schedule 40 PVC Pipe	1
1" – 1" 45° Elbow Coupling	2
1" – 1" – 1" PCV Tee Coupling	3
1" PVC Pipe Cap	1
1 ½" – 2" Stainless Steel Hose Clamp	4
¼" X 3" Stainless Steel Eye Hook	1
¼" Stainless Steel flat washer	2
¼" Stainless steel lock washer	1

Material Preparation

- [A] Modify two (2) of the tee couplings by removing ½ of the section opposite the side port.
[See Figure 2]



[Fig 2] Modified 1" tee Fitting

- [B] Cut the 60" PVC Pipe into the following lengths
- 1 27" section for Angle Member
 - 1 20 ½" section for Horizontal Member
 - 3 2" section for splices

[C] **Optional**

Modify the Eye Hooks to open the eye end by 1/8" to allow the eye from a antenna balun to be installed



[Fig 3] Top one is modified; bottom one is original form.

Assembly Operations

Glue subassemblies together using PVC joint primer and PVC Cement.

Fully seat all joints using caution when critical alignment is required.

Where alignment is required, use a flat surface of not less than 3ft by 3ft.

Very quickly after seating the joint press the assembly to the alignment surface to confirm or adjust alignment.

Wipe any excess primer or cement off using a cloth or paper towel.

Once the joints have been pressed together they CANNOT be separated!

- [A] Assemble one modified tee coupling to the 20 ½" horizontal member.
- [B] Assemble two 2" splices to the unmodified tee coupling; placing one in the side port and the other in one end of the thru port.
- [C] Glue a pipe cap to the splice tube on the thru port to assemble from step B
- [D] Using assembly from step C glue a 45° elbow to the splice inserted in the side port of the tee; use a flat surface to confirm or adjust the alignment of the elbow.
[See Figure 1]
- [E] Glue the 27" pipe section into the 45° elbow of the assembly from step D
- [F] Glue a 2" splice into the side port of the remaining modified tee coupling
- [G] Glue the remaining 45° elbow to the assembly from step F; use flat surface to confirm alignment
- [H] Glue assembly from step E to assembly from step G using flat surface for alignment.
- [I] Drill a ¼" hole in the pipe cap ¾" from the end aligning it with vertical when the assembly is held upright. [See Figure 1]
- [J] Wipe down the assemble with Lacquer thinner to remove the printed writing and bar code printing on the material.
- [K] Install eye hook using the flat washers and lock washer, placing the eye down.
- [L] **Optional**
Suspend the assembly from the eyehook and apply a light coat of gray paint to mask the white color of the assembly when installed on tower.