

NPR-A2 & NPR-A3 AI Satellite Non-Penetrating Roof Mount Job Aid

Release Date: May 2013

Summary

This Job Aid covers:

Non-Penetrating (Non-Pen) Roof Mounts

Important Considerations

Assembling the NPR-A2 & NPR-A3 AI Satellite Non-Pen Roof Mount

This Job Aid supports the Installer audience.

Non-Penetrating (Non-Pen) Roof Mounts

This mount is approved for **flat roofs** only. If the roof has a slope between 1 and 35 degrees, use a pole or wall mount.

Danger! Locate power lines before you start the installation. These include overhead power lines, electric lights, and power circuits

All antennas must be located at least 20 feet from overhead power lines and three feet from any standard power circuit or electric light.

Tool List

- 3/16 inch wood drill bit
- Electric drill
- Carpenter Spirit level
- 9/16 and 7/32 inch metal drill bits
- ½ inch wrench
- Post Spirit level
- 7/16 inch wrench
- 3/8 inch wrench
- Hammer
- Screwdriver
- Pencil
- Ladder
- 13 mm socket wrench
- 13 mm combination wrench

Note: Not all installations need every tool.

Materials for Installing a Non-Pen Mount

The Installer must provide the following materials:

- A minimum of six 28-pound solid concrete blocks (4x6x16). Use more ballast in windy areas.
- A protective membrane to place under the mount



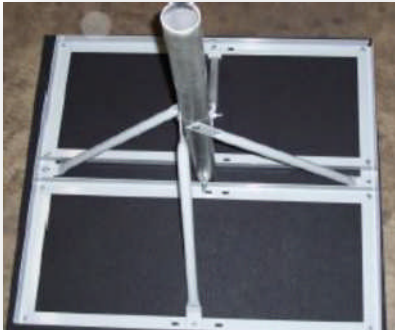
Important Considerations

- All non-standard mounts must sustain at least 300 pounds of pullout pressure equivalent for each attachment point.

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Assembling the NPR-A2 & NPR-A3 AI Satellite Non-Pen Roof Mount

Step	Action	Action
1.	Lay out the angles with 3 Multi Hole Side Down & insert $\frac{3}{4}$ inch carriage bolt from bottom, use $\frac{5}{16}$ inch nuts and flat washers. Do Not Tighten until all fasteners are in place.	
2.	Bolt mast to center holes on the two center angles using $3\frac{1}{2}$ x $\frac{5}{16}$ x 18 carriage bolt, nut and flat washer.	
3.	Bolt four Support Arms to bottom of frame using $\frac{5}{16}$ x 18 x $\frac{3}{4}$ carriage bolts, nuts and flat washers.	
4.	Attach Mast to Support Arms using $\frac{5}{16}$ x 18 x $3\frac{1}{2}$ bolts, nuts and flat washers.	
5.	Level mast, tighten all bolts and recheck for level.	
6.	Place Mount on top of a NPR-MAT8	
7.	Add concrete blocks. Re-check for level.	