

# 3S-PNP Assembly Guide

## Congratulations!

Thank you for purchasing our antenna mount! 3 Star, Inc. has designed this antenna mount to be both durable and reliable. We know it will provide many years of service in your home, shop, or any place where a well-built, quality antenna mount is a must.

### 1: Packing List

Please verify that your package contains the following items:

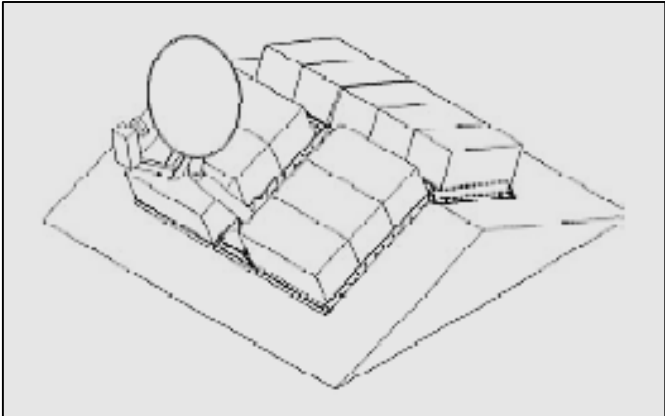
Qty	Description	Qty	Description
18	5/16" x 3/4" Carriage Bolts	2	41 1/4" Angled Steel Frames
18	1/2" Lock Nuts with Serrated Lock Washers	4	24 1/2" Angled Steel Frames
2	37 3/4" Angled Steel Frames	4	18 3/8" Angled Steel Frames

If any of the items listed above is missing or damaged, please contact us at 804-550-7202 or email us at support@3starinc.com

### 2: Tools Recommended for Assembly

The following tool is recommended for assembly:

- 1/2" box end wrench, adjustable wrench, or ratcheting wrench with 1/2" socket



### 3: Assembly Instructions

Use the following procedure to assemble the antenna mount:

**3.1: Assemble Antenna Mount Frame.** Attach the frame members using 5/16" x 3/4" carriage bolts (refer to Figure 1). Push a carriage bolt through the pre-drilled holes in the frame members. Place a lock nut on the threaded end and use a 1/2" wrench or ratchet with 1/2" socket to tighten.

- The 37 3/4" angled steel frames form the horizontal top and bottom of the antenna mount frame (refer to Figure 1).
- The 24 1/2" angled steel frames form the vertical sides and middle of the antenna mount frame (refer to Figure 1).

**3.2: Attach Antenna Mount Plate to Center Frames.** Attach the antenna mount plate to the center frames using 1/4" x 3/4" carriage bolts (refer to Figure 2). Push a carriage bolt through the pre-drilled holes in the plate and center frame. Place a lock nut on the threaded end and use a 7/16" wrench or ratchet with 7/16" socket to tighten.

- The antenna mount plate can be placed anywhere on the center frame.

**3.3: Assemble Antenna Ballast Frame.** Attach the frame members using 5/16" x 3/4" carriage bolts (refer to Figure 3). Push a carriage bolt through the pre-drilled holes in the frame members. Place a lock nut on the threaded end and use a 1/2" wrench or ratchet with 1/2" socket to tighten.

- The 41 1/4" angled steel frames form the horizontal top and bottom of the antenna ballast frame (refer to Figure 3).
- The 18 3/8" angled steel frames form the vertical sides of the antenna mount frame (refer to Figure 3).

**3.4: Attach the Antenna Mount Frame to the Antenna Ballast Frame.** Attach the frame members using 5/16" x 3/4" carriage bolts (refer to Figure 4). Push a carriage bolt through the pre-drilled holes in the frame members. Place a lock nut on the threaded end and use a 1/2" wrench or ratchet with 1/2" socket to tighten.

**3.5: Fasten All Connections Securely.** Now that the antenna mount is completely assembled, recheck all connection points and make sure they are tightened securely

**3.6: Attach the Satellite Dish Footplate to the Antenna Mount Plate.**

**3.7: Place Assembly on the Peak of the Roof and Load Ballast (weight).**

- Note: It is the responsibility of the installer to determine the correct amount of ballast for the given application.
- Roof mats can be purchased to protect the roof surface.
- It is important that the underlying roof structure be strong enough to resist whatever forces that may be subjected to it from the satellite dish system and mount. For extreme wind conditions, it is recommend the mount be tethered with cable.
- It is the responsibility the installer to verify that the installation meets all applicable codes and standards. 3 Star ,Inc. is not responsible for verifying that the 3S-PNP will work for any given installation.

We thank you again for your business!

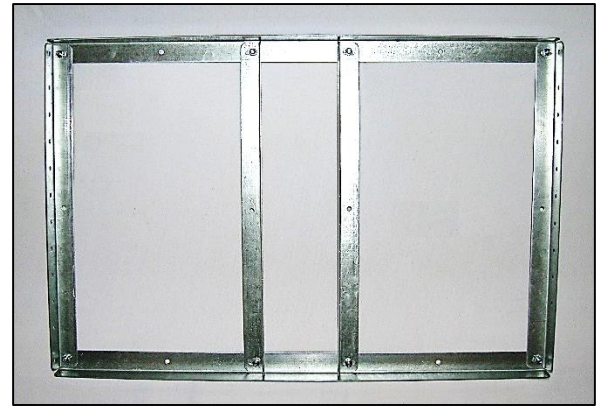


Figure 1 – antenna mount frame assembly

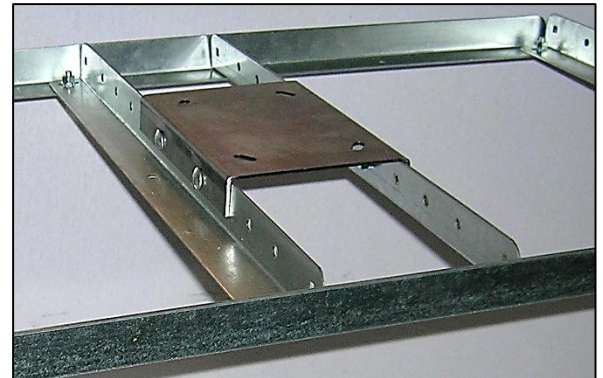


Figure 2 – antenna mount bracket attached to frame

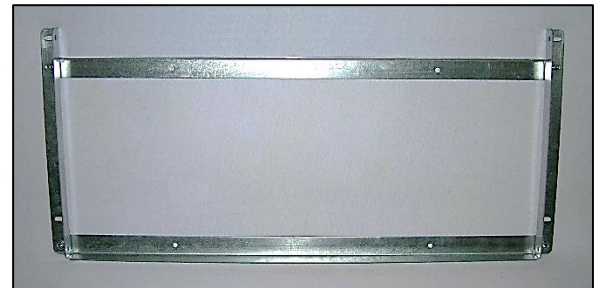


Figure 3 – antenna ballast frame assembly



Figure 4 – antenna ballast frame attached to antenna mount frame