Smart Aligner – Custom Brackets Course



Topics Covered

Note: This training course assumes that the Introductory Course has been completed and the user is familiar with the basic operation of the Smart Aligner System.

- 1. Custom Bracket Definition: Slide 3
- 2. Gogo Bracket: Slides 4 7
- 3. RF Elements Bracket Kit: Slide 8
 - A. Symmetrical Horns: Slides 9 11
 - B. Asymmetrical A20-30 Horn: Slide 12
 - C. Asymmetrical A60 and A90 Horns: Slide 13 16

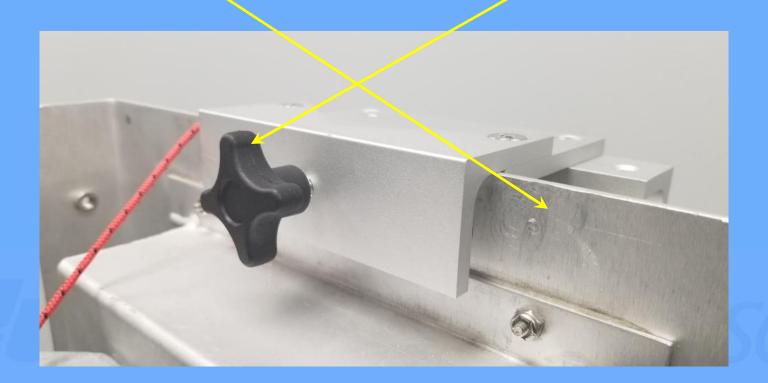
Custom Bracket Definition

- 1. The Smart Aligner System has insert options that attach to the standard Bracket to change its characteristics. It uses the Ratchet Strap around the antenna to fasten it in place. The Tool mounts on the Bracket as usual.
- 2. A Custom Bracket does not use the standard Bracket at all. It is a stand-alone mounting device that replaces the need for the Bracket, with or without an Insert.
- 3. Custom Brackets are designed for specific antennas as can be seen on the following slides.

1. The GOGO Bracket is designed specifically for GOGO antennas and is approved by GOGO. The GOGO Bracket is shown below:



- 2. First attach the Tether as usual.
- 3. To install the Gogo Bracket, unscrew the Knob until the Bracket can fit over the vertical fin of the antenna.



4. The Gogo Bracket should sit as per the following side view:



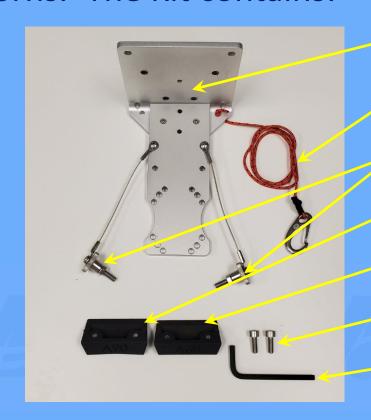
5. Tighten the Knob until secure.

- 6. Attach Tool's Tether into the hole provided.
- 7. Place Tool into the mounting pattern and tighten Tool Fastening Knob.
- 8. Use the Tool to perform the alignment as usual.



RF Elements Bracket Kit

The RF Elements Bracket was designed in cooperation with RF Elements for Gen2. It works with all HG3-xx-Sxx Horns. The Kit contains:

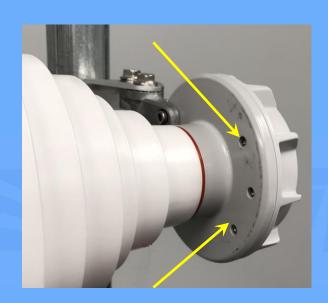


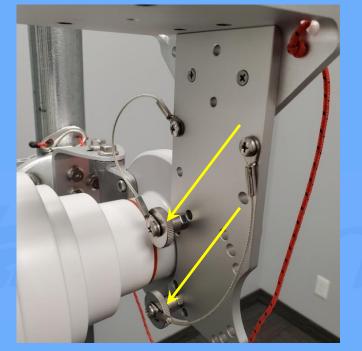
RF Elements Bracket
Bracket Tether and Clip
Thumbscrews with Tether
Wedge Insert for A90 Horn
Wedge Insert for A60 Horn
Wedge Mounting Screws
Allen Key

Symmetrical RF Elements Horns

- 1. Bracket is mounted into the upper and lower holes.
- 2. Tether the Bracket as usual.
- 3. There are multiple hole patterns for different antenna models. Hold the Bracket up to the holes and determine which pattern matches. Fasten the Bracket in place with the

supplied tethered screws.

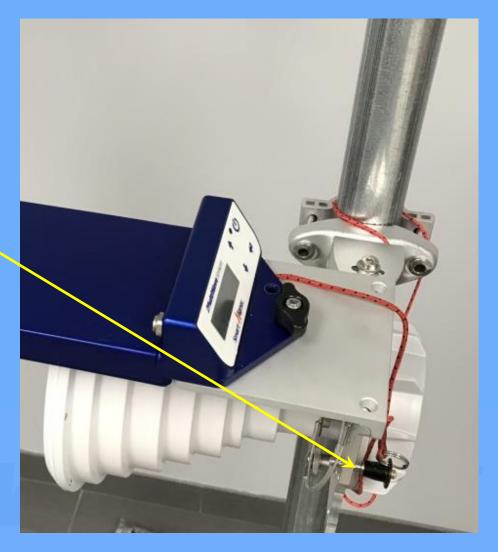




Note: Leave the M6 spacer nuts on thumbscrews.

Symmetrical RF Elements Horns

- 4. Insert the Tool's Tether Pin into the hole provided.
- 5. Mount the Tool in the desired orientation and fasten as per usual.



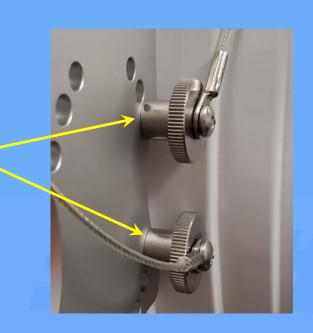
Symmetrical RF Elements Horns

6. Align the antenna as per usual.



Asymmetrical RF Elements A20-30 Horn

- 1. This is the only Horn that requires the M6 Spacer Nuts to be removed for longer thumbscrew thread length. Carefully store the M6 Spacer Nuts.
- 2. The Bracket mounts to the opposite side from the antenna bracket. Use the two holes that are closest together as shown.



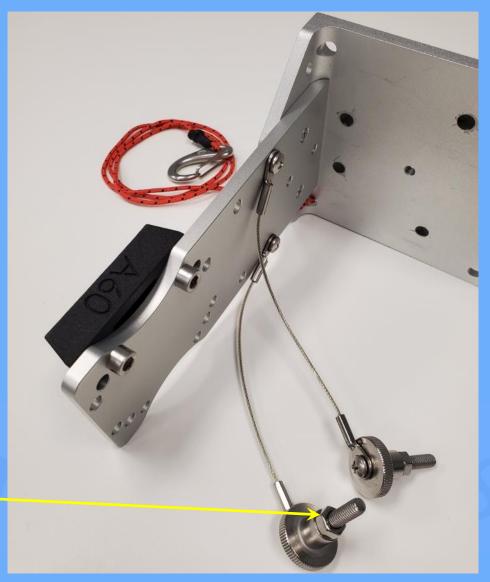


- 1. The A60 Horn has a specific Wedge Insert as does the A90 Horn.
- 2. The A60 and A90 asymmetric horns require the RF Elements Bracket to be mounted to the left or right side of the horn.
- 3. The following example will show how the A60 Wedge Insert is installed so that the RF Elements Bracket points to the left of the A60 Horn.

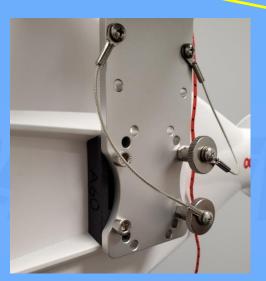
5. Using the screws and Allen key provided, mount the A60 Wedge Insert as seen to the right. The thicker part of the Wedge Insert with the A60 lettering is on the outside edge. There are alignment pegs on the Wedge Insert to help with the installation.

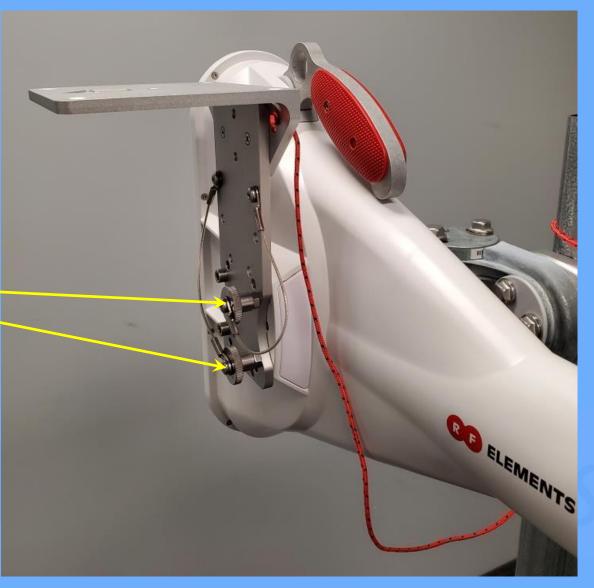
Note:

The M6 Spacer Nuts are used with the A60 and A90 Horns.

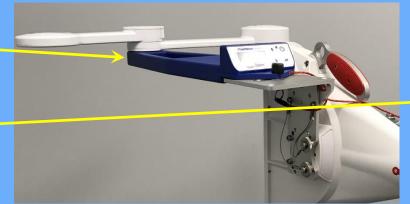


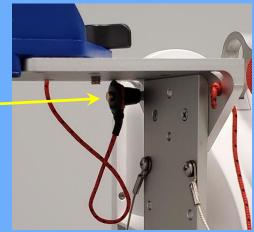
6. Mount the RF
Elements Bracket, as
per the photo to the
right, using the
thumbscrews with M6
Nut Spacers.

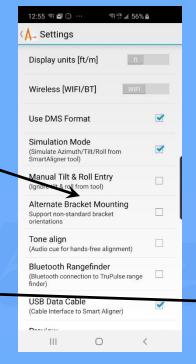


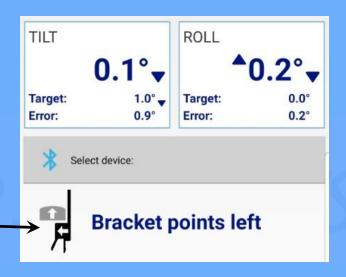


- 7. Mount the Tool as usual.
- 8. The tool's tether pin can insert as shown if needed.
- 9. Since the bracket's antenna arrow is not pointing in the same direction as the antenna (in this case to the left), the Alternate Bracket Mounting should be checked in the app and the left position selected on the measuring screen.









Course End

