

MFJ-1903 Tilt-Mount Instruction Sheet

Introduction: The MFJ-1903 Universal Vertical Tilt Base is designed to let you assemble and adjust your vertical antenna on the ground, then walk it up into its vertical operating position with safety and minimal effort. Made from rugged 1/8-inch aluminum plate, the MFJ-1903 features a pattern of pre-punched mounting holes that accept most common U-bolt sizes for antenna masts up to 2-1/4 inches in diameter. In addition, you can bolt many popular verticals using insulated base brackets directly to the MFJ-1903 swing plate without using U-bolts (Hy-Gain AV18VS, AV18AVQII, AV14AVQ, AV12 AVQ, DX-88, etc). The MFJ-1903 also provides spare bolt holes for connecting a ground rod or a radial system.

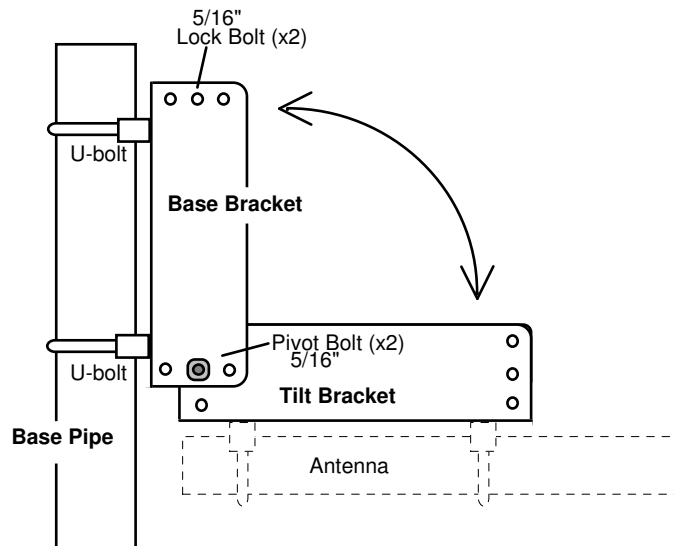
Installation Instructions: Before assembling your MFJ-1903, please check the parts list on page-2 to confirm that all listed items are included.

[] Find the two 2-1/4" U-bolts and 3/8" hardware. Attach the *base bracket* (wider of the two mounting plates) securely to your base support.

[] Find two 5/16" bolts and hardware. Attach the *tilt bracket* (narrower plate) to the base bracket's pivot point, as shown below. Do not over-tighten -- the tilt bracket should remain moveable.

[] Using your antenna's mounting hardware, install the support mast (or insulated bracket) onto the face of the *tilt bracket*.

[] After the antenna has been raised vertically into position, lock the *tilt bracket* to the *base bracket* using the remaining two 5/8" bolts and hardware. Check and re-tighten all hardware to ensure everything is tight.



Base Support: Your base support pipe (not included with the MFJ-1903 kit) should be made from thick-wall steel or aluminum tubing and extend at least 3 to 4 feet below ground. For multi-band verticals, we recommend seating the pipe in a 10-inch diameter posthole filled with ready-mix concrete to ensure stability. Note that antenna base supports should always be located well clear of power lines or neighboring property to avoid exposure to life-threatening injury or liability.

Parts List: Please check the contents of your MFJ-1903 package for the following items:

[]	1	Base bracket
[]	1	Tilt bracket
[]	2	2-1/4" x 3/8" U-bolts
[]	2	2-1/4" Mast Saddles
[]	4	3/8" nut
[]	4	3/8" flat washer
[]	4	3/8" split lock washer
[]	4	5/16" x 3/4" bolt
[]	4	5/16" nuts
[]	4	5/16" flat washer
[]	4	5/16" split lock washer

Missing or Defective Parts: MFJ warrants that all listed items for your MFJ-1903 tilt-mount kit are included and free from defect. If your bill of materials is missing parts or contains damaged items, contact the factory by phone at (662) 323-9715 to arrange for replacement or write. Our mailing and shipping address is: MFJ, 300 Industrial Park Road, Starkville, MS 39759. Please *do not* return any items to MFJ unless explicitly authorized to do by MFJ Customer Service.