



DEMI QDAM, Quick Disconnect Antenna Mount

Product Description:

The DEMI QDAM is a quick connect / disconnect antenna mount designed for temporary or portable operation. It can be utilized anywhere that a fast antenna installation or tear down is required or desired. Once the mounts are installed, set up and tear down times are reduced by eliminating the wrenching of U-Bolts and preventing problems such as breakage or loss of hardware during multiple set-up times as in VHF/UHF roving or Field Day.



The QDAM is designed to fit up to 1-1/2" boom diameter antennas utilizing 1/4" U-Bolts for attaching to the BOOM plate. The BOOM plate will accommodate 1/4" U-Bolt sizes of 1" inside to a 2" outside measurement. Depending on the antennas boom size, the U-Bolts should be selected to provide best fit. The MAST plate may be mounted to a maximum of a 2" mast



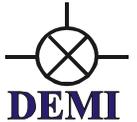
with 5/16" U-Bolts. The MAST plate, with its larger slots as pictured to the left, can utilize a 5/16" U-bolt size of less than 1" inside to a 2.7" outside measurement. If mounting the MAST plate to a larger mast diameter up to 2.20" is required, utilizing a 1/4" U-Bolt will accomplish it. Then because of the flatness of the plate, all square booms and masts may be used up to the maximum U-Bolt size that fits.



What allows the antenna mount to work with ease and repeatability is the four alignment pins and the single spring loaded locking pin. The alignment pins ensure that the two separate ¼" aluminum plates mesh together and position themselves so that the desired antenna is square to the boom and remains that way after many installs and uninstalls. After the antenna is mounted in position, the alignment pins hold the plates together and in turn secure the antenna to the boom. Then the simple spring loaded locking pin keeps it all in place until "tear own" where a simple pull on the ring and a slight "twist" of the antenna releases it from the boom.



No more multiple install/uninstall of the antenna to the boom with wrenches to tighten or loosen the U-Bolts depending if it is a install or tear down. Then, no more keeping track of the hard ware and being careful not to gall the U-Bolts causing damage. No more guessing if all antennas on the mast are in line with each other or are level to the horizon maybe requiring a second person to check the alignment with other antennas on the same mast while the bolts are being tightened. It's a no guess place and twist until the locking pin automatically snaps into position securing the complete assembly to install and a gentle pull on the pin and "twist" to release the antenna from the boom. You only need to wrench the bolts one more time to verify that the spacing and alignment is correct and you will have a perfect setup every time and the simplest antenna tear down you have ever had.



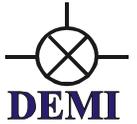
To Install:

You most likely will be replacing the “boom- to – mast” plate on your existing antenna so those U-Bolts that have been in use may be installed and tightened for the last time. If not, select fresh U-Bolts that will fit the plates, the antenna, and the boom. You may install saddles if desired but simple lock and flat washers are all that is required. Remember, it is a temporary set up!

Start by attaching the MAST plate to the mast. Be sure the side of the MAST plate that has the machined word “MAST” in it, faces the mast for attachment. It can be re-positioned after the antenna is installed but get it as close as possible to the required position. We suggest using 5/16” U-Bolts with a 2” inside diameter for ease of installation. (Maximum size) They will still clamp to a small mast if utilized. If you use U-Bolts that are not the maximum size possible, be sure to center the U-Bolt side to side in the slots of the MAST plate while tightening. Also, it may not be possible to “Square” the plate to the mast if the U-Bolts are undersized in any fashion, diameter or width. This will be discussed later.



Next, mount the BOOM plate to the antenna. The word “BOOM” should face the antenna boom. As mentioned before, the boom-to-mast plate that is being replaced should have the required 1/4” hardware but don’t hesitate to replace anything worn or galled. Again, saddles may be utilized but standard lock and flat washers will work perfectly. Be sure to center the U-Bolts of they are undersized for the slots.



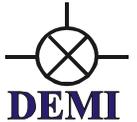
Now, its install time! Position the antenna so the alignment pins are close, then place the pins into the holes, twist into position and listen for the “Click”. Check for alignment of the antenna position on the mast side to side and up and down. If you used undersized U-Bolts, check the alignment closely for U-Bolt centering in the slots and skewing side to side. Re-tighten all hardware.

To remove the antenna, gently pull on the lock pin ring and allow the antenna to twist or guide it to the removal position and it will fall off the mast.



The assembly process can be repeated as necessary to complete your portable or temporary antenna system with as many antennas as you require on your mast. An advantage of the QDAM is the once the positions have been decided for other antennas on the same mast, higher or lower, the previously installed antenna may be easily removed to allow ease of the next mount’s installation or to reinstall to check the total alignment.

Take the time to do the initial mount installation correctly, verify the alignment and use good hardware and it will be the last time you will be wrenching and twisting to get your antennas the way you want them mounted. Also remember, if your antenna is a long Yagi, you need to allow the extra vertical separation in the mounts to prevent the antennas from interfering with each other during installing or removal. You will fully understand after you first multiple install on the same mast.



Assembly Tips and useful Ideas:

Attach the coax feeds to the Antennas permanently and coil up drop leads so they can be released after the antenna is installed.

If there are multiple mounts on the mast, any antenna may be mounted anywhere. The QDAM's are CNC machined and therefore do not require to be utilized in sets. Any BOOM plate will fit with Any MAST plate.

Offset the balance of a Yagi so that it favors holding the plates meshed with the alignment pins. Do this by balancing the antenna perfectly in the mount. Then simply adding the coax feed will put enough weight on the half of the antenna with the driven assembly to keep just a bit of down ward pressure on the alignment pins.

Then, do not allow the opposite of the above statement. If the offset weight of the antenna favors un-meshing the mount, it will put stress on the locking pin and possibly cause excessive wear of the lock pin or the hole it is centered on. This should not be a problem with a fixed station but with a rover traveling, the bouncing and wind stress may put additional stress on the mounts locking pin.

