

INSTALLATION INSTRUCTIONS

AS-3029 ATLAS CLAMP ASSY 5/8" Stainless Band Mount

Tools Required:

1/2", 5/8" Sockets, 11/16" Deep Socket, 5/32" Allen Socket,
3/8" Open End Wrench, Dead Blow Hammer, Pliers,
Band Cutter, Torque Wrench, Hacksaw

Power tools can be used if care is given to not exceed torque values. Best practice is to lightly snug the fasteners down with power tools and torque to specification with a torque wrench. Using anti seize on stainless to stainless connections is mandatory when using power tools as the heat from rapid assembly will cause galling and seizure

Attaching Clamp Kit to Mast Arm or Pole

1. Place the female clamp on top of the mast arm. (Figure 1)
2. Place a clamp screw assembly in the adjacent pawl of the female clamp body with the hex nut flush with the end of the clamp screw threads. (Figure 1)
3. Bend the stainless band around the mast arm using the dead blow hammer to form the band to it tightly.

Note: It is critical to have the band as tight against the mast arm as possible.

4. Mark the band at the point it crosses the clamp screw head and cut the band 6" past the mark. (Figure 1)
5. Slide a band buckle on the band with the set screw to the outside. (Figure 2)
6. Slide the clamp screw on the band with the stud pointing away from the mast arm.
7. Center the clamp screw on the mark and bend the band to the inside 180 degrees. (Figure 2)

Caution: Make certain measurements are correct BEFORE bending the band. Once the band is bent, DO NOT straighten and re-bend; replace with a new band. The bending process weakens the band and rebending will cause fatigue resulting in a loss of strength in the band.

8. With a pair of pliers, crimp the bend in the band around the clamp screw and slide the band buckle over the free end of the band and position as close to the clamp screw assembly as possible. Torque the set screw in the band buckle to 13 ft-lb. (Figure 2)

Note: Make certain the free end of the band is turned to the inside and is a minimum of 6" long as shown in Figure 2.

9. Feed the wiring through the center of the clamp and position on the mast arm as desired.
10. Insert the clamp screw assembly in the pawl of the female clamp from which it was removed and snug the nut to hold the bracket in position. Use the dead blow hammer to form the band as necessary.
11. Repeat steps 3 through 10 for second band.

Continued on back

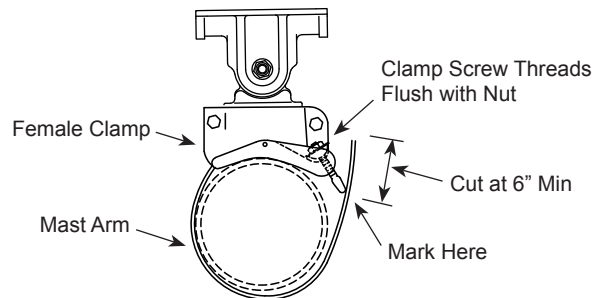
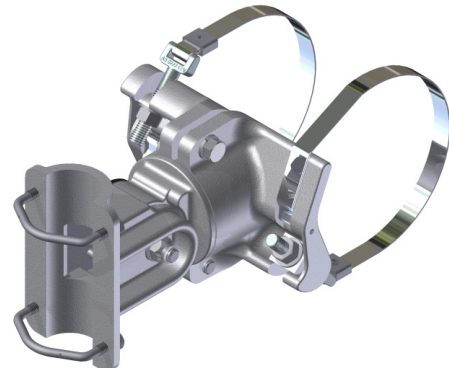


Figure 1

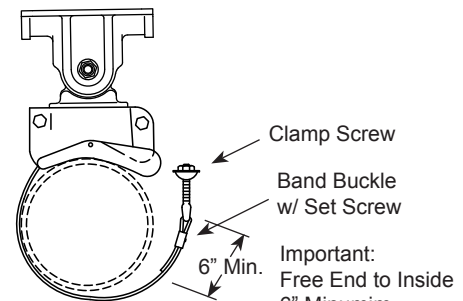


Figure 2

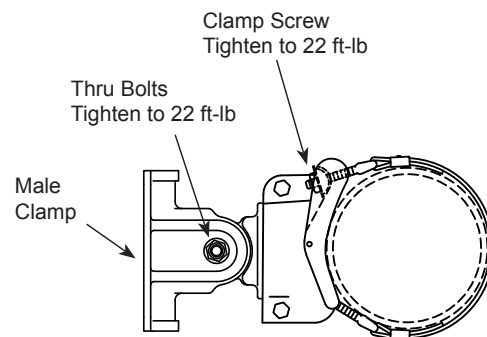


Figure 3

INSTALLATION INSTRUCTIONS

ATLAS CLAMP ASSY 5/8" Stainless Steel Bands

Continued from front

12. Plumb and level the bracket and torque (1) 7/16" clamp screw nut to 22 ft-lb. DO NOT OVERTIGHTEN. (Figure 3)
13. Tighten the (2) Thru-Bolts on Female Half of Clamp Kit to 22 ft-lb of torque. DO NOT OVERTIGHTEN. (Figure 3)
14. Torque the remaining 7/16" clamp screw nut to 22 ft-lb. DO NOT OVERTIGHTEN. (Figure 3)

Signal Assembly:

15. Position the lower arm centered on the signal with the tube channel in the back. Using the hardware kit(s) without the neoprene gasket(s), mount the arm to bottom of the signal(s). Torque the bolts to 6 ft-lb. DO NOT OVERTIGHTEN. (Figure 4)
16. Screw the tube/gusseted tube into the lower arm stopping at a point where the channel (if using a gusseted tube) is facing away from the signal. (Figure 5)
17. Slide the upper arm(s) down over the top of the tube and secure to the signal(s) using the hardware kit(s) with the rubber gasket(s). (Figure 4)
18. Torque the set screws to 13 ft-lb in the upper and lower arms. DO NOT OVERTIGHTEN. (Figure 5)
19. Optional: Using the hack saw, cut off any excess tube protruding above the upper arm. (Figure 5)
20. Mount the tube assembly (with its attachments installed) into the male clamp of the kit. Insert the v-bolts as shown and attach with lock washers and nuts. (Figure 6). Position the signal to the desired height and direction, torque nuts on (2) 5/16" v-bolts to 13 ft-lb. DO NOT OVERTIGHTEN.
21. Adjust the articulating joint as necessary and torque the 7/16" bolt to 36 ft-lb. DO NOT OVERTIGHTEN.
22. Route the wiring through the tube, through the lower arm, and to the signal connections. (Figure 4)
23. Cut the PVC insert to size and insert in the tube.
24. Slide in the bottom cover(s) and snap into place.

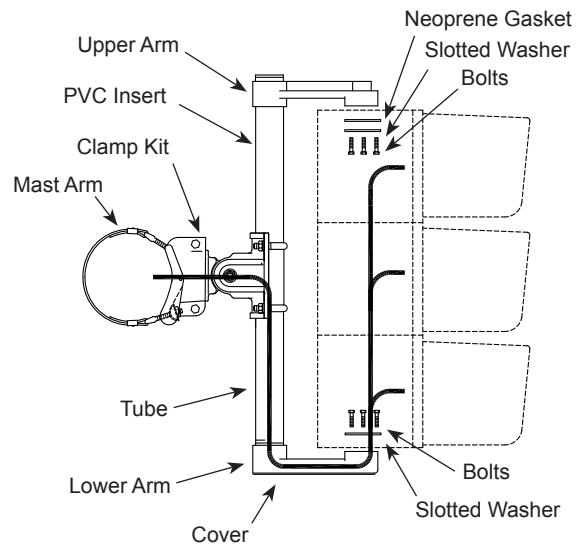


Figure 4

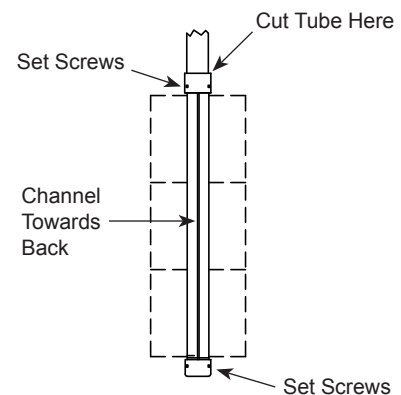


Figure 5

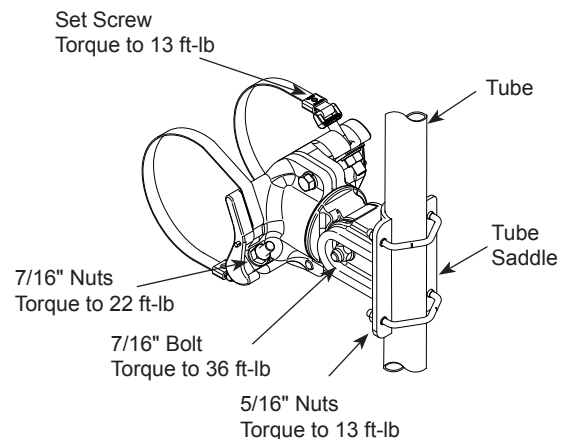


Figure 6

COVERED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS:
3586280, 3764099, 3854685, 4659046. OTHERS PENDING.

