

# INSTALLATION INSTRUCTIONS

## TALLON CLAMP ASSY 3/16" Cable

Tools Required: 1/2", 5/8" and 11/16" (deep) Socket, Box End Wrench or Ratchet (7" length approx.)  
3/8" Open End Wrench  
Torque Wrench or Equivalent  
Hack Saw

### Attaching Clamp Kit to Mast Arm or Pole

Attach the Saddle Clamp to the Saddle, but do not tighten any connections. Set this sub-assembly aside.

1. Place Tallon Clamp on the mast arm as shown in Fig. 1. Leave 2 to 3 threads exposed at the end of the Clamp Screw as shown.
2. Place both Cable Screw Assemblies in the casting pawls of the Talon Clamp as shown in Figure 2. Loosen the two (2) 5/16" bolts on each Cable Plate. Pull the cable loop to tighten the cable on the mast arm. To secure the cable with the Cable Plates, tighten the four (4) 5/16" bolts to 15-18 ft-lb of torque. **DO NOT OVERTIGHTEN.**
3. Back off each 7/16" cable screw nut to loosen the cable and adjust the Tallon Clamp to the desired position on the mast arm or pole as shown in Figure 3. Snug the cable screw nuts just enough to hold the Clamp Kit in position.

**NOTE: WHEN TIGHTENING THE CABLE SCREW ASSEMBLY, HOLD THE HEX PORTION WITH A 3/8" OPEN END WRENCH, OR EQUIVALENT. DO NOT ALLOW THE CABLE TO TWIST OR TURN AS THE CABLE NUT IS BEING TIGHTENED. DO NOT TIGHTEN TO THE FINAL TORQUE UNTIL STEPS 4 & 5 BELOW ARE COMPLETED.**

### Attaching the Vertical Pipe Assembly to the Clamp Kit

4. Attach the Saddle Clamp and Saddle sub-assembly to the Clamp body and align the Saddle to the desired orientation for the vertical pipe, then tighten the 7/16" Hex Hd bolts with a 5/8" Box End Wrench or deep socket to 20-22 ft-lb.
5. Insert and position in the Saddle the 1-1/2" Sch 40 pipe assembly (with its attachments installed) and torque the four 5/16" bolts on the Saddle Clamp to 15-18 ft-lb of torque with the 1/2" Box End Wrench.
6. Use a 3/8" Open End Wrench to hold the Cable Screw and tighten both Cable Screw Assembly Nuts to 20-22 ft-lb of torque, using an 11/16" Box End Wrench or Ratchet as shown in Figure 4.
7. Install cable Ty-Back/Restraining Clamp (AB-0256) per separate Instruction Bulletin No. 2037. Clamp will provide a neater cable appearance and a positive cable restraint.

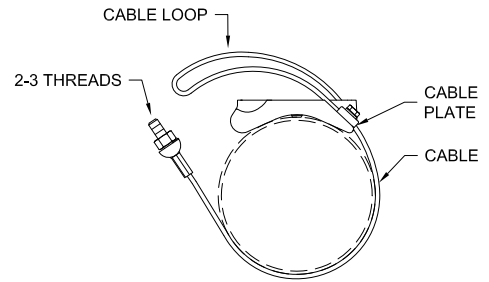


Figure 1

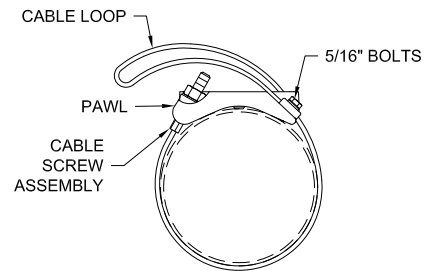


Figure 2

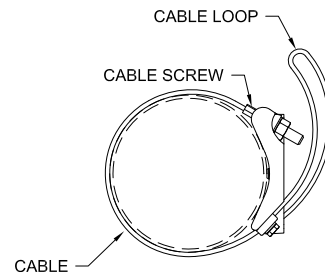


Figure 3

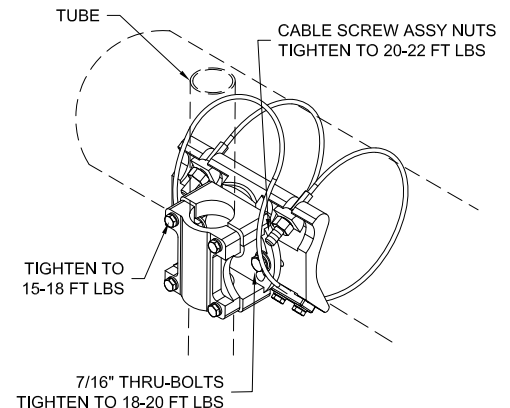


Figure 4



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### For All Arm and Tube Kits:

Gusseted  and Solid 

1. Mount lower arm to bottom of signal. Position arm so that tube boss will be centered in back of signal. (Figure 1). Using hardware kit without rubber gasket, secure arm to signal.
2. Screw tube into lower arm, being sure to stop at a point where the channel (if using a gusseted tube) is at the back, facing directly away from the signal. Slide upper arm down over top of tube and secure to signal, using hardware kit with rubber gasket. Hardware kit should be installed against the inside top of signal. (Figure 2).
3. After upper and lower arms are secure, and tube channel (if gusseted tube) is centered at back of tube, tighten set-screws in upper and lower arms. This will prevent rotation of tube after installation. (Figure 3).
4. Using hack saw, cut off any excess tube which may protrude above the upper arm. (Figure 4).
5. Finished assembly is now ready for installation on Clamp Kit. (Figure 5).

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

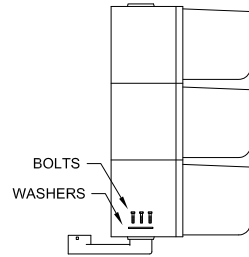


Figure 1

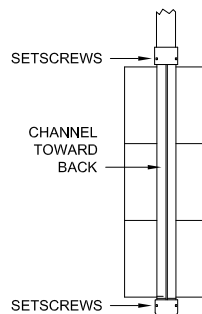


Figure 3

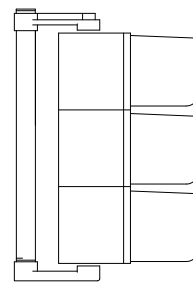


Figure 5

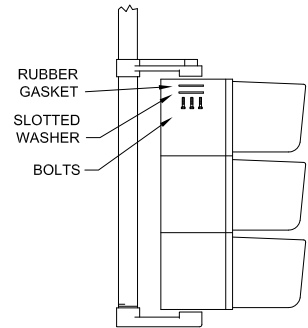


Figure 2

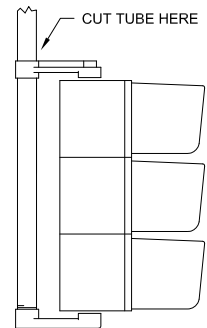
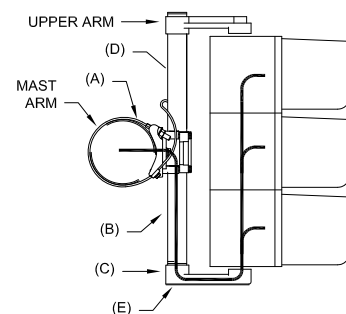


Figure 4

### How To Wire When Using The Astro-Brac

1. Wiring from inside the mast arm should be fed through field drilled hole in the mast arm and brought through Clamp Kit (A) to extruded Aluminum Support Tube (B) to Lower Arm (C) and to signal connections.
2. After running wire, cut Vinyl Insert to length and insert in Gusseted Tube (D).
3. Slide in Bottom Cover (E) and snap into place.



No Other Adjustable Bracket Gives You...  
**COMPLETELY CONCEALED WIRING!**

*The Astro-Brac provides the most versatile mounting system available*

