

# Installation Instructions

## Can-Brac Universal—2 3/8" to 48" OD Mast Arm

CBL-VU/HU Bracket Series, CBL-VUN/HUN Assembly Series

### Tools Required

- 9/16" SAE wrench or equivalent
- 3/4" SAE wrench or equivalent

### Attaching Can-Brac to Mast Arm

#### 1. Remove Signal Mount From Hub Assembly.

Using a 3/4" SAE wrench, remove 1/2" hex nut, lock washer and flat washer from 1/2" captive bolt. Repeat for other 1/2" captive bolt. Signal mount should slide off bolts easily. Install signal mount onto gusseted tube as per instructions - (Installing Signal Mount to Gusseted Tube).

#### 2. Attach Hub Assembly to Mast Arm.

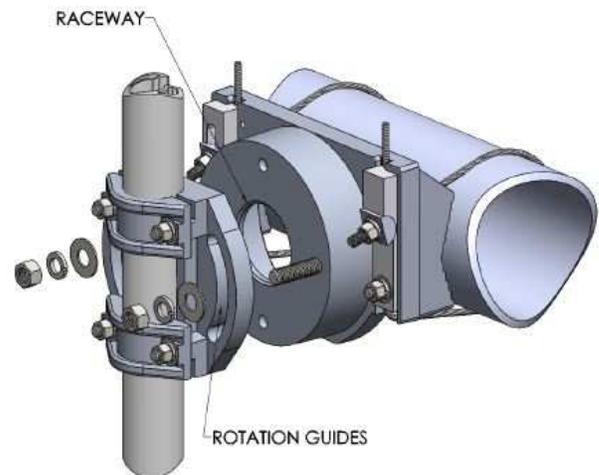
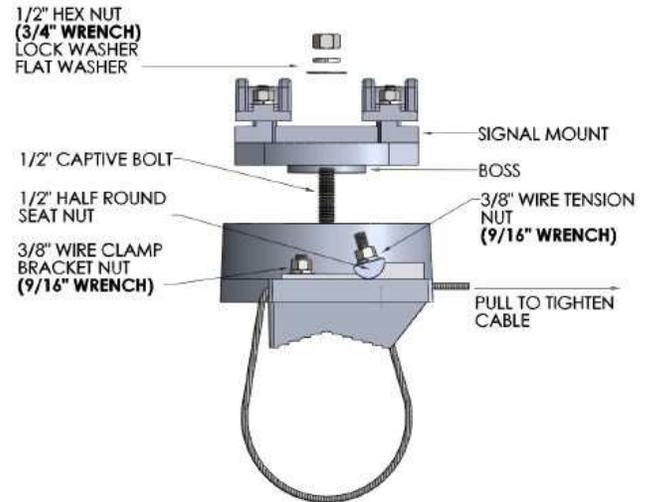
Using a 9/16" SAE wrench, loosen 3/8" wire tension nut, ensuring 2-3 threads are visible. Loosen the wire clamp bracket nut, but do not remove. Remove wire rope from wire clamp by pulling out from the wire clamp bracket nut side. Position Can-Brac Universal bracket onto mast arm, ensuring that the slots for the half round seat nut are in the uppermost orientation. Loop cable around mast arm, re-inserting back into the cable clamp guide. Pull the wire rope through the wire clamp assembly, removing any slack in the cable. Using a 9/16" SAE wrench, tighten the wire clamp bracket nut and make any final adjustments. Once the desired position is attained, tighten the 3/8" wire tension nut until the cable is fully tightened on the mast arm. If you reach the end of the threading on the bolt and the wire is still loose, repeat the step and ensure any slack in the wire rope is removed before tightening the tension bolt. Ideally, you will have removed enough slack that when you tighten the wire tension nut, you will only have 3/4" to 1" of thread showing. Repeat for the other side.

#### 3. Attach Signal Mount to Hub Assembly.

Reposition signal mount onto hub assembly, being careful to ensure the two 1/2" captive bolts are aligned into the Can-Brac rotation guides and the boss is fully seated into the raceway. Replace the washers and nuts in the proper order. Hand tighten the nuts, but allow for some looseness in the clamp to make final adjustments for position. Once the final position is set, tighten both nuts securely against the signal mount plate. Turn both nuts until you cannot tighten anymore with a wrench.

**\*NOTE:**

While we pre-load threads with Molybdenum based anti-seize compound (food plant grade), we highly suggest that the installer apply anti-seize compound on bolt threads as necessary. A small amount is all that is required.



#### Installation Tips:

When removing/replacing the signal mount, rotate so the 1/2" bolts line up closest to the ends of the rotation guides.

Using a ratchet with a deep socket or ratchet wrench will help speed installation.

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# Installation Instructions

## Can-Brac Universal—2 3/8" to 48" OD Mast Arm

### Tools Required

- 9/16" SAE wrench or equivalent
- Utility knife

### Attaching Signal Mount Plate to Gusseted Tube

#### 1. Remove Tube Clamps from Signal Mount.

Remove 9/16" hex nut, lock washer and flat washer from the 3/8" captive bolt. Repeat for other three captive bolts. Tube clamp should slide off bolts easily.

#### 2. Position Gusseted Tube on Signal Mount.

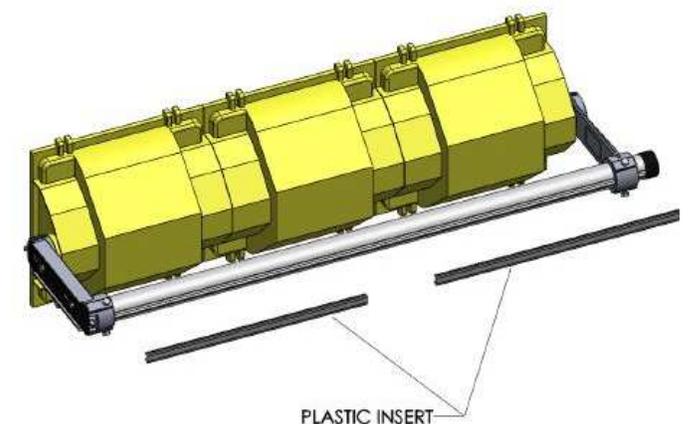
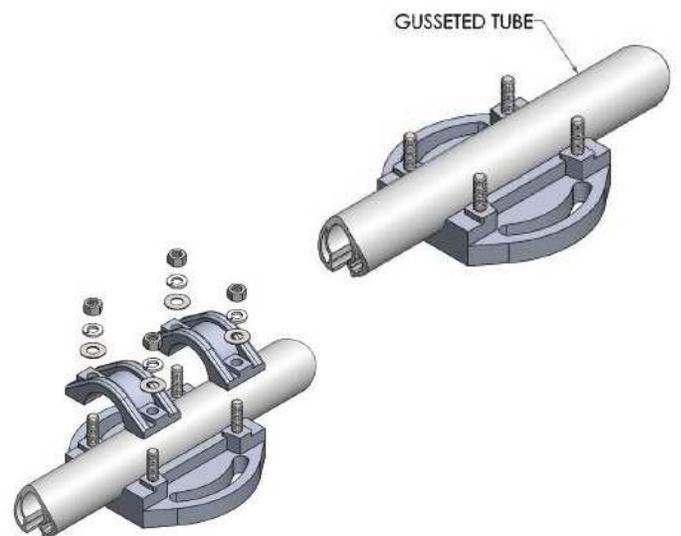
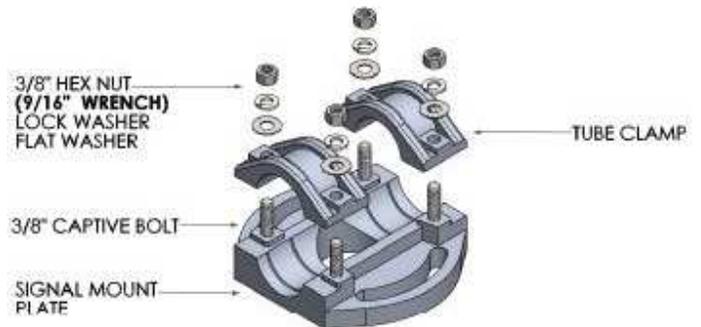
Remove plastic insert from the gusseted tube. Cut plastic insert so that it covers the channel on the back of the gusseted tube, leaving an opening at the wire access hole on the signal mount. Replace plastic insert into channel on gusseted tube and place tube onto signal mount plate with the plastic cover facing towards the plate face.

#### 3. Replace Tube Clamps onto Signal Mount.

Replace clamp, washers and nuts by reversing step 1. Hand tighten all clamp nuts equally so that the clamp is not installed unevenly. Allow for some looseness in the clamp to make final adjustments for position on the signal plate. Once the final position is set, tighten all nuts securely against the clamp. Turn the nut until you cannot tighten anymore with a wrench, repeat for the remaining nuts.

#### Installation Tip:

Install the signal mount plate onto the gusseted tube and signal assembly on the ground or in the shop to speed installation.



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# Installation Instructions

## Can-Brac Universal—2 3/8" to 48" OD Mast Arm

### Tools Required

- 1/2" SAE wrench or equivalent

### Attaching Lower & Upper Arms to Signal Assembly

#### 1. Attach Lower Arm to Gusseted Tube.

Remove plastic cap from threaded portion of gusseted tube. Remove tube cover if not already removed. Guide threads into lower arm assembly, threading into the arm as fully as is possible. Ensure that the opening on the gusseted tube is facing to the rear of the lower arm. Tighten set screws with a 1/2" wrench until the wrench cannot be turned anymore by hand.

#### 2. Attach Lower Arm to Signal Assembly.

Mount signal assembly to the lower arm by inserting the nipple into the bottom hole on the signal assembly. Secure the signal to the arm with the included nipple nut. If using a tri-bolt configuration, secure using the included bolts and nuts.

#### 3. Attach Upper Arm to Signal Assembly.

Remove plastic cap from top of gusseted tube and slide pipe into upper arm. Line up the top of the upper arm assembly with the signal assembly and secure with the included gasket, aluminum washer and nipple nut. If using a tri-bolt configuration, secure using the included bolts, nuts and gasket. Tighten set screws with a 1/2" wrench until the wrench cannot be turned anymore by hand. If necessary, cut the excess gusseted tube with a hacksaw to achieve the desired length. However, this is not required as part of the installation process. Replace plastic cap onto the top of the gusseted tube.

*\*It is recommended that anti-seize lubricant be used to ensure easy removal of the nuts in the future. A small amount is all that is required.*

