

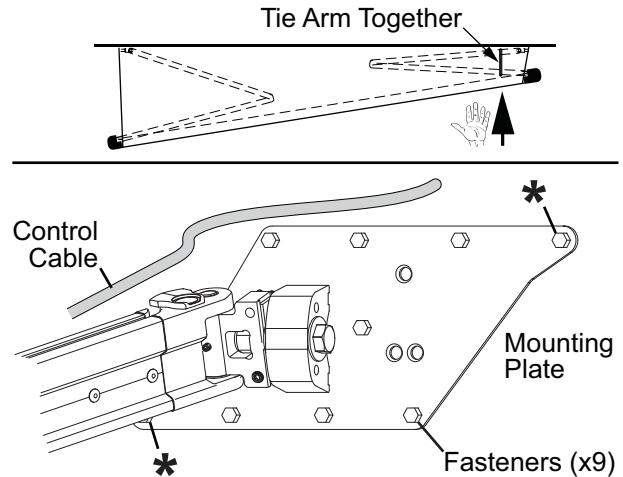
KNUCKLE MOUNTING SCREW REPLACEMENT

RV Kits

REPLACING THE MOUNTING PLATE

This procedure requires two people. The illustrations show the RH plate. The procedure is the same for the LH plate.

1. Open the awning 18"-24". This is to allow adequate room for tools and access to the mounting plate.
2. Disconnect power to the awning.
3. Do not remove the bottom inner screw and the outer upper screw marked with * in the illustration. Remove the rest of the plate fasteners and set aside.
4. On the side being repaired:
 - 4.1. Collapse the arm.
 - 4.2. Securely tie the arm channels together with zip ties. The ties should be close to the head.
5. Have a second person hold and support the roller tube and arm at the arm elbow.

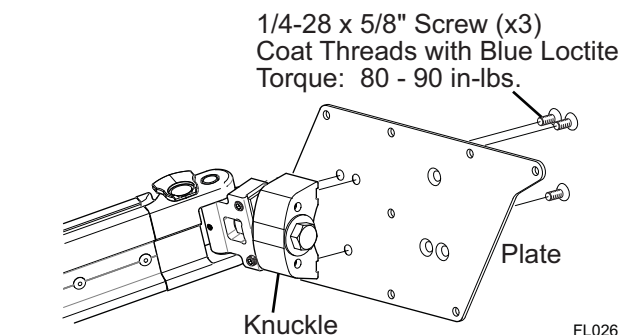


6. For the motor side mounting plate:

⚠ CAUTION When removing the plate on the motor side, use care to not pull or damage the cable.

* Remove these fasteners last when detaching the plate; Attach these fasteners first when attaching the plate

- 6.1. If the motor cable is routed into the vehicle outside of the plate: Partially remove the wire from the top of the arm channel to provide adequate slack to move the cable out of the way.
- 6.2. If the motor cable and LED harness are routed through a hole in the plate: Pull some slack cable out of the wall and cut the wires. It will be necessary to splice the wires together after the plate is installed.



7. Remove the two remaining screws in the mounting plate and rotate the arm and plate away from the wall.
8. From the back of the plate, remove the three (3) screws attaching the knuckle to the plate. Discard screws, do not reuse the screws that are removed.
9. Attach the mounting plate to the knuckle using the new 1/4-28 x 5/8" flat head screws in the kit. If not previously done, coat the threads with blue Loctite or equivalent and torque to 80 - 90 in-lbs.
10. Using the existing mounting holes in the wall, attach the plate to the wall with a minimum of 2 screws in the bottom inner screw position and the outer upper screw position.
11. Remove the arm ties and allow the roller tube to slowly extend out.

⚠ CAUTION Firmly hold the arm while removing the ties. When the arm is closed, it can open with significant force.
12. Install the remaining plate fasteners.

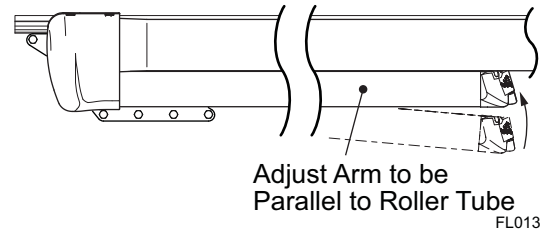
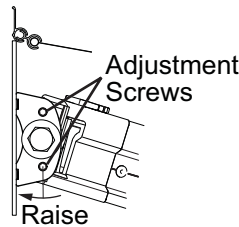
13. For the motor side mounting plate:
 - 13.1. If the motor cable is routed into the vehicle outside of the plate: Insert the motor cable into the groove in the top of the arm channel.
 - 13.2. If the motor cable and LED harness are routed through a hole in the plate: Use appropriate sized butt connectors to attach motor cable and LED wires that were cut previously. Be sure to match the wire colors.

<u>Wire</u>	<u>Wire Gauge</u>	<u>Butt Connector Size</u>
Red and Black LED wires	24awg	22-24 awg
Red and Black Power	16awg	14-16 awg
Brown, Yellow and Gray	20awg	18-22 awg
 - 13.3. If possible, push the connectors into the wall and seal the hole with a quality silicone sealant. Otherwise wrap the splices with quality electrical tape or equivalent.
14. Restore power.
15. Check that the arm is properly aligned with the roller tube. Refer to "Adjusting the Arm Position".
16. Extend the awning and check the pitch. To adjust the arm pitch refer to "Adjusting the Pitch".

ADJUSTING THE ARM POSITION

For the awning to operate and close correctly, the arms must be parallel to the roller tube. If the arm sags, the arm position can be adjusted to bring the arm parallel.

1. Open the awning 2"-3" to access the adjustment screws located on the side of the arm knuckle at the wall.
2. Loosen the upper screw (counterclockwise).
3. Tighten (clockwise) the lower screw to raise the arm elbow.



NOTE: Make adjustments in quarter turn increments.

Tip: Lift the arm at the elbow while tightening the lower screw.

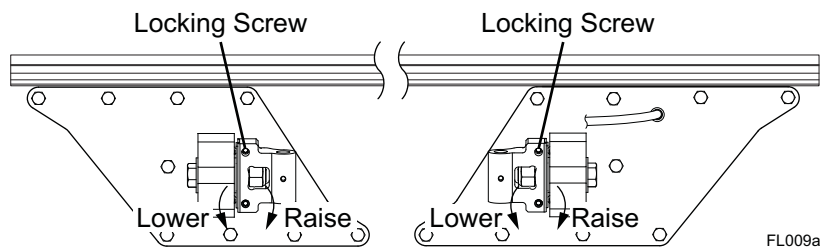
4. Repeat steps 2 and 3 until the arm is parallel with the roller tube.
5. Tighten the upper screw.

ADJUSTING THE PITCH

The awning pitch can be adjusted. It is strongly recommended that adjustments be made in small increments to achieve the desired setting.

This procedure works best with 2 people. One person to lift the roller tube to relieve the weight and one person to make the adjustments.

1. Open the awning.
2. Loosen the locking screw at the top of the knuckle.
3. To raise the pitch: Turn the lower adjustment screw clockwise.
4. To lower the pitch: Turn the lower adjustment screw counterclockwise.



5. Tighten the locking screws when the desired pitch is achieved.

Important Note: After the initial installation and the awning is opened, the awning may settle. This is normal. Check that the locking screws on the knuckle are snug.