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## Roller Bar End Cap (w/Round Drive Shaft) Replacement Instructions For Manual and Motorized Awnings

**Tools needed:**  $\frac{7}{16}$ " wrench,  $\frac{1}{2}$ " wrench, 10 mm wrench, chalk, Hammer, Vise Grip Locking Pliers, ladders.

**Parts included:** Roller Bar End Cap with Round Pin, Dark Gray Bushing (fits over Round Pin)

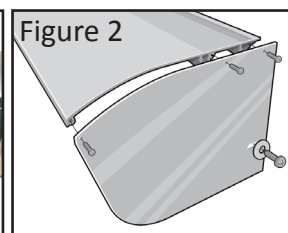
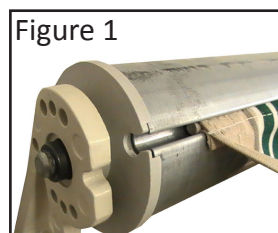
**WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY!!**  
**PLEASE READ THESE INSTRUCTIONS COMPLETELY BEFORE PERFORMING THIS PROCESS.**



**PLEASE NOTE THAT LEFT AND RIGHT REFERENCES ARE AS YOU ARE FACING THE HOUSE.**

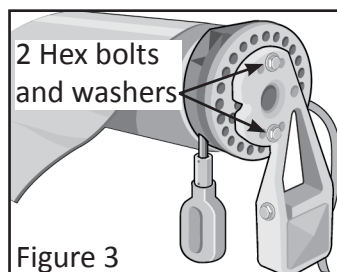
1. Open the Awning to the fully extended position.
2. Using the manual crank wand, continue to unroll the Fabric until you expose the Fabric Slot in the Roller Bar. See **Figure 1**.

**Note:** For Awnings that have a SunSetter Aluminum Hood installed, on the same side as the Motor or Gear Assembly, remove the Hood End Plate. See **Figure 2**.



**For Motorized Models,**  
follow Steps 3 - 12, then continue at Step 24.

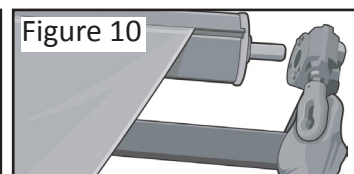
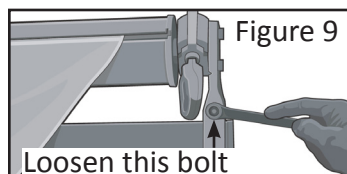
3. Unplug the power cord from the wall outlet. For Awnings with the Wall Switch, set the switch in the neutral (middle) position.
4. For Awnings with a Wall Switch or Receiver Box, disconnect the Motor Cord from the top of the Wall Switch or bottom of the Receiver Box, whichever is applicable.
5. While your helpers support both ends of the Roller Bar, remove the two  $\frac{1}{4}$ -20 hex bolts and washers (see **Figure 3**) that connect the Motor to the Roller Bracket, then remove the Roller Bar from between the Roller Brackets.



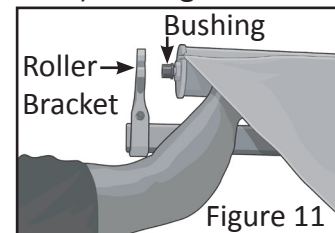
**Note the threaded holes on the Motor Plate and the holes in the Roller Bracket that the bolts are removed from.**

**For Manual Models,**  
follow Steps 13 - 23, then continue at Step 24.

13. While your helpers support both ends of the Roller Bar, use a 13 mm or  $\frac{1}{2}$ " wrench to loosen the Hex Bolt on the Roller Bracket that is connected to the Gear Assembly. See **Figure 9**.



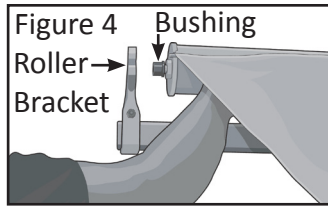
14. While supporting both ends of the Roller Bar, remove the Gear Assembly/Roller Bracket from the Roller Cap and Square Bar. (A hammer may be used to tap the Roller Bracket.) See **Figure 10**.
15. On the Roller Bar end that is opposite the Gear Assembly, move the Roller Cap out of the hole in the Roller Bracket. See **Figure 11**.



**Note:** Do not lose the dark gray Bushing that is on the pin end of the Roller Cap. See **Figure 11**.

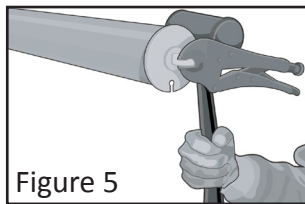
## Motorized models

6. On the Roller Bar end that is opposite the Motor, move the Roller Cap out of the hole in the Roller Bracket. **Do not lose the dark gray Bushing** that is on the Pin End of the Roller Cap. See **Figure 4**.



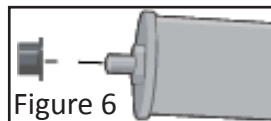
7. Allow the Roller Bar, with the Fabric still attached, to slide down the Lateral Arms toward the Front Bar approximately 2-3 feet. The Awning Fabric will lie across the extended Arms. Have your helper support the Roller Bar on the Arms.

8. While your helper holds the Roller Bar and Fabric stationary, use the locking pliers to clamp onto the Round Drive Shaft extending out of the gray Roller Cap. If necessary, use the hammer to tap on the locking pliers and remove the gray Cap from the Roller Bar. See **Figure 5**.

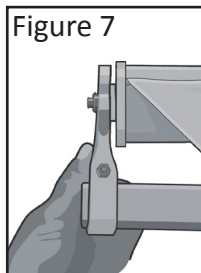


9. Insert the replacement Roller Cap into the open end of the Roller Bar.

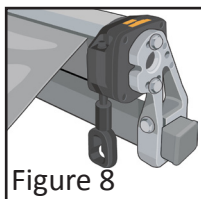
10. Place the dark gray Bushing over the pin on the end of the Roller Cap. See **Figure 6**.



11. Insert the Roller Cap and Bushing into the hole in the Roller Bracket. See **Figure 4**. There should be no gap between the Roller Cap and the Roller Bracket. See **Figure 7**.



12. Attach the Motor to the Roller Bracket with the two ¼-20 hex bolts and washers. Be very careful not to cross-thread the hex bolts, start the bolts by hand and finish tightening with the ⅜" wrench. See **Figure 3**.



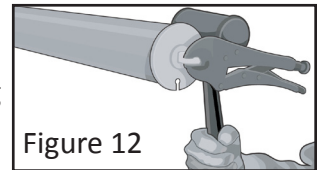
The manual override Crank Loop should be facing down. See **Figure 8**.

Continue at Step 24.

## Manual models

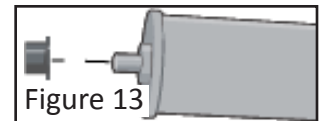
16. Allow the Roller Bar, with the Fabric still attached, to slide down the Arms toward the Front Bar approximately 2-3 feet. The Awning Fabric will lie across the extended Arms. Have your helper support the Roller Bar on the Arms.

17. While your helper holds the Roller Bar and Fabric stationary, use the locking pliers to clamp onto the round Drive Shaft extending out of the gray Roller Cap. If necessary, use the hammer to tap on the locking pliers and remove the gray Cap from the Roller Bar. See **Figure 12**.

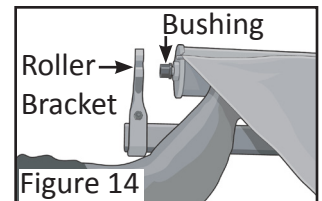


18. Insert the replacement Roller Cap into the open end of the Roller Bar.

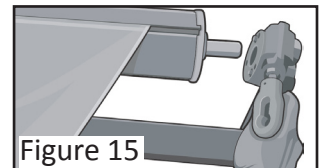
19. Place the dark gray Bushing over the Pin on the end of the Roller Cap. See **Figure 13**.



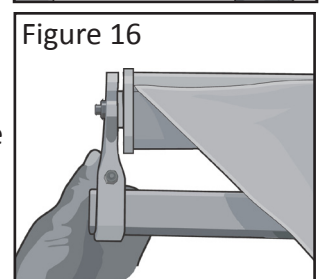
20. Insert the Roller Cap and Bushing into the hole in the Roller Bracket. See **Figure 14**.



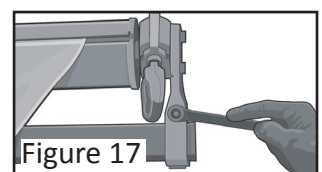
21. Slide the Roller Bar and Fabric up toward the Square Bar.



22. While your helper supports the Roller Bar, install the Roller Bracket attached to the Gear Assembly onto the Square Bar. See **Figure 15**.



23. While your helper checks that there is no gap between the Roller Bracket and the Roller Cap in the Roller Bar (see **Figure 16**), tighten the Retaining Bolt on the Roller Bracket attached to the Gear with a 13 mm or ½" wrench. See **Figure 17**.



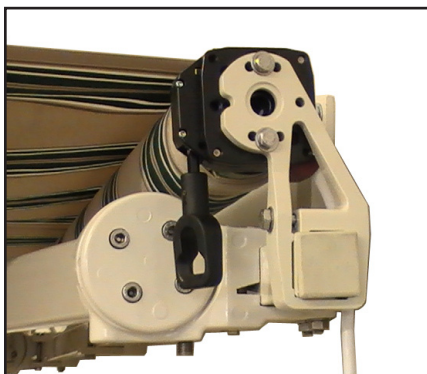
Continue at Step 24.

**Continue here for all models:**

24. Center the Fabric on the Front Bar and Roller Bar.
25. While keeping the Fabric reasonably stretched on the Roller Bar, use the manual Crank Wand to slowly roll the Fabric onto the Roller Bar, until both Arms start to close.
26. Reinstall the Hood End Plate, if removed. See **Figure 2**.
27. If applicable: reconnect the Motor Cable to the Wall Switch or Receiver Box and make sure that the Wall Switch is set in the neutral (middle) position.
28. Plug the power cord back into the wall outlet.
29. Test the Awning for proper operation.

**Note: IF NEEDED, reset the motor stops using the supplied instructions.**

**How to Identify Your Specific Type of Motor for Resetting Motor Stops**

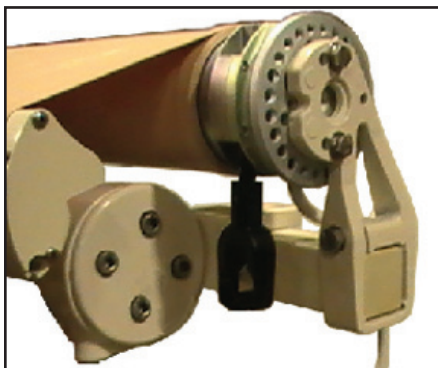


**RTS Type Motor - USE APPENDIX B**

Shipped with Awnings prior to 2012.

Identified by Black Square Motor Plate on End.

Set the Open and Close Stop Positions with Manual Push Buttons on the Motor.



**Sunea Type Motor - USE APPENDIX D**

Shipped with Awnings beginning in 2012.

Identified by Silver Round Motor Plate on End.

Set the Open and Close Stop Positions with the Remote Transmitter and Electronic Controls inside the Motor.

# APPENDIX B

## RESETTING THE LIMIT PUSH BUTTONS OF THE SUNSETTER MOTOR

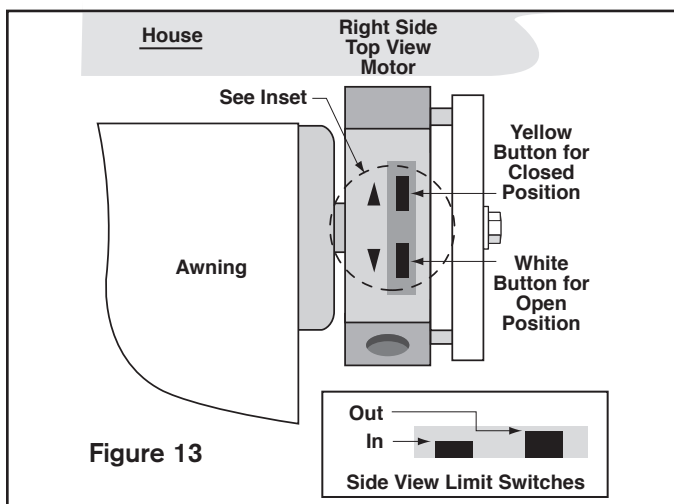
### Awnings with Motors installed on the Right as you face the house

**Note:** Visual Guide available on Installation DVD and on the Owner's Corner.

1. If the motor on your SunSetter Awning is mounted on the right, as you face the house, complete Steps 1 thru 13. If motor on your SunSetter Awning is mounted on the left, as you face the house, complete Steps 14 thru 24 on page 18.

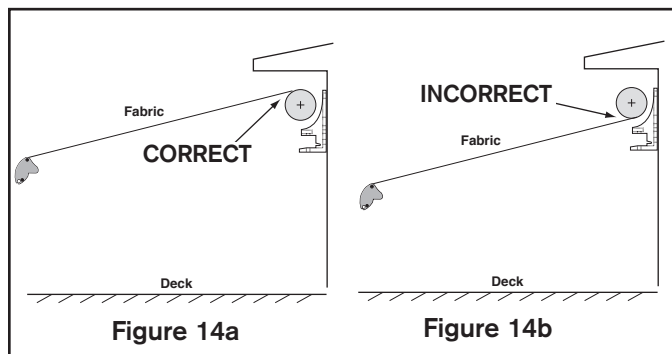
**Note:** If your awning has a Hood installed, you may need to remove the right end plate from the Hood to gain access to the motor push buttons.

2. Press the Neutral/Stop button on the remote.
3. Unplug the power cord from the electrical outlet on the wall.
4. From a stepladder locate the limit push buttons on the motor. These push buttons will be on top of the motor housing under a black plastic protective cap – see Fig 13.
5. Grasp the black protective cap and lift it up. You will notice one yellow button and one white button inside a recessed area. These are the limit push buttons for the **OPEN** and **CLOSE** positions for the motorized awning.
6. Clear the Factory Settings by separately pressing both buttons (white and yellow) until they are both 'IN' or at their lowest point inside the recessed area of the motor housing –see figure 13. You should practice this a few times to understand this process.



7. Manually crank the awning open to the point where both lateral arms 'lock' into the fully extended position. The fabric will also be at its tightest point.

**NOTE:** The fabric should be rolling over the top of the roller bar (figure 14a), not underneath (figure 14b). If the fabric is rolling from the bottom of the roller bar, continue unrolling the fabric until it rolls over the top of the roller bar. Then roll up the fabric until both lateral arms 'lock' and the fabric becomes tight.



8. Depress the white button so that it is in the 'OUT' position (or closer to the top of the recessed area on the motor housing). Now the **OPEN** position stop is set.

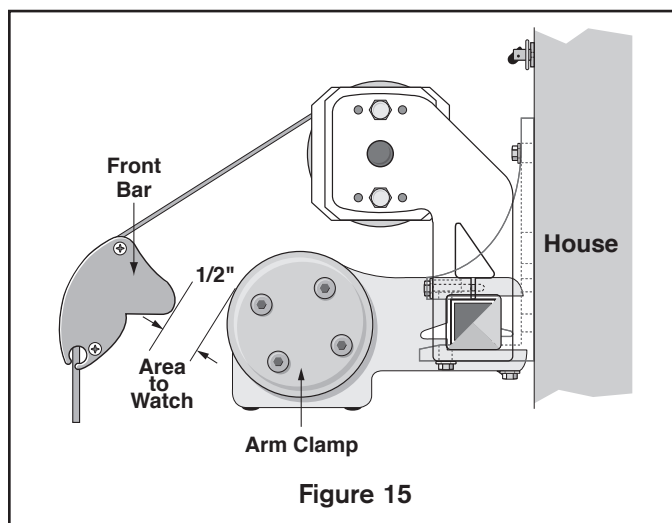
9. Manually roll the awning up until it is almost completely closed. The area to watch is where the front bar almost touches the round side of the arm clamp – see figure 15. Leave about 1/2" gap between the front bar and the round side of the arm clamp.

10. Depress the yellow button so that it is in the 'OUT' position (or closer to the top of the recessed area on the motor housing). Now the **CLOSE** position stop is set.

11. Replace the black protective cap on the motor housing. Be careful that the cap will not accidentally depress one of the limit push buttons underneath.

12. Plug the power cord back into the electrical outlet on the wall.

13. Test the awning for proper operation. Reinstall Hood end plate if removed.



## Awnings with Motors installed on the Left as you face the house

14. Press the Neutral/Stop button on the remote.

15. Unplug the power cord from the electrical outlet on the wall.

**Note: Black protective cap for use with Right Motor Installations Only.**

16. From a stepladder locate the limit push buttons on the motor. These push buttons will be on the underside of the motor housing. – see Figure 16.

17. You will notice one yellow button and one white button inside a recessed area. These are the limit push buttons for the **OPEN** and **CLOSE** positions for the motorized awning.

18. Clear the Factory Settings by separately pressing both buttons (white and yellow) until they are both '**IN**' or at their lowest point inside the recessed area of the motor housing –see figure 16. You should practice this a few times to understand this process.

19. Manually crank the awning open to the point where both lateral arms 'lock' into the fully extended position. The fabric will also be at its tightest point.

**NOTE:** The fabric should be rolling over the top of the roller bar (figure 14a), not underneath (figure 14b). If the fabric is rolling from the bottom of the roller bar, continue unrolling the fabric until it rolls over the top of the roller bar. Then roll up the fabric until both lateral arms 'lock' and the fabric becomes tight.

20. Depress the yellow button so that it is in the '**OUT**' position (or closer to the top of the recessed area on the motor housing). Now the **OPEN** position stop is set.

21. Manually roll the awning up until it is almost completely closed. The area to watch is where the front bar almost touches the round side of the arm clamp – see figure 17. Leave about 1/2" gap between the front bar and the round side of the arm clamp.

22. Depress the white button so that it is in the '**OUT**' position (or closer to the top of the recessed area on the motor housing). Now the **CLOSE** position stop is set.

23. Plug the power cord back into the electrical outlet on the wall.

24. Test the awning for proper operation.

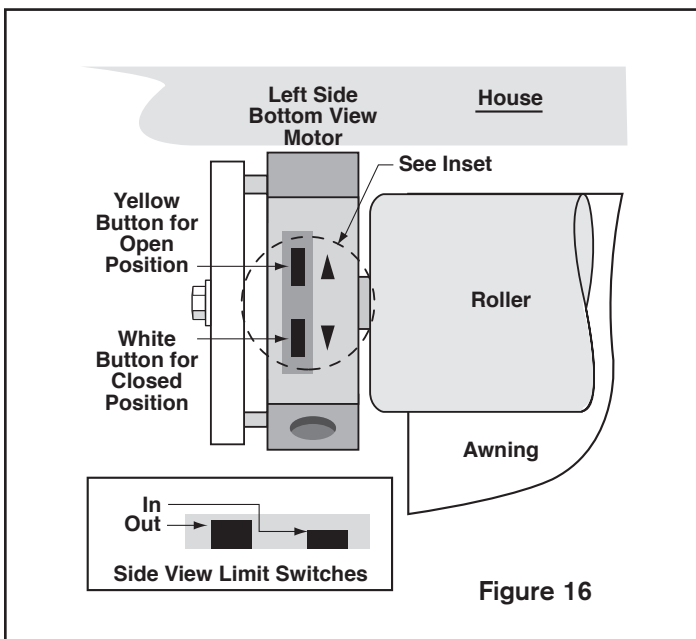


Figure 16

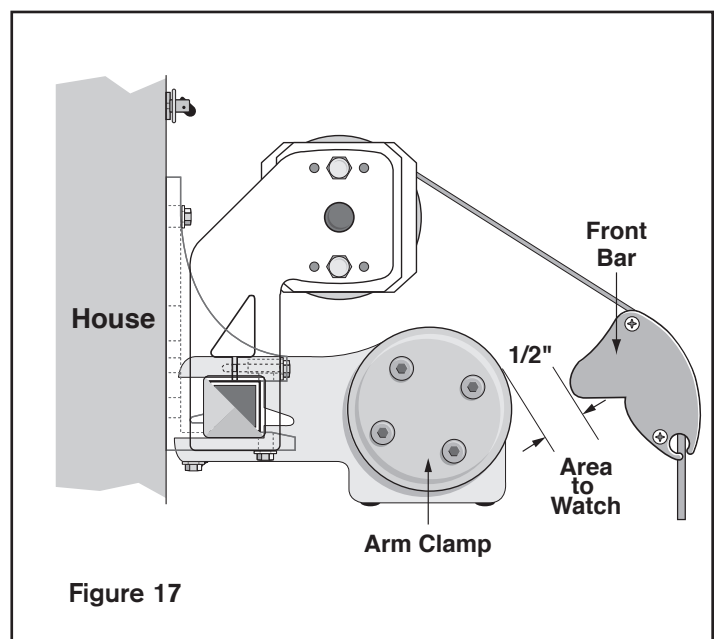


Figure 17



## APPENDIX D

### Resetting the Communication Between the Remote Transmitter and the Motor

This procedure describes the actions needed to reset the communication between the Motor and the primary Remote Transmitter used to control your Motorized Awning.

This procedure programs the Awning Motor to accept commands from one primary Remote Transmitter.

This procedure overwrites the factory set **Open** and **Closed** positions with new **Open** and **Closed** positions.

**Note:** To **ONLY** change the Open and Close preset positions, follow the basic procedure in Appendix B.

**Tools needed:** A pen or similar pointing device is needed to press and hold the Programming Button.

**WARNING: ALL STEPS MUST BE FOLLOWED EXACTLY AND COMPLETELY.**

Front View



#### PREPARE MOTOR

1. Read these instructions FIRST, completely and thoroughly.
2. Press and Hold the **my** button; the red LED light should blink for at least 5 seconds.
3. Disconnect Power for five (5) full seconds.
4. Connect Power for ten (10) full seconds.
5. Disconnect Power for five (5) full seconds.
6. Connect Power. The Awning should move, then stop on its own.
7. Press and hold the **Programming** button for ten (10) seconds, watching for two (2) separate jogs back and forth, several seconds apart.

**Note:** A single jog is defined as a quick two-direction movement of the motor.

8. Press and Hold the **CLOSE** (up arrow) and **OPEN** (down arrow) buttons together, release when the Awning jogs.

**Note:** The Awning now moves **ONLY** while holding down the **CLOSE** (up arrow) or **OPEN** (down arrow) button.

#### SET PROPER DIRECTION OF MOTOR ROTATION

9. Press the **OPEN** (down arrow) button to check the direction of the motor.  
The fabric should **roll from the top** of the Roller Bar, opening the Awning.
10. If the direction is incorrect, change direction by holding the **my** button until the motor jogs.  
Press the **OPEN** (down arrow) button again to check for the correct direction of the motor rotation.

#### SET THE CLOSED AND OPEN POSITIONS

11. Move the Awning to the desired **Closed** position.
12. Press and Hold the **my** and **OPEN** (down arrow) buttons together; release when the Awning begins to **Open**.
13. Press the **my** button to **Stop** the Awning at the desired **Open** setting.
14. Make desired adjustments to the **Open** position.
15. Press and Hold the **my** and **CLOSE** (up arrow) buttons simultaneously; release them when the Awning begins to **Close**. **Let the Awning stop on its own** at the **Closed** position set in step 11.
16. Press and Hold the **my** button; release when the Awning jogs. This step stores the new **Open** and **Close** positions.

**Note:** If steps 8 - 15 fail, unplug the Awning, plug it back in, then begin again from step 8.

#### FINALIZE PROGRAMMING OF MOTOR

17. Press and Hold the **Programming** button; wait for a jog. This completes the procedure.  
**Note:** The Awning now operates with a touch and release of the **OPEN** (down arrow) or **CLOSE** (up arrow) button.
18. Test the Awning for correct one-touch operation, using the **OPEN** (down arrow) and **CLOSE** (up arrow) buttons.

### To Add or Delete a Control Device (Transmitter)

To **ADD** an additional Control Device (such as a 2<sup>nd</sup> Remote, All Weather Remote, Wind Sensor, or Wall Switch);

- Press the Programming button on the back of the Transmitter that was supplied with the Awning until the motor “jogs.”
- On the additional Control Device, press the Programming button until the motor “jogs,” then release

To **DELETE** a Control Device, repeat the two steps listed above and the additional Control Device is removed.

Rear View

