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## Motor Upgrade Instructions for Manual (VISTA) Awnings

**\*Helper Needed\***

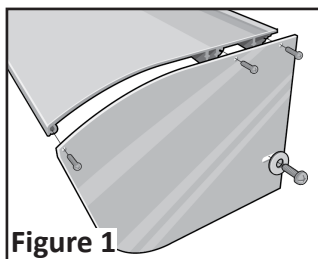
**Tools Needed:**  $\frac{7}{16}$ " Wrench, (either 6 mm Allen Wrench, 13 mm or  $\frac{1}{2}$ " Wrench - see **Figure 4**), 10 mm Wrench, Hammer, Vise Grip Locking Pliers, and a small tool such as a Paper Clip.

**Parts Supplied:** Motor and four  $\frac{1}{4}$ -20 Hex Bolts (two  $\frac{3}{4}$ " long bolts and two  $1\frac{1}{8}$ " long bolts), two Lock Washers, two Flat Washers, a Remote Transmitter with Wall Holder, a Motor Override Crank with a 4 mm x 10 mm Cap Screw and Washer, and one 3 mm Allen Wrench.

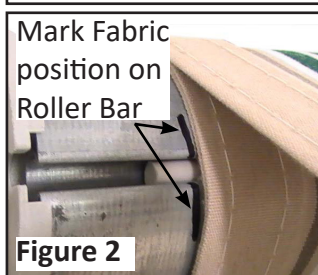
**WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY!!**  
**PLEASE READ THESE INSTRUCTIONS COMPLETELY BEFORE PERFORMING THIS PROCEDURE.**  
**PLEASE NOTE THAT LEFT AND RIGHT REFERENCES ARE AS YOU ARE FACING THE HOUSE.**

1. Open the Awning to the fully extended position.

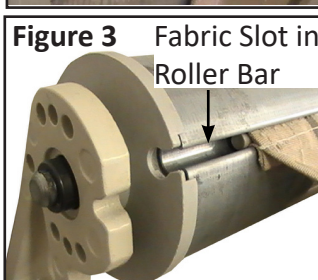
**Note:** If a SunSetter Aluminum Hood is installed, remove the Hood End Plate from the right side (Gear side). See **Figure 1**.



2. Mark the Roller Bar with the position of the Fabric, on the left side. This is the opposite end of the Gear Assembly. See **Figure 2**.

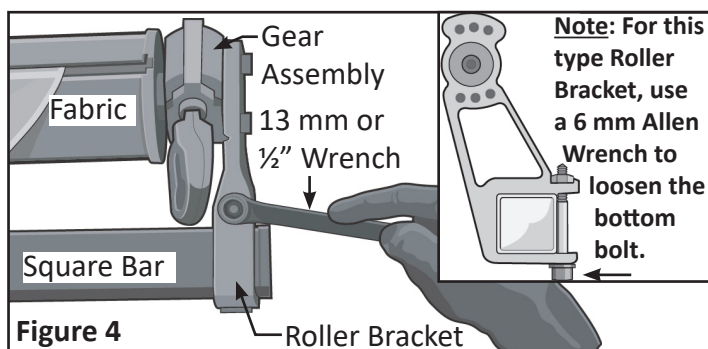


3. Using the Manual Crank Wand, continue to unroll the Fabric until the Fabric Slot in the Roller Bar is exposed. See **Figure 3**.



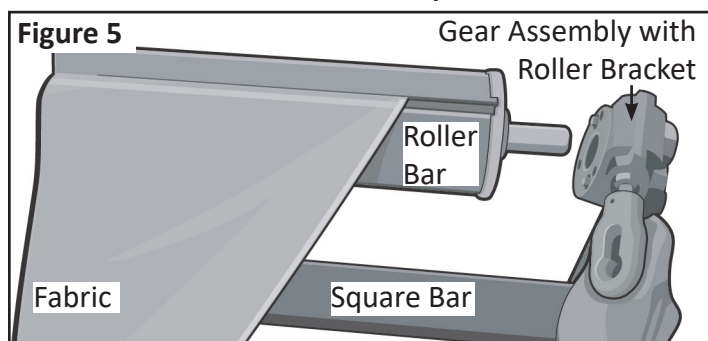
4. Remove the Crank Wand.

5. While your helper supports the end of the Roller Bar opposite the Gear Assembly (left side), use a 6 mm Allen wrench or a 13 mm (or  $\frac{1}{2}$ " wrench) to loosen the Allen head or Hex Bolt on the Roller Bracket that is connected to the Gear Assembly. See **Figure 4**.



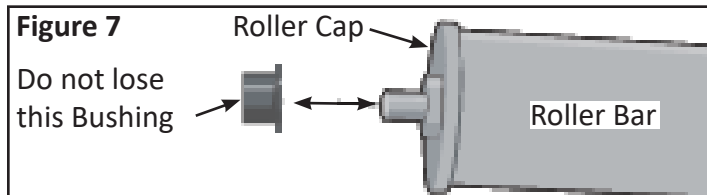
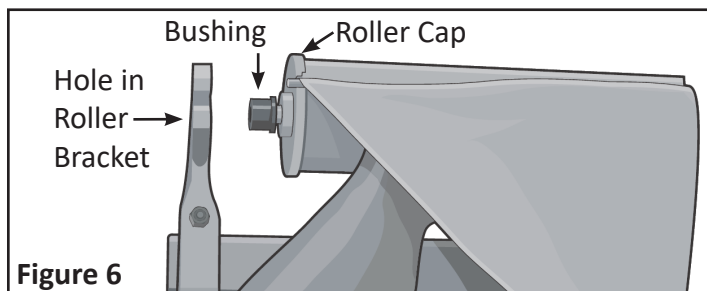
6. While supporting both ends of the Roller Bar, remove the Gear Assembly with Roller Bracket from the Roller Bar and Square Bar. See **Figure 5**.

**Note:** You may have to gently tap on the Roller Bracket to remove it from the Square Bar.



7. 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 6**.

**Note:** Do not lose the nylon Bushing that is on the Pin End (left side) of the Roller Cap. See Figures 6 & 7.



8. Slide the Roller Bar, with the Fabric still attached, down the Lateral Arms, stopping at the Front Bar.

**Note:** The Arms will support the weight of the Roller Bar and Fabric.

**WARNING: DO NOT LEAVE AWNING UNATTENDED WITH ROLLER BAR DISCONNECTED FROM BRACKETS, OR PERSONAL INJURY CAN OCCUR.**

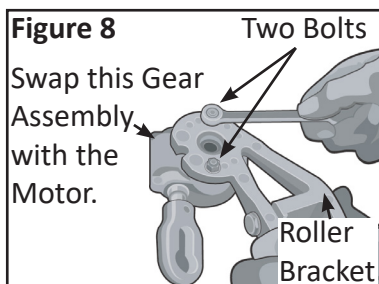
9. Slide the Roller Bar off the Fabric.

10. The Fabric is now attached only to the Front Bar.

**Note:** Protect the Fabric from being soiled or damaged while attached to only the Front Bar.

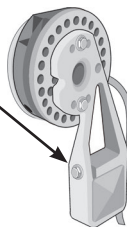
11. Place the Roller Bar on two chairs, work surface, or on the ground.

12. Using a 10 mm wrench, loosen and remove the two bolts, washers and lock nuts that connect the Gear Assembly to the Roller Bracket. See Figure 8.

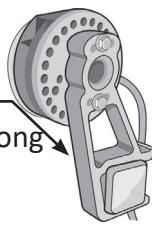


**Note:** Choose the correct bolts to fit the Bracket.

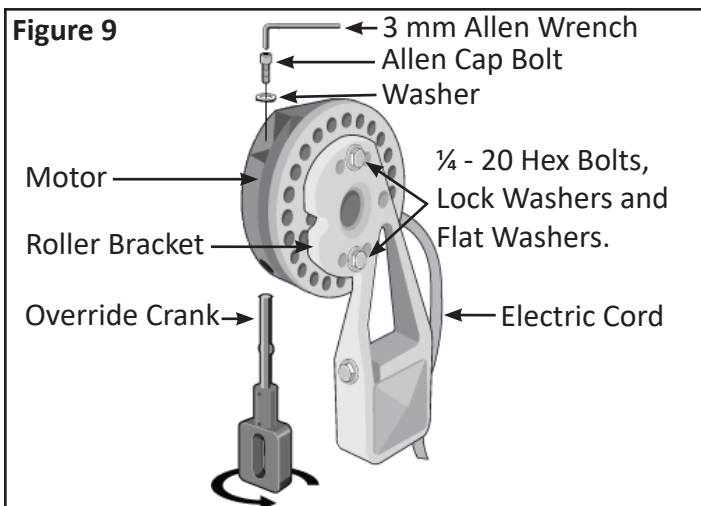
If the Awning Roller Bracket looks like this, use the  $\frac{3}{4}$ " long  $\frac{1}{4}$ -20 bolts.



If the Awning Roller Bracket looks like this, use the  $1\frac{1}{2}$ " long  $\frac{1}{4}$ -20 bolts.



13. Using the Marked Holes on the Motor, attach the Roller Bracket you removed from the Gear Assembly to the Motor using the two supplied  $\frac{1}{4}$  - 20 Hex Bolts, Lock Washers, and Flat Washers. See Figure 9.

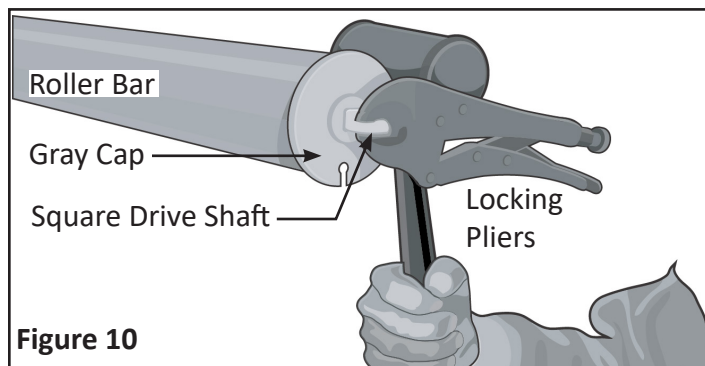


**Note:** Be very careful not to cross-thread the Hex Bolts; start the bolts by hand and finish tightening with the  $\frac{3}{16}$ " wrench.

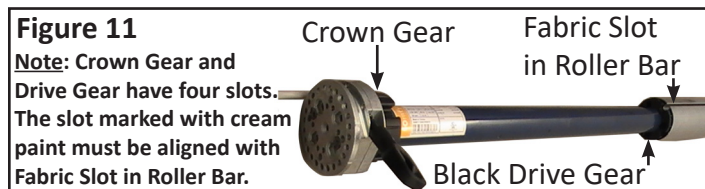
**Note:** The Electric Cord orientation will be facing down. See Figure 9.

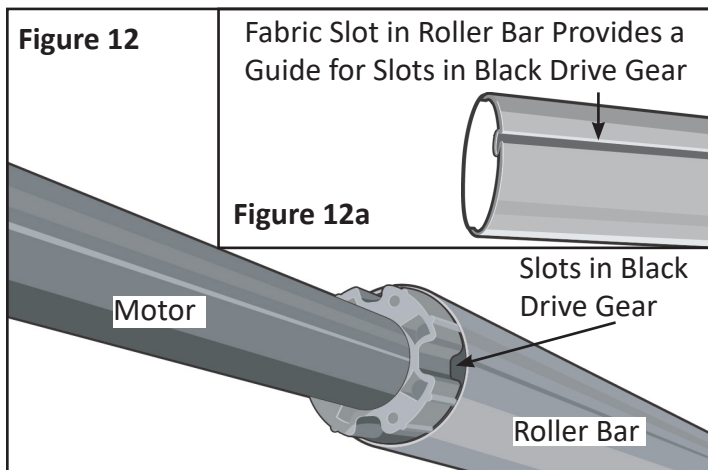
14. Insert the Override Crank into the Motor from the bottom, then secure from the top with the Allen Cap Bolt and Washer, using the supplied 3 mm Allen wrench. See Figure 9.

15. While your helper holds the Roller Bar stationary, use the Locking Pliers to clamp onto the Square Drive Shaft extending out of the gray Roller Cap (the end where the Gear Assembly was removed). Use the Hammer to tap on the Locking Pliers and remove the Gray Cap from the Roller Bar. See Figure 10.



16. Insert the new Motor into the open end of the Roller Bar, aligning the slots (marked at the factory with cream paint) in the black Drive Gear and the black Crown Gear with the Fabric Slot in the Roller Bar. See Figures 11, 12 and 12a.

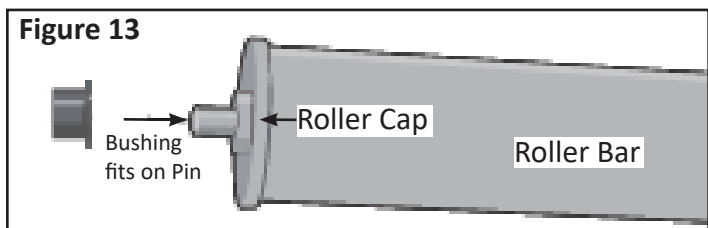




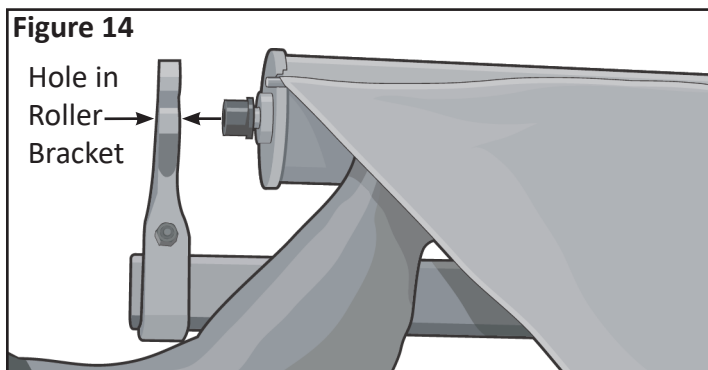
**17.** Slide the Roller Bar back onto the Fabric.

**18.** Slide the Roller Bar and Fabric up toward the Roller Brackets.

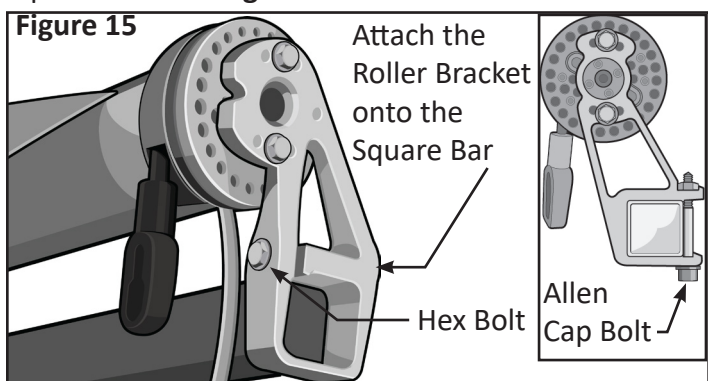
**19.** On the side opposite the Motor, have your helper place the nylon Bushing over the Pin on the end of the Roller Cap. See **Figure 13**.



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

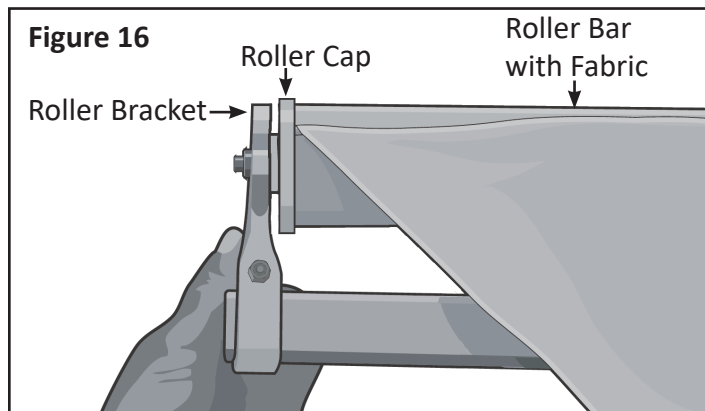


**21.** While your helper supports the Roller Bar, install the Roller Bracket attached to the Motor onto the Square Bar. See **Figure 15**.



**22.** 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 Bolt on the Roller Bracket** attached to the Motor with a 13 mm or ½" wrench (or 6 mm Allen wrench. See **Figure 15**.

**WARNING: DO NOT OVER-TIGHTEN THIS BOLT. OVER-TIGHTENING THIS BOLT CAN CRACK THIS STRUCTURAL BRACKET AND CAUSE THE ROLLER BAR AND FABRIC TO BE SEPARATED AND FALL FROM THE AWNING ASSEMBLY, WHICH COULD RESULT IN PERSONAL INJURY!**



**23.** Align the Fabric on the Roller Bar with the marks made in **Step 2**. See **Figure 2**.

**24.** 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 the Awning is approximately half way closed.

**Note:** The Fabric should be rolling over the top of the Roller Bar, not underneath it.

**25.** Replace Hood End Plate, if applicable. See **Figure 1**.

**26.** Plug the power cord into your outdoor ground fault receptacle (GFI) outlet.

**27.** Set the Open and Closed settings using the attached instruction sheet, **Appendix A**.

**28.** Test the Awning for proper operation.

- Press and release the **OPEN** button, the Awning should Open all the way until it reaches the preset stop limit, then it will stop on its own.
- Press and release the **CLOSE** button, the Awning should Close all the way until it reaches the preset stop limit, then it will stop on its own.
- Press and release the "my" button any time to Awning is Opening or Closing, and the Awning should stop.

## Appendix A

This procedure describes the actions needed to establish communication between the new Motor and the Remote Transmitter that will be used to control your Awning and set the new CLOSE and OPEN positions.

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

**WARNING: THIS PROCEDURE MUST BE FOLLOWED THOROUGHLY AND COMPLETELY.**

Front View



Rear View



**Note: Using the Channel Selector Button, set the Remote to the preferred Channel.**

1. Press and Hold the **CLOSE** and **OPEN** buttons together until the Awning jogs.  
**Note:** If your Awning Motor is installed on the **left** as you face the house continue with Step 3. If your Awning Motor is installed on the **right** as you face the house continue with Step 2, to change the direction of the Motor rotation.
2. To change the Motor direction Press and Hold the **my** button until the motor jogs. The **CLOSE** button should cause the Awning to move in the close direction, with the Fabric rolling on to the top of the Roller Bar.
3. Use the **CLOSE** button to move the Awning to the desired closed position.
4. Press and Hold the **my** and **OPEN** buttons simultaneously; release them when the Awning begins to open.
5. Press the **my** button to Stop the Awning at the desired open position.
6. Use the **CLOSE** and **OPEN** buttons to make desired adjustments to the open position.
7. Press and Hold the **my** and **CLOSE** buttons simultaneously; release them when the Awning begins to move. The Awning stops at the close position set in step 3.
8. Press and Hold the **my** button; release when the Awning begins to move. The Awning will move slightly, then stop on its own.
9. Press and Hold the **Programming Button**, wait for awning to jog.
10. Process complete. Test the Awning for correct open and close settings.

**Note: To only **adjust** the open or close settings, use the following procedures.**

TO CHANGE THE OPEN LIMIT:

Move the Awning to its current open position and let it stop on its own. Press the **CLOSE** and **OPEN** buttons together until the Awning jogs, then release. Adjust to a new open position. Press the **my** button until the Awning jogs, then release. Check the new Open setting.

TO CHANGE THE CLOSE LIMIT:

Move the Awning to its current close position and let it stop on its own. Press the **CLOSE** and **OPEN** buttons together until the Awning jogs, then release. Adjust to a new close position. Press the **my** button until the awning jogs, then release. Check the new close setting.

To Add an Additional Control Device (such as a **Wireless Wind Sensor**) to the Awning;

- A. Press the Programming button on the back of the Remote Transmitter that controls your Awning and wait for a short movement or back and forth jog of the Motor.
- B. Press the Programming button on the Additional Control Device and hold until a short movement or jog of the Motor occurs.

Test the added Device. The Device can be removed by following the same two steps.