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## Gaviota Lateral Arm System Upgrade Instructions

**WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY!! PLEASE READ THESE INSTRUCTIONS IN ITS ENTIRETY BEFORE ATTEMPTING TO COMPLETE THIS PROCESS.**

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

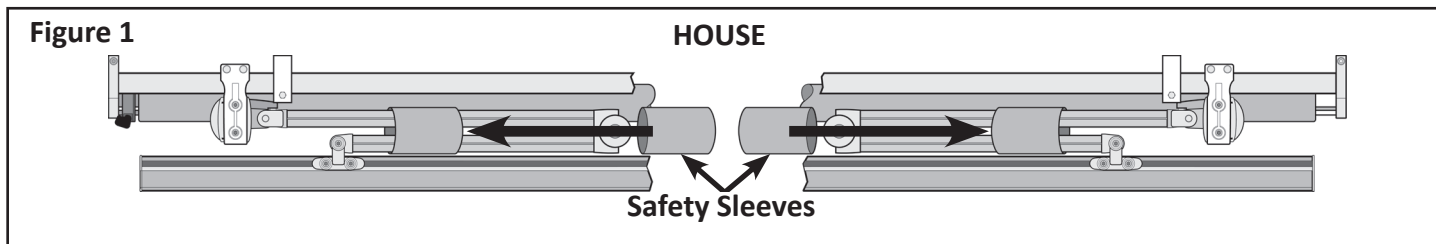
**Tools Needed:** Step ladder, #2 Philips Screwdriver, 13mm (or ½") wrench or socket, 6mm Allen wrench, 5mm Allen Wrench, 4mm Allen wrench, ⅞" wrench.

**Helpers Needed:** At least two people are required to perform these upgrade instructions.

**Parts Supplied:** Lateral Arm and Arm Clamp Assembly (Left & Right side, 1 ea.), Front Bar Connectors (2 ea.), Arm Clamp Retaining Pin (2 ea.), Plastic Retaining Pin Cover (2 ea.), Arm Clamp Side Covers (2 ea.), Plastic Safety Sleeves (2 ea), TouchUp Paint, Double-sided Tape Strip (for Wireless Wind Sensor), LED Installation Kit: Double-sided Tape Roll and Alcohol Prep Pad

1. Fully close the Awning against the house. Use the Manual Crank Wand to roll up the Fabric tightly, so the Lateral Arms are closed far enough to slide on the Plastic Safety Sleeves in **Step 4**.
2. If Motorized, place the Wall Switch or Remote Transmitter in the neutral/stop position. For the Remote Transmitter, press the "my" button to put the Awning Motor into the stop position.
3. If Motorized, unplug the power cord from the power outlet.
4. **Slide the supplied Safety Sleeves onto both Lateral Arms**, sliding them as far as possible toward the existing Arm Clamps. See **Figure 1**.

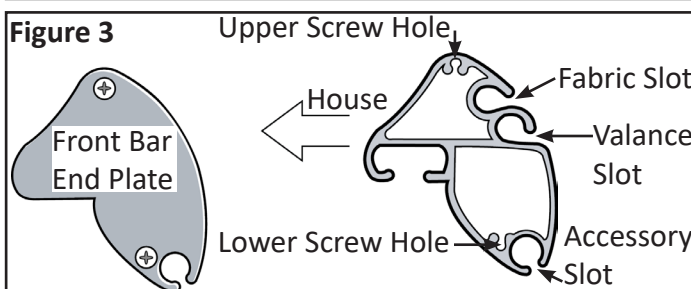
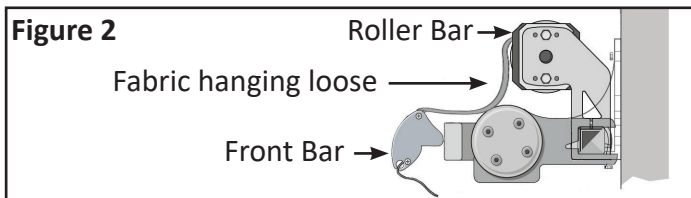
**WARNING: FAILURE TO FULLY INSTALL THE SAFETY SLEEVES CAN RESULT IN PERSONAL INJURY!**



5. Use the Manual Crank Wand to unroll the Roller Bar approximately one turn, so the fabric begins to hang loosely between the Roller Bar and Front Bar. See **Figure 2**.

**Note:** The Plastic Safety Sleeves will keep the Lateral Arms fully closed. This will allow the Fabric to sag, taking pressure off the Front Bar, making it easier to disassemble the Awning.

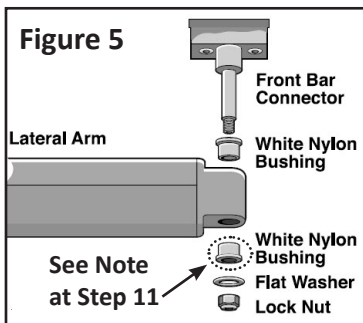
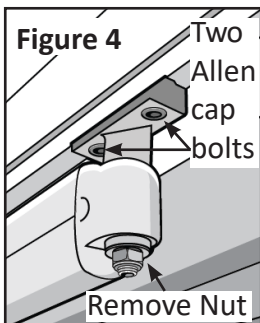
6. Using a #2 Phillips Screwdriver, remove the two Phillips Screws from each **Front Bar End Plate**. Place the screws and End Plates in a safe, clean location. See **Figure 3**.



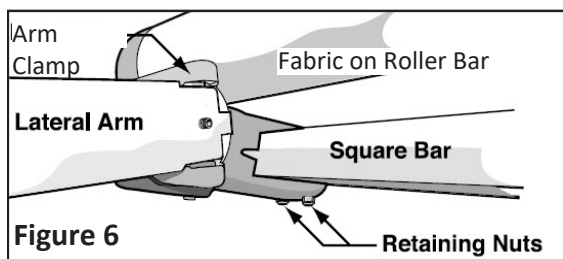
7. Remove the **Valance** from the **Front Bar** and place on a clean surface. See **Figure 3** for **Valance Slot**.

**WARNING: A HELPER MUST SUPPORT THE LATERAL ARM WHILE IT IS BEING REMOVED. FAILURE TO DO SO COULD CAUSE PERSONAL INJURY AND DAMAGE TO THE PRODUCT.**

8. If your Awning has LED Lights installed,
  - a. Unplug the LED power cord from the outlet.
  - b. Disconnect the Low Voltage Power Cord at the Light Strips.
  - c. Gently pry the Light Strips off the Lateral Arms.  
**Note: These Light Strips are either snapped on to clips screwed into the Lateral Arms, or they are attached with double-sided foam tape.**
9. If your Awning has a Wireless Wind Sensor,
  - a. Gently pry the plastic base off the Lateral Arm.
10. On one Lateral Arm use a 13mm wrench or socket to remove the Lock Nut and Flat Washer from the Front Bar Connector. See **Figures 4 & 5**.



11. Separate the Lateral Arm from the Front Bar Connector **by lifting up the Front Bar**. The Lateral Arm should drop off the Front Bar Connector.  
**Note: If the Front Bar Connector will not lift out of the Lateral Arm, use a flat tip screwdriver to pry out the lower White Nylon Bushing. See Figure 5.**
12. Using a 5mm Allen Wrench, loosen the two Allen Cap Bolts on the Front Bar Connector and slide it out of the Front Bar. See **Figure 4**.
13. Using a 13mm wrench or socket, remove the two Retaining Nuts, Washers and Bolts that secure the Arm Clamp to the Square Bar. See **Figure 6**.



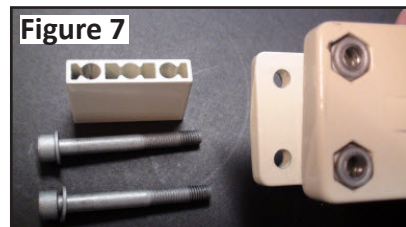
14. Separate the Arm Clamp (**with the Lateral Arm attached**) from the Square Bar. Discard.

**Note: The Front Bar hangs by the rolled up Fabric.**

**Note: The replacement Arm Clamp and Lateral Arm Assemblies have been pre assembled and marked LEFT and RIGHT, on the Arm Clamp.**

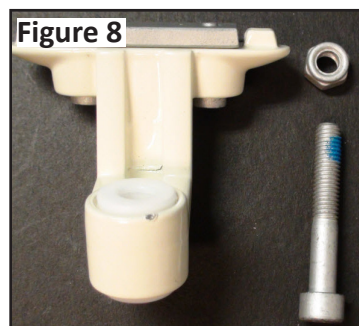
15. Select the Arm Clamp and Lateral Arm Assembly marked for the left or right side of the Awning currently being replaced.

16. Remove the Rectangular Back-Plate and Bolts from the back of the Arm Clamp and set aside in a safe and convenient location. Use care to not lose the lock nuts in the recessed section of the Arm Clamp. See **Figure 7**.



17. Remove the Bolt and Nut from the Front Bar Connector.

- a. Set aside the Bolt, Nut and Front Bar Connector in a safe, convenient location. See **Figure 8**.



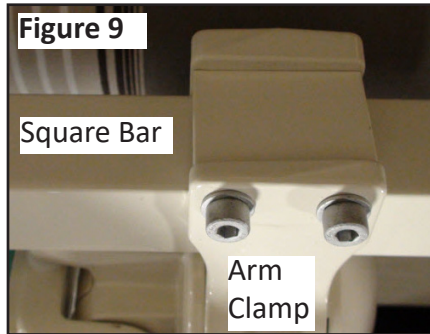
18. Measure from the end of the Square Bar and mark the mounting location for the replacement Arm Clamp assembly. See the chart below.

Arm Clamp Locations on the Square Bar			
Size	Vinyl Fabric	Acrylic Fabric	XL
10'	3 1/2"	3 1/2"	N/A
	(1 1/4" non-motor end)	(1 1/4" non-motor end)	
11'	7"	7"	
12'	8"	8"	
13'	14"	14"	7"
14'	20"	20"	
15'	26"	26"	
16'	32"	24"	
17'	38"	24"	24"
18'	44"	24"	24"
19'	N/A	39"	37"
20'		39"	39"

**WARNING: A HELPER MUST SUPPORT THE LATERAL ARM WHILE IT IS BEING INSTALLED. FAILURE TO DO SO COULD CAUSE PERSONAL INJURY AND DAMAGE TO THE PRODUCT.**

19. Install the Arm Clamp and Lateral Arm Assembly on the Square Bar at the location marked in the previous step.

20. Install the Rectangular Back-Plate and Bolts to secure the Arm Clamp to the Square Bar. Tighten the Allen Cap Bolts. See **Figure 9**.

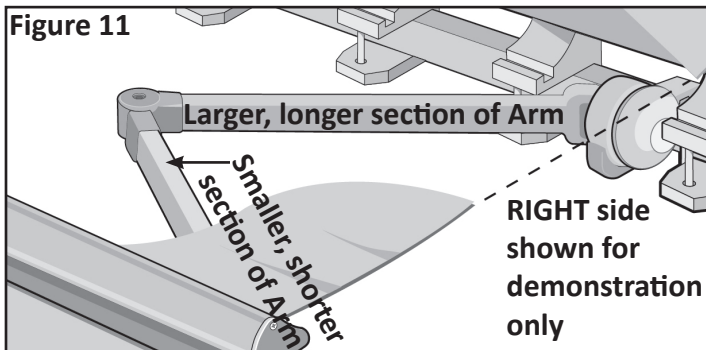
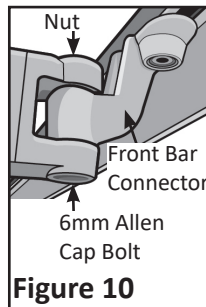


21. Swing the installed Lateral Arm toward the center of the Awning and align the end of the Lateral Arm with the Front Bar Connector. See **Figure 10**.

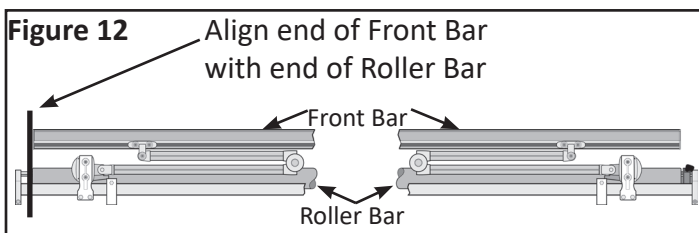
22. Attach the end of the Lateral Arm to the Front Bar Connector with the Allen Cap Bolt. See **Figure 10**.

**Note:** Insert the Allen Cap Bolt from underneath the Lateral Arm. The Lock Nut fits into the six sided opening on the top side of the Lateral Arm. See **Figure 10**.

**Note:** The orientation of the Arm Clamp and Lateral Arm Assembly with regard to the Square Bar and Awning is shown in **Figure 11**.

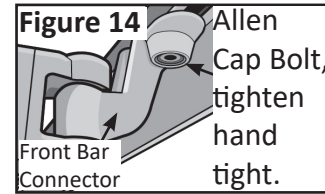
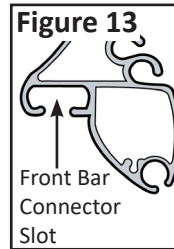


23. Align one end of the Front Bar with the Roller Bar, to begin proper alignment. See **Figure 12**.



24. Tighten the Bolts on the Arm Clamp, the Front Bar Connector, and the Lateral Arm. When all is tight, the helper can let go of the Lateral Arm Assembly.

25. Tighten the bolts in the Front Bar Connector where it fits into the Front Bar Connector Slot of the Front Bar. See **Figures 7 & 8**.



26. Repeat **Steps 8 through 22** to install the replacement Arm Clamp and Lateral Arm Assembly on the other side of the Awning.

27. While standing in front of the Awning, ensure the ends of the Front Bar approximately align with the ends of the Roller Bar. This alignment will not be precise, but the non-motorized end of the Roller Bar should be the end that aligns the best. See **Figure 12**.

**Note:** Both Lateral Arms, Arm Clamps, and Front Bar Connectors should now be installed on the Awning and all fastening hardware should be tight.

**WARNING: BEFORE REMOVING THE PLASTIC SAFETY SLEEVES, MAKE SURE NO LADDER, PERSON OR OBJECT IS IN FRONT OF THE AWNING. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**

**WARNING: DO NOT CUT THE SAFETY SLEEVES. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**

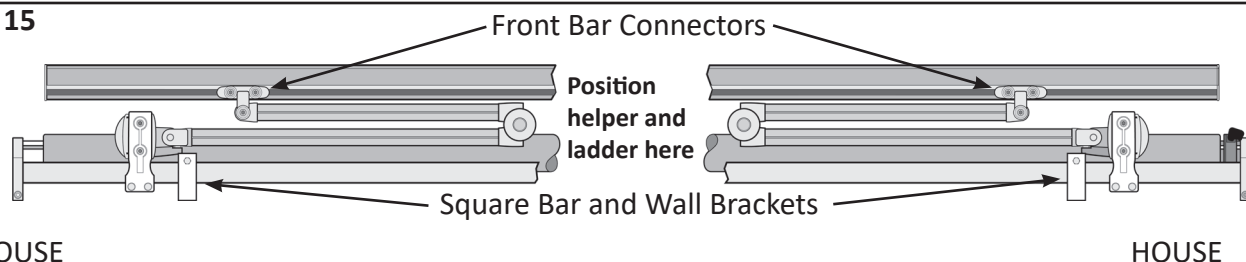
**Note:** The next steps will adjust the Front Bar Connectors to allow the Awning to close evenly with both Lateral Arms nested under the Fabric, between the Front Bar and the Square Bar.

28. Position yourself under the Awning, then remove the Plastic Safety Sleeves from the closed Lateral Arms, one at a time.

29. Remove the Blue Plastic Film from the Lateral Arms, if present.

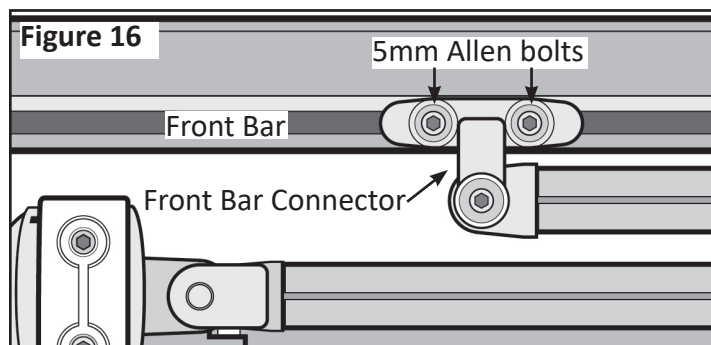
## Adjust the Lateral Arms

**Figure 15**



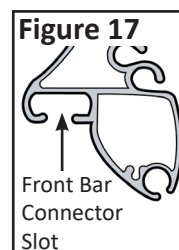
**Tools Needed:** 5mm Allen wrench, mallet/hammer, 2 ladders.

30. Position a ladder and helper, centered beneath the Awning, under the closed Lateral Arms. See **Figure 15**.
31. Position yourself and the second ladder under one of the Front Bar Connectors. See **Figure 15**.
32. Using the 5mm Allen wrench, tighten the two 5mm Allen bolts on the Front Bar Connector. See **Figure 16**.



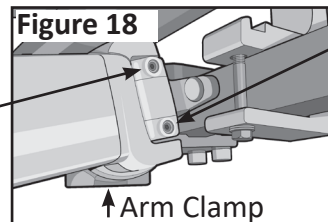
33. Move this same Lateral Arm into position so the Arm is centered between the Front Bar and Square Bar.
34. Have a helper hold this Lateral Arm and Front Bar in this position.  
**Note:** The other Lateral Arm will probably extend beyond the Front Bar. This other Lateral Arm is the one that will be adjusted at the Front Bar Connector.
35. On the other Lateral Arm, loosen the two 5mm Allen bolts (**WARNING: NO MORE THAN ONE HALF TURN**) that attach the Front Bar Connector to the Front Bar. See **Figure 16**.

36. Move the Lateral Arm so the loosened Front Bar Connector realigns by sliding inside the Front Bar Connector Slot (see **Figure 17**) during this process. If needed, gently tap the Front Bar Connector with a rubber mallet or wooden block to shift its position in the Front Bar Connector Slot.



37. While your helper is holding the Lateral Arms in position, tighten the two 5mm Allen bolts on each Front Bar Connector.
38. The helper can let go of the Lateral Arms and step down from the ladder.
39. For Motorized models, plug the power cord into the wall outlet.
40. Check your Awning for proper operation. The Awning should open all the way and close all the way, resulting in both Lateral Arms folding closed, under the closed Awning.
41. A properly adjusted Awning will close both Arms under the Fabric, between the Front Bar and Square Bar.
42. When the Awning is closed, the height of each Lateral Arm (at the folded elbow) should be close to each other. To adjust this height, open the Awning and turn the TOP 4mm Allen set screw clockwise to raise it or counterclockwise to lower it. **DO NOT adjust the lower 4mm Allen set screw.** See **Figure 18**.

TOP set screw can be adjusted with a 4mm Allen wrench to slightly adjust the angle of the closed Lateral Arm.



**WARNING: DO NOT LOOSEN THIS BOTTOM SET SCREW. DOING SO CAN CAUSE THE ARM TO SEPARATE FROM THE ARM CLAMP, WHICH COULD RESULT IN PERSONAL INJURY.**



## Adjust the pitch of your Awning

**Tools Needed:** 6mm Allen wrench (included with Awning), large adjustable wrench, step ladder(s), and a helper(s).

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

43. Close the Awning.
44. Have your helper slightly lift the Front Bar close to the Front Bar Connector, to remove pressure on the Arm Clamp.
45. Remove the plastic cover from the Arm Clamp. Remove by hand, no tools required. See **Figure 19 on Page 6**.
46. Using an adjustable wrench, **tighten the large Lock Nut in the Arm Clamp** for safety. See **Figure 20 on Page 6**.
47. Release the Front Bar and stand to the side of the Awning.
48. Open the Awning.
49. **Loosen the large Lock Nut in the Arm Clamp, not more than one quarter turn.** See **Figure 20 on Page 6**.

**Note:** Adjust each Lateral Arm, one at a time, until both are at the desired height and the Front Bar is level.

**Note:** Depending on the Awning size and model, the weight of the Front Bar varies (Example: Wider Awnings will have heavier Front Bars). This will impact how high you can raise the Front Bar, using the adjustment capabilities of the Arm Clamps. See **Figure 20 on Page 6** for the Pitch Channel Range. If you reach the maximum adjustment and are still not happy with the height of the Front Bar, you can shim the Wall Brackets upward to raise the Front Bar further. Make sure that all Wall Brackets are shimmed evenly.

### To raise the Front Bar, complete steps 50 - 54:

**WARNING: RAISING THE FRONT BAR WILL REDUCE THE PITCH (ANGLE) OF THE FABRIC THUS INCREASING THE RISK OF RAINWATER POOLING ON THE FABRIC. TO PREVENT THE AWNING FROM COLLAPSING DUE TO RAINWATER LOAD, YOU MUST RETRACT THE AWNING WHEN UNATTENDED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**

50. Slightly lift the Front Bar (close to the Front Bar Connector) to remove pressure on the Arm Clamp.
51. Loosen **Set Screw #1** while lifting Front Bar, until the Front Bar is above the desired height. See **Figure 20 on Page 6** to see the Channel in the Arm Clamp showing high and low range of pitch.
52. While holding the Front Bar above the desired height, tighten **Set Screw #2**.  
**Note:** Setting the Front Bar above the desired height allows room for settling when you release the Front Bar.
53. Release the Front Bar and tighten **Set Screw #1**.
54. Check height. Adjust as necessary, then go to **Step 60**.

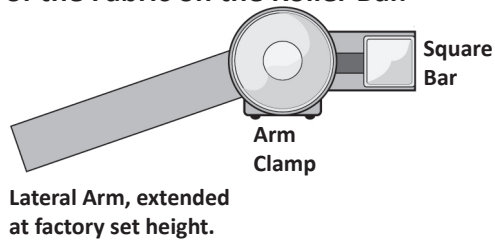
### To lower the Front Bar, complete steps 55 - 60:

55. Slightly lift the Front Bar (close to the Front Bar Connector) to remove pressure on the Arm Clamp.
56. Loosen **Set Screw #2** until the Front Bar can be lowered to reach the desired height. See **Figure 20 on Page 6** to see the Channel in the Arm Clamp showing high and low range of pitch.
57. Release the Front Bar.
58. Tighten **Set Screw #1**.
59. Check height. Adjust as necessary, then go to **Step 60**.

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60. The Front Bar should be level. If not, adjust the height of either Arm, according to the steps, above.
  61. Slightly lift the Front Bar (close to the Front Bar Connector) to remove pressure on the Arm Clamp.
  62. **Tighten the large Lock Nut in the Arm Clamps.** See **Figure 20 on Page 6**.
  63. Release the Front Bar and check for level. If tilted, adjust the height of either Arm, according to the steps above.
  64. Push the Front Bar down. If it moves from the desired height, repeat the steps above.
  65. Replace the Plastic Cover to the Arm Clamp. Align the plastic guides, press by hand. See **Figure 19 on Page 6**.
  66. **Note:** Depending on adjustments, the Open/Close position stops may need to be adjusted to correct any sagging that may occur to the Fabric. Follow the procedures in the Awning Owner's Manual to change these settings.

Figure 17

Pitch is set at the factory so the bottom of the Front Bar is 29" lower than the top of the Fabric on the Roller Bar.



Pitch raised to maximum height.

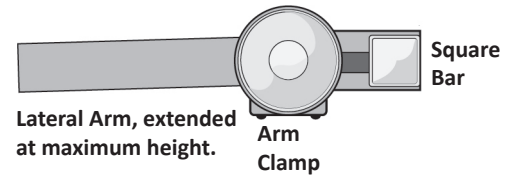


Figure 18

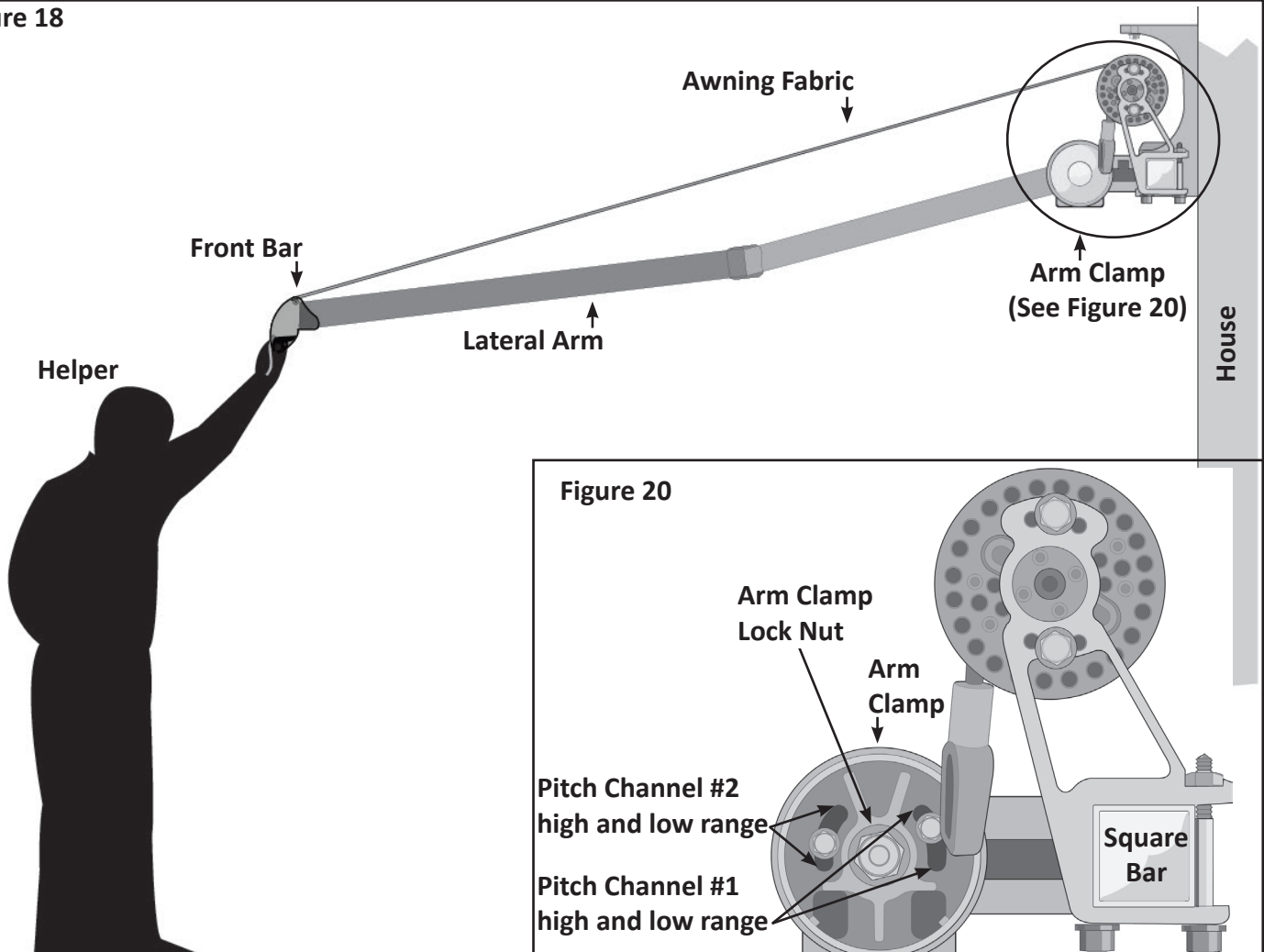


Figure 20

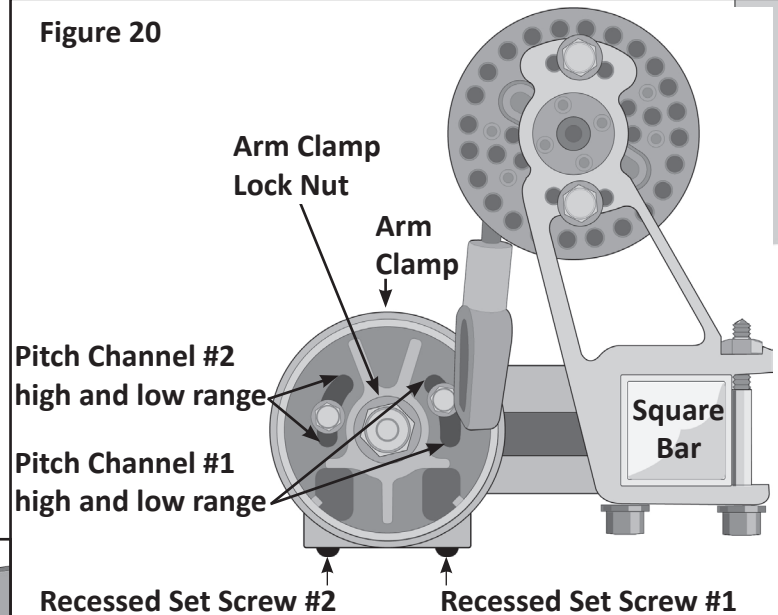
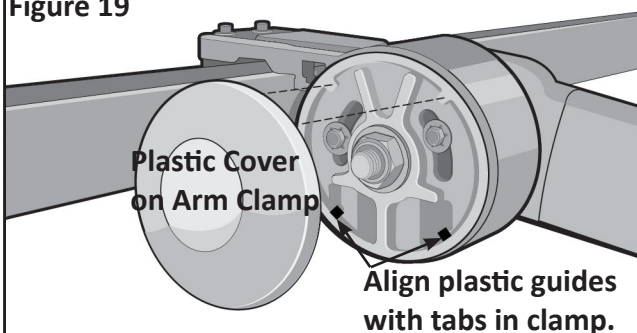


Figure 19



**Note:** The high and low range of pitch can be viewed in Pitch Channel #1 and #2, as shown above.

**CAUTION:** Do not attempt to raise the pitch beyond the physical limits observed in Pitch Channel #1 and #2, as shown above. Doing so could damage the Arm Clamp.

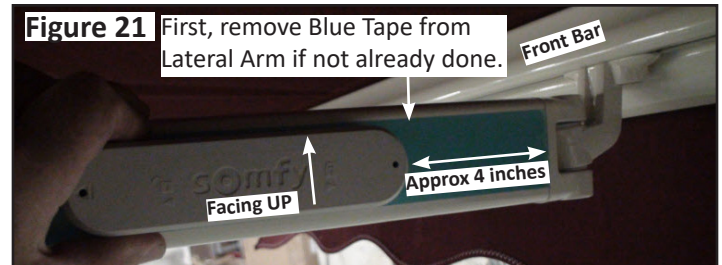
## If your Awning has a Wireless Wind Sensor:

1. Remove the Wireless Wind Sensor (WWS) from the Lateral Arm being replaced. The Base Plate of the WWS is attached to the Arm with double-sided tape.
2. Clean the old tape and residue off the Base Plate and attach the new tape strip (provided) to the Base Plate.
3. Remove Blue Tape from Lateral Arm if not already done.
4. Attach the Mounting Plate to the Lateral Arm approximately 4 inches from the end of the Lateral Arm (**the Arm on the same side as the motor**), where the Arm connects to the Front Bar. Make sure the Arrow on the Mounting Plate is facing UP and the name "somfy" on the Housing is facing up. See **Figure 21**.

**Note:** The installed Wireless Wind Sensor will face toward the inside of the Awning.

**Note:** The batteries in the Wireless Wind Sensor should be changed every year with non-rechargeable batteries. Now would be a good time to change the batteries.

**Note:** Reprogramming the Wireless Wind Sensor is not necessary, though it should be tested regularly. To test the Wireless Wind Sensor, lift the Front Bar as high as it will go, let it drop, repeat quickly three or four times. The Awning should automatically close. If it does not, see the Wireless Wind Sensor Installation Instructions for additional information or call Sunsetter for customer support at 800-670-7071.



## If your Awning has LED Lights

### Attach Double-sided Tape and Install LED Light

1. Extend the Awning to its fully open position. On Motorized Awnings, unplug the Power Cord on the Awning to prevent accidental movement of the Awning during installation of the LED Lights.
2. The LED Light Strips attach to the Lateral Arms of the awning using Double-sided foam tape strips. Begin by removing the backing paper off one side of a tape strip, then attaching it in the groove on the LED light strip as shown in **Figure 22** below.



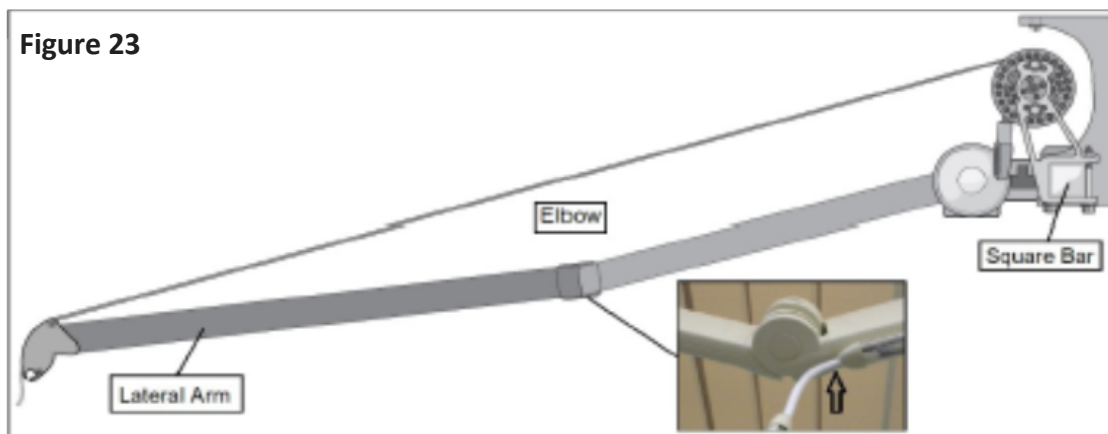
3. Each LED Light Strip has 2 segments, each segment will need six pieces of Double-sided foam tape. Evenly distribute the foam tape on each segment. Do this for both LED Light Strips.

**NOTE:** A ladder will be needed to complete this installation. Have your helper hold the lateral arm steady while performing the following steps.

**NOTE:** \*For Awnings with a projection between 7' - 11' 8", the LED Light Strips can be mounted on the bottom OR top of the Lateral Arms.

\*For Awnings with a projection of 13'1", the LED Light Strips **MUST** be mounted on TOP of the Lateral Arms.

4. Select the correct mounting surface (top or bottom) of the Lateral Arms, according to your Awning projection. Clean this surface with the provided alcohol prep pad.
5. Take one LED Light strip and peel the backing paper from the foam tape strips on the segment with the power cord.
6. Attach this part to the half of one Lateral Arm closest to the wall. Starting at the elbow, center the strip on the seam running along the length of the arm. Position the strip as close to the elbow as possible, as shown by the arrow in **Figure 23**. Press lightly when first attaching, the strip can be re-positioned if needed.



7. When the LED Segment is centered on the arm, press firmly along the tape strips to set them in place. Wrap the power cord behind the square bar on the awning.
8. Remove the backing paper from the strips on the remaining segment, then attach at the other side of the elbow as shown in **Figure 24**. Again, be sure the segment is centered on the arm before firmly setting the tape.



**Note:** It is VERY important to leave as much slack as possible in the power cable between the two LED Light Segments to allow space for the Lateral Arms to close without tugging the cable, which could pull the lights off the Arms.



**Figure 25**

1. Repeat steps 2 to 8 for the other LED Light Strip.
2. Connect the Waterproof Plugs on the LED Lights to the Low Voltage LED Light Strip Cords.
3. Connect the other end of LED Light Strip Cords to the LED Outputs on the LED Light Control Box. See **Figure 26**.
4. Connect only the LED Light Strip wires to the Light Control Box with the provided Cord Assemblies.
5. Secure the Cord Assemblies to the back of the Square Bar using the supplied Velcro Strips.
6. For Motorized Awnings only, plug in the Motorized Awning motor (not the LED power) into the GFI outlet.
7. Install the Mounting Post for the Remote Transmitter in a dry location.

**Figure 26**



**Figure 27**

