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, 7 /16” wrench, hammer/mallet, and pencil.

**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), Double-sided Tape Roll (for LED Light Strips), LED Installation Kit (includes clips, screws and drill bit).

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. See Figure 3 for the Valance Slot in the Front Bar. Place the Valance on a clean surface.

**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 snapped on to clips screwed into the Lateral Arms.

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.

<table>
<thead>
<tr>
<th>Arm Clamp Locations on the Square Bar</th>
<th>Size</th>
<th>Vinyl Fabric</th>
<th>Acrylic Fabric</th>
<th>XL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10'</td>
<td>3 ½”</td>
<td>3 ½”</td>
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<tr>
<td></td>
<td>(1 ¼” non-motor end)</td>
<td>(1 ¼” non-motor end)</td>
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<td>11'</td>
<td>7”</td>
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<td></td>
<td>12’</td>
<td>8”</td>
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<td>13’</td>
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<td>14’</td>
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<td>15’</td>
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<td>16’</td>
<td>32”</td>
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<td>18’</td>
<td>44”</td>
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<td>19’</td>
<td>N/A</td>
<td>39”</td>
<td>37”</td>
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<tr>
<td></td>
<td>20’</td>
<td>N/A</td>
<td>39”</td>
<td>39”</td>
</tr>
</tbody>
</table>
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**

**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.

**Figure 15**

- Position helper and ladder here
- Front Bar Connectors
- Square Bar and Wall Brackets

**Figure 16**

- 5mm Allen bolts
- Front Bar Connector

**Figure 17**

- Front Bar Connector Slot

**Figure 18**

- Arm Clamp

- **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:** 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:

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.

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.

Figure 18

Figure 19

Figure 20

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-rechargable 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

1. Extend the Awning to its fully open position. See Figure 2.

2. On Motorized Awnings, unplug the Power Cord on the Awning to prevent accidental movement of the Awning during installation of the LED Lights.

3. Using a Tape Measure and Pencil, mark the Hole Locations to be drilled into the Lateral Arms for the Mounting Clips, on the **UNDERSIDE** of each Lateral Arm section (see Figure 2), inside the groove.

   **Section 1 Hole Locations:**
   a. 6 inches from the Front Bar Connector, measuring toward the Elbow. See Figure 4.
   b. 6 inches from the Elbow, measuring toward the Front Bar Connector. See Figure 5.
   c. At the mid-point between points A and B.

   **Section 2 Hole Locations:**
   d. 6 inches from the Elbow, measuring toward the Lateral Arm Clamp. See Figure 5.
   e. 6 inches from the Lateral Arm Clamp, measuring toward the Elbow. See Figure 6.
   f. At the mid-point between points D and E.

**Note:** There will be a total of 6 hole locations on each Lateral Arm, or a total of 12 locations for both Lateral Arms. See Figure 2.

**Note:** All holes must be drilled in a straight line so LED Light Strips will snap on to the Mounting Clips.
Center Punch and Drill the Holes for the LED Light Strip Mounting Clips

4. Center-punch the marks (see locations in Figure 2) that you made in Step 3. **Note:** Have your helper hold the Lateral Arm steady while performing steps 4, 5 and 6 (punching, drilling holes and attaching clips).

**WARNINGS:**
- **IN THE NEXT STEP, YOU MUST DRILL INTO THE LATERAL ARMS FROM UNDERNEATH, NOT FROM THE SIDES. FAILURE TO DO SO CAN CAUSE DAMAGE TO THE LATERAL ARM.**
- **ALWAYS USE EYE PROTECTION WHEN OPERATING A DRILL.**
- **WHEN DRILLING, AS SOON AS THE DRILL BIT GOES THROUGH THE LATERAL ARM WALL, STOP DRILLING. FAILURE TO STOP AS DESCRIBED CAN CAUSE DAMAGE TO THE LATERAL ARM AND THE PROVIDED DRILL BIT.**

5. Using the **provided** Drill Bit, **carefully** drill a hole at each of the 12 marks. See Figures 4, 5 and 6. Stop drilling as soon as the Drill Bit cuts through the outer wall. **Use eye protection when operating a drill.**
Attach the Mounting Clips

6. Secure the Mounting Clips to the Lateral Arm using the supplied #8 x ¼” Phillips screws. Make sure that the Mounting Clips are aligned parallel to the Lateral Arms and the open channel faces down.

7. See Figure 7 for a PROPERLY aligned Clip and Figure 8 for an IMPROPERLY aligned Clip.

CAUTION-Make sure that all of the Mounting Clips are still oriented parallel to the Lateral Arms before completing the next step. LED Lights will not attach to improperly aligned Clips. Forcing LED Lights onto improperly aligned Clips can permanently damage the Clips. See Figures 7 and 8.

Attach the LED Light Strips

Working with your helper, position the LED Light on the Lateral Arm, beginning closest to the Elbow. See Figure 9.

8. While your helper supports the other end of the LED Light, very carefully press the LED Light Assembly onto the installed Mounting Clip closest to the Elbow until it clicks into place, then press onto the middle Mounting Clip, then onto the Mounting Clip on the outer end. Repeat for the other mounting locations.

9. Connect the Low Voltage Cables from the Control Box to the LED Light Strips.

10. Plug in and test the LED Light System.