SunSetter®
RETRACTABLE AWNINGS

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Wireless Wind Sensor
Installation and Operation Instructions

WARNINGS:

- **FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY! PLEASE READ THESE INSTRUCTIONS IN ITS ENTIRETY BEFORE ATTEMPTING TO COMPLETE THIS PROCESS.**
- **THE WIRELESS WIND SENSOR WILL NOT PREVENT RAIN WATER FROM POOLING ON THE FABRIC WHICH COULD RESULT IN THE COLLAPSE OF THE AWNING. YOU MUST CLOSE YOUR AWNING IF RAINY CONDITIONS ARE EXPECTED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**
- **STRONG UNEXPECTED WIND GUSTS COULD TIP OVER THE SUNSETTER FREE STANDING OASIS AWNING, WITHOUT ENOUGH TIME FOR THE WIND SENSOR TO REACT AND RETRACT THE AWNING. YOU MUST KEEP THE FREE STANDING OASIS AWNING RETRACTED WHEN UNATTENDED OR IN WINDY CONDITIONS. FAILURE TO DO SO COULD RESULT IN THE UNIT TIPPING OVER WHICH COULD RESULT IN PERSONAL INJURY.**

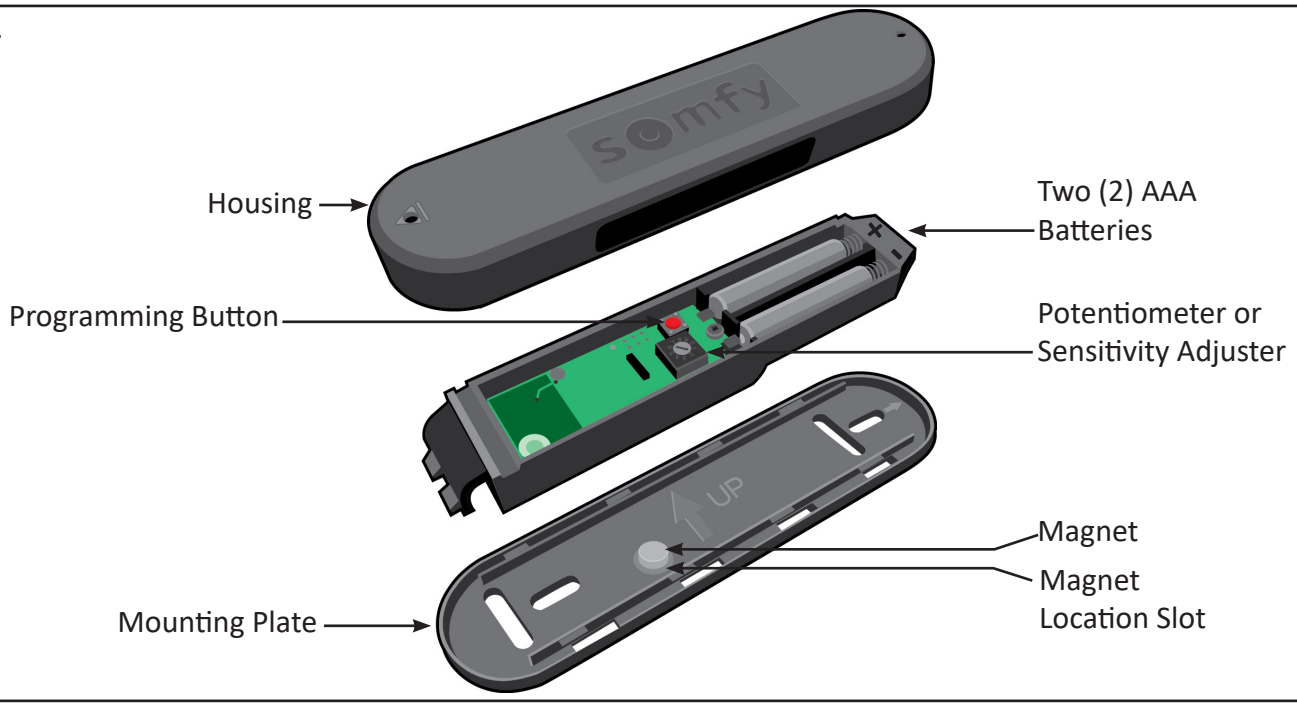
CAUTION: Be sure that no object or persons can come in contact with the Awning as it closes, while unattended.

Note: The Wireless Wind Sensor is a wireless radio transmitter compatible to work only with SunSetter Awnings operated by a Remote Transmitter. This is a low voltage battery operated device that enables the Awning to be closed automatically when it is being shaken up and down by the wind.

A video of the installation of the Wireless Wind Sensor is included in your installation DVD and on the SunSetter Owners Corner at **www.sunsetter.com/ownerscorner**.

Before Starting: Familiarize yourself with the components of the sensor as shown in **Figure 1**.

Figure 1



Note: If you have a MultiChannel Remote, ensure the correct Channel is selected.

1. Make sure that the Lower Button on the Remote Transmitter is the button that **OPENS** your Awning. See **Figure 2**.

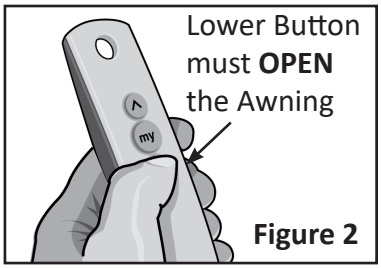


Figure 2

Note: If the Lower Button does not OPEN your Awning but, instead CLOSES your Awning, you will need to complete the steps for Changing the Direction of Motor Rotation.

- If your Motor has a Square, Black Housing (See **Figure 3**), follow **Appendix A** on **Page 6**, "Changing the Direction of Motor Rotation for the **RTS Motor Only**."
- If your Motor has a Round, Silver Housing (See **Figure 4**), follow **Appendix B** on **Page 7**, "Changing the Direction of Motor Rotation for the **Sunea Motor Only**"

Once you have verified that the lower button on the Remote **OPENS** your Awning, continue with **Step 2**.

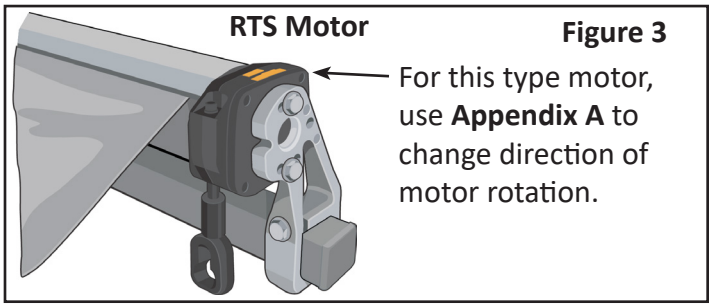


Figure 3

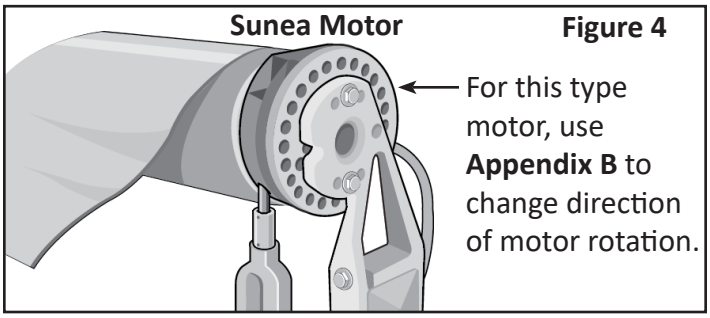


Figure 4

2. Slide the Mounting Plate off of the Sensor Housing. See **Figure 5**. **Note: Verify that the Magnet is affixed to the inside of the Mounting Plate**. See **Figure 6**.

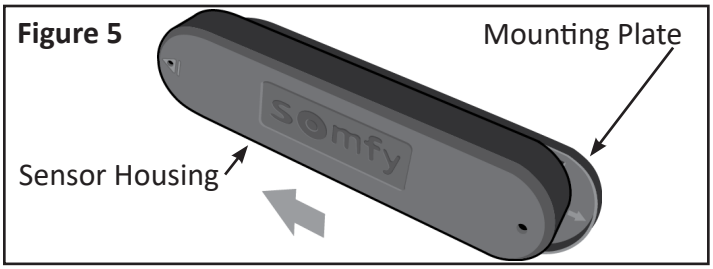


Figure 5

Note: All left and right references are as you are facing the house with the Awning fully opened.

3. With the Awning fully open, **install the Mounting Plate on the inside of the Lateral Arm, on the Motor side of the Awning,** as follows.

3a. Clean the Lateral Arm with a cloth and an alcohol based solvent. (Preferred installation temperature of 70 degrees).

3b. Attach one side of the double-sided foam tape to the base of the Mounting Plate.

3c. Attach the Mounting Plate to the Lateral Arm approximately 4 inches from the end of the Lateral Arm, **where the Arm connects to the Front Bar.** Make sure the Arrow on the Mounting Plate is facing **UP**. See **Figure 6**.

Note: The Mounting Plate when installed will face toward the inside of the Awning.

CAUTION: Incorrect placement of the Mounting Plate may damage the SENSOR when the Awning closes.

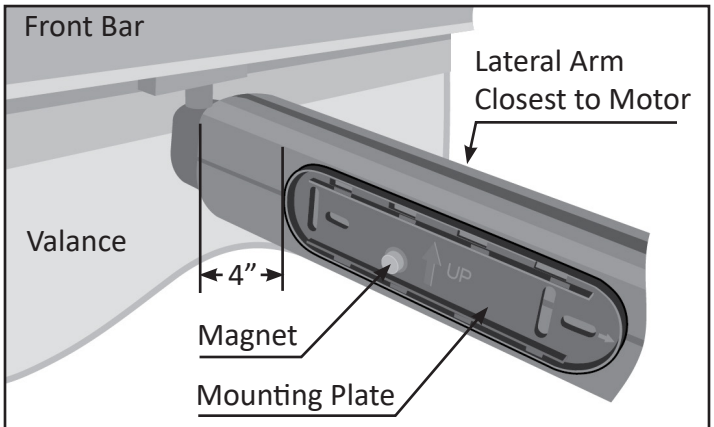


Figure 6

4. Remove the Sensor from the Housing using a small flat blade screwdriver. See **Figure 7**.

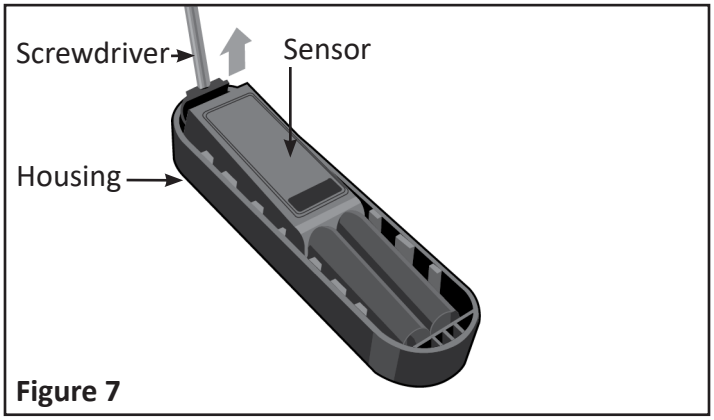
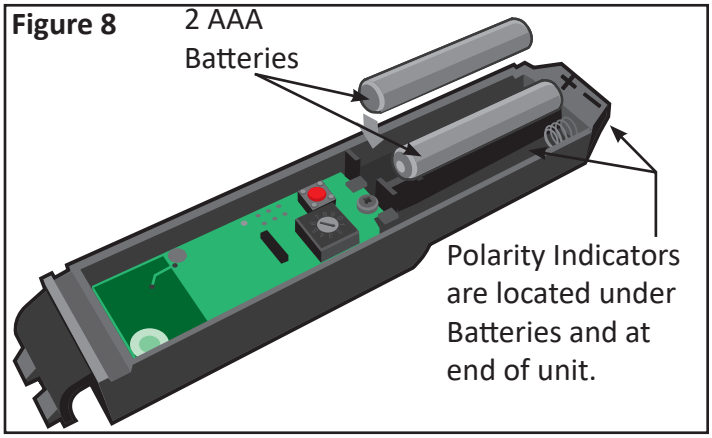


Figure 7

CAUTION: Never use rechargeable batteries to power the Sensor. It is recommended batteries be changed annually.

5. Install the Batteries into the Sensor, following the polarity indicated in the battery cavity. **An LED will come on briefly for approximately 1 second to confirm that the batteries have been properly installed.** If the LED does not light up, check the batteries for proper installation. See **Figure 8**.

Figure 8



6. Press the Programming Button (See **Figure 9**) on the back of the **Remote Transmitter that was supplied with the Awning** until the Motor "jogs". A "jog" is a short back and forth movement of the motor.

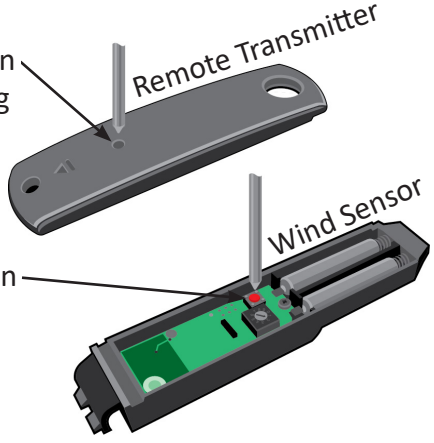
7. Press the Programming Button located on the Sensor (See **Figure 9**) until the Motor "jogs," then release. **The LED will come on briefly again.**

Note: If the Motor does not respond with a jog or movement, ensure the LED lights up when pressing the Programming Button on the Wireless Wind Sensor. If this does not occur, check placement of the batteries. Refer back to Step 5 and Figure 8.

Figure 9

FIRST, press the Programming Button inside small opening on back of Remote.

THEN, press the Programming Button inside the Wireless Wind Sensor.



Note: The detection of windy conditions corresponds to sensing the movement up and down of the Front Bar and the Lateral Arms of the Awning. The reaction of the Sensor to this movement depends on the sensitivity threshold set on the Sensitivity Potentiometer (or Adjuster). See **Figure 10.

The Sensitivity Potentiometer can be set from 1 to 9 using a small flat screwdriver.

A setting of 1 is equal to a high sensitivity which means light winds will cause the Awning to close. A setting of 9 is equal to a low sensitivity which means stronger winds will cause the Awning to close.

Note: Do not set the Potentiometer to zero (0).

8. If not already accomplished, set the Sensitivity Potentiometer dial to two (2). See **Figure 10**.

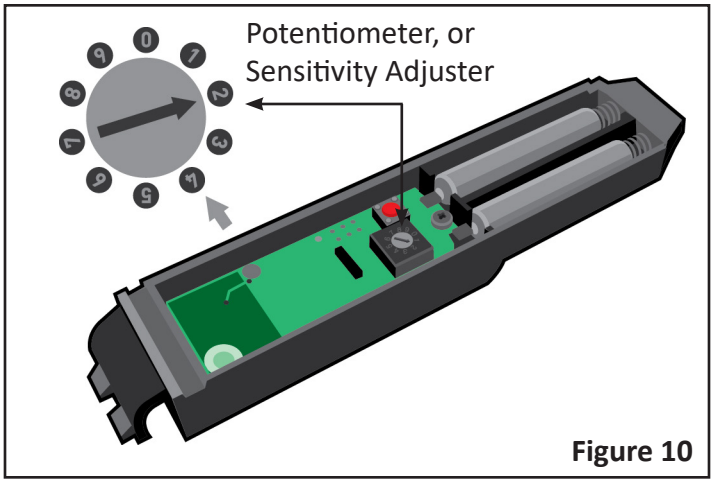


Figure 10

9. Put the Sensor Unit back into the Housing. See **Figure 7**.

10. Slide the Housing back onto the Mounting Plate that you mounted on the Lateral Arm in Step 3c. If you are using a ladder to install the Wireless Wind Sensor, prior to testing the Sensor, move the ladder away from the Awning.

Note: The Wind Sensor will not function unless it is properly assembled to the Mounting Plate as outlined in Step 10.

To check that the Wind Sensor communicates properly with your Motor:

11. Shake the Awning Front Bar up and down (lift the Front Bar approximately one foot, then drop it) quickly 3 - 5 times in a row (for approximately 12 seconds) to simulate the effect of strong wind; this should cause the Awning to automatically close.

12. If the Awning automatically closes, this means the sensor is set correctly.

Note: The Awning Motor will not accept a command from the Remote Transmitter for up to 1 minute after the Wireless Wind Sensor has retracted the Awning.

13. If the Awning does not close automatically, repeat **Step 11** by strongly shaking the Front Bar up and down quickly 3 to 5 TIMES IN A ROW. **To shake the Front Bar, lift the Bar until strong resistance is met, then allow the Bar to drop freely. Repeat quickly.** If the Awning still does not close automatically, slide the Wind Sensor off the Mounting Plate and repeat **Steps 4 to 13** with a **NEW SET OF BATTERIES**. If the Awning still does not close automatically, remove the Wind Sensor from the Mounting Plate; then delete it from the Motor memory (see steps below) and call Customer Service at **800-670-7071**.

DELETING THE WIRELESS WIND SENSOR FROM THE MOTOR MEMORY:

1. Remove the Wireless Wind Sensor from the Mounting Plate; then remove the Sensor Unit from the Housing, using a small flat blade screwdriver.

2. Press the Programming Button (See **Figure 9**) on the back of the Remote that was supplied with your Awning until the motor "jogs." A "jog" is a short back and forth movement of the Motor.

3. Press the Programming Button located on the inside of the Sensor (See **Figure 9**) until the Motor "jogs," then release.

WARNING: YOU MUST BE CERTAIN THAT THE WIRELESS WIND SENSOR IS INSTALLED, PROGRAMMED AND OPERATING PROPERLY. FAILURE TO DO SO MAY RESULT IN THE WIRELESS WIND SENSOR NOT BEING ABLE TO CLOSE YOUR AWNING DURING WINDY CONDITIONS, WHICH COULD CAUSE DAMAGE AND PERSONAL INJURY. IF THE MOTOR DIRECTION IS REVERSED THE SENSOR WILL EXTEND (OPEN) THE AWNING IN WINDY CONDITIONS, INSTEAD OF CLOSING IT.

The Wireless Wind Sensor should now be installed and functioning properly. If not, please see the list of potential problems, causes, and actions on the following page.

Testing the Wireless Wind Sensor;

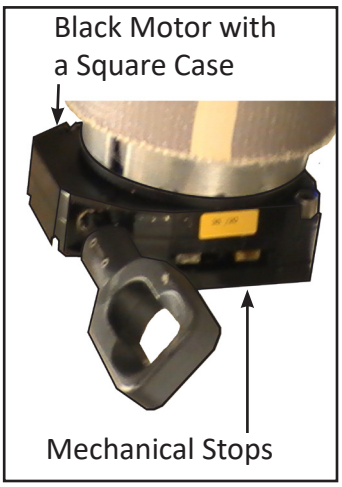
- When testing the Wireless Wind Sensor, lift the Front Bar of the Awning at least one foot, then let it drop under its own weight. Repeat quickly 3 to 5 times. The Awning should close.
- The process to add the Wireless Wind Sensor to the Awning Motor's memory is identical to the process of removing the Wireless Wind Sensor from the Awning Motor's memory.
  Therefore, it is possible to add the Wireless Wind Sensor to the Motor's memory, then remove it from memory, unintentionally, by pressing the Programming buttons a second time. If testing the Wireless Wind Sensor repeatedly fails to retract the Awning, repeat **Steps 5, 6, and 7**.
- Verify the Wireless Wind Sensor is **mounted to the inside of the Lateral Arm, close to the Front Bar, on the Motor side of the Awning.** Do not mount the Wireless Wind Sensor to the Lateral Arm on the opposite side of the Awning from where the Motor is located. This is important because the operating range is about 20 feet.

Recommended Annual Maintenance for the Wireless Wind Sensor

Batteries: The Wireless Wind Sensor is continuously communicating with the Awning Motor, therefore the batteries lose power. It is recommended for best results, that the **two AAA batteries** be changed once a year. Do not use rechargeable batteries in the Wireless Wind Sensor.

Problem	Cause	Action
The LED does not light up after: • inserting the batteries or • pressing the Programming button.	The batteries may be incorrectly fitted or, the batteries may not work.	1. Review the polarity of the batteries and the direction in which they are installed. 2. Try fresh new batteries.
Wind Sensor does not function.	Check the magnet in **Figure 1**.	Ensure the magnet is in place.
Awning closes every **15 minutes**, without windy conditions.	The batteries are low.	Replace the batteries.
Awning closes every **60 minutes**, without windy conditions.	The Wind Sensor may have been removed from the Awning. The Wind Sensor may be incorrectly inserted into the Mounting Plate. Incorrect battery placement.	Delete the Wind Sensor from the Motor's memory, see **Page 4**. Remove the Sensor from the Mounting Plate, then engage the Sensor back into the Mounting Plate by sliding it from left to right.
Awning closes automatically during light winds.	The Sensitivity is adjusted to a lower number than needed.	Remove the Wind Sensor from the Mounting Plate. Remove the Sensor from the Housing and set the Sensitivity Potentiometer to one number higher than the current setting. For example, if the dial is set to 2, set it to 3. See **Figure 10**.
Awning does not automatically close during strong winds.	The Sensitivity is adjusted to a higher number than needed. The strong winds do not create strong up and down movement of the Front Bar of the Awning. Check the Motor direction by pressing the up arrow on the Remote Transmitter. Check location of Wind Sensor	Remove the Wind Sensor from the Mounting Plate. Remove the Sensor from the Housing and set the Sensitivity Potentiometer to one number lower than the current setting. For example, if the dial is set to 2, set it to 1. **Do not set it to zero (0)**. See **Figure 10**. If the Front Bar does not move up and down very much, the Awning may not need to close. If the **Motor rotation is incorrect**, the Wind Sensor will open the Awning when it should close it. **See Appendix A (for RTS Motor with mechanical settings) or B (for Sunea Motor) to change the direction**. See **Step 3** for detailed location.
Awning does not close in during windy conditions even with the sensitivity set to 1.	The batteries may be dead. The Wind Sensor may have been removed from Motor memory.	Replace Batteries. Repeat **Step 6** and test the Wind Sensor.
Awning closes but will not open.	Check Motor using the Remote.	Wait for **1 minute time-out** period.

Appendix A



Changing the Direction of Motor Rotation for the RTS Motor ONLY.

The RTS Motor can be identified by the Black Motor with a Square Case and Mechanical Stops.

This procedure describes the actions needed to change the direction of Motor rotation, and should only be performed when installing a Wireless Wind Sensor if the lower button on your Remote is not the button that opens your Awning.

Review the steps below to familiarize yourself with the procedure before attempting to complete them.

1. Verify that the red light on the existing Remote Transmitter comes on when you press a button. If the red light does not come on at all or stays on for less than five (5) seconds, you will need to replace the battery.

2. Make sure your Awning is retracted against the house (closed).

3. Press the **my** (middle) button on the Remote Transmitter.

4. Unplug the power cord from the wall.

5. Insert the Crank Wand into the Override Crank on the Motor and manually open the Awning approximately three (3) feet but do not completely open the Awning.

6. Plug the power cord back into the wall and make sure that there is electricity available. **Let the Awning sit for one minute**, undisturbed, without pressing a button on the Remote Transmitter or unplugging the power cord from the wall.

7. Unplug the power cord from the wall for two (2) seconds.

8. Plug the power cord back in for ten (10) seconds.

9. Unplug the power cord for two (2) seconds.

10. Plug the power cord back in and leave it plugged in.

Note: The Motor may rotate approximately two (2) feet in one direction and stop.

11. When the Motor stops, press and hold the Programming Button on the back of the Remote Transmitter for 5 seconds until the motor 'jogs', then release. (A 'jog' is a short back and forth movement of the Motor).

12. Activate the Transmitter by pressing the OPEN and CLOSE buttons at the same time, the Motor will jog.

13. Press the **my** (middle) button on the front of the Remote Transmitter until the motor jogs, then release.

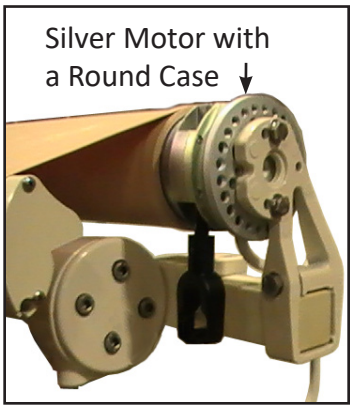
14. Press the Programming button on the back of the Remote Transmitter until the motor jogs and release.

The direction of the Motor rotation has been changed.

Test the Awning for proper operation. Make sure that the lower button on the Remote extends the Awning out.

APPENDIX B

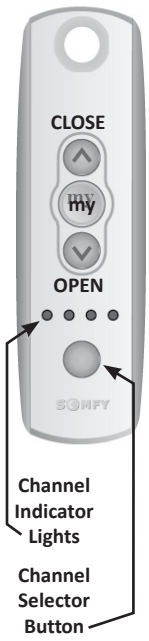
Changing the Direction of Motor Rotation for the Sunea Motor ONLY.



The Sunea Motor can be identified by the Silver Motor with a Round Case.

<u>Note</u>: These instructions will erase previous Motor stops for the Open and Closed positions, as well as allow the user to reverse direction of the Motor.

These instructions must be followed accurately and completely.



<u>PREPARE MOTOR</u>

<u>Note</u>: Select the appropriate Channel on the MultiChannel Remote, if applicable.

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 2 full seconds.
4. Connect Power for 10 full seconds.
5. Disconnect Power for 2 full seconds.
6. Connect Power. The Awning should move, then stop.
7. Press and hold the **Programming** button for ten seconds, watching for two separate jogs back and forth, several seconds apart.
   A single jog is defined as a quick two-direction movement of the motor.

<u>SET PROPER DIRECTION OF MOTOR ROTATION</u>

8. Press and Hold the **CLOSE** and **OPEN** buttons together, release when the Awning jogs.
9. Press the **CLOSE** button to check the direction of the motor.
   The fabric should **<u>roll onto the top</u>** of the Roller Bar, closing the Awning.
10. If the direction is incorrect, change direction by Holding the **my** button until the motor jogs.
    Press the **CLOSE** button again, to check for the correct direction of the motor.

<u>SET THE CLOSED AND OPEN POSITIONS</u>

11. Move the Awning to the desired **Closed** position.
12. Press and Hold the **my** and **OPEN** buttons together, release when the Awning begins to **OPEN**.
13. Press the **my** button to **Stop** the Awning at the desired **Open** setting.
14. Use the **CLOSE** and **OPEN** buttons to make desired adjustments to the **Open** position.
15. Press and Hold the **my** and **CLOSE** buttons simultaneously, releasing them when the Awning begins to close. The Awning will stop on its own, at the **Closed** position set in step 11.

<u>FINALIZE PROGRAMMING OF MOTOR</u>

16. Press and Hold the **my** button; releasing when the Awning jogs. This step stores the **Open** and **Close** positions.
17. Press and Hold the **Programming** button, wait for jog. This completes the procedure.
18. Test the Awning for correct one-touch operation, using the **Open** and **Closed** buttons.

To Add or Delete a Control Device (Transmitter)

To **ADD** an <u>additional</u> Control Device (second Remote, All Weather Remote or Wireless Switch).

- Press the Programming button on the back of the Transmitter that was supplied with the Awning until the motor "jogs."
- On the <u>additional</u> 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.

Thank you for Choosing SunSetter