



Residential

CAREFREE

SUNDAY II PATIO AWNING

WITH *DIRECT RESPONSE ELECTRONICS*

Installation and Operation Manual

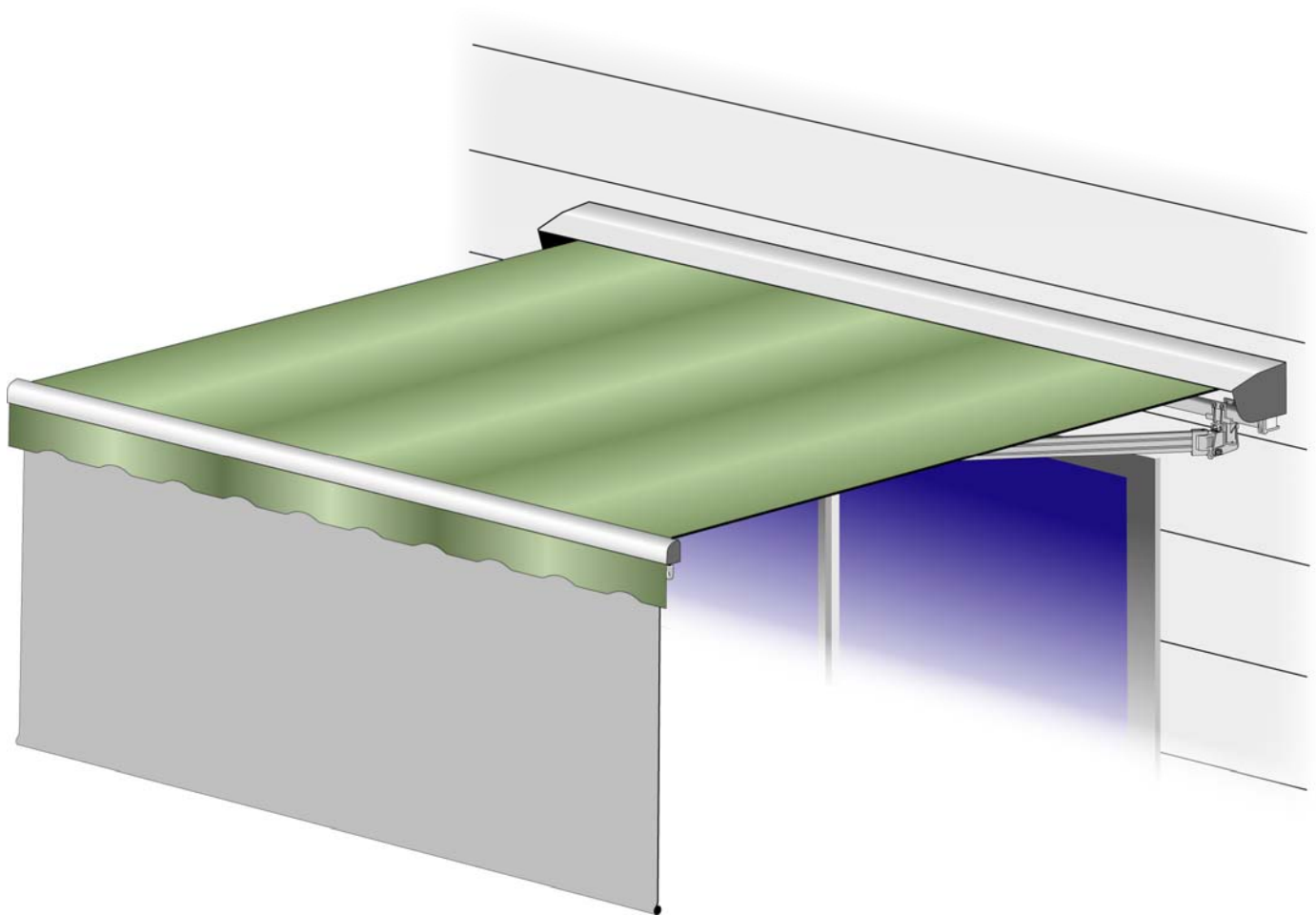


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SAFETY INFORMATION

WARNING

A WARNING INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH , IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY AND/OR MAJOR PROPERTY DAMAGE.

CAUTION

A CAUTION INDICATES A POTENTIALLY HAZARDOUS SITUATION THAT MAY CAUSE MINOR TO MODERATE PERSONAL INJURY AND/OR PROPERTY DAMAGE. IT MAY ALSO BE USED TO ALERT AGAINST UNSAFE PRACTICES.

NOTE: A note indicates further information about a product, part, or step.

Safety Notes:

- Always disconnect power source before working on or around the electrical system.
- Always wear appropriate safety equipment (i.e. goggles).
- Always use appropriate lifting devices and/or helpers when lifting or holding heavy objects.
- Use care to not over tighten fasteners. Soft materials can be "stripped out" and lose the ability to grip.

INTRODUCTION

PRODUCT OVERVIEW

The Carefree Sunday II Lateral Arm Awning is a sure and economical way to provide shade to a deck or patio. The awning design incorporates many positive design features:

- Lateral arm design supports the canopy without vertical supports;
- Fabric tension is maintained at any extended position – full or partial;
- Virtually maintenance free;
- No seasonal takedown;
- Standard 10 foot extension;
- Roll-down shade from lead rail to provide addition shade and privacy;
- The unique and innovative 110V electronic control system provides Carefree’s *Direct Response* system with interior pushbutton controls for standard extend/retract functions. At the master control panel the auto-retract system can be engaged to automatically retract the awning in windy conditions. Sensitivity can be set to respond to a variety of wind speed conditions. An RF remote is available with the *Direct Response* system.

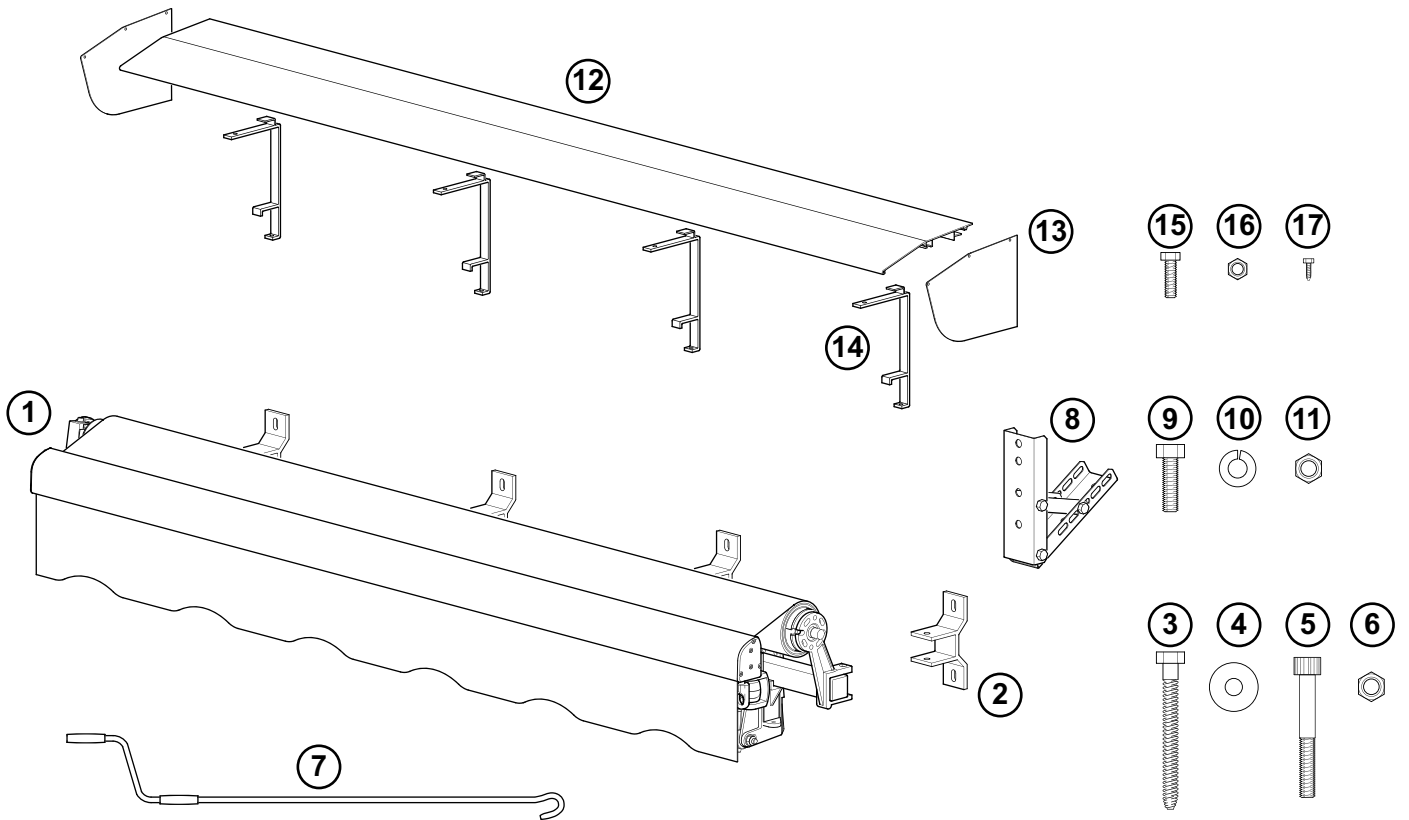
Options:

- Available in LH or RH motor configurations;
- Can be mounted under eaves or on roof (requires optional brackets);
- Protective hood;
- 12 foot extension (available on 7' or longer)

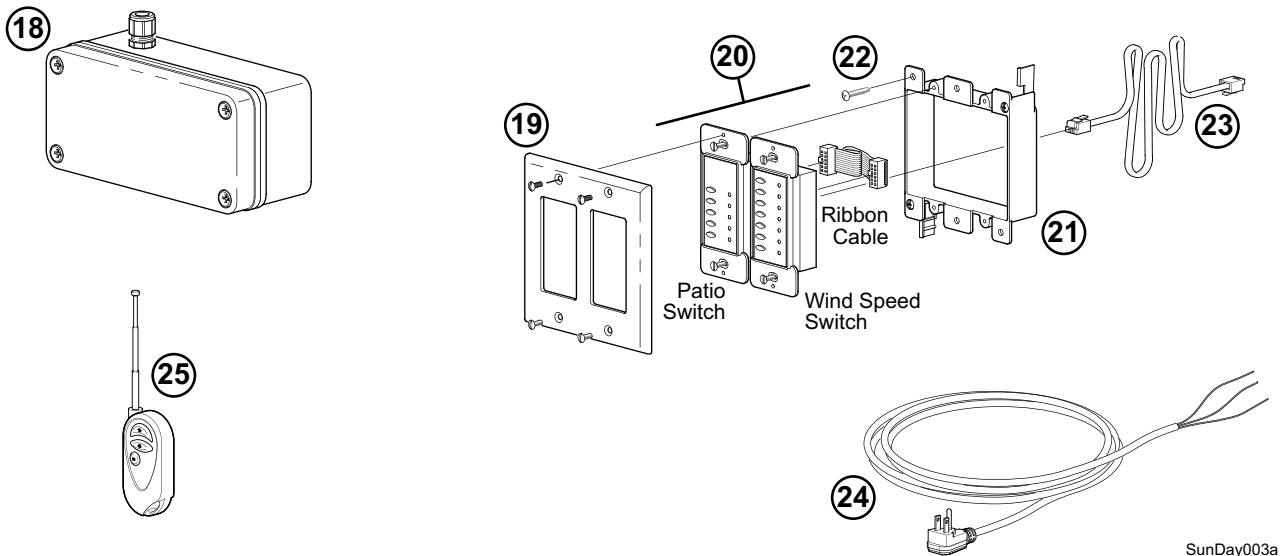
Sunday II Patio Awning Specifications:

<i>Extension:</i>	10' standard	12' optional on 7' or longer
<i>Length:</i>	6' - 19' 3" in 1 inch increments	
<i>Drop Shade Extension:</i>	72" (with Textilene Fabric)	46" (with Acrylic Fabric)
<i>Drop @ Min. Pitch:</i>	approximately 12 inches	approximately 13.5 inches
<i>Drop @ Max Pitch:</i>	approximately 40 inches	approximately 45 inches
<i>Extend Actuation:</i>	Spring Loaded	
<i>Retract Actuation:</i>	Motorized roll up	
<i>Position Control:</i>	Motorized roll out/in	
<i>Power Requirements:</i>	110VAC	
<i>Circuit Rating:</i>	20 amp	
<i>Emergency Retract:</i>	Manual Crank	

COMPONENT CHECKLIST



Direct Response Electronic Components



SunDay003a

Figure 1. Component Checklist.

<input checked="" type="checkbox"/>	ITEM	DESCRIPTION	QTY	NOTE
AWNING ASSEMBLY				
<input type="checkbox"/>	1	Awning Assy, Complete	1	1
<input type="checkbox"/>	2	Bracket, Mounting	4	
<input type="checkbox"/>	3	Screw, Lag	3/8 x 3	8
<input type="checkbox"/>	4	Washer, Flat, 1" O.D.	7/16	8
<input type="checkbox"/>	5	Screw, SHC	M8-1.25 x 60mm	4
<input type="checkbox"/>	6	Lock Nut	M8-1.25	4
<input type="checkbox"/>	7	Crank		1
ROOF MOUNT BRACKETS			OPTIONAL	
<input type="checkbox"/>	8	Bracket Assy, Complete	4	6
<input type="checkbox"/>	9	Screw, HHCS	3/8-16 x 1	8
<input type="checkbox"/>	10	Lock Washer	3/8	8
<input type="checkbox"/>	11	Nut	3/8-16	8
COVER			OPTIONAL	
<input type="checkbox"/>	12	Cover	1	
<input type="checkbox"/>	13	End Cap	2	
<input type="checkbox"/>	14	Bracket, Cover Mount	4	
<input type="checkbox"/>	15	Screw	5/16-18 x 3/4	8
<input type="checkbox"/>	16	Nut	5/16-18	4
<input type="checkbox"/>	17	Screw, HWH	#8 x 1/2	6
DIRECT RESPONSE ELECTRONICS				
<input type="checkbox"/>	18	Control Box	1	2
<input type="checkbox"/>	19	Face Plate	1	2
<input type="checkbox"/>	20	Switch Assembly	1	3, 4
<input type="checkbox"/>	21	Switch Mounting Box	1	
<input type="checkbox"/>	22	Screw, Pan Head	#8 x 3/4	4
<input type="checkbox"/>	23	Phone Cable	240"	1
<input type="checkbox"/>	24	AC Power Cord w/ Wall Connector	12 feet	1
<input type="checkbox"/>	25	Remote Control	Optional	1

- NOTES:
1. Specific awning configuration is specified at time of order, including awning length, LH or RH configuration, fabric etc. Check awning assembly against original purchase order.
 2. Control Box is furnished in two versions. Standard w/o RF receiver and w/ optional RF receiver.
 3. Mounting screws are included with switches and switch plate.
 4. Switch assembly includes patio switch, wind speed switch and ribbon cable.
 5. Additional remote controls may be ordered separately (SR0015)
 6. Roof Top Bracket Assy (item 7) includes vertical plate, horizontal plate, 2 straps and assembly hardware. Bracket may be shipped unassembled.
 7. Items 9, 10, and 11 are furnished to attach mounting bracket (item 2) to Roof Top Bracket. Quantities are per roof top bracket.

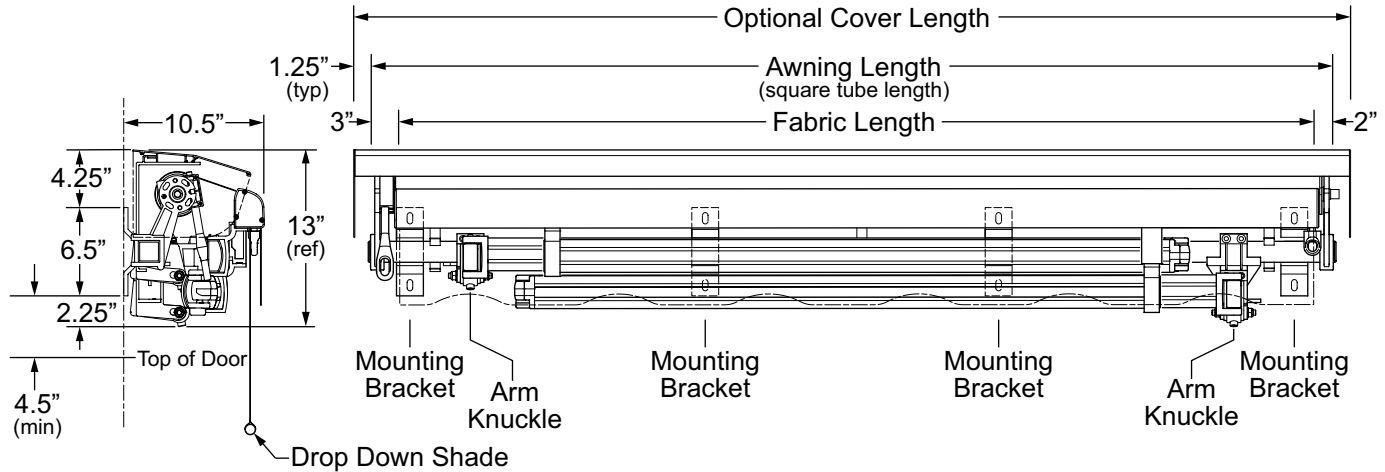
INSTALLATION

⚠ CAUTION

IT IS RECOMMENDED THAT AT LEAST TWO PEOPLE INSTALL THE AWNING DUE TO SIZE AND WEIGHT OF THE COMPONENTS!

PRE-INSTALLATION LAYOUT AND PREPARATION

Prior to installing the awning system, the installer must determine the layout of the system and provide specific construction elements to successfully assemble the awning components.



Sunday020

Figure 2. Awning Layout w/ Optional Hood Shown.

1. Determine the location, size and type of awning to be mounted.
 - There must be structure at the awning mount locations. Fiberglass or sheet metal siding alone is **NOT** strong enough to support the weight of the awning!
2. Two methods of mounting are available. The awning mounting brackets may be directly attached to a vertical surface or the optional roof mount brackets allow the awning to be mounted on a pitched surface or from an overhang.
3. The bottom of the mounting bracket should be mounted a minimum of 4.5" above the door opening.
4. Determine the mounting locations for the control box and switch assemblies.
 - For 110VAC installations, the installer must provide enclosed junction boxes for all wire splices. Boxes are required in conformance with prevailing construction codes.
 - At the control box location, 110VAC power is required. It is recommended that the installer provide a dedicated circuit for the awning system that is protected by an appropriate sized fuse/circuit breaker. Each patio awning draws a maximum of 3 amps.
 - The motion sensor for the *Direct Response* system is mounted on the patio awning. 10 feet of cable is available from the awning wall mount, and will require a routing path to the control box. If the control box is located at a distance greater than 10 feet, the installer must provide a terminated jumper cable from the box location to the cable end.
 - A terminated cable must be routed from the switch panel location to the control box location.
 - Terminated cable is a 4-wire RJ11 terminated phone cord (straight, no twist).

Refer to section Wiring on page 8 for specific installation and wiring details.

MOUNTING THE AWNING BRACKETS

1. Prior to mounting the brackets, inspect and clean the mounting area. The area must be flat without ridges or irregularities. Smooth the area as required.
2. The brackets must mount into the vertical structure of the building or to reinforced support members that are attached to the structure.
3. The brackets should be positioned so that there is one bracket on either side of each of the arm knuckles.
4. Ensure that the brackets are level and in-line with each other.
5. Determine the best method to attach the mounting brackets to the wall. Examples for attaching the mounting brackets are shown in Figure 3. Bracket attach details are suggestions and may not cover all circumstances. If unsure, consult a builder or engineer prior to installation.

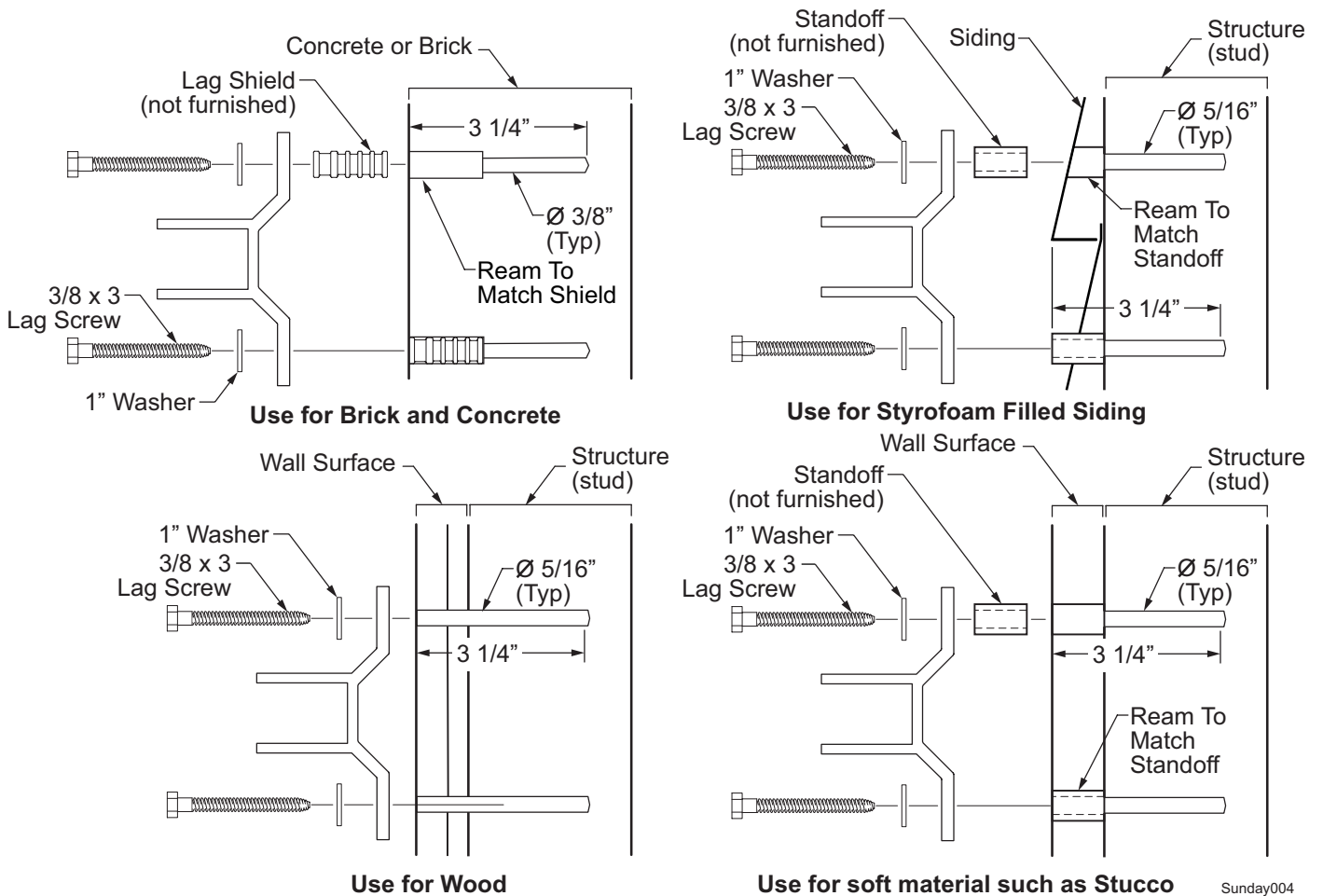


Figure 3. Attaching the Mounting Brackets.

Using the Optional Roof Mount Brackets

The brackets are shipped unassembled.

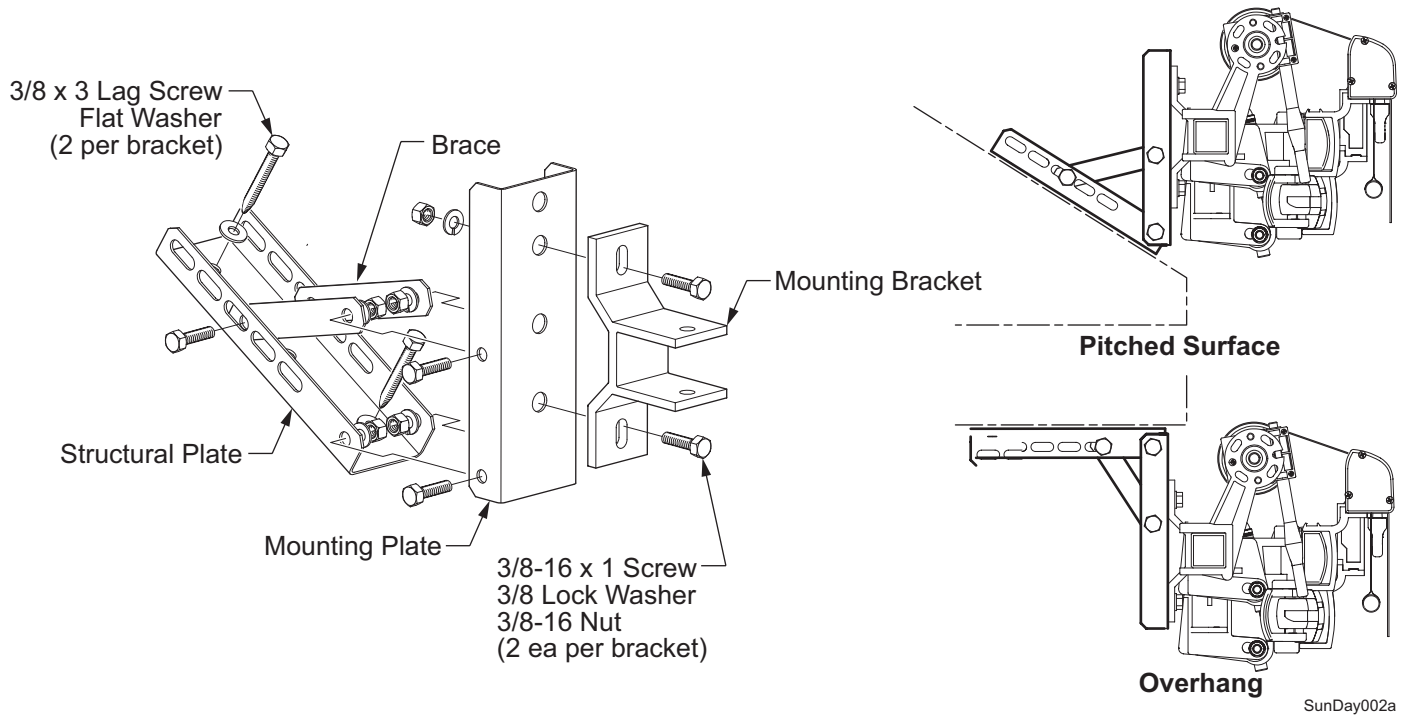


Figure 4. Roof Mount Brackets.

1. Position the structural plates in the desired locations and attach using 3/8 x 3 lag screws and washers. Follow the recommended mounting procedures described previously.
2. Loosely attach the braces and mounting plate to the structural plate using the bolts, washers and nuts furnished in the bracket package.
3. Set the mounting plate vertically and tighten all the attaching hardware.
4. attach the awning mounting bracket to the mounting plate using two (2) 3/8-16 x 1 screws, lock washers and nuts. Ensure that the brackets are in line and parallel.

MOUNTING THE AWNING

1. For installations with the optional cover (refer to Figure 6 on page 7):
 - Slide the 4 cover brackets behind the awning rollbar and around the awning frame (square tube).
 - Position the outer brackets toward the end of the awning frame. Evenly space the remaining brackets. When positioning the brackets, ensure that there is no interference with the arms.
 - Secure the brackets in place with one each 5/16-18 x 3/4 screw. The screw threads through the bracket and against the awning frame.

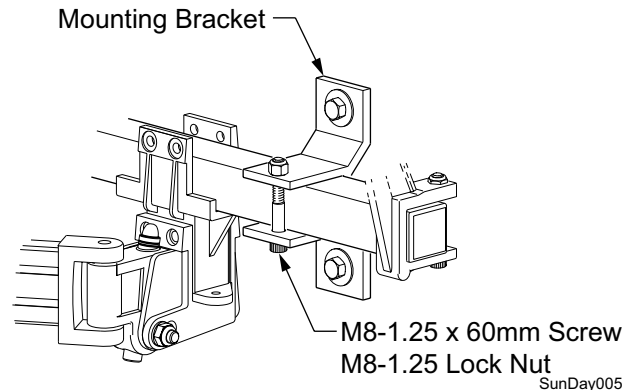
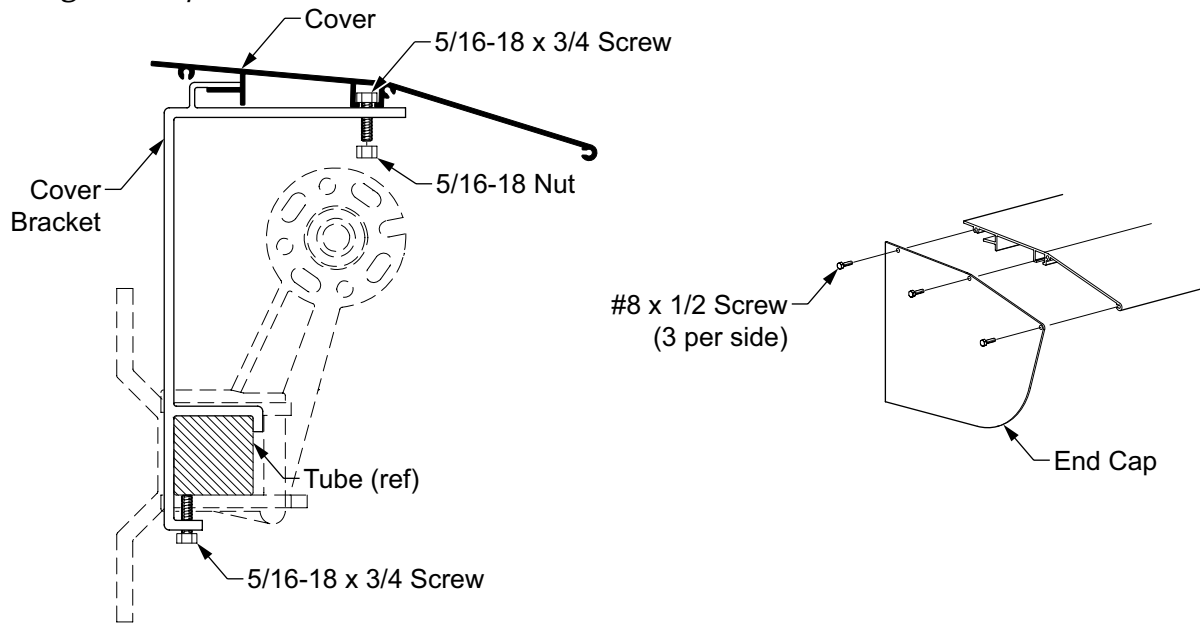


Figure 5. Securing the Awning.

2. Lift the awning assembly up to the brackets.
3. Set the square tube into the mounting brackets.
4. Horizontally center the awning in the brackets and over the area to be shaded.
5. Secure the awning to the brackets using the M8-1.25 x 60mm screws and nuts.

Attaching the Optional Cover



SunDay006a

Figure 6. Attaching the Cover.

1. Slide the heads of four (4) 5/16-18 x 3/4 screws into the track on the bottom of the cover.
2. Lift the cover onto the brackets. The lip of the cover should latch with the hook on the brackets.
3. Align the screws from step 1 with the holes in the brackets.
4. Center the cover over the awning and secure with four (4) 5/16-18 nuts.

This concludes the physical installation of the Carefree Sunday II Awning. For manual versions, no further installation is required. For motorized versions, go to "Wiring" on page 8.

WIRING

WARNING

ALWAYS DISCONNECT THE ELECTRICAL SOURCES BEFORE WORKING WITH ELECTRICAL WIRING AND COMPONENTS.

IMPORTANT NOTICES:

- **Failure to follow the wiring instructions in this publication may void the warranty.**
- **All wiring must conform to NEC (National Electrical Code) and local codes.**
- **DO NOT wire two or more motors to one switch—No parallel wiring.**
- **The installer must provide UL approved enclosed junction boxes, conduit, etc. for all 110VAC wire splices. Boxes are required in conformance with prevailing construction codes.**
- **If the motor wire is to be routed through a wall: The SO cable from the 110VAC awning motor can only pass directly through a wall, it can not be laid up in the wall and must be connected to NM wire or individual wires in conduit no more than 6 inches past the point of entry.**
- **If routing wires in the open: Always provide a drip loop at the component. This will help prevent water from following the wire into the component.**
- **After completing the wiring, seal all wire ports in the components using a high grade silicone sealant.**

The 110V electronic control system provides the user with simple pushbutton controls for the awning. The *Direct Response* electronic system is a premier auto-retract system that detects motion from adverse wind conditions and retracts the awning. Sensitivity is set by the user.

- System includes: Control box, Master control panel (w/ pushbutton awning control and wind speed sensitivity setting) and motion sensor (factory installed).
- An RF remote control is available with the *Direct Response* system. The RF receiver is incorporated into the control box.
- Refer to the Operation section of this manual for description of controls and settings.
- The switches use a 5VDC signal to operate the control box; thus eliminating the need for a junction box for the control panel.
- Components are connected using terminated phone cable. Terminated cable is 4-wire RJ11 terminated phone cord (straight, no twist). This does not include cables for 110VAC power or the awning motor.

NOTE: Lengths of the furnished cables are listed in the chart on page 10. If a connection requires a length greater than the supplied cable, the installer must provide a terminated jumper cable from the box location to the cable end. Terminated cables are 4-wire RJ11 terminated phone cord (straight, no twist).

SWITCH INSTALLATION

This installation is for mounting the control panel switches inside the structure. If the switches are to be mounted outside, the installer must furnish an enclosed, weatherproof receptacle with a sealable cover.

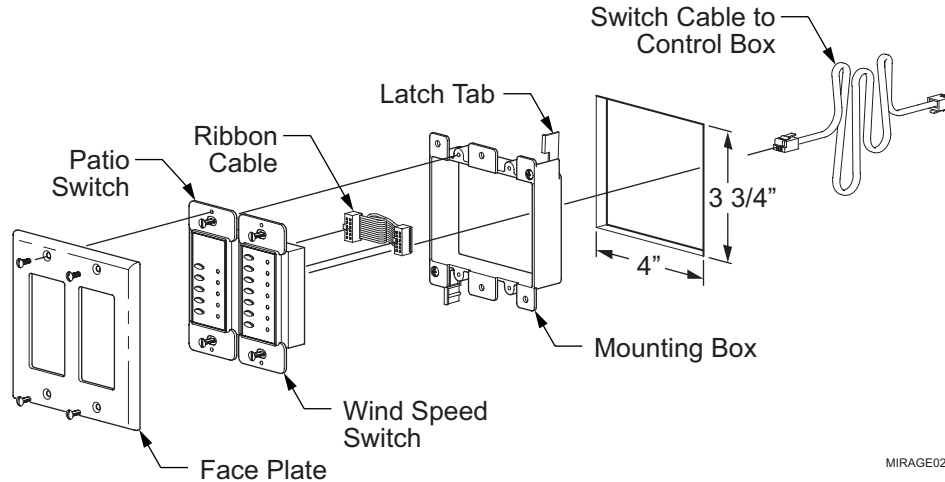


Figure 7. Switch Installation.

1. At the switch location, cut a rectangular hole 4" x 3 3/4". The mounting box is able to clamp to thicknesses from 1/4" to 1".
2. Insert the mounting box and tighten the latch tab screws. The tabs will automatically rotate to clamp on the back side of the mounting surface. Do not over tighten the clamp screws.
3. Connect the switch cable to the patio switch and route to the location of the control box.
4. Mount the Patio Switch and Wind Speed Switch in the mounting box.
5. Mount the faceplate onto the switches. It may be necessary to slightly loosen the switches to align the faceplate and switches.

CONTROL BOX INSTALLATION

(Refer to wiring diagram on page 10)

1. Determine the location of the control box.
 - Do not mount the unit near heat producing elements such as barbeques, open flames or hot lights.
 - For best reception for the remote, do not mount on or near metal surfaces.
 - Mount the unit with the antenna pointing up.
2. Detach the lid from the control box.
3. Attach the box using a minimum of two (2) #8 x 3/4 screws. The screws should be mounted in opposite corners.
4. Route the AC power cord to the box. It is recommended that the installer provide a dedicated AC circuit that is protected by an appropriate sized fuse/circuit breaker. Each patio awning draws a maximum of 3 amps. Connect wires to the control box as shown in the wiring diagram.
5. Route the wire from the motor to the control box and attach the wires to the terminals as shown.
6. Connect the cable from the motion sensor to "SHAKE" in the control box.
7. Connect the cable from the switch panel to "ACC" in the control box.

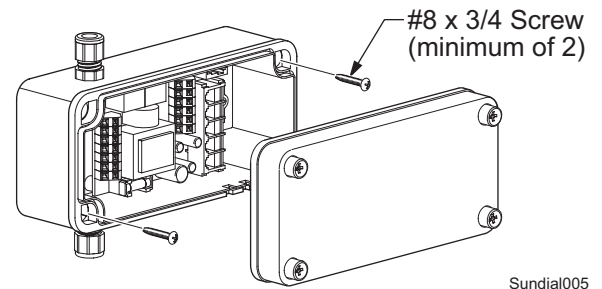
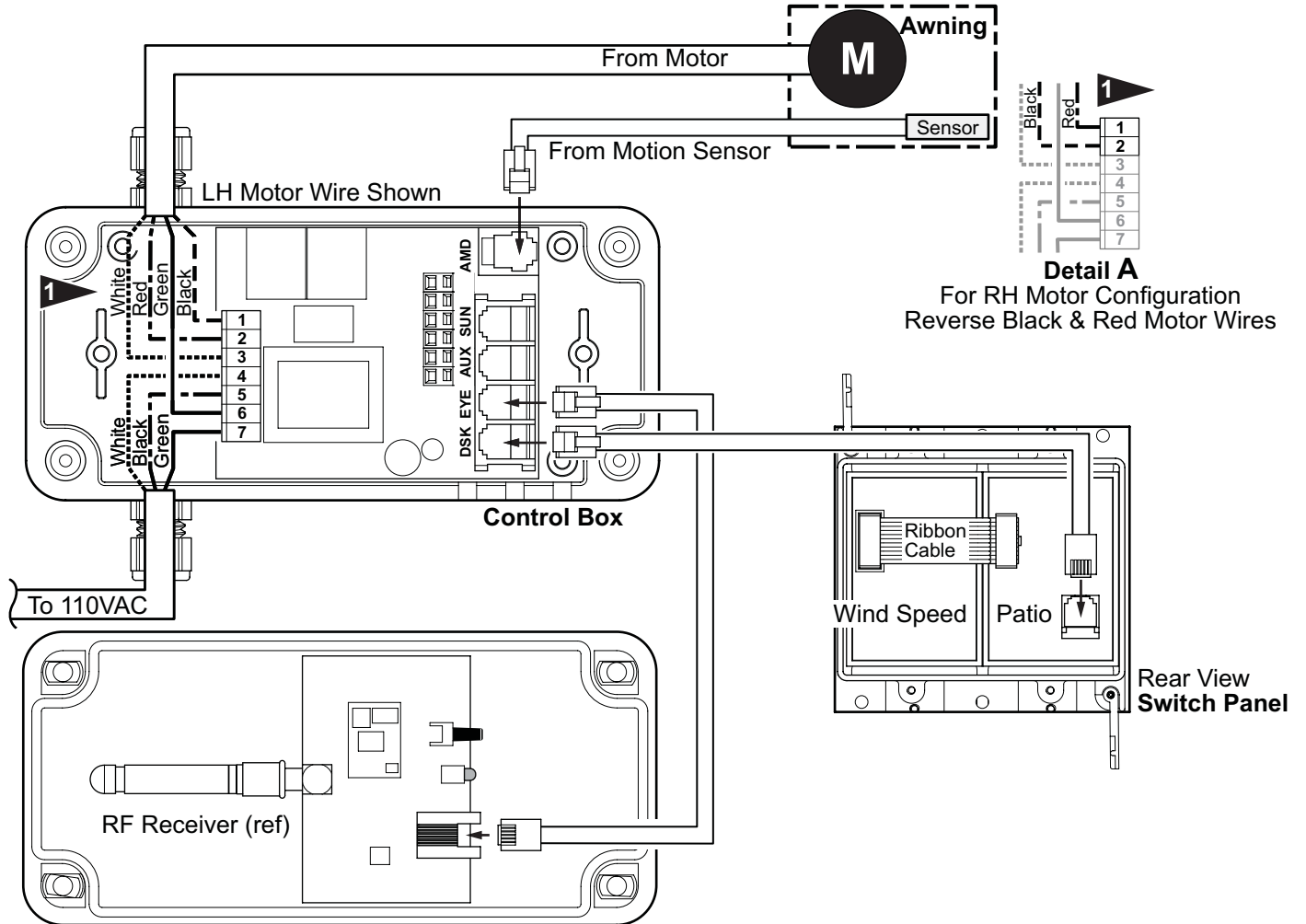


Figure 8. Mounting the Control Box.

WIRING DIAGRAM

IMPORTANT NOTE: Two versions of the tubular motor are used on the Sunday II awning. Before beginning the wire connections, identify the motor (series 1 or 2) then use the appropriate wire colors listed for that motor. Colors are identified in the "Wire Legend" below.



1 Series 2 Motor Wire Colors Shown, If a Series 1 Motor is Installed, Use the Wire Colors Listed Below.

Motor Wire Legend:		Motor Wire Color:	
---	Motor Line #1	<u>Series 1</u>	<u>Series 2</u>
---	Motor Line #2	Brown	Black
.....	Neutral	Black	Red
—	Ground	Blue	White
		Yellow/Green	Green

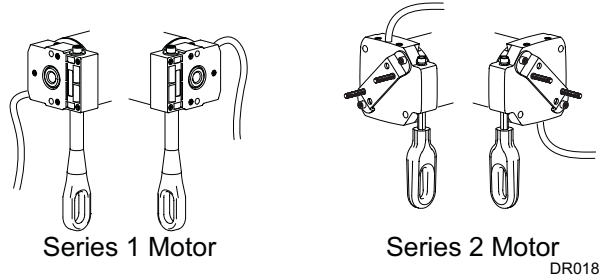
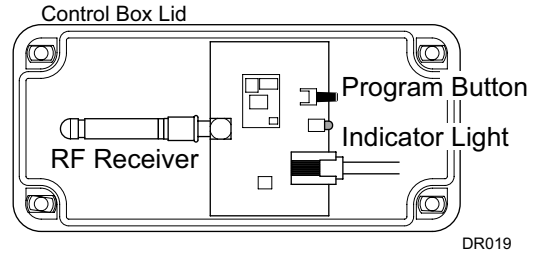


Figure 9. Wiring Diagram - Direct Response.

PROGRAMMING THE REMOTE RECEIVER

Early transmitters & receivers operate on a frequency of 418MHz. Models for 2007 & on operate on 433MHz. The transmitter and receiver frequencies must match. Identifying the transmitter frequency is described under the operational notes below.

1. Power to the control box must be on.
2. Press and release the "Press to Learn Transmitter" button on the bottom of the receiver box. The receiver is in program mode when the red light comes on.
3. For Gray Button Key FOBs: Press and release the ANY button on the remote. It is recommended to use the STOP button. The red light will go out after the receiver learns the remote signal.
4. For Key FOBS w/ Antenna: Press and release the STOP button on the remote. The red light will go out after the receiver learns the remote signal.



NOTE: Pressing the stop button will cause the blue up arrow button to default as the open (extend) function.

If a function button is pressed to train the receiver, it will be programmed as the open (extend) button. Example: Pressing the top button will program the top button for extend and the bottom button as retract.

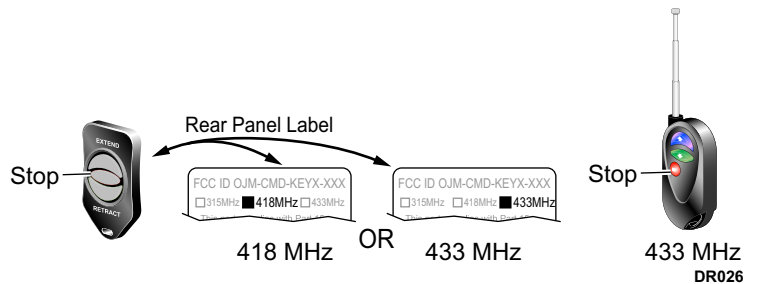
⚠ CAUTION

IF A FUNCTION BUTTON IS PRESSED DURING THE LEARNING PHASE, THE BUTTON THAT IS PRESSED WILL BECOME THE EXTEND FUNCTION. THE AWNING WILL THEN PERFORM THE FUNCTION (EXTEND) WHEN THE RECEIVER LEARNS THE TRANSMITTER SIGNAL. USE CARE TO AVOID UNEXPECTED AWNING MOVEMENT.

5. Repeat for each additional remote.

Operational Notes:

- Transmitter and receiver must match in frequency (418 MHz or 433 MHz). The gray button Key FOBS are marked with a label for 418MHz or 433MHz frequency. Key FOBS w/ antenna are 433MHz.
- The receiver exits the program mode after ten seconds.
- If the light does not come on above, check the continuity of the cord between the boxes and repair or replace as required. Pin 1 of the 1st connector goes to pin 1 of the 2nd connector etc. If the light still does not come on, the memory is full and must be cleared.
- If the light does not go out in above, the receiver already knows the transmitter's signal or the battery in the remote needs to be replaced.
- To clear the memory: PRESS AND HOLD the transmitter learn button. While holding the button, the indicator light should be OFF for the full 5 seconds then come on.
- The system may be programmed for up to 5 remotes. Additional remotes may be ordered separately.



TESTING THE SYSTEM

When 110VAC power is removed from the system, the controller does not retain previous positioning information. When power is restored, positioning information is updated when the first function is initiated.

The function LEDs (extend, retract and stop) perform a dual function. When the button is pressed, the LED illuminates. The LED stays illuminated during the selected operation and after the awning has fully extended or retracted. This provides an indicator of the awning position. When the stop button is pressed, the LED will illuminate and stay on until a function is pressed. If on, it indicates that the awning is partially extended/retracted.

All function buttons are press and release. The auto-functions continue until the awning is fully extended/retracted or when the stop button is pressed. The ON/OFF and Auto Retract buttons are press ON/press OFF.

1. While observing the control panel, have a second person initiate 110VAC power to the awning system. The following should occur:
 - 1.1 The Auto-Retract and Wind Speed LEDs should illuminate briefly then extinguish.
 - 1.2 The Power ON/OFF and function/position LEDs will briefly illuminate.
 - 1.3 The system then goes to the default settings: The POWER "ON", AUTO-RETRACT "ON" and MEDIUM Wind Speed LED will be on.

NOTE: The function/position LEDs (extend, stop and retract) will not be illuminated. During power up the controller does not retain position information. The controller is updated with the first function used.

2. Press the POWER "OFF". ALL LEDs should be extinguished. The POWER ON/OFF button disables all functions including Auto-Retract and the RF remote. It does not disconnect the 110VAC power.
3. Press the POWER "ON". Press the EXTEND button, the LED should illuminate while the awning extends and stay on after the awning auto-stops. Observe the awning, it should fully extend. The system performs an auto-tension action when the awning is fully extended. The awning rolls in reverse to tension the fabric. The auto-tension feature works only with the extend function when the awning is fully extended or the stop button is pushed while extending.
4. After the awning is fully extended, press the RETRACT button, the EXTEND LED should extinguish and the Retract LED should illuminate while the awning is retracting. Press the STOP button.
5. When the STOP button is pressed, the awning will stop, the RETRACT LED should extinguish and the STOP LED should illuminate.
6. Press the RETRACT button, allow the awning to retract fully, the Retract LED will illuminate and stay lit.
7. Press the AUTO-RETRACT OFF. The AUTO-RETRACT and WIND SPEED LEDs should go out.
8. Press the AUTO-RETRACT ON. Press each Wind Speed button and confirm that the corresponding LEDs illuminate.
9. Test the Auto-Retract function:
 - 9.1 Fully extend the awning.
 - 9.2 With the AUTO-RETRACT ON, set the WIND SPEED to the lowest setting.
 - 9.3 Create a firm but gentle vertical rocking motion with the leading edge of the awning. The awning should retract after 2-3 seconds of the motion.

Testing the Key FOB

1. Restore 110V power to the system.
2. Ensure that the system is OFF at the switch panel.
3. Press each button on the Key FOB. The awning should not move.
4. Turn the system on. Do not turn on the Auto-Retract at this time.
5. Press and release the EXTEND button. The awning should extend automatically.
6. Press and release the RETRACT button on the Key FOB. The awning should retract automatically.
7. While the awning is retracting, press and release the STOP button on the Key FOB. The awning should stop when the button is pushed.
8. Turn on the Auto-Retract. Repeat steps 5 through 7.

OPERATION

The *Direct Response* system provides the user with a wide range of awning controls with simple pushbutton operation. The standard operation is straight-forward with the buttons clearly labeled. Each is described below. These buttons operate the same with or without the auto-retract system turned on.

All function buttons are press and release. The auto-functions continue until the awning is fully extended/retracted or when the stop button is pressed. The ON/OFF and Auto Retract buttons are press ON/press OFF.

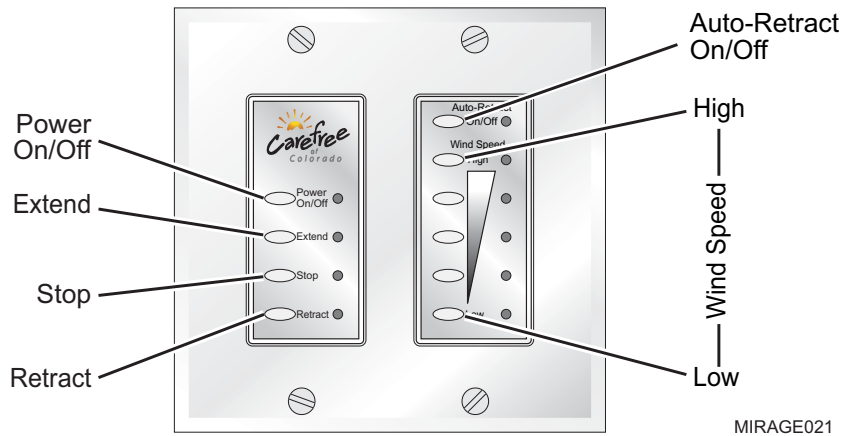


Figure 10. *Direct Response* Pushbutton Controls.

Power ON/OFF....Press ON, Press OFF. The power switch must be on before any awning functions can be used. When the power is ON, the LED will illuminate.

⚠CAUTION

EXCEPT WHEN THE AUTO-RETRACT SYSTEM IS ACTIVE, IT IS STRONGLY RECOMMENDED THAT THE POWER SWITCH BE SET TO OFF WHENEVER THE AWNING IS NOT BEING OPERATED. THIS ACTS AS A SAFETY TO PREVENT THE AWNING FROM BEING ACCIDENTLY OPENED UNEXPECTEDLY.

Extend.....Press and release. The awning will extend out to the full extension and stop automatically. When the button is pushed, the LED will illuminate and stay on until another function is activated.

During normal operation, the awning will extend out completely then roll back slightly to provide tension to the fabric.

Stop.....Press and release. During extend and retract functions, the operator may stop the awning by pressing this button. When the button is pushed, the LED will illuminate and stay on until another function is activated.

RetractPress and release. The awning will retract and stop automatically when the awning is fully retracted. When the button is pushed, the LED will illuminate and stay on until another function is activated.

The function LEDs (extend, retract and stop) perform a dual function. When the button is pressed, the LED illuminates. The LED stays illuminated during the selected operation and after the awning has fully extended or retracted. This provides an indicator of the awning position. When the stop button is pressed, the LED will illuminate and stay on until a function is pressed. If on, it indicates that the awning is partially extended/retracted.

NOTE: When 110VAC power is removed from the system, the controller does not retain previous positioning information. When power is restored, positioning information is updated when the first function is initiated.

⚠CAUTION

AT STARTUP (110VAC APPLIED) DO NOT PRESS THE RETRACT BUTTON TO UPDATE THE POSITIONING INFORMATION. THIS CAN CAUSE THE MOTOR TO RUN IN AN OVER CURRENT MODE. IF THIS OCCURS, THE MOTOR'S THERMAL PROTECTION DEVICE MAY SHUT OFF THE MOTOR AND THE OPERATOR MUST WAIT APPROXIMATELY 15 MINUTES FOR THE MOTOR TO COOL OFF, BEFORE OPERATING THE AWNING. TO PROPERLY SET THE POSITIONING INDICATOR, PUSH THE EXTEND BUTTON, ALLOW TO RUN FOR 1 SECOND THEN PRESS THE STOP OR RETRACT BUTTON.

THE AUTO-RETRACT SYSTEM

The *Direct Response* system detects awning motion caused by windy conditions. The user is able to set the sensitivity and may have to experiment to find the best setting for the user's preferences.

The system operates by gauging the motion of the awning's leading edge. When persistent motion exceeds the factory preset threshold value for 2 seconds or longer, the system will automatically retract the awning. The pushbutton controls allow the user to choose between 5 factory preset sensitivity values (threshold values).

Gust detection is incorporated into the software. When the motion value is suddenly and sharply increased above a safe maximum value, then the 2 second persistence measure is overridden and the awning closes immediately.

To operate the auto-retract system: Turn the power ON; turn the Auto-Retract ON; set the sensitivity to the desired level.

NOTE: If the Auto-Retract LEDs flash when pressed on, this indicates that a motion sensor has been disengaged or otherwise disabled; the affected awning(s) are not protected by the auto-retract system. The awning must be retracted using the command buttons. Immediately contact a Carefree service center for service.

⚠ CAUTION

THE CAREFREE DIRECT RESPONSE SYSTEM IS A PREMIERE ELECTRONIC AUTO-RETRACT SYSTEM THAT PROVIDES PROTECTION AGAINST ADVERSE ELEMENTS; BUT NO AUTO-RETRACT SYSTEM IS A GUARANTEE AGAINST SEVERE OR DESTRUCTIVE WEATHER; THE EFFECTS OF WIND AND RAIN ON AN AWNING ARE UNPREDICTABLE AND MAY CAUSE SEVERE DAMAGE TO THE AWNING AND/OR BUILDING. IF WIND OR EXTENDED PERIODS OF RAIN ARE EXPECTED, RETRACT THE AWNING.

USING THE KEY FOB REMOTE CONTROL

A remote control Key FOB is furnished with the single awning installation. To use: turn system power ON.

Extend... Press and release. The awning will extend out to the full extension and stop automatically.

Retract... Press and release. The awning will retract and stop automatically when the awning is fully retracted.

Stop..... Press and release. During extend and retract functions, the awning may be stopped by pressing this button.



KEY FOB BATTERY

The Gray Button remote uses a flat 3V Lithium Battery (p/n CR2032) that should provide a long period of service. To access: carefully pry off the back of the case. Lift the circuit board out then slide the old battery out of the battery holder and slide a new battery in. The + should face away from the circuit board.

The Key FOB remote w/ antenna uses a battery (Radio Shack p/n 23-279 or equivalent) that should provide a long period of service. To access: Remove the small screw from the back of the case and carefully snap off the back. Lift the old battery out and insert the new battery.

Batteries are available through your local battery outlets.

Battery life is dependent on frequency of use, environmental conditions and condition of remote.

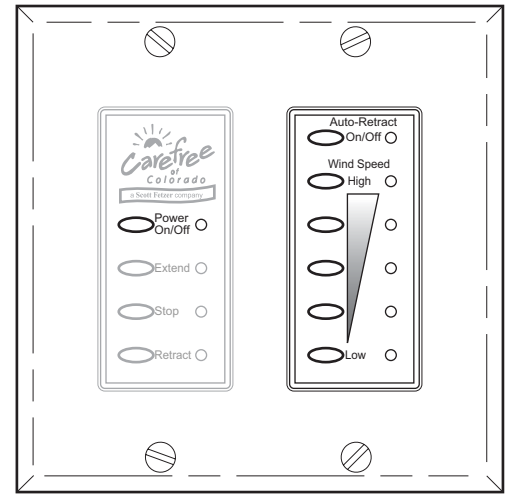


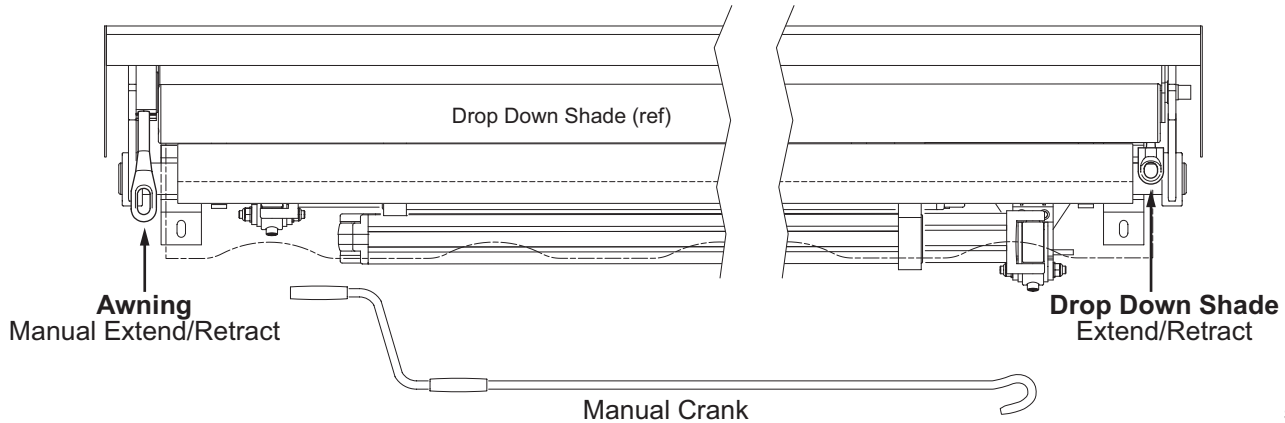
Figure 11. Auto-Retract Controls. MIRAGE026

MANUAL OPERATION

Awning

This procedure is used when power is not available for the motor.

1. Insert the hook on the hand crank into the eyelet located at the end of the fabric roll bar.
2. Turn the crank to extend or retract the awning.



Left hand motor shown.

Figure 12. Manual Controls.

Drop Down Shade

The drop down shade is located in the lead rail of the awning and is manually operated using the hand crank.

1. Insert the hook on the hand crank into the eyelet located at the right end of the lead rail.
2. Turn the crank to extend or retract the shade.

SETTING THE PITCH

The pitch of the Sunday II Awning can be set to optimize shade coverage for the deck or patio.

1. Locate the large hex screw on the bottom of the arm knuckle.
2. Using an 8mm allen wrench turn the screw counterclockwise to lower the lead rail and clockwise to raise the lead rail.
3. Repeat for the other side.

CAUTION

ADJUST BOTH SIDES OF THE AWNING EVENLY. IF THE LEADING EDGE IS NOT LEVEL, THE RETRACT FUNCTION MAY NOT CLOSE PROPERLY AND CAUSE DAMAGE TO THE ARMS AND AWNING.

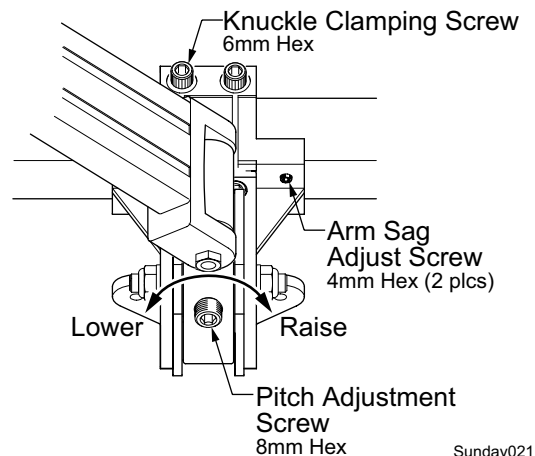


Figure 13. Pitch Adjustment.

ADJUSTING THE ARM SAG

Overlapping arms are adjusted at the factory to fold parallel with each other. After installation it may be necessary to adjust the arm sag so that the arms fold without hitting or rubbing.

1. Locate the knuckle of the arm that is out of adjustment.
2. Slightly loosen (do not remove) the screws that clamp the knuckle (or spacer) onto the square tube. Do not allow the knuckle to move horizontally on the bar.
3. Using a 4mm allen wrench turn the set screws (one on each side of the knuckle) to adjust the arm level.
To lower the arm elbow: Loosen the outer set screw and tighten the inner set screw.
To raise the arm elbow: Loosen the inner set screw and tighten the outer set screw.
4. Tighten the screws that clamp the knuckle onto the square tube.

MAINTENANCE

CLEANING

⚠ CAUTION

DO NOT USE OIL BASED CLEANERS OR ANY CAUSTIC, GRANULATED, OR ABRASIVE TYPE CLEANERS ON YOUR CAREFREE PRODUCT.

1. One of the best ways to keep the fabric looking good and to delay the need for deep or vigorous cleanings is to hose fabrics off on a monthly basis with clear water. This practice will help prevent dirt from becoming deeply imbedded in the fabric and eliminate the need for more frequent vigorous cleanings. In most environments, a thorough cleaning will be needed every two to three years.
2. When it's time for a thorough cleaning, the fabric can be cleaned while still on an awning frame.
 - For Acrylic Fabric – Use a stiff brush and warm water with soap.
3. When cleaning the fabric, it is important to observe the following:
 - Always use a natural soap. Never detergent.
 - Water should be cold to lukewarm. Never more than 100 degrees.
 - Air-dry only. Never apply heat to the fabric.

Mildew

Mildew is a fungus growth that looks like dirt. Vinyl coated polyester fabrics are mildew resistant because of a chemical biocide in the vinyl coating. Under ordinary conditions, mildew will not appear. However, in areas where high temperature and humidity are common, mildew can be a problem and require the material to be washed more frequently. THOROUGHLY rinse the fabric with clean water and allow to air dry completely before rolling up the awning.

SETTING THE LIMIT SWITCHES

The motor limit switches are preset at the factory for best operation of the awning. The "OUT" limit switch is used to stop the motor when the awning is fully extended. The "IN" limit switch is used to stop the motor when the awning is fully retracted. The limit switches are adjusted on the top of the motor.

NOTE: It is best to make the adjustments in increments of a single turn. 3 full turns of the screw equals approximately 2" of fabric extension.

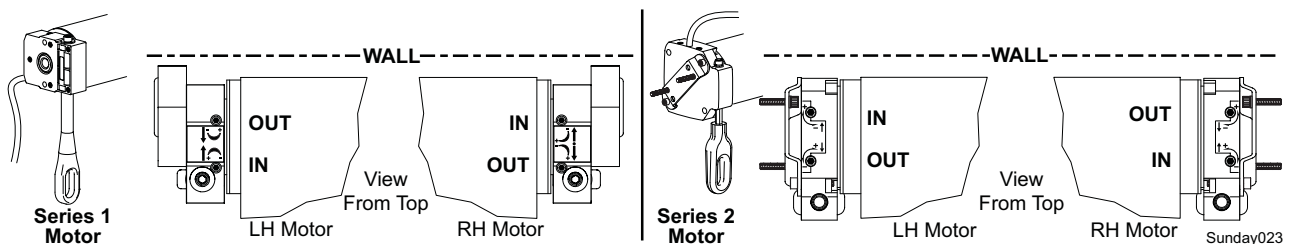


Figure 14. Setting the Limit Switches.

Adjusting the "OUT" Limit Switch

1. Extend the awning out completely.
2. Confirm that the arms are fully extended. The motor should stop and the fabric should be tight. If the motor continues to run, the fabric will sag; or, if the motor quits before the arms are extended, it will be necessary to adjust the "OUT" limit switch.
3. Using a 4mm Allen wrench turn the "OUT" limit switch. "+" increases time the motor runs during extension, "-" reduces the time the motor runs.

Adjusting the "IN" Limit Switch

NOTE: The "IN" limit switch is not adjusted when the Direct Response system is installed. The system electronics monitors the motor and shuts the motor off when the awning is fully retracted.

If the IN limit switch is accidentally adjusted, the motor may shut off before the awning is fully closed. If this occurs, turn the IN adjustment screw in the "+" direction. It is not necessary that the screw matches the closed position. The electronics control the closed position.

LIMITED WARRANTY

Carefree of Colorado (hereafter referred to as Carefree) warrants to the FIRST retail Purchaser that the Sunday II Patio Awning is free of defects in material and workmanship within the terms and conditions as set forth below. Carefree's obligation under this warranty is limited to the repair or replacement, at Carefree's option, of any defective component within the stated warranty period. THIS WARRANTY IS NOT TRANSFERABLE.

1. DURATION

- a) 5 years on motor and canopy.
- b) 10 years on springs, rollers and hardware.
- c) 12 months on electronic components.
- d) For the first 12 months, should a failure occur and the initial purchaser has proof of purchase (warranty card sent in or receipt of purchase) and notifies Carefree in a timely manner, all components, labor and freight are covered 100%.
- e) After the initial 12 months, any defects in the product will be replaced or repaired for a prorated amount of the cost of the part based upon the number of months since the initial date of purchase.

Warranty duration is not extended by the length of time the product is not in use or the time which the purchaser is deprived the use of the product. The duration of coverage is determined by the date of the original product purchase, not the date of repairs.

2. WHAT IS COVERED UNDER THIS WARRANTY

Defects in the manufacturer's material and workmanship of product under normal use, and which occur within the duration of the warranty period. The following components are covered only as listed:

- a) *Fabrics* – Free from quality defects (normal wear and fading are excluded). Cracking, peeling, hardening, sagging or loss of strength provided that the damage is not the result of high winds or water pooling.
- b) *Roller tube & Hardware* – Free from extrusion defects.
- c) *Electrical Components* – Defects.

3. WHAT IS NOT COVERED UNDER THIS WARRANTY

- a) Fabric damage such as pinholes or tears not reported within ten (10) calendar days of purchase.
- b) Improper installation and/or any damage or failure that results from improper installation of the product, including fabric damage caused by improper installation.
- c) Normal wear including occasional need to re-tension the awning.
- d) Conditions that are not related to the material or workmanship of the product: including any failure that results from an accident, wind, rain, water pooling, or other acts of God.
- e) Purchaser's abuse, including but not limited to neglect; failure to operate, use or maintain the product in accordance with the instructions provided with the product.
- f) Any component not sold or manufactured by Carefree.
- g) Any failure that results from the use of another manufacturer's product with a Carefree product that is not specifically approved by Carefree.
- h) Any incidental, indirect, or consequential loss, damage, or expense that may result from any defect, failure, or malfunction of the Carefree product.
- i) The removal or alteration of any product component or device. In the event of such removal or alteration, this warranty is void.
- j) Any expense related to delivery or pick-up of product to/from the service dealer.

4. RESPONSIBILITIES OF THE PURCHASER

IN ORDER FOR THE WARRANTY TO BE HONORED, THE PURCHASER MUST HAVE PROOF OF PURCHASE: THE ORIGINAL RECEIPT OR THE WARRANTY CARD ON FILE AT CAREFREE OF COLORADO. FAILURE TO PROVIDE THE REQUIRED DOCUMENTATION MAY DELAY OR VOID ANY WARRANTY CLAIM.

- a) Retain dated proof of purchase for specified product, and provide it as requested.
- b) Inspect the shade upon purchase to confirm the condition of the canopy, hardware and proper operation of the product.
- c) Perform "Periodic Maintenance" as specified in Owners Manual.
- d) Use reasonable care in maintenance, operation, use and storage of the product in accordance with the instructions contained in the owner's manual.

5. WARRANTY CLAIM PROCEDURE

- a) Deliver any product claimed or found defective during warranty period to a Carefree of Colorado Authorized Service Dealer. Visit www.carefreeofcolorado.com for the name of nearest Authorized Service Dealer, or call Carefree at the phone number shown.
- b) Customer shall schedule a time with an Authorized Service Dealer. Repair or replacement will be scheduled and performed at the Authorized Service Dealer according to normal work flow and availability of replacement parts.
- c) *Work must be performed by a Carefree authorized service center.* When warranty work/repair is performed by an authorized service agent, the agent is responsible for directly billing Carefree of Colorado for warranted parts and labor.
- d) Carefree shall pay the respective servicing dealer or agent for performing any repairs authorized by Carefree as per the terms of this warranty. Company will allow for freight and labor charges - labor is based on Flat Rate Form.
- e) All warranty claims shall be paid through the servicing agent. Carefree does not provide reimbursement for warranty claims paid for by the customer.
- f) The customer shall pay only those costs not covered by warranty. The customer shall have no out-of-pocket expenses except as stated.
- g) The Original Purchaser is responsible for any expenses related to delivery or pick up of product to/from the Service Dealer.
- h) If the Purchaser does not receive satisfactory results from the Authorized Service Dealer, the Purchaser should contact the Carefree of Colorado Customer Care Department within 10 days after completion of the questionable service.

THIS WARRANTY GIVES THE OWNER SPECIFIC LEGAL RIGHTS. THE LAWS OF CERTAIN JURISDICTIONS MAY GRANT THE OWNER ADDITIONAL RIGHTS AND PRIVILEGES. Except as set forth above, Carefree makes no warranty, whether statutory or otherwise, including without limitation, any warranty of merchantability or fitness for a particular purpose. Carefree shall have no liability except to repair, replace or adjust defective products and parts. Carefree specifically excludes any liability, whether in contract, tort or otherwise, for personal injury, property damage, economic or consequential losses. Carefree has not authorized any person or company to alter the terms of this warranty.

It is Carefree of Colorado's policy and practice to continuously improve the company's products and services. Therefore, Carefree reserves the right to make changes in design and components, without notice, whenever it is believed the quality of the product will be improved, but without incurring any obligation to incorporate such improvements in any product which has been shipped or in service.

FOR YOUR RECORDS:

DEALER/INSTALLER NAME: _____

ADDRESS: _____

PHONE: _____

PURCHASE DATE: _____

PART NUMBER: _____

SERIAL NUMBER: _____

PRODUCT NAME OR DESCRIPTION: _____

Color: _____ **Length:** _____

Register your Carefree products on-line @ www.carefreeofcolorado.com

