

WeatherPro Control Upgrade Kit

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Read these instructions carefully. These instructions MUST stay with this product.

IMPORTANT SAFETY INSTRUCTIONS AND DOCUMENT SYMBOLS

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.

A. Recognize Safety Information



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

B. Understand Signal Words

A signal word will identify safety messages and property damage messages, and will indicate the degree or level of hazard seriousness.

⚠ WARNING indicates a hazardous situation that, if NOT avoided, could result in death or serious injury.

⚠ CAUTION indicates a hazardous situation that, if NOT avoided, could result in minor or moderate injury.

NOTICE is used to address practices **NOT** related to physical injury.



Indicates additional information that is not related to physical injury.

C. Supplemental Directives



Read and follow all safety information and instructions to avoid possible injury or death.

Read and understand these instructions before installation of this product.

Incorrect installation of this product can lead to serious injury.

The installation **MUST** comply with all applicable local or national codes, including the latest edition of the following standards:

U.S.A.

- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA 1192, Recreational Vehicles Code

CANADA

- CSA C22.1, Parts I & II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

D. General Safety Messages

⚠ WARNING Failure to obey the following warnings could result in death or serious injury:

- This product **MUST** be installed by a qualified service technician.
- Do not modify this product in any way. Modification can be extremely hazardous.
- **IMPACT OR CRUSH HAZARD.** This product should be installed in a controlled environment (inside). Do NOT install product during windy conditions, or when wind is expected. Otherwise, products could move unpredictably, become unstable, and could detach.
- **IMPACT OR CRUSH HAZARD.** Control arm assemblies while installing brackets, removing stop screws, or installing back channels. When weight of FRTA is NOT supported, downward force could cause awning to detach.

NOTICE This product is for use with 12 VDC only.

- Disconnect the positive (+) 12VDC terminal from the supply battery Otherwise, damage to the unit could occur.
- **ALWAYS** use sealant on (clean) parts and surfaces where fasteners enter RV walls, roof or floor. Otherwise, water leakage could occur.

GENERAL INFORMATION

INCLUDED MATERIALS

(1) Wind Sensor Assembly	(1) WeatherPro Awning Control Power Module
(1) Remote Switch Wiring Harness Kit	(1) Key Fob
(1) Wind Sensor Harness (169")	(2) Recessed Top Bracket
(8) #10-32 Screw	(1) 1/4"-20 x 1-1/4" Screw
(1) 1/4"-20 Nyloc Nut	(1) Nylon Spacer
(1) Instructions	(4) #6-20 x 1" Screw

REQUIRED TOOLS

Wire Cutters	7/32" Socket Wrench
Wire Strippers	Phillips Screwdriver
Wire Connectors	Waterproof Clear Silicone Sealer

INSTALLATION

A. Removing The Existing Control Power Module And Wind Sensor

i Refer to the wiring diagrams below to identify the WeatherPro Power Control Module that is being replaced, as well as where to disconnect the incoming wires.

FIG. 1

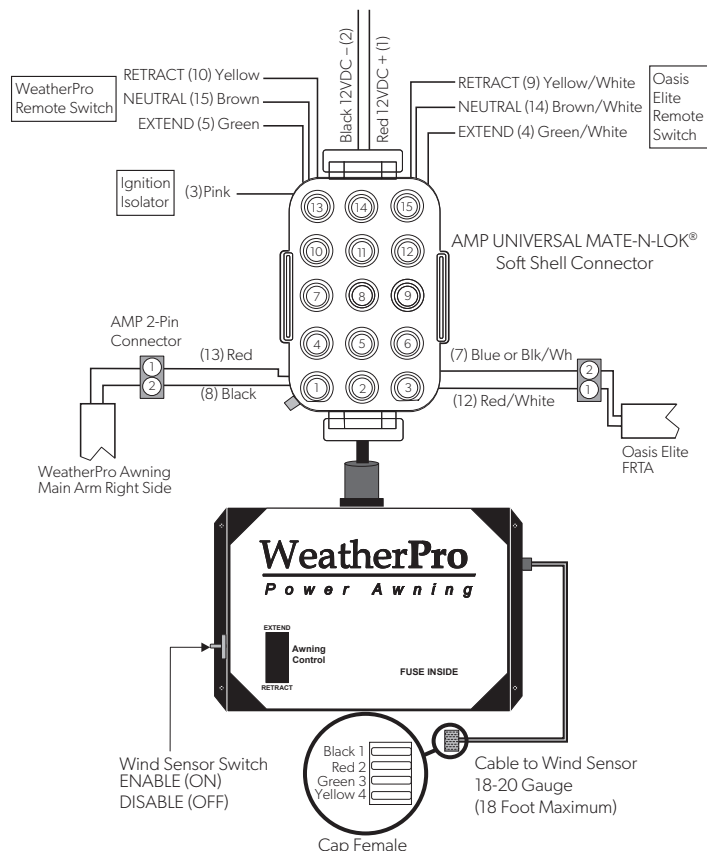
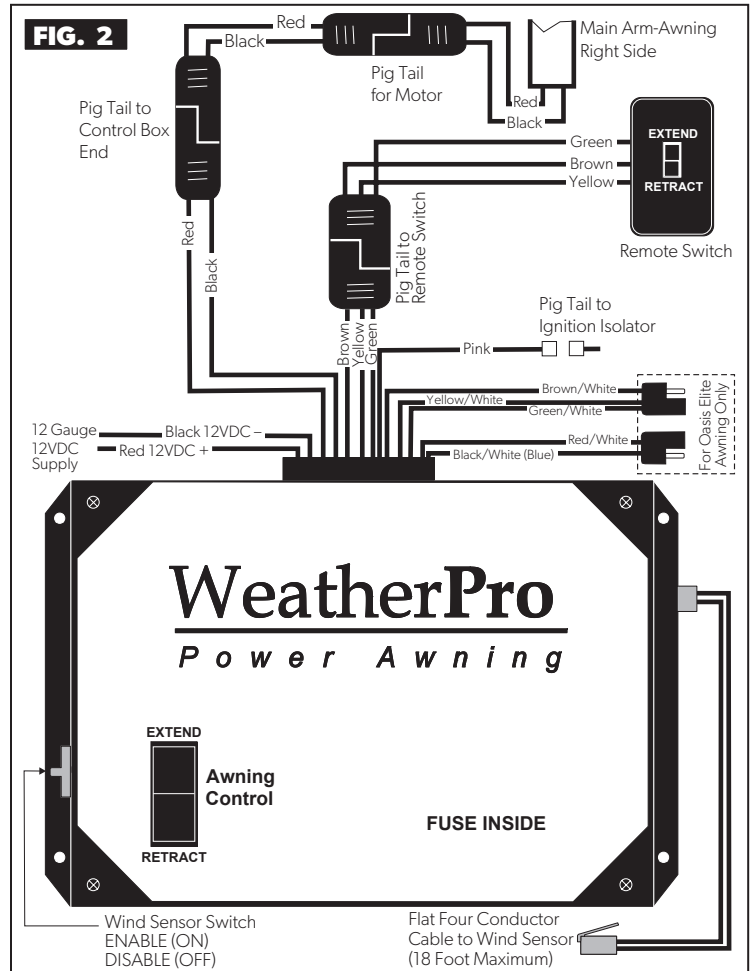
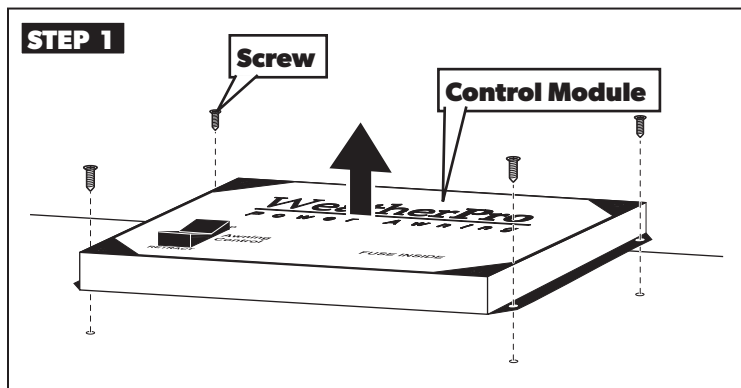


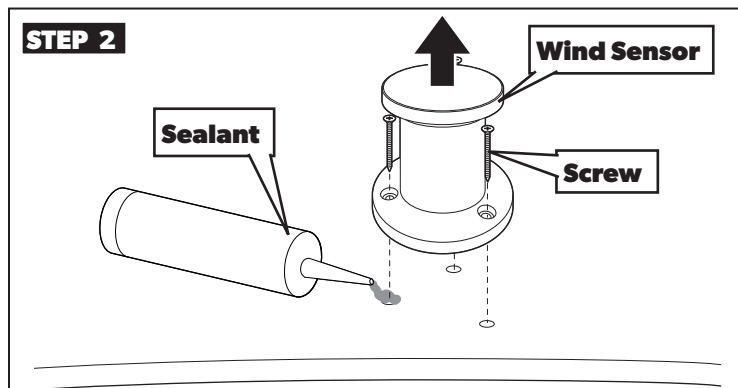
FIG. 2



INSTALLATION



- Disconnect the 12VDC power from the control module.
- Make note of the incoming wires per the wiring diagram.
- Disconnect the incoming wires.
- Unscrew the four retaining screws securing the control module, then lift up the module to remove.

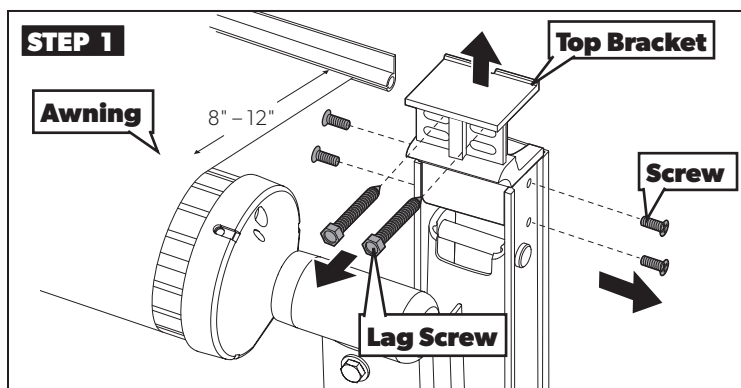


- Remove the screws securing the existing wind sensor, then fill the screw holes using sealant.

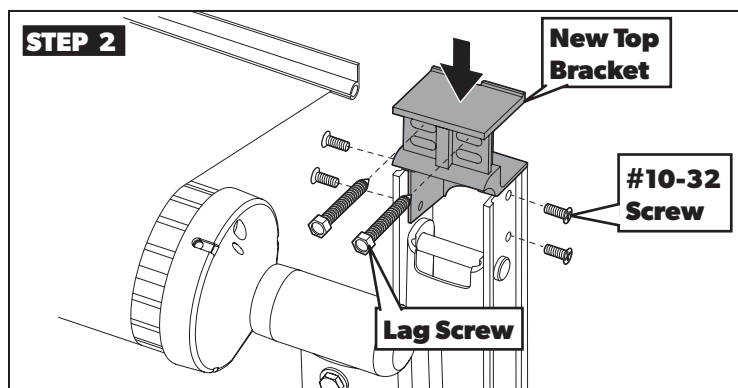
i You may leave the existing wind sensor installed to reduce the possibility of leaks.

B. Installing The New Recessed Top Bracket (If Applicable)

i If the new bracket matches the bracket that is already installed, or if side-mounting brackets have been used, skip to section "C. Installing The New Wind Sensor."



- Open the awning approximately 8" – 12".
- Remove the screws attaching the existing top bracket to the right-hand side back channel of the awning.
- Remove all lag screws attaching the existing top bracket to the wall. Keep the lag screws for reinstallation.
- Remove the existing top bracket.



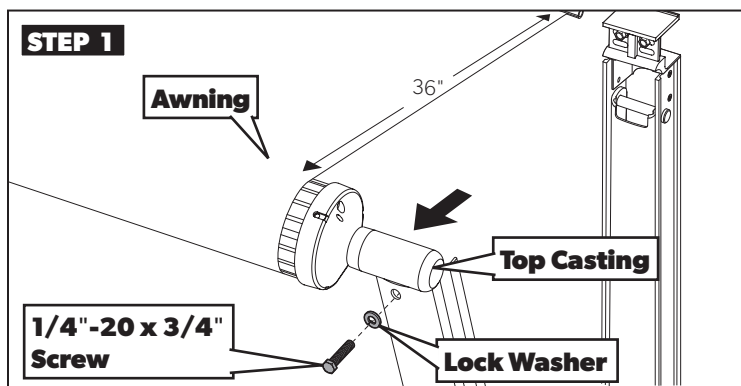
- Install the new top bracket using the #10-32 screws.
- Seal any holes remaining from the old top bracket to reduce the possibility of leaks, then reinstall the lag screws removed in Step 1.

i (Optional) You may repeat this process to replace the top bracket on the opposite side of the awning, but it is not required. This would be done for aesthetic reasons only.

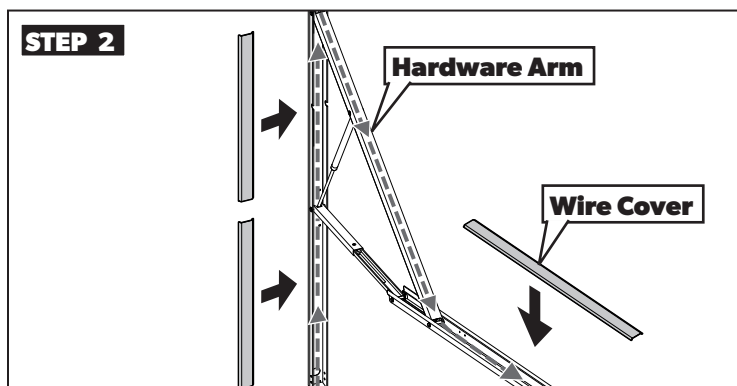
INSTALLATION

C. Installing The New Wind Sensor

⚠ WARNING Do not attempt to separate the FRTA from the hardware arm unless the torsion assemblies are repinned. The FRTA is prewound and under tension. Rapid spin-off will occur if separated. Failure to follow these instructions could cause serious personal injury or property damage.

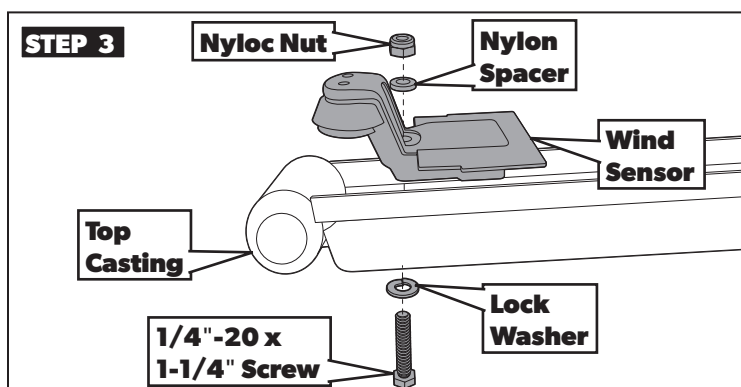


- Open the awning approximately 36".
- Remove the 1/4"-20 x 3/4" screw securing the top casting.
- Keep the lock washer for reinstallation.



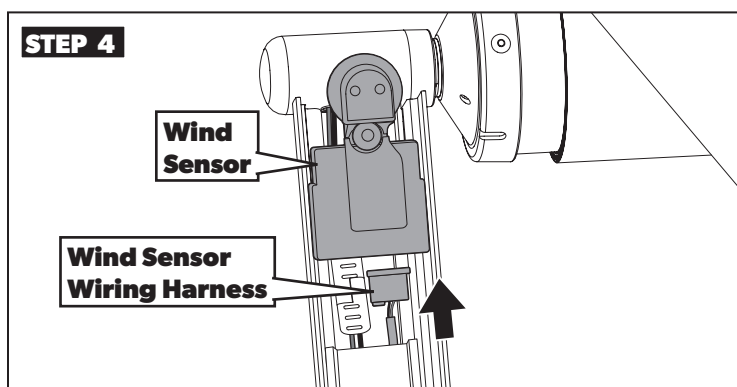
- Remove the wire covers.
- Route the wind sensor wiring harness through the hardware arm, following the same path as the motor wire.
- Reattach the wire covers.

i When routing wiring, take precautions against wires rubbing on sharp edges.



- Thread the provided 1/4"-20 x 1-1/4" screw into the top casting using the lock washer from step 1.
- Slide the wind sensor onto the protruding screw and secure it with the nylon spacer and Nyloc nut.

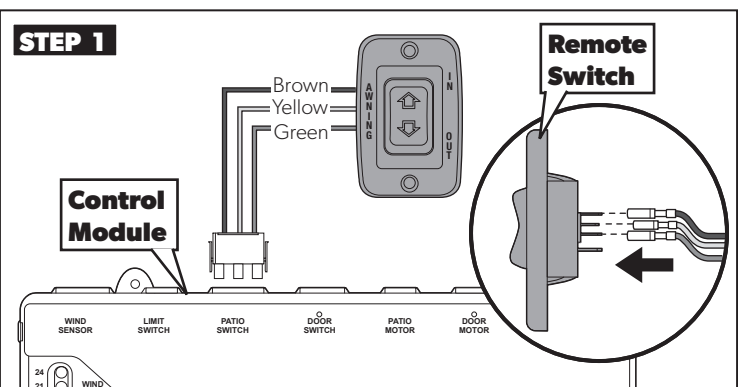
i Do not overtighten the Nyloc nut.



- Attach the wind sensor wiring harness to the wind sensor.

INSTALLATION

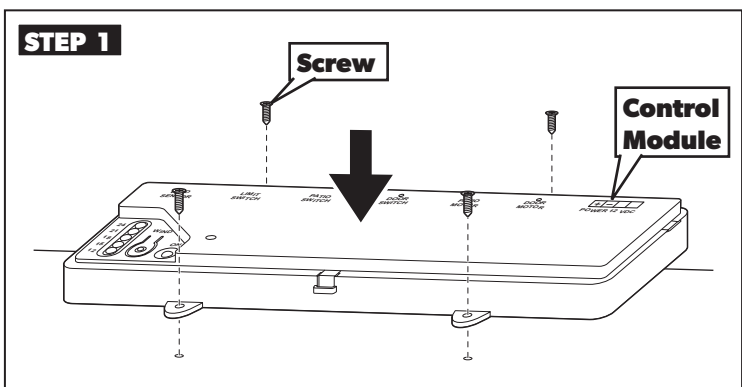
D. Installing The New Remote Switch (If Applicable)



- Install the remote switch in an appropriate location inside the RV.
- Connect the remote switch wiring harness to the remote switch as shown.

 When routing wiring, take precautions against wires rubbing on sharp edges.

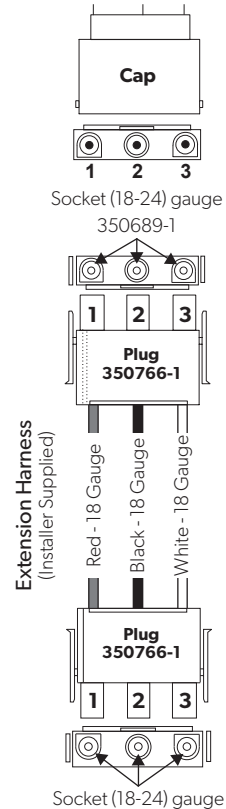
E. Installing The New Power Control Module



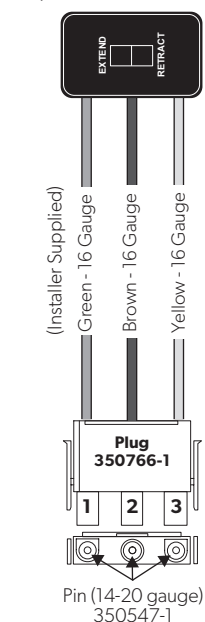
F. Connecting The Components To The Power Control Module

FIG. 1

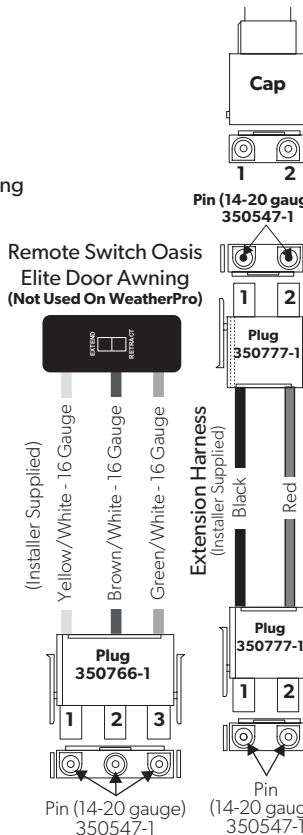
Wind Sensor Wire Harness At
Bottom Of WeatherPro Patio
Awning RH Hardware Arm



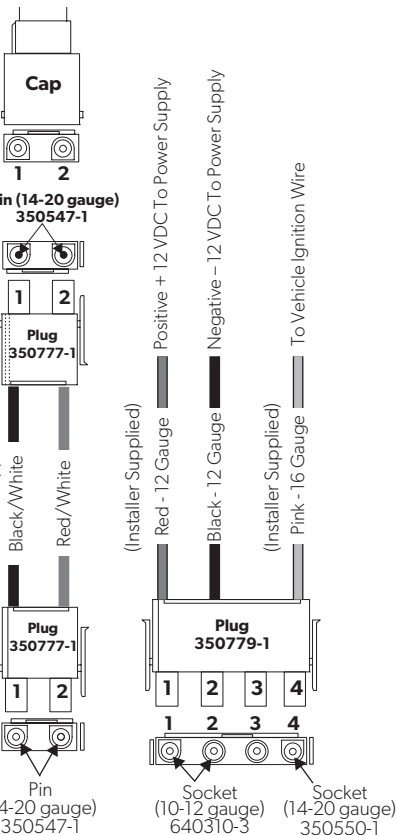
Remote Switch
WeatherPro Patio Awning
(Not Used On Oasis Elite)



Motor Wire Harness
At Bottom Of WeatherPro
Awning RH Hardware Arm
(See Wire Chart For Size)



Motor Wire To Oasis
Elite Door Awning
(See Wire Chart For Size)
(Not Used On WeatherPro)



INSTALLATION

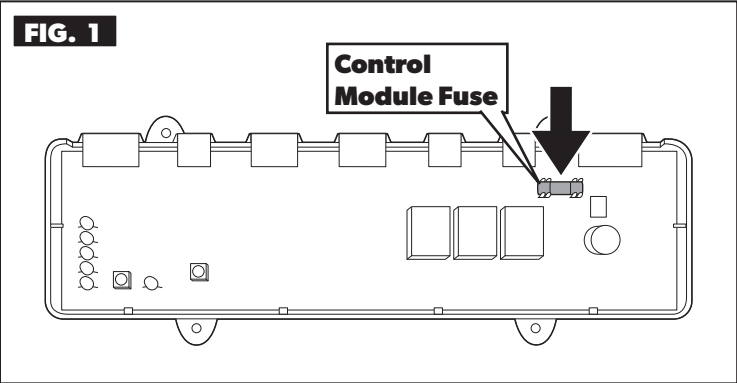
⚠ WARNING IMPACT OR CRUSH HAZARD. Make sure ignition interlock is working correctly before traveling with RV. If awning responds to switch with ignition in ON position, accidental operation during transit could occur. The awning **MUST** be disabled, then serviced by a qualified service technician. Failure to obey this warning could result in death or serious injury.

- Connect the new wind sensor wiring harness as shown. Do not reconnect the old wind sensor wires to the control module.
- i** Connect the 12VDC power only after all other connections have been made.
- Refer to the table below for wire sizes, based on distance from the power supply to the control module:

WIRE LENGTH	10' & Under	11' to 30'	Over 30'
WIRE SIZE	14 Gauge	12 Gauge	10 Gauge

TROUBLESHOOTING

A. Replacing The Fuse



- Fuse: 0.5A, 250V, Fast Acting Fuse, 5mm x 20mm Glass Tube (reference Cooper-Bussmann GMA500mA or equivalent).
- You may order replacement fuses from Dometic under the following part numbers:
 - 3312252.004 (single fuse)
 - 3312253.003 (20-pack)

TROUBLESHOOTING

Use this table to help you identify and resolve basic issues with your WeatherPro.

WIND SPEED LEDS	"ON" LED	MEANING	REACTION BY CONTROL	REACTION BY USER
Selected wind speed ON	ON	Proper voltage is detected at control module and wind sensor is enabled.	Normal operation of control.	No user reaction required.
All LEDs OFF	ON	Wind sensor has been disabled with the key fob.	- Control will retract the awning after five seconds, if the awning is extended when wind sensing is disabled. - Control disables the "normal" extension routines for awning.	- User can extend awning by pressing and holding the extend button. Awning will extend for approximately four seconds and stop. User can repeat as necessary to obtain full extension. - User should re-enable the wind sensor whenever possible.
Selected wind speed BLINKING	ON	Wind sensor has been activated by wind.	- Control retracts awning if awning is extended. - Control monitors for sensor activation during retraction and at awning closure to determine if activation continues after awning closure. - Control will reset after awning closure, if sensor activation is no longer detected.	- User should observe wind conditions before attempting to extend the awning after any automatic closure. - User can extend awning as normal (after control resets). - User should use caution if they choose to disable the wind sensor with wind present. Disabling the sensor is not recommended in windy conditions.
LEDs sequence ON, then OFF from top down	ON	Wet sensor.	- Control retracts awning if awning is extended. - Control monitors for sensor activation during retraction and after awning closure to confirm wet sensor condition exists. - Control disables the wind sensor. - Control disables the "normal" extension routines for awning. - Control will automatically re-enable wind sensor when it determines the sensor is no longer activated (no longer wet). - If sensor activation condition is observed for longer than 12 hours, and awning is extended, then control will retract awning.	- User should observe wind conditions before attempting to extend the awning after any automatic closure. - User can extend awning by pressing and holding the extend button. Awning will extend for approximately four seconds and stop. User can repeat as necessary to obtain full extension. - User should re-enable the wind sensor whenever possible.
Selected wind speed alternates BLINKING with ON LED	Alternates BLINKING with selected wind speed LED	Sensor fault/communication issue between the wind sensor and the control module.	- Control retracts awning after five seconds if awning is extended when communication issue is detected. - Control disables extension of the awning by the user while the wind sensor is enabled. - Control will reset if communication is re-established.	- User should observe wind conditions before attempting to extend the awning after any automatic closure. - User can disable wind sensor with key fob to extend awning.
Bottom two LEDs BLINKING	ON	Wind sensor is detecting a temperature below 32° F.	- Control retracts awning if awning is extended when low temperature is detected. - Control disallows any extension of the awning until temperature goes above 32° F.	- User should observe temperature before attempting to extend awning again. - User can disable wind sensor with key fob to extend awning.
OFF	BLINKING	Power detected by control is less than 10.5 VDC (tolerance is +0.5 VDC and -0.0 VDC).	- Control retracts awning if awning is extended when low-voltage situation is detected. - Control disallows any extension of the awning until proper voltage is detected.	- User will not be able to extend awning. - Check voltage at house battery gauge or other gauge as necessary to confirm low-voltage condition. - If voltage is low, then start coach engine to charge batteries. - User should contact service center if low-battery condition reoccurs.
OFF	OFF	No power.	- No reaction by control. - Awning(s) cannot be operated.	- Suggest user to contact service center. - Check voltage source at control module. Correct if necessary. - Check internal fuse at control module. Replace if necessary.