



CAREFREE  
TRAVEL'R *DIRECT RESPONSE*  
AUTO-RETRACT SYSTEM

The Travel'r Direct Response Auto-Retract System may be installed as part of the original Travel'r awning installation or as an upgrade to an existing awning installation.



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## PROPRIETARY STATEMENT

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The information contained in this manual pertains to the current configuration of the models listed on the title page. Earlier model configurations may differ from the information given. Carefree of Colorado reserves the right to cancel, change, alter or add any parts and assemblies, described in this manual, without prior notice.

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## SAFETY INFORMATION

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### WARNING

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

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### 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.**

*Tip: A tip provides helpful suggestions.*

### Safety Notes:

- Always disconnect battery or 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.
- When using fasteners, use care to not over tighten. Soft materials such as fiberglass and aluminum can be "stripped out" and lose the ability to grip and hold.

Reference Publications located @ [www.carefreeofcolorado.com](http://www.carefreeofcolorado.com):

052567-001 12V Travel'r Direct Response Installation Kit

052540-002 Fixed Pitch Travel'r Installation Manual

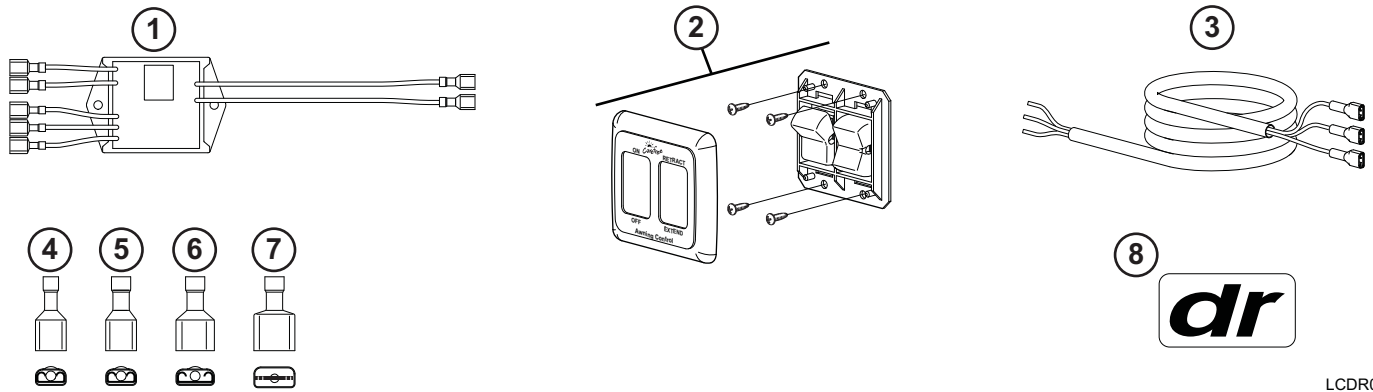
052540-201 Fixed Pitch Travel'r Owner's Manual

052540-021 Adjustable Travel'r Installation Manual

052540-221 Adjustable Travel'r Owner's Manual

# INSTALLATION

## COMPONENT CHECKLIST



LCDR002

<input checked="" type="checkbox"/>	ITEM	DESCRIPTION		QTY	NOTE
<input type="checkbox"/>	1	Sensor Module		1	
<input type="checkbox"/>	2	Switch Kit		1	
<input type="checkbox"/>	3	Cable	205"	1	
<input type="checkbox"/>	4	Terminal, Female, .187	18-22 awg	3	
<input type="checkbox"/>	5	Terminal, Female, .187	14-16 awg	2	
<input type="checkbox"/>	6	Terminal, Female, .25	14-16 awg	1	
<input type="checkbox"/>	7	Terminal, Male, .25	14-16 awg	1	
<input type="checkbox"/>	8	Label, Direct Response		1	

### PRIOR TO INSTALLING THE KIT

*For New Installations* – These instructions assume that the awning and arms have been mounted and that the motor cable from the arm has been routed through the exterior wall as described in the awning installation instructions. These instructions replace the switch and wiring directions included with the awning.

*For Existing Installations* – The installer must locate and remove any existing switches. Access to the motor cable and the 12VDC/Ground wires is required.

1. Determine the location of the switches:
  - 1.1 Do not mount the switches near heat producing elements such as LP appliances or engine exhaust components.
  - 1.2 The dimensions for the switch plate are shown in Figure 2 on page 6.

### CAUTION

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

When the *Direct Response* installation is complete return to the original awning instructions for any final assembly required.

### INSTALLING THE SENSOR

This section is for fitting the motion sensor into the arm of an existing installation. If the sensor has been previously installed, go to "Installing the Switches" on page 5.

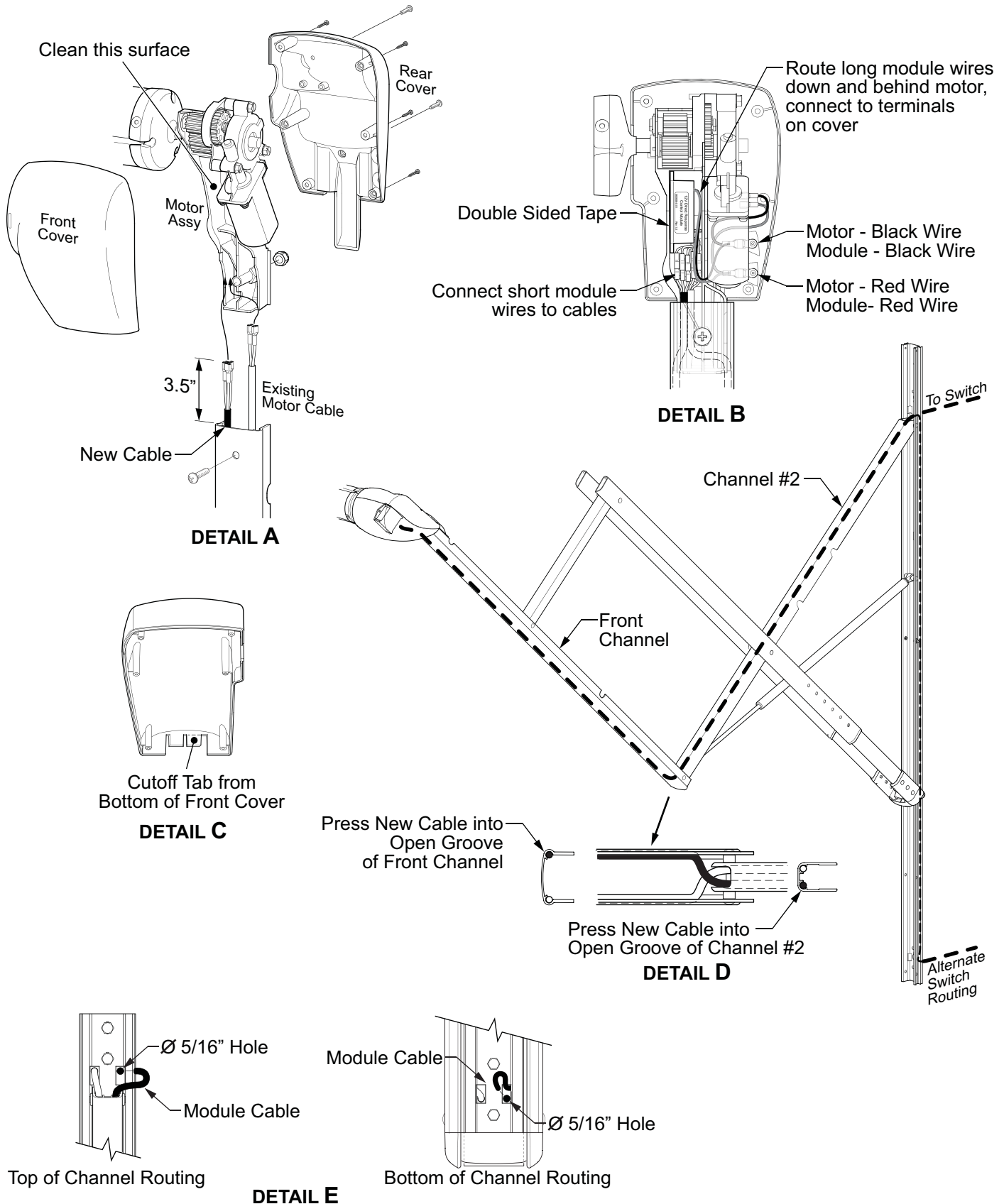


Figure 1. Mounting the Sensor.

LCDR001

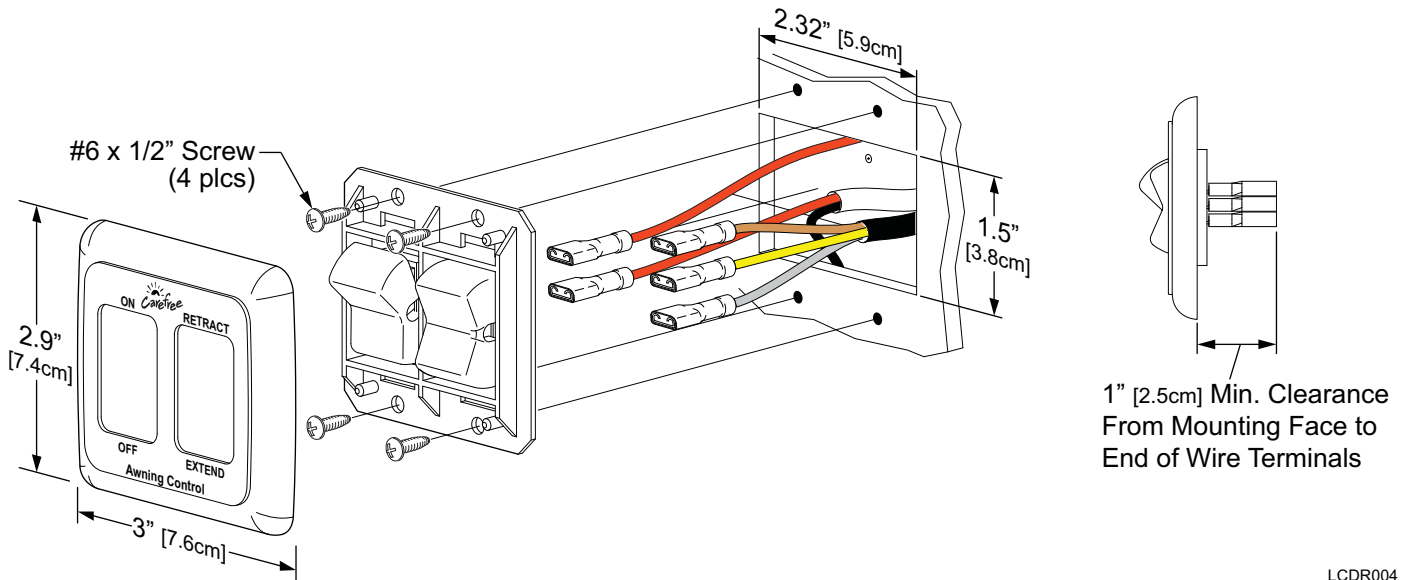
1. Open the awning. The awning must be opened far enough to allow access to the back of the front channel and channel #2.
2. *(Detail A)* Remove the front cover. There are six (6) small screws through the back cover. Set cover and screws aside.
3. Remove the rear cover. Detach the wires at the double terminals on the cover. It is not necessary to detach the short wires from the motor.
4. Detach and support the roller tube.

 **CAUTION**

**DO NOT ALLOW THE ROLLER TUBE TO DROP TOWARD THE GROUND. THE TWISTING MOTION CAN CAUSE SERIOUS DAMAGE TO THE IDLER ARM.**

5. Detach and hold the motor assy from the arm.
6. *(Details A & B)* Route the existing motor cable to the left side of the motor frame and hold in place.
7. From inside the front channel, route the new module cable into the motor frame. The cable must extend above the front channel 3.5".
8. Reattach the motor assembly to the front channel.
9. Reattach the roller tube.
10. *(Detail B)* Clean the inner face of the motor frame. Then remove the release paper from the double-sided tape on the module. Position the module with the label out and the short wires pointing down then firmly press the module against the inside face of the motor frame. Ensure that the sensor does not touch the gears and that it is far enough inside to allow the front cover to be installed.
11. Connect the 5 short wires of the module to the wires from the cables. Match the colors of the wires. A wiring diagram is on page 6.
12. *(Detail B)* Route the long Red and Black wires from the module down and behind the motor.
13. On the rear cover, attach the wires to the double terminals.
14. Attach the wires from the motor to the double terminals on the cover. Make sure that the colors match. (Red to Red, Black to Black).
15. Attach the rear cover to motor assy.
16. *(Detail C)* Cut or break off the tab on the bottom of the front cover.
17. Attach the front cover.
18. *(Detail D)* Route the new cable down the front channel pressing the cable into the open groove.
19. At the pivot joint, slip the cable into channel #2 under the shock mount.  
**NOTE: The cable crosses from one side of the front channel to the opposite side of channel #2. This allows the cable to flex when the arm is opening or closing.**
20. Route the cable up channel #2 pressing the cable into the open groove.
21. Slip the cable through the open hole in the knuckle at the top of channel #2.
22. *(Detail E)* In the area shown, drill a 5/16" hole into the vehicle. Route the cable to the switch location.
23. For bottom routings:
  - 23.1. Remove the fascia.
  - 23.2. Loosen the attaching screws for the arm. If moly rivets have been used, it will be necessary to drill off the head of the rivet use care to not enlarge the hole.
  - 23.3. Slip the cable through the access hole at the top of the mounting channel and pull down. Lightly pull the cable out of the bottom access hole and align cable with the rear channel groove.
  - 23.4. Tighten the attaching screws for the arm. Replace any moly rivets that were removed.
  - 23.5. Reinstall the fascia.
24. Seal the hole and cable with a quality silicone sealant.

SWITCH INSTALLATION



LCDR004

Figure 2. Mounting the Switches.

1. At the switch location cut a 2 5/16" [5.9cm] x 1 1/2" [3.8cm] hole.
2. Route the cables from the arm through the hole.
3. Terminate the 3 wires from the module cable with .187, 18-20 awg female terminals. Attach to the EXTEND/RETRACT switch as shown in the wiring diagram.
4. Terminate the RED wire from the motor cable with a .187, 14-16 awg female terminal. Attach to one terminal of the ON/OFF switch.
5. Terminate the BLACK wire from the motor cable with a .25, 14-16 awg male terminal.
6. Run a minimum 16 awg wire to chassis ground. Suitable ground would be the vehicle chassis or conductive structure connected to the chassis. Terminate the wire with .25, 14-16 awg female terminal.
7. Connect the ground wire to the black wire from the motor cable.
8. Run a minimum 16 awg wire from the power distribution panel (auxiliary battery circuit) or equivalent. Terminate the wire with a .187, 14-16 awg female terminal. Attach to one terminal of the ON/OFF switch.
9. Push the wires and switches into the hole then attach the switch frame using 4 #6 x 1/2" screws.
10. Snap the switch bezel over the switch frame.

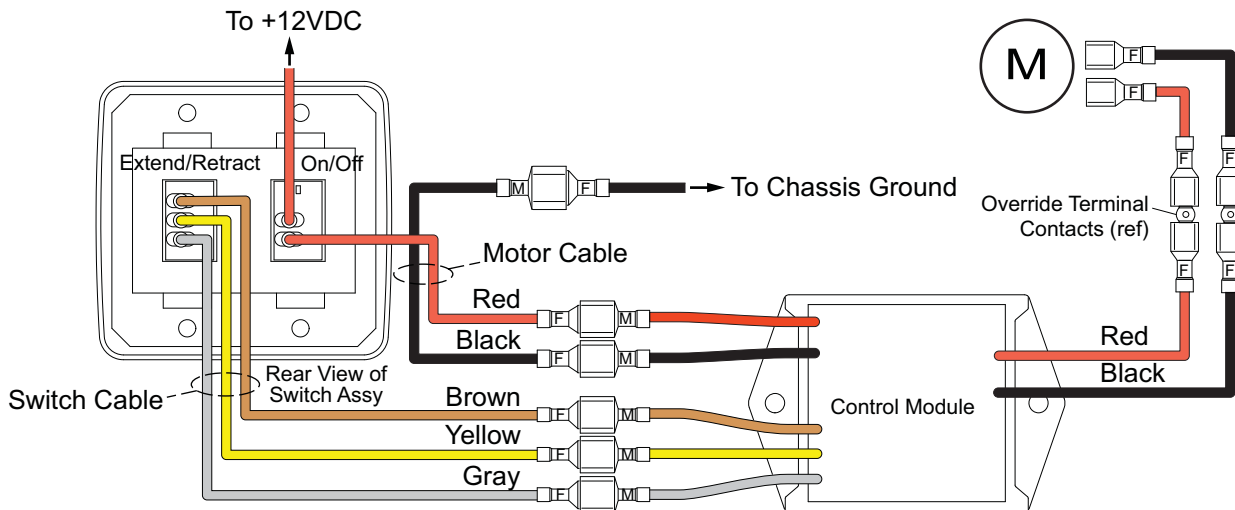


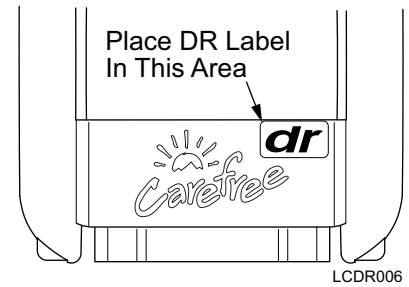
Figure 3. Wiring Diagram.

LCDR003

## ATTACH THE LABEL

After completing and testing the system, attach the Direct Response identification label to the bottom of the motor arm.

1. Thoroughly clean and dry the area at the bottom of the RH (motor) arm.
2. Remove the release paper and attach the "DR" label in the area shown between the Carefree logo and the top of the plate.



**Figure 4. Direct Response Label.**