ELECTRONIC SYSTEMS AND COMPONENTS

110 VOLT DIRECT RESPONSE AUTO-RETRACT SYSTEMS

AVAILABLE FOR THE CAREFREE MIRAGE, APEX & PARAMOUNT PATIO AWNINGS

Single

1 — **DSK**

2 — **DSK OBSOLETE For Replacements Use Item 1**

4 5 6

3 — **110VDR**

7 8

Mirage & Apex **Paramount**

2-Awning

9 — **OBSOLETE For Replacements Use Item 10**

10

11 12

Apex **Paramount**

4-Awning

14 16

17 18

Apex **Paramount**

19 20 21 22 24 25

23 26 27

DR502a
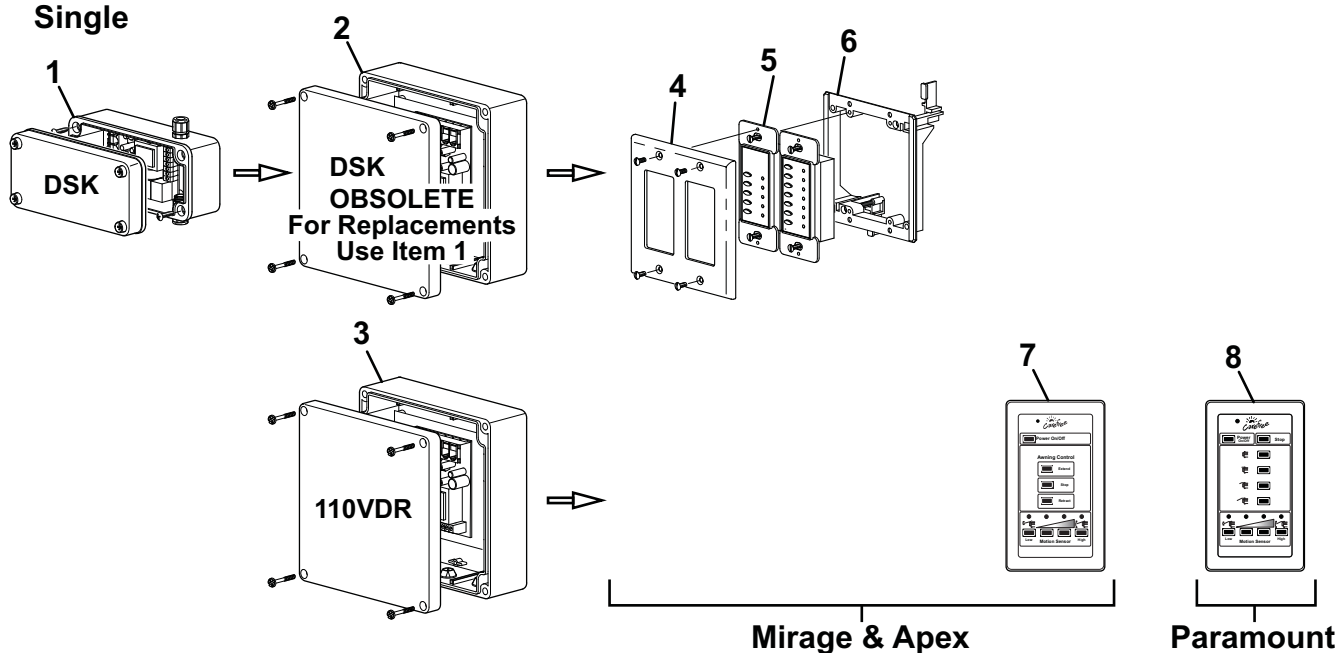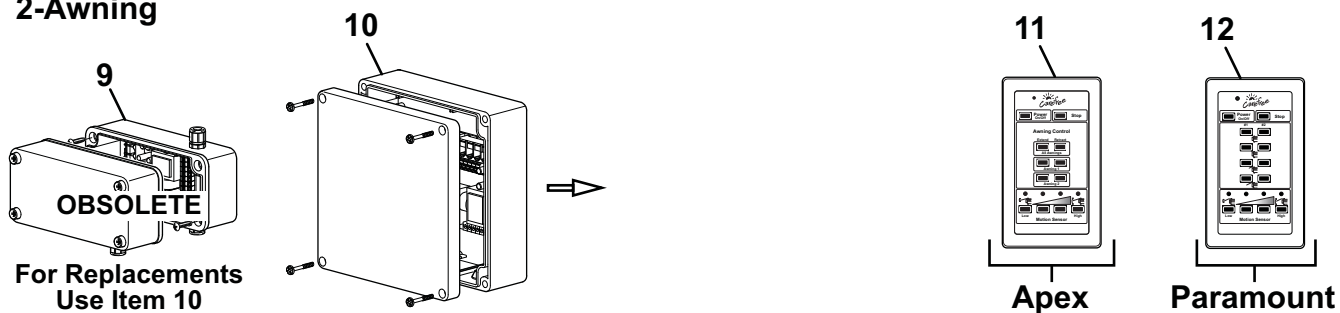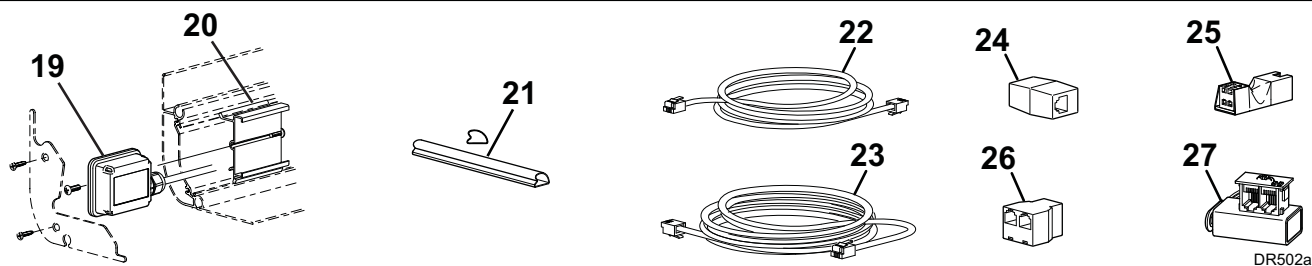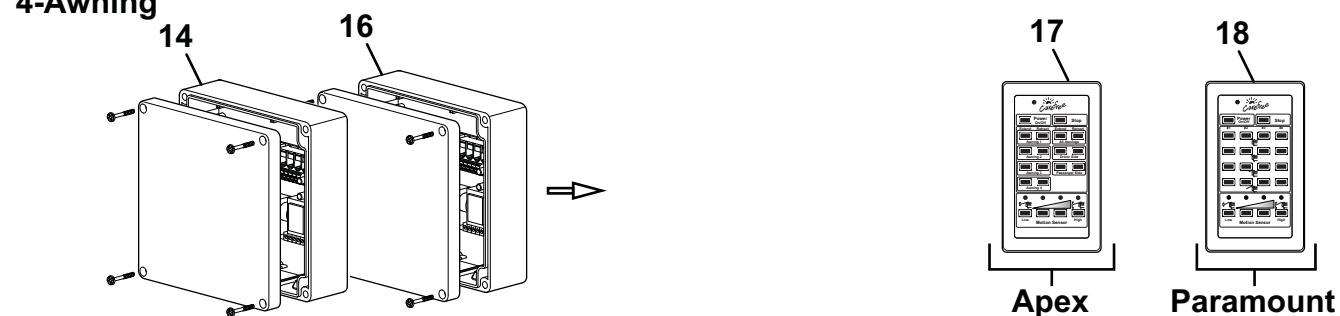
Item	Part Number	Description			Notes
1	R060525-001	Control Box	DSK	Single Awning	2
2	NLA	Control Box	DSK	FSO R060525-001	2
3	R060633-001	Control Box	110VDR	Single Awning	3
4	R060535-001	Switch Plate		Single Awning	
5	R019474-001	Switch Assy		Single Awning	2
6	R072141-001	Mounting Box, Switch		Single Awning	
7	R060616-102	Key Pad, Mirage, Apex		Single Awning	3
8	R060618-001	Key Pad, Paramount		Single Awning	3
9	Obsolete - Note 7	Control Box, Motor 1 & 2	Original	2-Awning	7
10	R060633-002	Control Box, Motor 1 & 2	110VDR	2-Awning	
11	R060616-202	Key Pad, Apex		2-Awning	4
12	R060618-002	Key Pad, Paramount		2-Awning	
13	NLA	Control Box, Motor 1 & 2	Original	4-Awning	5
14	R060633-002	Control Box, Motor 1 & 2	110VDR	4-Awning	5
15	NLA	Control Box, Motor 3 & 4	Original	4-Awning	5
16	R060633-004	Control Box, Motor 3 & 4	110VDR	4-Awning	5
17	R060616-402	Key Pad, Apex		4-Awning	4
18	R060618-004	Key Pad, Paramount		4-Awning	
19	R060538-002	Motion Sensor w/ cable			6
20	R001356	Bracket Kit, Vertical Sensor Mount, Mirage			6
	R001355	Bracket Kit, Vertical Sensor Mount, Apex, Paramount			6
21	R040616-206	Cable Channel, Black		43 inches	
22	R060434-001	Phone Cable, 60"			
23	R060434-008	Phone Cable, 240"			
24	R060596-001	Coupler, Cable			
25	R060532-001	Ignition Lockout Sensor, STD		Extend Lockout	8,10
25a	R060532-002	Ignition Lockout Sensor, RTL		Retract then Lock	9,10
26	R060589-001	Splitter			
27	SR0095	Sensor Test Tool			

Notes:
1. Control Boards, switches and remotes are NOT interchangeable between systems.

2. Items 4 thru 6 are used for Apex single awning installations thru 2006; and for Mirage single awing installations thru 2007. DSK style switch assy (item 5) must be used with "DSK" control boxes (items 1).

3. Keypads (items 7, 8) must be used with control box (item 3).

4. Original Apex multiple awning installations used a touch pad control panel. Touch pads have been superseded with a key pad control panel. For replacements order item 11 for dual awnings; item 17 for 4-awning installations. Replacement instructions are found in the Apex service manual.

5. Boxes cannot be interchanged between systems ; item 14 110VDR control box must be used with item 16 110VDR control box. If replacing original control boxes (items 13, 15) it will be necessary to replace both boxes with items 14, 16)

6. Replacement motion sensors must be mounted vertically. If replacing a horizontal mount sensor, it will be necessary to order and install R001356 bracket kit (Mirage) or R001355 bracket kit (Apex). Refer to the product service manual for sensor and bracket installation.

7. Item 9 (control box, motor 1 & 2) is obsolete. Replace with item 10.

8. The STD ignition lockout for 110V applications is available as an upgrade kit (SR0086). Kit includes sensor (item 25), splitter (item 26), 60" cable (item 22) and 6" cable (not listed).

9. The RTL ignition lockout for 110V applications is available as an upgrade kit (SR0087). Kit includes sensor (item 25a), splitter (item 26), 60" cable (item 22) and 6" cable (not listed). The RTL ignition lockout sensor is only available for 110V Direct Response Systems.

10. Ignition lockout sensors are available only with Direct Response Systems.

REMOTES & RECEIVERS
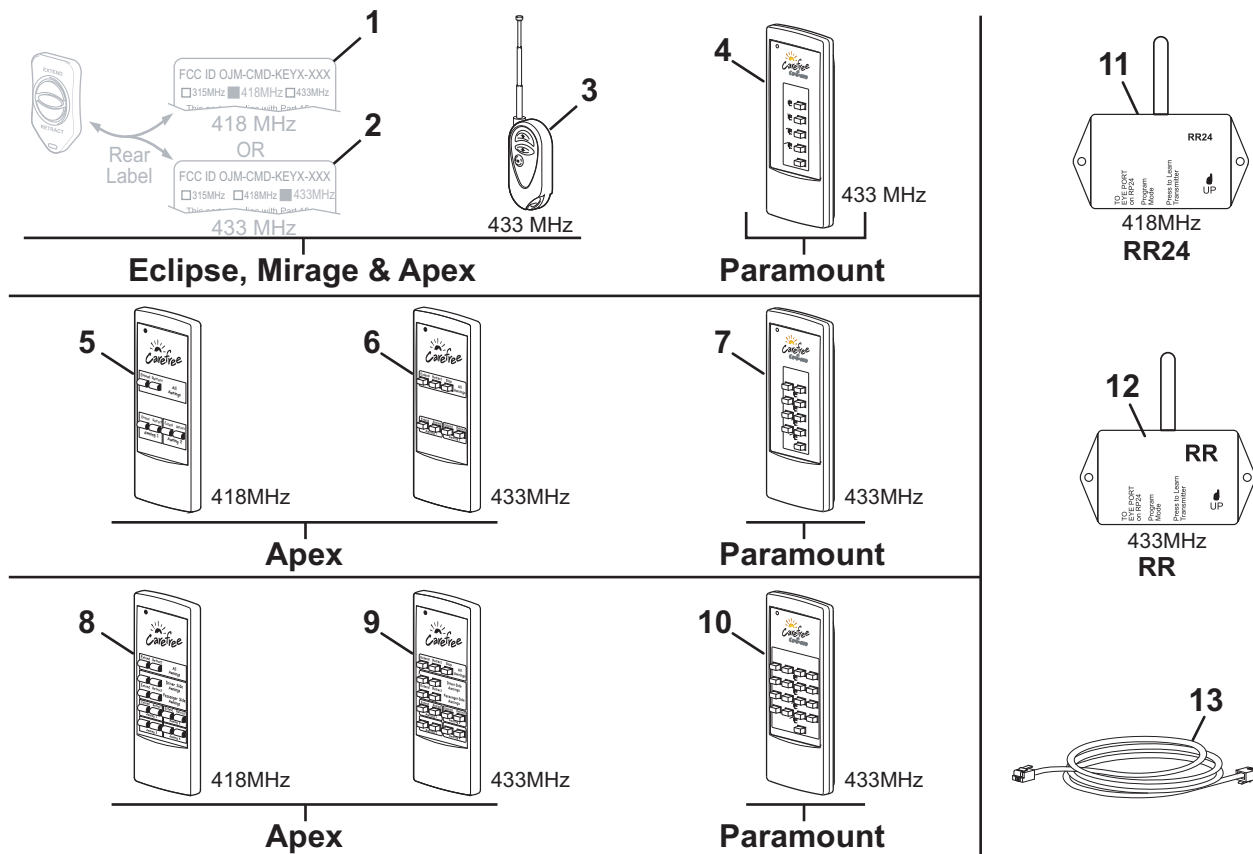
Item	Part Number	Description		Notes
1	*Obsolete*	Key FOB, Remote, 418 MHz	Single Awning	1
2	*Obsolete*	Key FOB, Remote, 433 MHz, Version 1	Single Awning	2,3
3	R060622-002	Key FOB, Remote, 433 MHz, Version 5	Single Awning	2,6
4	R060624-001	Remote, 433 MHz, Paramount	Single Awning	2
5	R001357	Remote, 418 MHz	2-Awning	1
6	R001368	Remote w/ Stop, 433 MHz	2-Awning	2
7	R060624-002	Remote, 433 MHz, Paramount	2-Awning	2
8	R001358	Remote, 418 MHz	4-Awning	1
9	R001369	Remote w/ Stop, 433 MHz	4-Awning	2
10	R060624-004	Remote, 433 MHz, Paramount	4-Awning	2
11	R001036	RF Remote Receiver, 418 MHz		1
12	R060429-003	RF Remote Receiver, 433 MHz, Version 5		2,3,7
13	R060434-001	Phone Cable, 60"		

Notes:
1. 418MHz remotes (items 1, 5, 8) and remote receiver (item 11) are used thru 2006. Remote transmitter and receiver must match in frequency (418 MHz). The 418MHz receiver is marked with "RR24".

2. 433MHz remotes (items 2, 3, 4, 6, 7, 9, 10) and remote receiver (item 12) are used for 2007 and on. Remote transmitter and receiver must match in frequency. 433MHz receivers are marked "RR".

3. For single awning applications, when replacing a 433MHz gray button key FOB (item 2) and/or a receiver marked "RR version 1", it will be necessary to replace both the FOB and the receiver. Use items 3 and 12 version 5. Also refer to note 5, 6 &7 below.

4. Replacement batteries are available through local battery outlets. Below is a replacement guide:
   Gray button key FOBS (items 1, 2): CR2032, 3V Lithium, Flat
   Key FOB w/ Antenna (item 3):   Radio Shack p/n 23-279 or equivalent
   Key pad style remotes (items 4 thru 10): standard AAA (qty: 2)

5. A remote control kit (p/n SR0014) is available and contains items 3, 12, 13 and associated hardware.

6. Key FOBs marked version 4 (item 3) must be used with receivers (item 12) marked version 4.

7. Remote Receiver marked Version 5 (item 12a) is compatible with all remotes marked Version 2 thru 5.

COMPONENT IDENTIFICATION

Refer to page 2 and 3 for part numbers.

CONTROL PANEL IDENTIFICATION - MIRAGE & APEX

|	Single	2-Awning	4-Awning
Series I Multiple Awning Touch Pad Control Panels are Discontinued and Obsolete Use Series III Key Pads for replacements. Single Awning DSK style Key Pads are available for replacements and CANNOT be replaced with a Series III Key Pad	DISCONTINUED	OBSOLETE	OBSOLETE RTA043d
Series II Multiple Awning Key Pad Control Panels with "Full Time Auto-Retract" are discontinued. Use Series III Key Pads for replacements. Single Awning DSK style Key Pads are available for replacements and CANNOT be replaced with a Series III Key Pad	DISCONTINUED	DISCONTINUED	DISCONTINUED RTA043f
Series III Multiple Awning Key Pad Control Panels with Sensitivity Settings and a "Stop All" button. Can be used to replace all previous Key Pad and Touch Pad Panels. Single Awning DSK style Key Pads are available for replacements and CANNOT be replaced with a Series III Single Awning Key Pad			

CONTROL BOX ENCLOSURE IDENTIFICATION

Enclosures for the 110V control units may vary between installations. Wiring to the control boards are the same for all enclosure configurations. Boards are labeled "Motor 1", "Motor 2" etc. Multiple awning control boards are not interchangeable between boxes. Refer to the wiring diagrams in the service manuals.
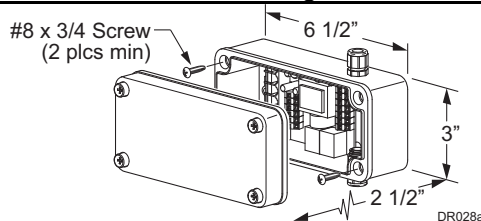
Single Awning DSK Control Box - Discontinued
Single Awning "clam shell" style control box typically used with the DSK style control switches.
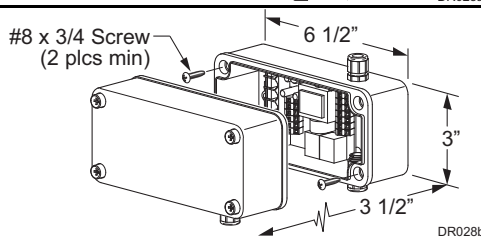
Discontinued for RV products in 2007
2-Awning "clam shell" style control box. Each box contains two control boards. One box is required for 2-awning configurations. Control Box is obsolete; replace with the 2-awning 110VDR UL box.
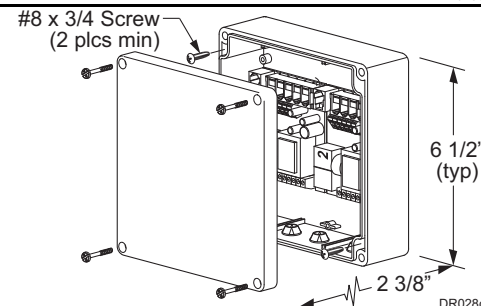
Standard Control Enclosure (UL Approved)
Used for single, 2-awning and 4-awning configurations. Single awning contains one control board; 2-awning configuration contains two boards. Two boxes are required for 4-awning configurations. Boards are labeled "Motor 1", "Motor 2" etc. Multiple awning control boards are not interchangeable between boxes.

ELECTRONIC SYSTEMS

ECLIPSE DIRECT RESPONSE AUTO-RETRACT SYSTEM

DR501
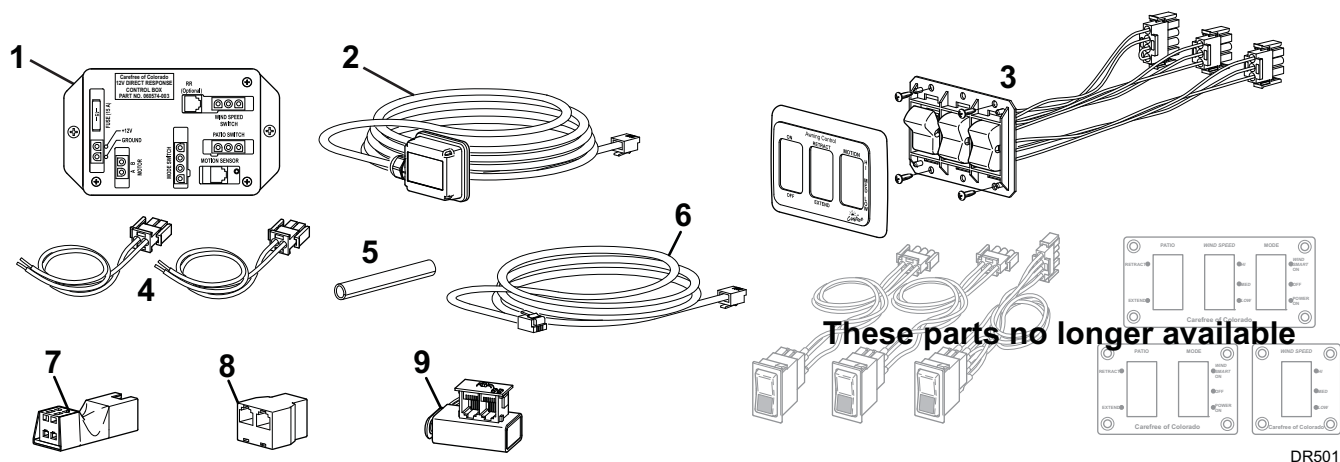
Refer to page 4 for Remotes and Receivers

Item	Part Number	Description		Notes
1	R060574-003	Controller		1, 3
2	R060538-002	Sensor w/ Cable		1
3	R019489-001	Switch Kit		1,7
4	R060345-001	Harness - Power, Motor Connect		1
5	R001588	Cord Retainer	16"	1
6	R060434-001	Phone Cable, 60"		
7	R060532-001	Ignition Lockout Sensor, STD		2, 4
8	R060589-001	Splitter	Used with Ignition Lockout	
9	SR0095	Sensor Test Tool		6

Notes: 1. An Eclipse upgrade kit (SR0036) is available and contains items 1 thru 5 and attaching hardware.

2. The optional Ignition Lockout Sensor can only be used with controller boxes (item 1) that are marked with 060574-003. Sensor does not work with boxes marked with -001 or -002.

3. The controller box (item 1) marked with 060574-003 is backward compatible and can be used for replacement of all previous versions marked with -001 and -002.

4. The STD ignition lockout for 12V applications is available as an upgrade kit (SR0086). Kit includes sensor (item 7), splitter (item 8), 60" cable (item 6) and 6" cable (not shown).

5. Ignition lockout sensors are available only with Eclipse Direct Response System.

6. The sensor test tool (item 9) does not work with the Travel'r Direct Response Module.

7. Switch kit (item 3) replaces all previous switch kits. Instructions are included with kits.

## 12 VOLT DIRECT RESPONSE (LCDR) AUTO-RETRACT SYSTEM

LCDR501
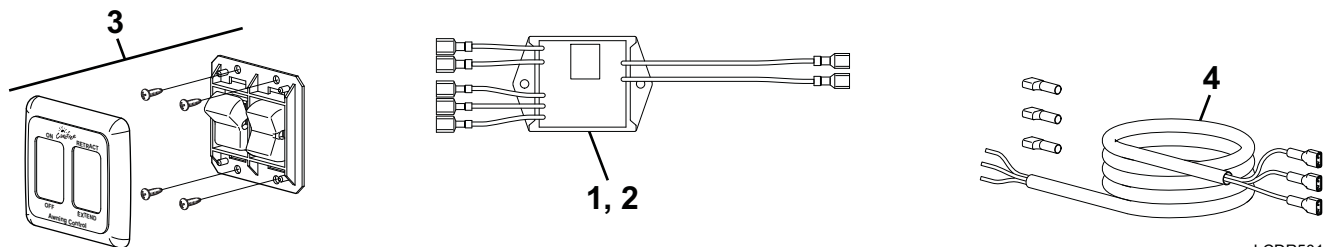
Item	Part Number	Description		Notes
1	R060686-001	Sensor/Control Module	Travel'r Only	1,2
2	R060686-002	Sensor/Control Module	Freestyle Only	2
3	R019468-006	Switch Kit		1
4	R060688-006	Cable	used with Travel'r	1

Notes: 1. A Travel'r upgrade kit (SR0093) is available and contains items 1, 3, 4 and attaching hardware.

2. Modules (items 1, 2) are not interchangeable between systems.

3. The following options are NOT available with this system: Remote Control, Ignition Lockout.
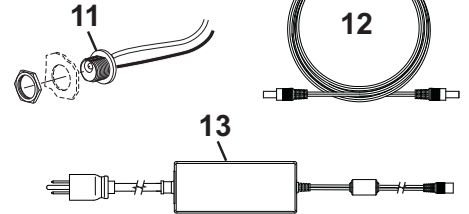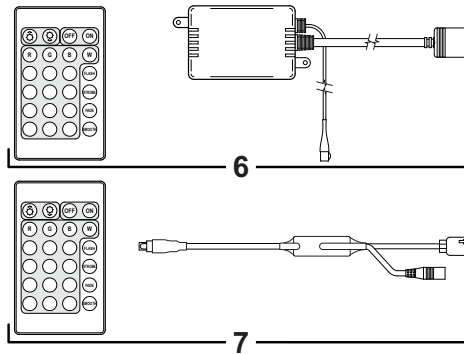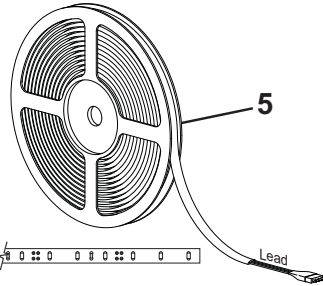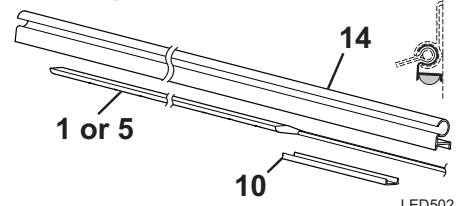
LED COMPONENTS

WHITE LED
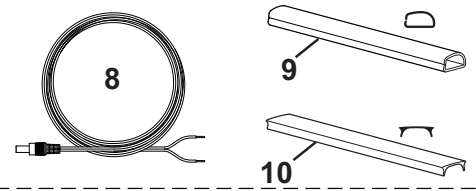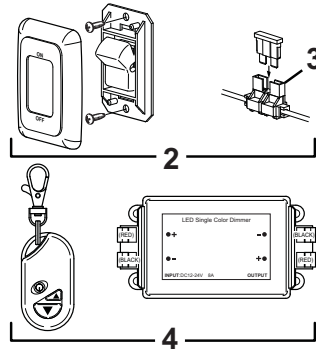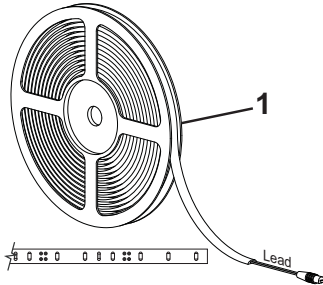
RGB LED

External Power Harness

LED Awning Rail Adaptor

LED502

Item	Part Number	Description		Notes
1a	R060732-001	LED Strip, White, 16' Length	8" Lead	4
1b	R060732-002	LED Strip, White, 16' Length	26" Lead	6
1c	R060732-003	LED Strip, White, 49" Length	8" Lead	2
2	SR0101	Switch and Fuse Kit (includes item 3)	used with White LED	
3	R019493-001	Fuse Kit (includes fuse holder and 2A fuse)		4,5
4	SR0100	Remote and Controller Kit	use with White LED	3,5
5a	R060733-001	LED Strip, RGB, 16' Length	8" Lead	5
5b	R060733-002	LED Strip, RGB, 16' Length	26" Lead	6
6	R001763	Remote and Controller Kit	RGB	3
7	SR109	Remote and Mini Controller Kit	RGB	3,8
8a	R060716-001	Harness, Factory Installed LED Roller Assy	16' Length	
8b	R060716-002	Harness, Factory Installed LED Big Box Awning	22' Length	
9	R040616-206	Wire Channel	43" Length	
10	R001716	Slot Cover	24" Length	
11	R060275	Power Socket, 12V	External Power Supply	4,5
12	R060724-001	Power Cord, 12V	External Power Supply	4,5
13	R060725-001	AC/DC Power Supply 110AC to 12Vdc	External Power Supply	4,5
14	R001764-xxx	LED Awning Rail Adaptor		7

Notes:
1. LED Strips (items 1 & 5) are sent on rolls and cut to length during installation.
2. Item 1c (LED Strip, White, 49" Length) is used for Marquee awnings 66" or shorter.
3. Remotes are not available separately. It is necessary to replace the remote and controller.
4. White LED upgrade kit (SR0107) contains items 1a, 3, 4, 11, 12 & 13.
5. RGB LED upgrade kit (SR0106) contains items 5a, 3, 6, 11, 12 & 13.
6. LED strips with 26" leads are used for awnings 19' and longer to allow the strip to be centered.
7. OEM awning rail adaptor (item 14) requires the canopy to have a 3/16" polyrod instead of the standard 1/4" polyrod at the awning rail.
8. Mini controller (item 7) used with OEM RGB awning rail adaptor installation only.