



**RV**

**MOTORIZED VARIABLE PITCH PATIO AWNING**



Read this manual before servicing or using this product. Failure to follow the instructions and safety precautions in this manual can result in personal injury and/or cause the product to not operate properly.

For LED replacement parts and service procedures refer to 052584-301 “LED Service Manual for Vertical Arms” available on-line at [www.carefreeofcolorado.com](http://www.carefreeofcolorado.com)



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## PROPRIETARY STATEMENT

The Longitude Patio Awning is a product of Carefree of Colorado, located in Broomfield, Colorado, USA. The information contained in or disclosed in this document is considered proprietary to Carefree of Colorado. Every effort has been made to ensure that the information presented in the document is accurate and complete. However, Carefree of Colorado assumes no liability for errors or for any damages that result from the use of this document.

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



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



**Indicates a hazardous situation, which if not avoided, could result in death or serious bodily injury.**



**Indicates a hazardous situation, which if not avoided, may result in minor or moderate bodily injury.**



**Indicates a situation that may result in equipment-related damage.**

### General Safety:



**Shock Hazard. 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, do not over tighten. Soft materials such as fiberglass and aluminum can be "stripped out" and lose the ability to grip and hold.**

### CALIFORNIA PROPOSITION 65



**This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. California's Proposition 65 requires this warning to be given to customers in the state of California.**

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

- 070012-001 Longitude Installation Manual
- 070012-201 Longitude Owner's Manual
- 070012-301 Longitude Service Manual

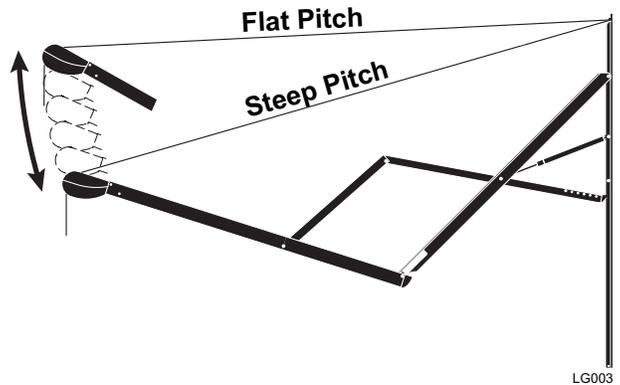
# SPECIFICATIONS

The adjustable pitch Longitude provides motorized awning comfort with Carefree's standards for looks, strength and dependability with a successful blend of style, quality and economy.

The variable pitch offers 6 settings from flat (3°) to steep (16°).

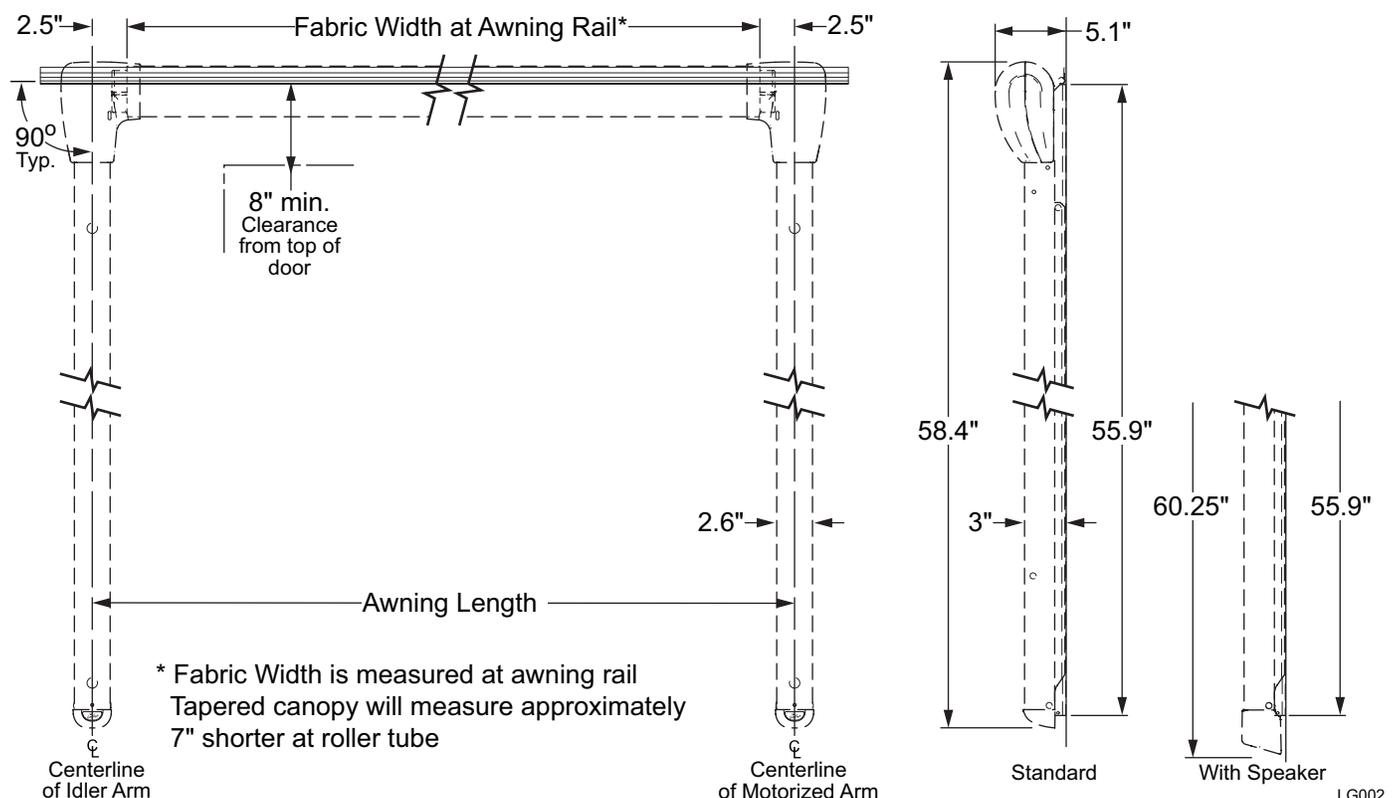
The awning roller tube and arms are made from light weight, no-rust aluminum. The awning fabric is heavy weight vinyl.

LED lighting is standard with the LED strip mounted in the roller tube.



LG003

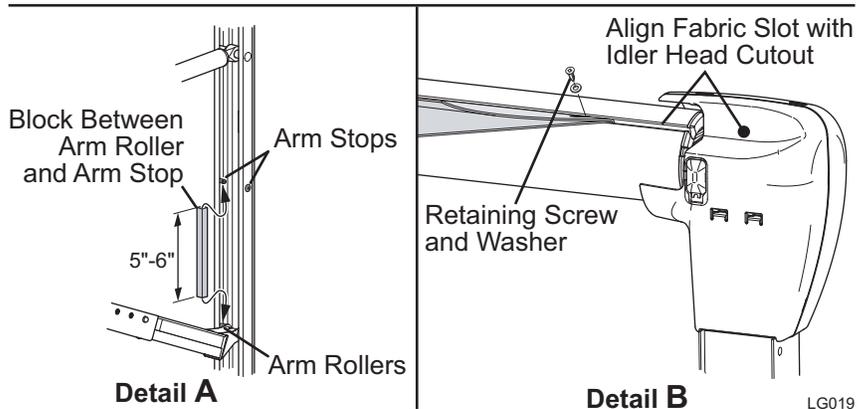
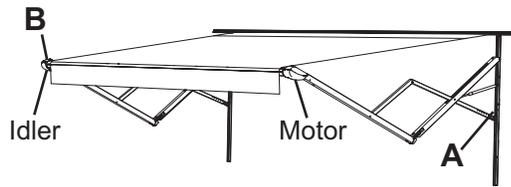
|                               |   |   |  |                           |
|-------------------------------|---|---|--|---------------------------|
| <b>MAXIMUM EXTENSION:</b>     |   | 90 inches   | <b>LENGTH:</b>   | 5 - 21 feet               |
| <b>PITCH:</b>                 | <b>FLAT</b>   | 3°  | <b>DROP:</b>   | approximately 6 inches    |
|                               | <b>STEEP</b>  | 16°   |  | approximately 26.5 inches |
| Angle is Canopy vs horizontal |   |   | Measurement is from centerline of Awning Rail to centerline of roller tube |                           |
| <b>MOTOR:</b>                 | Power: 10VDC–14VDC  |   | <b>Circuit Rating:</b> 15 amp  | motor mounted in arm      |
| <b>POWER SOURCE:</b>          | Motor and controls are routed and hardwired into the vehicle's 12V system |   |  |                           |
| <b>EXTEND ACTUATION:</b>      | Gas Shock   |   |  |                           |
| <b>POSITION CONTROL:</b>      | Motorized roll out/in   |   |  |                           |
| <b>CONTROLLER:</b>            | 3 position, momentary ON, center OFF Switch                               |   |  |                           |
| <b>COLOR:</b>                 | <b>Frame:</b>   | White, Black  |  |                           |
|                               | <b>Canopy:</b>  | Vinyl with Weatherguard or FLXguard. Refer to sales literature for options.   |  |                           |
| <b>LED</b>                    | LED strip mounted in roller tube or at the awning rail                    |   |  |                           |
|                               | <b>Power:</b>   | 1A, 12VDC   |  |                           |
|                               | <b>Control</b>  | <u>White:</u> Single pole, single throw switch (SR0101) <i>Note: The Switch kit is ordered separately. Kit includes in-line fuse holder and 2A spade type fuse. For an installer furnished control switch, see note under "Switch Installation".</i><br><u>RGB</u> IR (Infrared) Controller with sensor and remote. |  |                           |



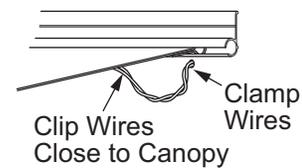
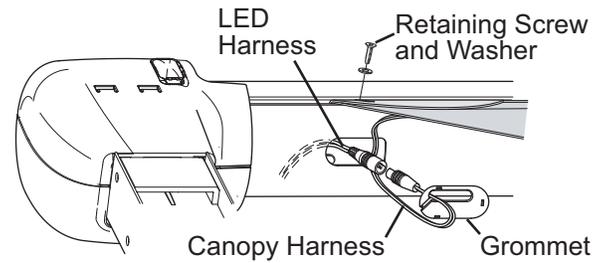
LG002

## CANOPY REPLACEMENT

1. Remove the canopy retaining screws in the awning rail.
2. Partially extend the awning.
3. Place stop blocks between the arm rollers and arm stops on both arms. Blocks should be 5"-6" in length.
4. Extend the awning. The arms will stop with the stop blocks in place. Check that the blocks are firmly seated between the rollers and arm stops.
5. Continue to unroll the canopy from the roller tube. Continue until the fabric slot is aligned with the cutout on the back of the idler head.



6. Disconnect power to the awning.
7. For awnings with LEDs in the roller tube:
  - 7.1. On the motor side, remove the split grommet from the roller tube.
  - 7.2. Carefully pull the wires and connectors out of the roller tube. Disconnect the connectors.
  - 7.3. Tape or clamp the LED harness connector outside the roller tube to prevent it from falling back into the roller tube. This can be done with a paper clip or similar device that will not damage the wires.
  - 7.4. At the awning rail, clip the harness close to the canopy. Clamp the harness going into the vehicle to prevent it from falling in the wall.



8. For awnings with LEDs at the awning rail: Disconnect the LED strip from the harness for white LEDs or from the controller for RGB applications.
9. Remove the fabric retaining screws in the roller tube.
10. Slide the fabric out of the awning rail and roller tube.
  - 10.1. For canopies with LEDs at the awning rail: The LED rail adaptor is attached to the canopy and will slide out with the canopy.

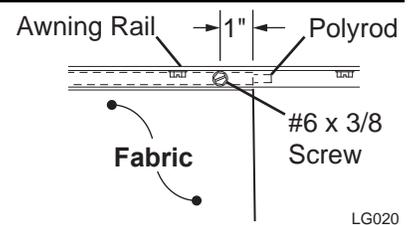
11. Clean and deburr the roller tube slots and awning rail as required. If not previously done, spread open the awning rail track to facilitate inserting the new fabric.

*Tip: Lightly spraying the slots with a dry silicone lubricant will help the fabric slide into the slot without staining the material.*

**NOTE:** While the awning fabric is fairly robust, care must be taken not to snag it on the awning rail.

12. Slide the new canopy into the roller tube and awning rail and center in the roller tube.
13. Secure the fabric to the roller tube with the retaining screws removed previously. Screws are placed under the valance and through the reinforcements on the canopy.
14. Restore power.
15. Retract the awning and remove the blocks between the arm stop and arm rollers.
16. Check that the canopy is rolling up squarely onto the roller tube. Adjust as necessary.

17. Place one (1) #6 x 3/8" screw through the awning rail, fabric and polyrod approximately 1" in from the fabric edge. Pull the fabric taut and place a second retaining screw on the opposite side.



18. For awnings with LEDs in the roller tube:

- 18.1. Connect the canopy harness connector and LED connector. Then carefully push the connectors into the roller tube.
- 18.2. Place the split grommet over the canopy harness and press the grommet into the hole of the roller tube.
- 18.3. If the canopy has a metal wrap, attach the wire to the inside of the wrap (see page **Error! Bookmark not defined.**) then proceed with the next step.
- 18.4. At the vehicle wall, route the new canopy harness through the wall to the switch.  
*Tip: Tie the new harness to the old harness that was cut previously. Use the old harness to pull the new harness through the wall to the desired location.*
- 18.5. At the vehicle wall, provide a 3" loop of harness between the canopy and wall. Seal the wall entrance hole and harness with a quality silicone sealant.
- 18.6. Connect the new harness to the switch. Two (2) .187, 18-24 awg female disconnects are provided if connecting to a switch.
- 18.7. Alternate method: At the wall, splice the new harness to the existing harness using 24 awg butt connectors. Push the connectors into the vehicle wall. Seal the wall entrance hole and wires with a quality silicone sealant.
- NOTE:** Be sure to allow enough harness from the canopy to provide a 3" loop of harness and adequate length for the connectors to be pushed inside the wall before sealing the hole and harness with a quality silicone sealant.
19. For canopies with LEDs at the awning rail: Connect the LED strip to the harness for white LEDs or to the controller for RGB applications.

## MOTOR AND/OR GEAR REPLACEMENT

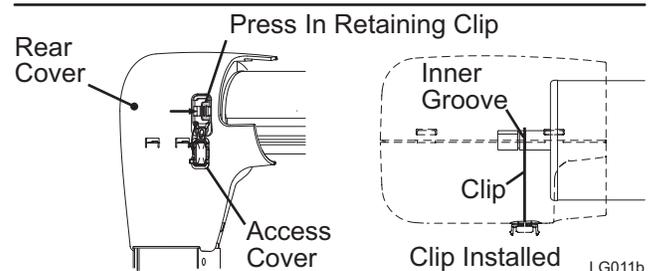
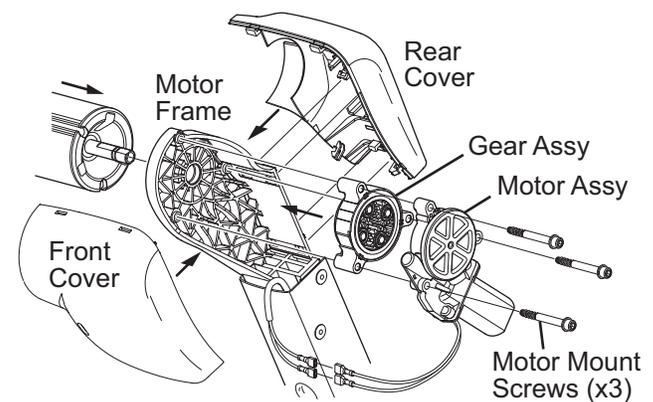
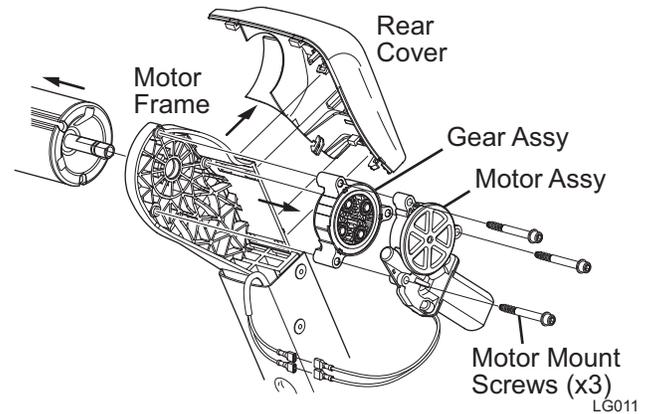
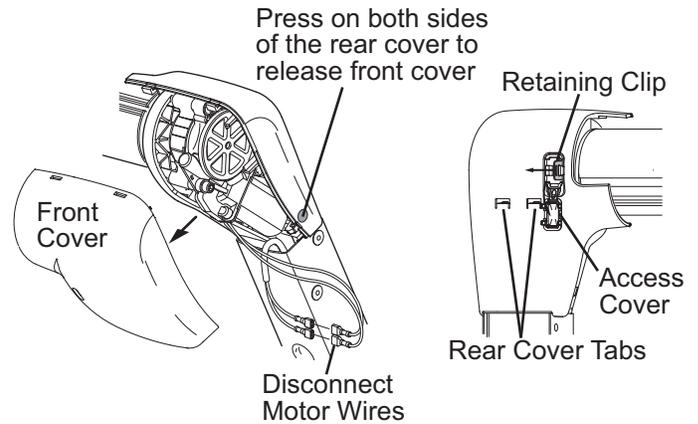
**CAUTION** The arms are under tension from the gas shocks. When the motor is removed the roller tube will be able to free spin and **both** arms will extend from the gas shock tension. It will be necessary to have at least one other person holding the roller tube and idler arm.

### For Awnings Fully or Partially Extended

1. Disconnect power to the awning.
2. Remove the front cover on the motor side. To remove: Press in on both sides of the rear cover in the area shown. Rotate the cover up and off.
3. Disconnect the motor wires from the motor cable.
4. On the back of the rear cover open the access cover and pull out the roller tube retaining clip until it disengages from the roller tube. The clip will "latch" in the detach position and can be left in the cover.
5. Pull the roller tube from the motor head.
6. Allow the motor arm to slowly extend out to its maximum extension.
7. While firmly holding the idler arm and roller tube, allow the awning to slowly extend out to the maximum extension of the canopy. Use a scaffold or similar device to support the motor end of roller tube.

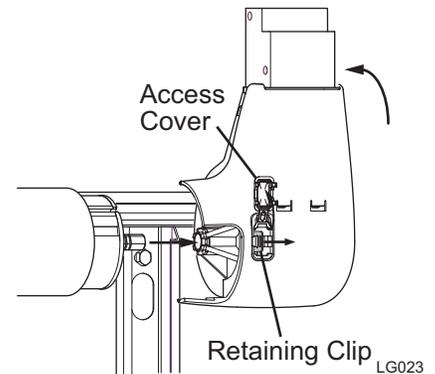
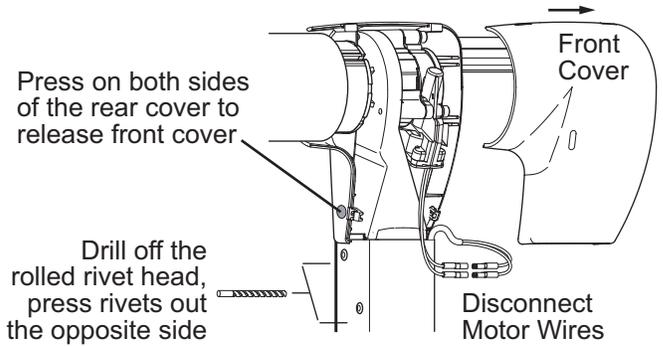
**NOTICE** Do not allow the roller tube to drop toward the ground. The twisting motion can cause serious damage to the idler arm.

8. Using a flat blade screw driver, press and release the two (2) rear cover tabs. Lift the rear cover off of the motor frame.
9. Remove the three (3) motor mount screws, motor and gear box from the motor frame. Set parts aside.
10. Attach the new gear box and motor to the frame using the three (3) motor mount screws removed previously.
11. Snap the rear cover onto the motor frame.
12. Align the roller tube and insert the shaft into the head. It may be necessary to rotate the roller tube to align the flats of the shaft with the opening.
13. Ensure that the roller tube is fully inserted into the head. With the roller tube shaft FULLY INSERTED, press the retaining clip onto the shaft. The clip goes in only when the shaft is fully inserted. Press the clip until it is firmly seated in the inner groove of the roller tube shaft.
14. Attach the motor wires to the arm cable. Ensure that the wire colors match.
15. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.
16. Restore power and test.

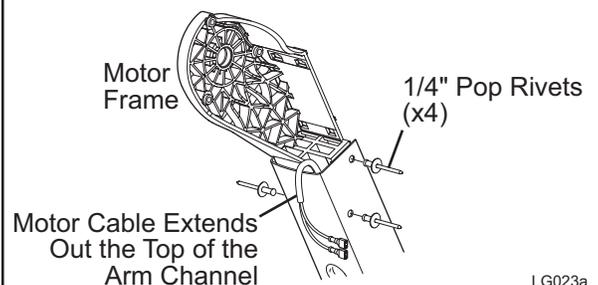
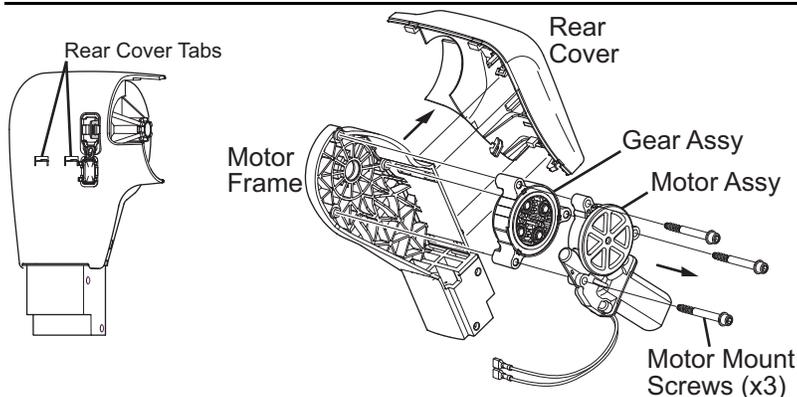


*For Awnings Fully Retracted*

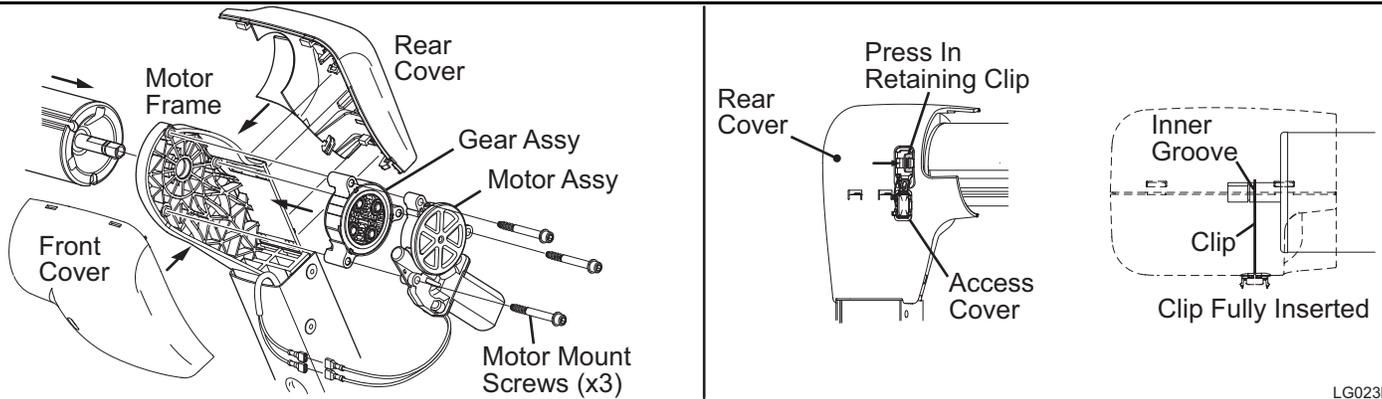
1. Disconnect power to the awning.
2. Remove the front cover on the motor side. To remove: Press in on both sides of the rear cover in the area shown. Rotate the cover up and off.
3. Disconnect the motor wires from the motor cable in the arm.
4. Drill off the rolled rivet heads and press out the two rivets. Use care to not enlarge the holes in the parts.
5. Slowly extend the motor arm out from the wall.
6. Rotate the motor head and roller tube up to access the rear motor cover.
7. On the rear cover open the access cover and pull out the roller tube retaining clip until it disengages from the roller tube. The clip will "latch" in the detach position and can be left in the rear cover.
8. Pull the motor head off of the roller tube
9. While firmly holding the idler arm and roller tube, allow the awning to slowly extend out to the maximum extension of the canopy. Use a scaffold or similar device to support the roller tube.

**NOTICE**

**Do not allow the roller tube to drop toward the ground. The twisting motion can cause serious damage to the idler arm.**



10. Using a flat blade screw driver, press and release the two (2) rear cover tabs. Lift the rear cover off the motor frame.
11. Remove the three (3) motor mount screws, motor and gear box from the motor frame. Set parts aside.
12. Position the motor frame in the arm channel. Ensure that the motor cable is extending out of the channel.
13. Attach the motor frame to the arm channel using four (4) 1/4" pop rivets (.09-.25 grip range).



LG023b

14. Attach the gear box and motor to the frame using the three (3) motor mount screws removed previously.
15. Snap the rear cover onto the motor frame.
16. Align the roller tube and insert the shaft into the head. It may be necessary to rotate the roller tube to align the flats of the shaft with the opening.
17. Ensure that the roller tube is fully inserted into the head. With the roller tube shaft FULLY INSERTED, press the retaining clip onto the shaft. The clip goes in only when the shaft is fully inserted. Press the clip until it is firmly seated in the inner groove of the roller tube shaft.
18. Attach the motor wires to the arm cable. Ensure that the wire colors match.
19. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.
20. Restore power and test.

## REPLACING THE GAS SHOCK

**CAUTION** The gas shock has approximately 85 lbs of pressure in the closed position. A pressurized shock can open rapidly when removed or released and cause personal injury and property damage.

1. Open the awning.

**NOTE:** The arm may not open completely when the shock has lost pressure or is removed. It may be necessary to carefully pull the arm out and away from the vehicle to open the awning.

2. Drill out the arms stops from the rear channel. Use care to not oversize the holes.
3. On the rear cover, open the access cover and pull the retaining clip out to release the roller tube.
4. Separate the roller tube and end cap. It will be necessary to hold the roller tube and motor arm. Allow the arm to extend out.
5. Support the roller tube and arm.

**NOTICE** Do not allow the roller tube to drop toward the ground. The twisting motion can cause serious damage to the other arm.

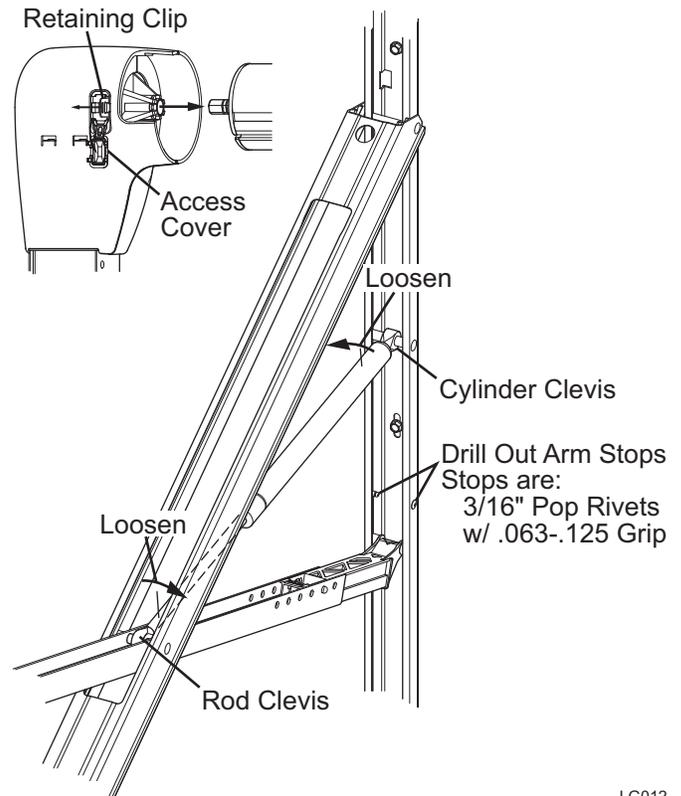
6. Unscrew the shock barrel from the clevis in the mounting channel.

*Tip: Wearing a pair of rubber gloves will aid in gripping the surfaces of the shock.*

7. Unscrew the shaft from the clevis in the arm joint. Set old shock aside.

**NOTE:** It may be necessary to use vice grips or pliers on the old shock to unscrew the shock from the clevis. DO NOT use vice grips or pliers on the new shock. Damage to the surface of the shaft or damage to the barrel can cause the new shock to not work correctly.

8. Unpack the new shock and carefully allow it to extend to its maximum length.
9. Coat the threads of the shaft of the new shock with a non-permanent thread lock (i.e. loctite) then screw the rod into the clevis of the arm elbow. Hand-tighten only.
10. Lift and hold the arm up. The arm should be unfolded and extended as far as possible.
11. Coat the threads of the barrel of the new shock with a non-permanent thread lock (i.e. loctite) then screw the barrel into the clevis in the mounting channel. Hand-tighten only. It will be necessary to grip and hold the shaft while turning the barrel.



LG012

12. Attach the roller tube to the arm:

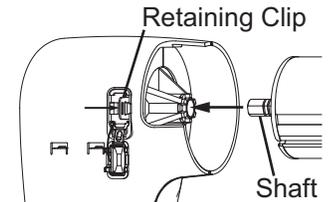
For Motor Side:

- 12.1. On the RH (motor) arm, press the roller tube shaft into hole in the motor head. It may be necessary to twist the roller tube to align the flats on the roller tube shaft with the flats in the motor head bearing.
- 12.2. With the roller tube shaft FULLY INSERTED, press the retaining clip onto the shaft. The clip goes in only when the shaft is fully inserted. Press the clip until it is firmly seated in the groove of the roller tube shaft.

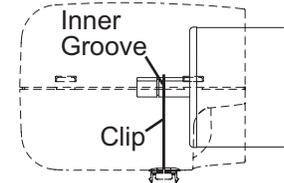
**NOTICE** The roller tube must be fully inserted into the head for the clip to align with the groove on the shaft. The roller tube can disengage if the clip does not seat in the groove of the shaft.

For Idler Side:

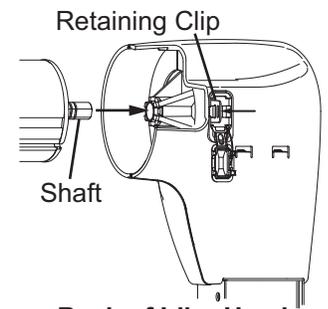
- 12.3. On the LH (idler) arm, press the roller tube shaft into hole in the idler head.
  - 12.4. With the roller tube shaft fully inserted, press the retaining clip onto the shaft. Move the roller tube shaft until the clip aligns with the inner groove of the shaft. Press the clip until it is firmly seated in the groove of the shaft.
13. Partially retract the awning. It may be necessary to lightly pull down on the lower arm at the mounting channel until the rollers are past the location of the arm stops. Always pull down from the bottom of the arm to avoid pinching.
14. Install new arm stops where the old stops were removed. The stops are 3/16" pop rivets with a .063-.124" grip range.



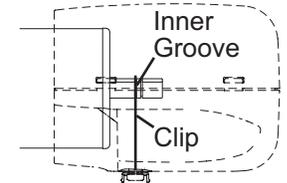
Back of Motor Head



Clip Fully Inserted



Back of Idler Head



Clip Fully Inserted

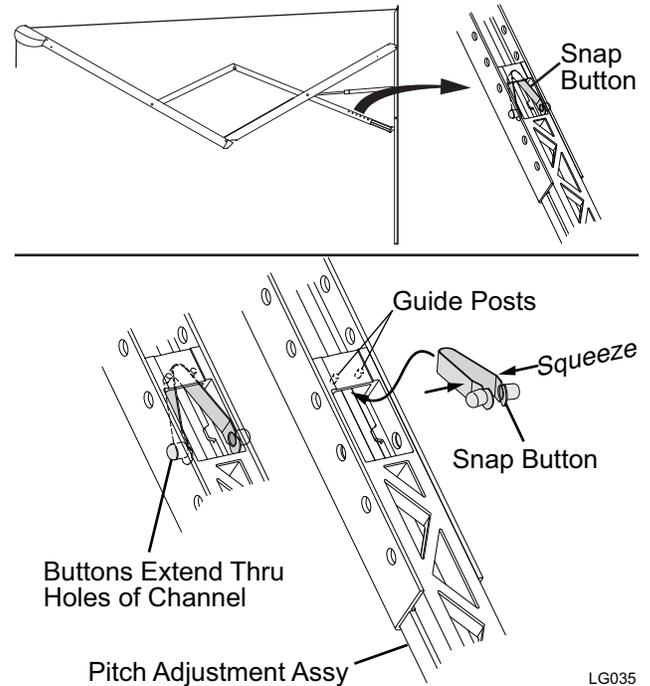
LG004a

## PITCH ADJUST ASSEMBLY AND PARTS REPLACEMENT

This procedure describes the steps to replace the pitch adjust assembly, snap buttons and the arm rollers.

### REPLACING THE SNAP BUTTON

1. Open the awning.
2. Remove the old snap button.
  - 2.1. Squeeze the button together.
  - 2.2. Lift up and out.
3. Insert the new snap button.
  - 3.1. Squeeze the button together.
  - 3.2. Insert into frame between guid posts.



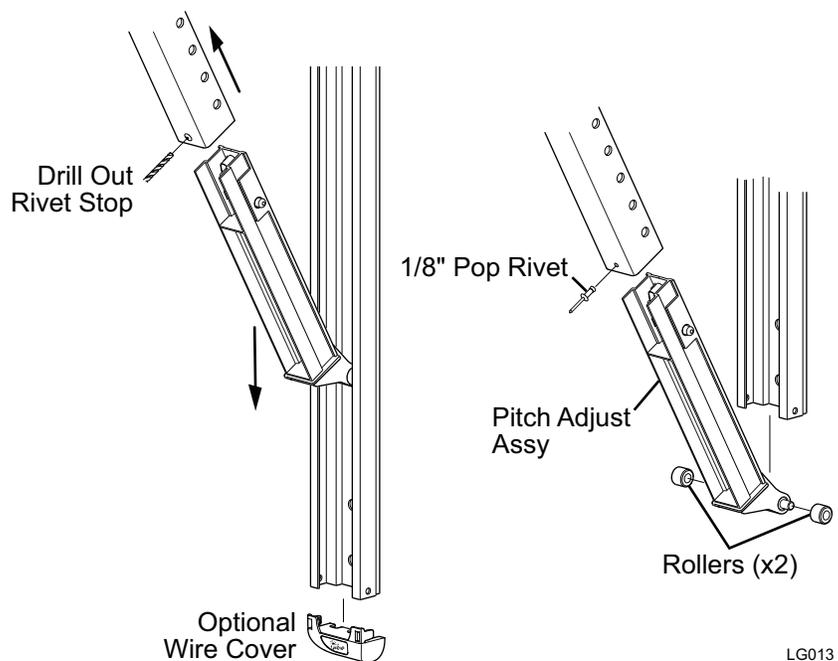
LG035

### REPLACING THE ARM ROLLERS OR PITCH ADJUST ASSEMBLY

The following procedure is used to replace the arm rollers or the complete pitch adjust assy.

**NOTICE** This procedure requires two people. The second person is required to hold support the arm and roller tube during the procedure.

1. Extend the awning to access the pitch adjust assy.
2. Disconnect power to the awning.
3. If installed, remove the optional lower wire cover.
4. Drill out the rivet stop at the bottom of the arm channel.
5. Have one person hold and lift the arm and roller tube.
6. Press in the pitch adjustment pins and slide the pitch adjust assy out of the arm channel.
7. Slide the pitch adjustment assy out of the bottom of the rear channel.
8. For roller replacement, remove the old rollers from the posts.
9. Slide the new rollers onto the posts of the pitch adjust assy.

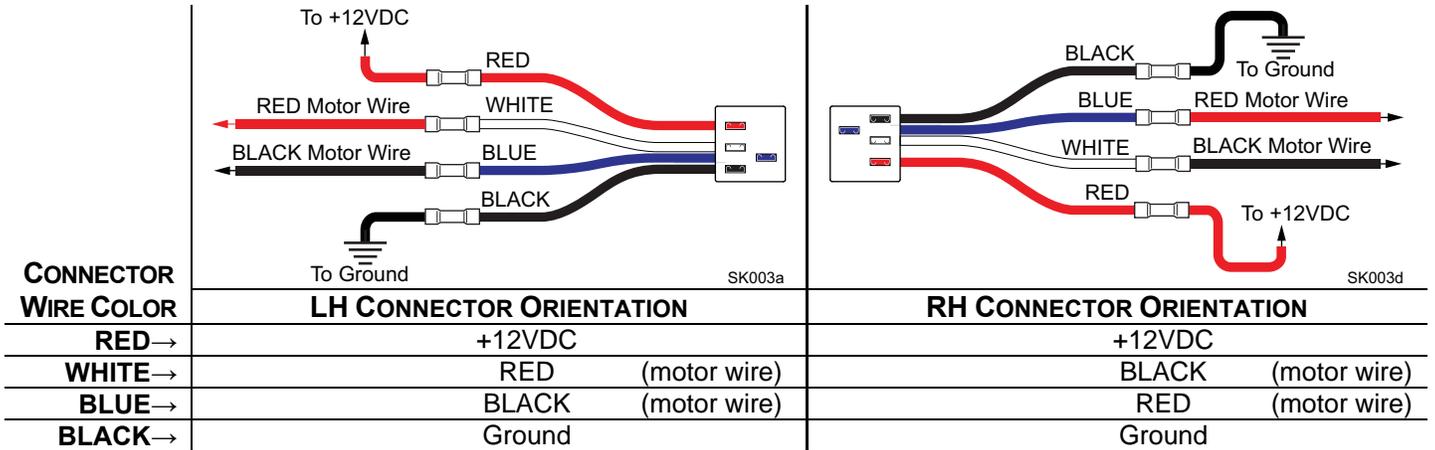


LG013

**NOTE:** The rollers are shipped loose with a new pitch adjust assy.

10. Slide the pitch adjust assy and rollers into the rear channel. Note the orientation as shown.
11. Align the arm channel and pitch adjust assy and slide together. It will be necessary to press in the valco buttons. Push the parts together until the valco buttons pop out of the standard adjust holes in the channel.
12. Install a 1/8" pop rivet in the rivet stop hole that was drilled out previously.

# WIRING DIAGRAM



## STANDARD MAINTENANCE

Maintaining the Carefree Manual Patio Awning is easy. Just follow these basic steps:

- Always operate the awning according to the instructions.
- Periodically check that the fasteners are tight. Tighten if necessary.
- Keep the awning fabric and arms clean.

### FABRIC CARE

**NOTICE** 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. 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. Use a soft 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°F.
  - Air-dry only. Never apply heat to the fabric.
  - Always allow the fabric to dry thoroughly before rolling up the awning.

### *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 required 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.

### *Pooling*

When water collects on the top of the fabric, this is known as "pooling". This can occur during inclement weather or if a running air conditioner discharges over the awning. The water is dumped when the awning is retracted. It is recommended that if water accumulates on the top; retract the awning in steps (8"-12") to dump the water. This will help prevent the fabric from stretching or distorting.

**The effects of wind and rain on an awning are unpredictable. Severe damage to the awning and the vehicle may result. IF WIND OR EXTENDED PERIODS OF RAIN ARE EXPECTED, ROLL UP THE AWNING AND SECURE FOR TRAVEL.**

### ARM CARE

The best method of keeping the arms and braces operating smoothly is to clean them. Dirt and debris can cause the channels not to slide easily.

**NOTE:** Avoid introducing water into the motorized housings.

Periodically wash out the channels with running water (i.e. a hose) to keep them clean. If the arms still do not move easily, lightly spray the contact and pivot points with a dry silicone lubricant after the arms have been cleaned and dried thoroughly.

### *Hardware Maintenance*

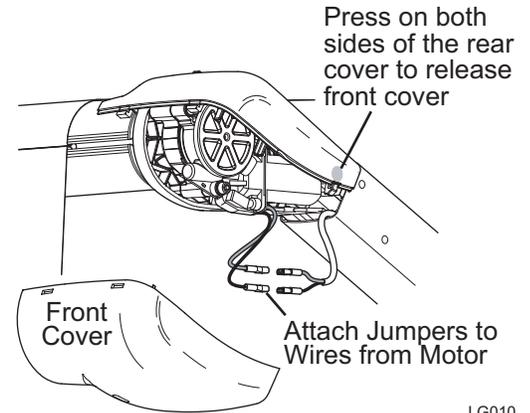
- Replace any parts that become damaged.
- Periodically check all mounting hardware, screws, lags, etc., and re-tighten when necessary.

## EMERGENCY OVERRIDE

If power to the vehicle is not available, the awning can be safely retracted by jumping the motor using a 10V-14V power source such as a cordless drill battery or car battery.

**NOTICE** Do not use a 110V power source for the emergency override procedure! Doing so will permanently damage the awning! Do not use the emergency override without following the directions below.

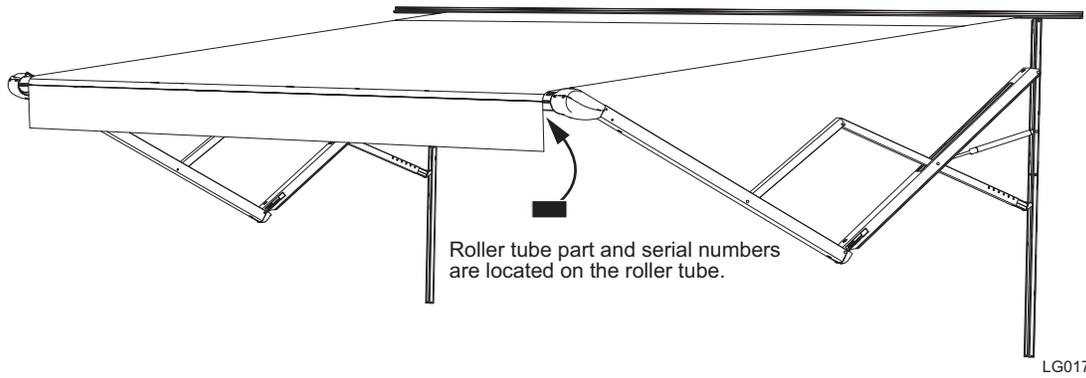
1. Remove the front cover. The cover snaps onto the rear cover. To remove, press on both sides of the rear cover until the front cover releases then lift the front cover off.
2. Detach the RED and BLACK wires from the cable to the motor.
3. Attach jumper wires to the motor wires.
4. Connect the other ends of the jumper leads to a 10-14V source. If the awning moves in the wrong direction, reverse the leads. Maintain contact throughout the retraction process.
5. When the awning is closed, remove the jumper wires and reattach the cable wires to the motor wires. Be sure to match the wire colors.
6. Snap the front cover onto the rear cover. Hang the cover on the top and swing down until it clicks.



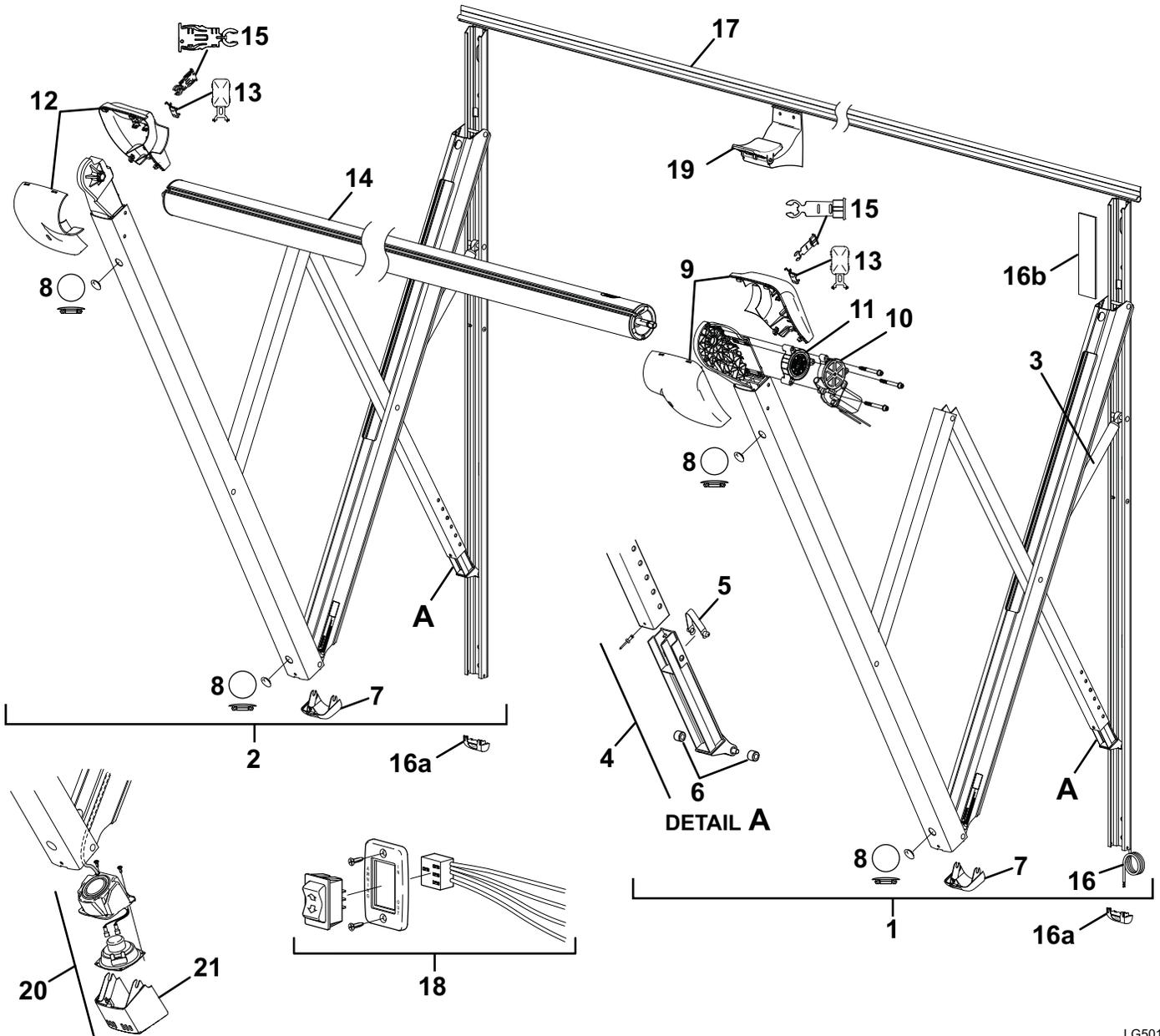
LG010

PART NUMBER LISTING

PART NUMBER/SERIAL NUMBER LOCATION



ILLUSTRATED PARTS LIST



LG501

| <i>Item</i> | <i>Part Number</i> | <i>Description</i>                                  | <i>Notes</i>                  |
|-------------|--------------------|---|-------------------------------|
| <b>1a</b>   | R001838XXX         | Arm Assy, Motor Side, RH                            |                               |
| <b>1b</b>   | R001936XXX         | Arm Assy, Motor Side, RH                            | with Speaker                  |
| <b>2a</b>   | R001839XXX         | Arm Assy, Idler Side, LH                            |                               |
| <b>2b</b>   | R001937XXX         | Arm Assy, Idler Side, LH                            | with Speaker                  |
| <b>3</b>    | R001826            | Kit, Gas Shock                                      |                               |
| <b>4</b>    | R001827            | Kit, Pitch Adjust Assy                              | includes items 5, 6 and rivet |
| <b>5</b>    | R001828            | Valco Button  |                               |
| <b>6</b>    | R001840            | Kit, Roller Replacement                             |                               |
| <b>7</b>    | R001829-00X        | Arm End Cap   |                               |
| <b>8</b>    | R001830-00X        | Kit, Hole Plug                                      | pkg of 4                      |
| <b>9</b>    | R001831-00X        | Cover Kit, Motor                                    | 2                             |
| <b>10</b>   | R001832            | Motor   |                               |
| <b>11</b>   | R001833            | Gear Box  |                               |
| <b>12</b>   | R001834-00X        | Cover Kit, Idler                                    | 2                             |
| <b>13</b>   | R001835-00X        | Kit, Clip Hole Cover Cap                            |                               |
| <b>14a</b>  | R001841-xxx        | Roller Tube Assy, No LED                            |                               |
| <b>14b</b>  | R001842-xxx        | Roller Tube Assy, w/ LED                            |                               |
| <b>15</b>   | R001836            | Kit, Retaining Clip                                 |                               |
| <b>16</b>   | R001837            | Power Harness                                       |                               |
| <b>16a</b>  | 012681-00X         | Wire Cover, Lower                                   | pkg of 2                      |
| <b>16b</b>  | R041331-006        | Wire Cover, Upper                                   |                               |
| <b>17</b>   | 610700xxxXXX       | Awning Rail, Standard                               |                               |
| <b>18</b>   | R019487-003        | Switch Kit, Awning                                  | 3                             |
| <b>19</b>   | 019574-006         | Center Support                                      | 4                             |
| <b>20</b>   | R001938            | Speaker Kit (includes case, speaker and back cover) | 5                             |
| <b>21</b>   | R041509            | Speaker Case  | 5                             |

- Notes:
- 00X = Color; 005= White; 006=Black. xxx= Length in inches.
  - Head cover kits include one front cover, one rear cover.
  - Switch kit includes switch, faceplate, screws and connector.
  - Center Support (item 19) includes attaching hardware.
  - Speaker Kit (item 20) and Speaker Case (item 21) are used with arm assemblies 1b and 2b.

**For LED replacement parts and service procedures refer to 052584-301 “LED Service Manual for Vertical Arms” available on-line at [www.carefreeofcolorado.com](http://www.carefreeofcolorado.com)**

