OWNERS MANUAL

G-2000 Automatic Lateral Arm Awning System
and G-1500 Door/Window Awning

Revised Spring 2003 (supersedes all prior issues)

GIRARD SYSTEMS®
The Original RV Lateral Arm Awning
WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Carefully read manual before beginning installation. Instructions subject to change without prior notice.
WARRANTY

Girard Systems offers a Limited Lifetime Warranty for its G-2000 Automatic Lateral Arm Awning System and G-1500 Door and Window Awning System (the “Awning”) by which Girard Systems warrants that its Awning will be free from defects in materials and workmanship under the normal use for which it was designed for as long as you (the original owner) own it. If you are not the original owner, the Warranty will expire five (5) years from the original date of purchase. In addition, the Warranty as to certain components of the Awning (specifically the fabric, motor and electronics) is five (5) years from the original date of purchase regardless of whether you are the original purchaser or not.

While this Warranty is in effect and following written notification to Girard Systems, Girard Systems, at no cost to you, shall repair or replace the Awning or any part thereof which is under Warranty and which fails to function as represented either because of a product defect or following normal wear and tear. However, this Warranty shall not apply and Girard Systems shall not be responsible to repair or replace the Awning or any part thereof because of damage caused by misuse or neglect of the Awning or by failure to adhere to the written operating and installation instructions. This warranty shall not apply to any Awning which has been altered or repaired by anyone other than Girard Systems or by its authorized service representatives.

Girard Systems does not warrant that the Awning meets the requirements of any laws or regulations of any county, state, municipality or other jurisdiction and you assume all risks and liability whatsoever resulting from the use thereof.

EXCEPT AS SPECIFICALLY PROVIDED HEREIN, GIRARD SYSTEMS MAKES NO WARRANTY OR REPRESENTATION, PROMISE OR GUARANTEE, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO ITS AUTOMATIC LATERAL ARM AWNING SYSTEM, INCLUDING ITS QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, OTHER THAN THE PRESIDENT OF GIRARD SYSTEMS, IS AUTHORIZED TO MAKE ANY MODIFICATION OR ADDITION TO THIS WARRANTY. IN NO EVENT SHALL GIRARD SYSTEMS BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE THE AWNING SYSTEM. IN NO EVENT SHALL GIRARD SYSTEMS’ AGGREGATE LIABILITY HEREUNDER, IF ANY, EXCEED THE COST OF REPAIR OR REPLACEMENT OF THE AWNING SYSTEM.

Girard Systems’ G-2000 Automatic Lateral Arm Awning system and G-1500 Door and Window Awning system are high-quality products designed to provide years of enjoyment. Although designed for use in sun and rain, your Girard Awning will last even longer if you retract it when weather conditions are particularly harsh.
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PRODUCT DESCRIPTION

The G-2000 Automatic Lateral Arm Awning System provides perfect weather protection at the touch of a button. Powered by a single motor control, your unit features the wind sensor control box, the wind sensor anemometer, an attractive one-button wall mount switch which operates like a garage door opener, ten feet (10’) of low-voltage cabling, and includes an integrated radio receiver plus a hand-held remote transmitter/control (see below). With the addition of the Wind Sensor V with Remote to your awning installation, wind speeds will be continuously monitored, triggering the controls to retract the awning in event of winds above 22 mph. The Wind Sensor V with Remote uses a hand-held radio transmitter which features up, down, and stop buttons.

The G-1500 Door and Window Awning System is a shorter version of the G-2000 Automatic Lateral Arm Awning System. The hand crank or the 15-amp paddle switch is required for its operation in configurations shorter than eight feet (8’).
IMPORTANT OPERATION REMINDERS

1. Confirm that sufficient 110 volt power is supplied to awning system for correct functioning of all component parts (i.e. - controller, anemometer, awning motor, etc.) Be sure either:
   a. Inverter is on;
   b. Generator is functioning; or,
   c. Vehicle is connected to shore power.

2. Turn on vehicle power and/or turn circuit breakers to “ON.”

A. OPENING/EXTENDING AWNING

1. Using Remote Control (See Fig. 2)
   a. To extend awning, push down button (arrow) once. (When fully extended, awning motor will turn off automatically. If not, refer to “Adjusting Motor Limit Switches” - pg. 10)

   b. To retract awning, push up button (arrow) once. (When fully retracted, awning motor will turn off automatically. If not refer to “Adjusting Motor Limit Switches” - pg. 10)

   c. Push middle button (stop) during either extend or retract mode to stop awning at any desired position. The middle (stop) button can also be used to change (reverse) mode from extend to retract or from retract to extend.

2. Using Wall Mount Rocker or Paddle Switch (See Fig. 1)
   a. To extend awning, push down on rocker or paddle switch. (When fully extended, awning motor will turn off automatically. If not, refer to “Adjusting Motor Limit Switches” - pg. 10)

   b. To retract awning, push up on rocker or paddle switch. (When fully retracted awning motor will turn off automatically. If not refer to “Adjusting Motor Limit Switches” - pg. 10)

   c. To stop awning at any time during extension or retraction, press opposite end of switch and awning will stop its progress.
3. **Motor**

a. The Motor supplied with your Girard G-2000 Awning and/or G-1500 Awning is a high torque/low RPM motor which has been carefully selected for reliability and application compatibility. It is designed for intermittent use with a rating of six (6) minutes per hour. If the motor's run-time exceeds this time period, a built-in circuit breaker will disable motor from operation. Generally, this condition will occur only during excessive periods of usage/awning adjustment. If built-in motor shut off does occur, allow sufficient time for motor to reset (up to one hour depending on outside temperatures). The manual override feature can be used during this period.

b. The Wind Sensor V Controller and the Anemometer work together to continuously monitor the wind speed around your awning at any given moment. If the actual wind speed becomes greater than the wind speed setting of your controller, a two-second delay occurs and a signal is sent to the awning motor to retract the awning. (The awning will remain in the retracted position until such time that it is again extended by pressing the down button on switch.)
B. **REMOTE CONTROL**

(Programming and Battery Replacement)

1. Press the Programming Button (PROG) of the receiver located in wind sensor control box (lower right corner) until LED lights. This indicates that for one (1) minute the receiver is ready to receive the address of the transmitter. After this time, the LED goes out.

2. Press the Programming Button on the back of the transmitter (Fig. 2) with a ballpoint pen until the receiver’s LED blinks. The address of the transmitter is instantly memorized and the receiver automatically ends the programming mode.

3. To add or delete channels in receiver memory, please refer to instruction guide in remote control packaging.

4. To change battery on remote control transmitter (Fig. 3):
   a. Remove back cover with screwdriver.
   b. Slide battery out by pushing with screwdriver.
   c. Insert new battery and close back cover.
C. AWNING FABRIC
(Care and Cleaning)

1. Awning fabric should be cleaned regularly before substances such as dirt, roof particles, etc., are allowed to accumulate on and/or become embedded in the fabric. The fabric can be cleaned without being removed from the frame. Simply brush off any loose dirt, roof particles, etc, then hose down and clean with a mild, natural soap in lukewarm water (no more than 100 degrees fahrenheit). Rinse thoroughly to remove soap. DO NOT USE DETERGENTS!

2. For stubborn stains, soak the fabric for approximately twenty minutes in a solution of no more than 1/2 cup (4 oz.) of bleach and 1/4 cup (2 oz.) natural soap per gallon of water at approximately 100 degrees fahrenheit. Rinse thoroughly in cold water to remove all of the soap. Note: Excessive soaking in bleach can deteriorate sewing threads. This method of cleaning may remove part of the water repellency and the fabric should receive an application of an air-curing water repellent treatment.

3. DO NOT SUBJECT AWNING FABRIC TO EXCESSIVE HEAT as the fabric will shrink. DO NOT STEAM PRESS OR DRY IN ELECTRIC OR GAS DRYERS, but allow to air dry.
AWNING ADJUSTMENTS
(Adjusting Motor Limit Switches)

Tools required
• Black plastic key provided with awning, or 4mm (5/32") Allen wrench

PROCEDURE

The limit switches are adjusted at the factory prior to shipment. The awning motor is set to stop at the exact moment the awning box closes. (If using an MS-1 current-limiting device, you will have to turn the IN limit three plus (+) revolutions past the awning’s closing point. This only applies to the IN limit.) The awning motor is also set to stop at the exact moment that, while opening, the arms lock into the extended position.

Always check the motor rotational limits after installation to assure that the awning opens and closes correctly. Additionally, awning fabric can stretch, requiring simple adjustments.

VERY IMPORTANT: Extreme care must be taken when setting the IN limits of the motor to ensure that the motor turns off at exactly the same time as the awning box closes; if not, the motor will continue to run as it has not reached its limit. This condition, if not corrected, will substantially reduce motor life. Turn the awning switch OFF when awning is fully retracted. (This applies only to coaches older than 2000 models, unless they are compatible.)

If adjustments are required, please follow these instructions:

1. The DMI (manual override) motor has limit settings for both OUT (extension) and IN (retraction).

2. Adjust the limit switches with the black plastic key (provided) or a 4mm Allen wrench.

3. Extend the awning a few feet and locate the cylindrical awning motor mounted inside the awning roller tube (standard installation is at the right/front end of the awning). The limit switches are mounted on the aluminum (silver) casing at the exposed end of the motor. At the limit switches are two black directional arrows, each with a plus (+) and a minus (−) sign. The actual limit switch is the recessed hole next to the corresponding arrow.

4. Adjust limits according to the directional arrows (see Fig. 4 callout). A 1/4 turn represents approximately 1" of awning movement. Never set outward limits so that fabric is loose after full arm extension. Be sure fabric is taut. Adjust limit switches until the motor stops at the exact time that the arms lock into position.

The diagram below refers only to motors with aluminum (silver) casings.
Note: If the motor is mounted on the left end of the awning, the functions of the limit switches will be reversed.

To adjust OUT limits:
Use the outermost switch.
(+): Extends More; (-): Extends Less

To adjust IN limits:
Use the innermost switch.
(+): Closes More; (-): Closes Less

FIGURE 4
ADJUSTING MOTOR LIMIT SWITCHES

FIGURE 4A
ADJUSTING MOTOR LIMIT SWITCHES LEFT HAND SIDE
E. AWNING ADJUSTMENTS

(After an Awning Motor Replacement)

PROCEDURE

After a motor has been replaced, the limit switches which control the awning’s inward and outward stopping points must be reset. The IN switch must be set so that the awning motor stops at the exact moment the awning box closes. Likewise, the OUT limit must be set to stop at the exact moment that, while opening, the arms lock into position. With a new motor the limit switches are set at mid-point; the awning will stop with the OUT limit at approximately half-extension, and the IN limit will be set past where the awning should normally close.

For a right-hand motor installation (standard), the OUT limit switch is the outermost hole, and the IN limit switch is the innermost hole. For a left-hand installation, these switch locations (holes) are opposite (reversed).

SETTING OUT (EXTEND) LIMITS

1. Extend the awning until the motor stops.
2. Locate the motor limit switches mounted inside the silver casing at the exposed end of the motor. Beside each switch is a directional arrow with a plus (+) and a minus (-) sign. The actual limit switch is the recessed hole next to the corresponding arrow.

SETTING IN (RETRACT) LIMITS

1. Place the awning in the IN position and allow the awning to roll up to about 6" of being fully closed. Place the switch in the STOP position.
2. Locate the IN limit switch. Turn the switch in the (-) direction about twenty (20) turns.
3. Place awning switch in the OUT position and open the awning a few inches.
4. Reverse the switch direction to close the awning. (This is to ensure that the IN limit switch stops the awning before the awning is completely closed. If not, continue adjusting the IN limit switch in the (-) direction until the awning stops before it is closed.)
5. Once it is correctly adjusted, place the awning switch in the IN position and turn the IN limit switch in the (+) direction. The awning will “follow” as you turn the switch. Continue until the awning box is approximately 3" from closing.
6. The final adjustment requires estimating the amount of awning closure per switch rotational distance. (A 1/4 turn represents approximately 1" of awning movement.) Turn the switch the estimated amount, keeping your hand away from the box as the awning closes. Make sure the motor does not continue to run or hum after the box is closed; if it does, open the
awning a few inches and back the switch up in the (-) direction. Repeat this procedure until the motor turns off at the exact moment the awning box closes.

TESTING ANEMOMETER

1. Partially extend awning.
2. Blow or spin anemometer cups rapidly to check retraction. Awning must retract; if not, check motor connections for proper polarity.

F. ADJUSTING PITCH ANGLE

The awning comes factory pre-set with a pitch angle of approximately 20°, the minimum angle recommended for proper rain runoff. To increase this angle, loosen the front bolt and pivot bolt located on the outside upper joint of each arm using a 3/4" or 19mm wrench. Use the same wrench to lower or raise the pitch angle by turning the adjustment bolt clockwise to raise, counterclockwise to lower. (See Figs. 6 and 7.)
Figure 6
Loosen pivot bolt

Figure 7
Adjustment bolt
The awning lead rail comes factory pre-set with a pitch angle of +/- 3°. This angle allows the lead rail to fit snugly into the main housing cover and the back housing, making a weather-resistant seal for travel.

To increase or decrease the angle, insert a 5mm Allen wrench into the top pitch angle screw. Turn clockwise to increase the pitch, counterclockwise to decrease the pitch. Do not overtighten the pitch angle screw, which will result in damage to the inside track of the lead rail or will strip the screw.
To adjust the lead rail connector, allow it to align itself. This is done by opening awning about two (2') feet. Remove fabric set screw on both side. Then loosen horizontal lead rail adjustment screws. Align all elbows to ensure proper closing. Next, moderately tighten horizontal lead rail adjustment screws and close awning. If awning does not close correctly, open awning two (2") inches and moderately hit end of lead rail which is binding. Then ensure that lead rail is even on both sides. Close and then reopen awning and tighten horizontal lead rail adjustment screw and re-insert fabric set screw.
### SPECIFICATION SHEET
#### G-2000/G-1500

**A. AWNING CASE**

1. **Height**
   a. 7-3/8" at mounting point
   b. 7-3/4" at front

2. **Width**
   a. 5-1/4"

3. **G-2000 Weight**
   a. 21'8" Awning - 235 lbs.
   b. 19'8" Awning - 225 lbs.
   c. 18'0" Awning - 210 lbs.
   d. 12'0" Awning - 146 lbs.

4. **Fabric**
   a. 100% Woven Marine Acrylic

5. **G-1500 Weight**
   a. 4'8" Awning - 59 lbs.
   b. 6'0" Awning - 70 lbs.
   c. 8'0" Awning - 93 lbs.
   d. 10'0" Awning - 110 lbs.
   e. 12'0" Awning - 130 lbs.
B. **ROLLER TUBE**
   1. Diameter - 3"

C. **MOTOR SPECIFICATIONS**
   1. Type - Tubular with Manual Override
   2. 120 VAC - 60 Hz
   3. 12 RPM - 4-minute Maximum Run Time.
   4. 2 Amps - 240 Watts
   5. 50 Nm
   6. Thermal Protected

D. **MOUNTING BRACKETS**
   1. Height - 7-5/16"
   2. Width
      a. Outer Brackets - 19-1/2"
      b. Center Bracket - 11-1/2" (over 18')
      c. Center Bracket - 4" (14'-18')

E. **CORD/CABLE LENGTHS**
   1. Awning Motor - Six (6') foot cord
   2. Wind Sensor Anemometer - Six foot (6') cord
   3. Wall Mount Rocker Switch (G-2000) - Ten foot (10') low-voltage cable
   4. Wall Mount Paddle Switch (G-1500) - Ten foot (10') 120V/15amp cable

F. **CONTROL BOX SPECIFICATIONS**
   1. Input: 120 VAC - 50/60 Hz
   2. Output: 120 VAC - 5A-1/4 HP
   3. Frequency Range - 65ft (optimal conditions)

G. **REMOTE CONTROL TRANSMITTER**
   1. Single Frequency - 433 Mz
   2. Battery - 3V Lithium Battery, CR2430
   3. Frequency Range - 65ft (optimal conditions)
### PARTS LIST

**G-2000 AUTOMATIC AWNING/G-1500 DOOR AND WINDOW AWNING**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
</tr>
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<td>01 1500031-01</td>
<td>Main Housing Cover - White 12'</td>
<td>12</td>
<td>1500122-12</td>
<td>Roller Tube - 16'</td>
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<td>1500123-12</td>
<td>Roller Tube - 18'</td>
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<td>Roller Tube Gudgeon Square - 78 mm</td>
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<td>1500145-15</td>
<td>Roller Tube Support Bracket (Including bolt and screw)</td>
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<td>02 1500076-02</td>
<td>Back Housing - White 12'</td>
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<td>1500150-16</td>
<td>Bolt and Screw for Roller Tube Support Bracket</td>
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<td>Washer for Motor Mount</td>
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<td>Arm to Lead Rail Articulation Connector Pin</td>
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<td>Back Housing Gutter 19'8&quot;</td>
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<td>1500180-48</td>
<td>E Clip for Arm to Lead Rail Articulation Pin</td>
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<td>1500181-49</td>
<td>Guide for Lead Rail</td>
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<td>05 1500110-05</td>
<td>Screw for End Plates</td>
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<td>1500183-50</td>
<td>Screw for Lead Rail Guide</td>
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<td>Mounting Bracket Slide Lock</td>
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<td>1500225-51</td>
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<td>1500233-51</td>
<td>Lead Rail - White 21'8&quot;</td>
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<td>Backing Plate Kit (set of 6 w/bolts, nuts &amp; washers)</td>
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<td>1500252-52</td>
<td>End Plate for Lead Rail - White L.H. (Metal)</td>
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<td>3300503 Girard Logo - White Plastic w/Gold Letters</td>
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<td>1500275-54 Plastic Cover for Motor Cut-Out on Lead Rail</td>
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<td>1500282-55 Bell Housing for M.O.</td>
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<td>1500295-56 Crank Handle - Adjustable</td>
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<td>1500299-57 Arm - White 3'3&quot; Projection - L.H.</td>
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<td>60</td>
<td>1500360-60 Fabric Guide Rail - 21'8&quot;</td>
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<td>72</td>
<td>1500372-00 Poly Rope 5.6mm (@ Roller Tube)</td>
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<td>73</td>
<td>1500373-00 Poly Rope 6.0mm (@ Lead Rail)</td>
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<td>74</td>
<td>1500382-50 Fabric Screw</td>
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<td>77</td>
<td>1500354-77 Bushing for Gudgeon (Slave Side)</td>
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<td>96</td>
<td>1500175-96 Lead Rail Connector - L.H. Complete</td>
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<td>1500501-99 Rubber Seal for Flush Mount - Black (per foot)</td>
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<td>E1</td>
<td>9700140-00 Motor Set, DMI</td>
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<td>E2</td>
<td>9800133-00 Wind Sensor V Remote - Controller Only</td>
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<td>E3</td>
<td>9800134-01 Wind Sensor V Rocker Switch</td>
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<td>E4</td>
<td>9800140-01 Double Rocker Switch, Wind Sensor V</td>
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<td>E5</td>
<td>9800151-01 Anemometer (wind cup for all sensors)</td>
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<td>E6</td>
<td>9800131-00 Wind Sensor V Remote Transmitter (White)</td>
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<td>E7</td>
<td>9800132-00 Wind Sensor V 4 Awning Remote Transmitter (White)</td>
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<td>E8</td>
<td>9800127-00 MS-1 Current-Limiting Device</td>
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<td>E9</td>
<td>9800140-01 Paddle Switch</td>
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TROUBLE-SHOOTING GUIDE

NOTE: These tips are provided for informational purposes; we recommend that the adjustments be made by an authorized service center. This guide will, however, allow you to become familiar with your awning and provide you with adequate knowledge in the event of an emergency.

PROBLEM

Lead rail is binding on side of awning casing (i.e., rail is offset from casing).

SOLUTION

Open awning about three (3) feet. Loosen the set screw on each arm at the points of connection to the lead rail. Remove both fabric set screws, located at each end of the rail. The lead rail is now ready to be shifted. Close awning to about four (4) inches and, using a rubber mallet, tap the end of the lead rail to move it over. Check for proper alignment, retighten the set screws, and replace the fabric set screws. See “Adjusting Lead Rail.”

PROBLEM

Motor end of awning box closes correctly when retracting, but opposite end does not.

SOLUTION

See “Adjusting Lead Rail.”

PROBLEM

After above adjustment, end of box opposite from motor still does not close tightly.

SOLUTION

On later-model awnings, a “pivotal” lead rail adjustment is available. (The lead rail can pivot on its connection bracket to the awning arms.) If this option is present, check that the lead rail is free to pivot on its bolt, and that the pivot angle is correct.

PROBLEM

The motor will not operate.

SOLUTION
Check that the GFI switches in the vehicle are turned on. If the coach is equipped with an awning main power switch (located inside the cabinets), check that it is turned on. The 110V motor in the G-2000 awning is for intermittent use only (4 minutes per hour) and is designed to cut out temporarily if used to the point of overheating. In this event, the motor must be allowed to cool, to provide time for its built-in circuit breaker to reset. Allow up to one hour (depending on outside air temperature) for a cool-down period. The manual crank can be used during this period.

**PROBLEM**

The motor will not operate, or will operate for 10–12 inches and then stop.

**SOLUTION**

The motor is not receiving enough amps (i.e., the inverter output is low). Check that a minimum of 10 amps is running. If not, turn on the generator or go to shore power.

**PROBLEM**

The fabric is loose when the awning is fully extended (i.e., the roller keeps turning after the awning arms have locked open).

**SOLUTION**

The motor’s OUT limits must be reset to ensure that the motor stops when the arms are fully extended and locked. See “Adjusting Motor Limit Switches.”

**PROBLEM**

The box does not close completely (i.e., the motor stops before the lead rail has closed completely into the awning casing on either end), and there is no apparent binding of the awning components.

**SOLUTION**

The awning is equipped with a DMI (manual override) motor which also has manual limit settings. The IN limit may need to be adjusted to allow the box to close tighter. See “Adjusting Motor Limit Switches.”

**PROBLEM**

As the awning is closing, the elbow of one or more arms is hanging down, preventing the case from closing.

**SOLUTION**
Open the awning about eighteen inches (18”). At the problem arm(s), loosen the two (2) large lock nuts located beside the arm connection to the casing. Locate the smaller 10mm adjustment bolt directly under the rear lock nut and rotate it slightly upward to raise the arm. Tighten lock nuts. NOTE: After the lock nuts are tightened, the arm(s) will raise slightly higher. See “Adjusting Pitch Angle.”