Girard Systems- Warranty and Freight Procedures

Return Policy

Authorization must be obtained from Girard prior to the return of any merchandise for repair, replacement or credit. The purchaser should obtain a “Return Goods Authorization” (RGA) number for tracing and warranty claim purposes. All freight for return merchandise shall be pre-paid by the purchaser. If claiming defective parts, freight incurred will be reimbursed to the purchaser. Girard will not reimburse expedited freight charges. To obtain an RGA#, contact Girard Systems / Warranty-Returns Department @ 1-800-382-8442 Monday thru Friday 7:00am to 5:00pm P.S.T. The RGA# must be clearly printed on the package being returned, and on accompanying packing slip or documents. This will expedite the claims process. Girard products are built to specific customer requirements. Therefore, new merchandise being returned is subject to prior authorization. If merchandise can be re-stocked, a twenty (20)% fee will apply against any credit due, Custom ordered powder-coated items, painted items; special order fabric and anodized parts are not returnable.

Warranty Parts and Labor Claims

Authorization for reimbursement of any repairs or parts must be obtained from Girard prior to any work performed or parts returned. An RGA#, as explained above will allow for tracking of labor claims and returned parts for credit. Girard may not require the return of some warranted parts. This will be determined when calling for an RGA#. Labor claims are processed according to labor hour guidelines and flat rate compensation based upon particular labor functions. In order to process any labor claim, a copy of a repair order supporting the claim must be provided. The repair order must include a description of labor function, labor rate per hour, any returned parts claimed, and the RGA#. Replacement parts will be sent via ground delivery at no charge to the purchaser. If warranty parts need to be expedited, the purchaser will assume that cost. If warranty parts require credit in lieu of replacement, credit will be issued to the original purchaser of the parts in the amount of the original purchase. In most cases, warranty and returned goods credits will be processed and dispersed within thirty (30) days of receiving claim paperwork or returned parts.

Freight Damage Procedure

NOTE: 5 days for concealed damage inspection upon receipt.
In the event of shortage or damage to a shipment, and or shipment has been received and accepted. Inspect the shipment and report the loss directly to the freight carrier and then to Girard Systems. If possible, take a photograph of the damage. Do not discard any packaging material. When necessary, replacement products may need to be ordered depending upon the extent of the damage or loss. Once the shipment has been received and accepted, it is the recipient’s responsibility to file a claim with the carrier if the shipment is refused, the freight carrier will return it to Girard. Please contact Girard immediately for replacements. In the event of shortage in packing, a claim must be submitted to Girard within ten (10) days of receipt of merchandise.
GIRARD SYSTEMS

Girard Systems RV PRODUCTS
WARRANTY UPDATE
Effective March 1, 2009

APPLICABLE PRODUCTS
G-1500
G-2000
AUTO-VALANCE
G-2085
G-5000
G-5100

WARRANTY DURATION
ALUMINUM HOUSING FRAME        LIMITED LIFETIME*
*Limited Lifetime warranty is applicable to the original owner and it is applicable to the Main Housing. Girard Systems warrants the Main Housing Frame to be free of defects in materials and workmanship under normal use. It is not applicable to the arms, interior and/or attachment components.
The painted finish is warranted for five (5) years and is only applicable to Girard Systems factory “powder coated” finishes (Black or White). Girard Systems does not warrant any OEM/Aftermarket custom paint or finish modifications. The Painted finish is subject to normal fading and void if proper maintenance and care has not been taken.

<table>
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<th>PARTS</th>
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PARTS/ELECTRONICS/FABRICS REPLACED UNDER A PRODUCT WARRANTY CLAIM WILL CONTINUE TO BE WARRANTED BY GIRARD SYSTEMS FOR THE REMAINING TIME OF THE ORIGINAL PRODUCT WARRANTY.

PURCHASED REPLACEMENT PARTS/ELECTRONICS/FABRICS WILL HAVE A ONE YEAR (1) REPLACEMENT WARRANTY AND A NINETY (90) DAY LABOR AND FREIGHT WARRANTY.

ALL OTHER WARRANTY TERMS, CONDITIONS AND PROCEDURES ARE THE SAME AS STATED IN GIRARD SYSTEMS PRODUCT MANUALS.

1361 Calle Avanzado     San Clemente, CA 92673     (949) 259-4000     Fax (949) 276-5500
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, OTHERTHAN 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 IN ABILITY 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.

CAUTIONS:

Girard Systems awnings may be operated in light wind and rain conditions, however, when periods of heavy rain and/or wind are expected or you leave the awning unattended, the awning should be closed. Damage caused by wind and rain is not covered by warranty.

All awnings must also be closed prior to moving the vehicle for any reason. As an extra safety precaution a visual check that the awning is fully closed is required. Damage caused by failure to comply with these instructions is not covered by warranty.
# TABLE OF CONTENTS

Owners Manual .................................................................................................................. 5
Important Operation Reminder ............................................................................................. 6
A. Opening/Extending Awning ............................................................................................ 6
B. Remote Control ............................................................................................................... 8
   *(Programming)*

Care .................................................................................................................................. 9
C. Cleaning Fabric .............................................................................................................. 9
D. RTS Remote switch Battery Replacement ...................................................................... 9
E. Remote Control Battery Replacement ............................................................................ 10

Adjustment/Repair ............................................................................................................ 11
F. Final Adjustments ......................................................................................................... 12
   *Adjusting Motor Limit Switches* .................................................................................. 12
   *Anemometer Testing* ...................................................................................................... 15
   *Adjusting Pitch Angle* ................................................................................................... 15
   *Adjusting Lead Rail* ........................................................................................................ 17

G. Anemometer Dissassembly ............................................................................................ 19
H. Replacing Motor ............................................................................................................ 19
I. Fabric Replacement ......................................................................................................... 24
J. Arm Replacement ............................................................................................................ 27

Installation Manual .......................................................................................................... 30
Product Description ............................................................................................................ 31
Tools Required .................................................................................................................... 32
Installation Sequence ........................................................................................................ 34
K. RV Wall Mount Brackets ............................................................................................... 34
L. Awning Mounting to Wall Mount Brackets .................................................................. 38
M. Anemometer .................................................................................................................. 41
   *(Hardware Installation only)*

N. Control Box and ACL Current-Limiting Device ............................................................ 42
   *(Partial Hardware Installation only)*

O. Wall Mount Switches and Switch Boxes (not provided) ............................................. 43
   *(Hardware Installation only)*

P. G-1500 Wall Mount Switch ............................................................................................ 44
   *(Electrical Installation)*
G-2000 Wall Mount Switch ............................................................................................... 46
   *(Electrical Installation)*
Remote Switch ........................................................................................................ 46
(Hardware Installation)
RemoteMotor ........................................................................................................ 46
(Electrical Installation)
Q. Awning Motor and ACL Current-Limiting Device .......................................... 48
(Electrical Installation)
R. Anemometer ..................................................................................................... 49
(Electrical Installation)
S. 1 Motor 1 Remote Control/Wireless Switch ..................................................... 49
(Initial Programming)
T. Multible Motor 1 Remote Control/Wireless Switch ........................................ 49
(Initial Programming)
U. Main Power Source ........................................................................................ 51
(Electrical Installation)
V. Remote Control ................................................................................................ 51
(Initial Programming)
W. Weather Stripping ............................................................................................ 52
(Installation)
Specification Sheet .............................................................................................. 53
Labor Function Guidelines ................................................................................... 55
Troubleshooting Guide ......................................................................................... 55
Parts List ................................................................................................................ 59
G-1500/G-2000 Illustrated Parts Breakdown ....................................................... 62
Detailed Illustrated Parts Breakdown ................................................................. 64
**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.”
   Make note that the ignition to the coach is OFF.

**A. OPENING/EXTENDING AWNING**

1. Using Remote Control (See Fig. 1)
   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”)

   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”)

   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”)

   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”)

   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)

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 (See repair and replace section):

---

FIGURE 2
REMOTE CONTROL TRANSMITTER
CARE

C. INSTRUCTIONS FOR CARE AND CLEANING OF FABRIC

To ensure longevity of fabric quality it is highly advisable to maintain a regular regiment of simply brushing off daily debris and dirt from fabric. To clean the awning rinse with water. In a separate bucket mix a mild soap in water (natural soaps are best) with a clean brush dunk into the bucket and clean the awning with sweeping motions; rinse thoroughly to remove soap. If you decide to use a liquid detergent you will need to reapply a water repellent treatment, such as 303 Hi-Tech Fabric Guard or similar product. Fabric is made from 100% acrylic fiber. (If Fabric is non-acrylic—Soltis material use liquid detergent and water) Let fabric air dry. If you need to store your fabric, keep in a dry ventilated area.

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.

STAIN SOLUTIONS FOR:

- Fruit Stain—liquid detergent/ammonia 3–6% water
- Grease(car)—volatile solvent(acetone)
- Iron Rust—oxalic or citric acids, water
- Mildew—1/2 cup of bleach and 1/4 cup of natural soap per gallon of water
- Oil—solvent (acetone)
- Paint (latex) wet—liquid detergent, water
- Paint (latex) dry—Paint, oil or grease remover
- Paint (oil or lacquer)—paint, oil grease remover
- Tree sap—turpentine, liquid detergent

REPAIR AND REPLACE

D. RTS REMOTE SWITCH BATTERY REPLACEMENT

1) Remove RTS Remote Switch following the reverse of the installation.
2) Hold RTS Remote Switch by the front allowing easy access to the rear.
3) Using small phillips screwdriver remove the two screws from the recessed cavities in either corner.
4) Carefully remove back plate by lifting directly away from front plate (See Figure 3).
5) Use standard screwdriver or similar tool to slide old battery from cradle.
6) Insert new battery with fingers, and attach back plate using reverse of the removal.
7) Reinstall RTS Remote Switch and recalibrate if needed.
E. REMOTE CONTROL BATTERY REPLACEMENT

To change battery on remote control transmitter (Fig. 4):

1) Remove back cover with screwdriver.

2) Slide battery out by pushing with screwdriver.

3) Insert new battery and close back cover.
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.
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 ACL 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. 5 callout). A 1/4 turn represents approximately 1” of awning movement. Never set outward limits so that fabric is slack after full arm extension. 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.
ADJUSTING MOTOR LIMIT SWITCHES  (CONTINUED)

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). See diagram on page 13 for reference.

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 to check retraction. Awning must retract; if not, check motor connections for proper polarity.

ADJUSTING PITCH ANGLE

Drop the awning 5" to allow for rain runoff. For adjustment, see Figures 21 and 22.

FIGURE 6
RESET FACTORY PRE-SET PITCH ANGLE

The awning comes factory pre-set with a pitch angle of approximately 20° (Fig 6), the minimum angle recommended for proper rain runoff. To increase this angle, loosen the 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 lower, counterclockwise to raise. (See Figs. 7 and 8.)
HEIGHT ADJUSTMENT OF ARMS

Tools Required:
- 19mm (3/4”) Open end wrench
- 10mm (3/8”) Open end wrench

This adjustment may be required if, as the awning Lead Rail closes into the awning casing, the ‘elbow’ of one of the arms is hanging downward, hitting the bottom of the casing. This adjustment is usually required after an arm replacement.

1) Open the awning about 18 inches.
2) At the selected arm, loosen the (2) locknuts located at the side of the upper arm connection using a 19mm (3/4”) open-end wrench.
3) See exploded view and Figure 7. Locate the smaller adjustment bolt located directly under the rear locknut that was just loosened. Place a 10mm (3/8”) open-end wrench around the bolt head, and rotate the wrench in a TIGHTEN (clockwise direction) to raise the arm. Slight rotation is all that is necessary; Likewise, LOOSENING (counter clockwise direction) the bolt will lower the arm. As this adjustment is being performed, keep in mind that after re-tightening the locknuts, the arm will rise slightly higher.
4) Tighten the (2) locknuts located on the side of the arm connection.
5) Close the awning completely, and check for proper fit.
FIGURE 8
ADJUSTMENT BOLT

ADJUSTING LEAD RAIL

FIGURE 9
PITCH OF LEAD RAIL WHEN CLOSED
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. (Fig 9 & 10)

**FIGURE 10**
**ADJUSTMENT OF LEAD RAIL CONNECTOR**

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 sides. 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.

Note: Arms will reset once awning is completely enclosed.
G. ANEMOMETER DISASSEMBLY

(NOTE: This is only for new style anemometer)

1) Remove Anemometer from aluminum base following reverse of installation instructions.
2) Holding cylindrical plastic base of anemometer use fingers to hold wind cups steady.
3) Use 7/32 socket wrench or open end wrench to remove plastic nut from top of anemometer.
4) Using gentle force pull wind cup assembly straight up off of anemometer base (See Figure 11).
   CAUTION: be careful not to bend or damage brass spindle rod as this would render the
   anemometer useless.
5) Reassemble anemometer in reverse order using new wind cup assembly in conjunction with old
   plastic anemometer base.
6) Reinstall anemometer to aluminum base.
7) Recalibrate anemometer using steps described in the installation instructions.

![Figure 11](image.png)

H. INSTRUCTIONS FOR REPLACING A MOTOR

Procedures may vary from one vehicle to the next, for the removal and replacement of motors on the
G-2000 awning. This variation, in part, is a result of different factory installation methods and
preferences on different vehicles. It may also be a result of the placement of the awning on the
vehicle, i.e. accessibility of the motor. This variation primarily affects the initial accessing of the
motor. Subsequent replacement operations are basically the same. These instructions address the
‘accessing the motor’ as a separate category for clarification purposes. Additionally, variations in the
motor style exist. The procedures are intended to be universal and inclusive of all motor types and
installations.
SECTION I ACCESSING THE MOTOR

**Beaver motor coaches:** Awning is recessed into vehicle sidewall. Awning end plate is not immediately accessible:

1) Locate the awning mounting bolts. There will be (3) sets of (6) of these, which secure the awning brackets, through to the inside of the vehicle. They are usually found inside the upper cabinets and are located directly behind the connection point of the awning arms. Only the forward set of bolts need to be accessed.

2) Loosen each bolt from the inside by removing each respective nut. Loosen the nuts only from the forward mounting bracket.

3) Using a sharp utility knife, and from outside to the vehicle, cut away 3 feet of the Silicon adhesive around the top, side, and bottom edges of the awning casing. Do this from the front of the awning only.

4) Carefully pull the right front section of the awning casing away from the vehicle to point where the entire awning end cap is accessible. Do this by either extending the awning all the way, and pulling down gently on the lead rail, this will pry awning out of the wall. Place a solid object (large flat screw driver, flat file, etc.) behind the awning casing, in front of the recess area, to hold the awning away.

5) Proceed with section II, removing the old motor.

**Safari motor coaches:** Awning is recessed into vehicle sidewall. Awning end plate is accessible through a hidden recess.

1) Locate the 2”x8” plate mounted over hidden recess directly past the front/right hand edge of the awning. Remove the plate by drilling out the (3) pop rivets that secure it to the vehicle sidewall.

2) Proceed with Section II, Removing the Old Motor.

**Surface mount installations (all other manufactures):** Awning is NOT recessed into vehicle sidewall. Awning end plate is easily accessible. Section II. Removing the Old Motor.

1) Open the awning about 3 ft. If the awning is not equipped with a manual crank override and the awning cannot be opened, please see paragraph III below.

2) Before replacing the motor, open the awning partially and put a mark on fabric guide #4 (refer to diagram on page 62) on the motor side, indication the end of the roller tube. This guide will have to be short end to the same length as the roller tube to fit the new motor. This can be done with a pair of tin snips.

3) Fully extend awning by manually cranking the awning out until the fabric starts to sag. With the awning fully extended have another person pull down on the lead rail slightly until you are able to put something behind the awning to hold it off the wall. Make sure there are no nuts on the 6 bolts that hold the awning to the wall.

4) Tape or strap each arm, about 1 ft. in from the ‘elbow’, such that the arms are locked into their position. These arms must be securely fixed against their own spring tension, such that the awning is prevented from opening further when the motor is removed. “Use this method if awning can not be fully extended”.

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5) Remove the right hand/front awning end plate by removing the (3) Phillips screw, which secure it to the awning casing (Figure 12).

6) Remove both motor bolts (Figure 13,) which fasten the motor to the motor end bracket. Take note and mark the slots from which the bolt were removed.

7) Loosen the small bolt by a couple of turns, which secures the motor end bracket to its holding bracket. Do not over-loosen or attempt to remove this bolt. Slide the motor end bracket away from its holding bracket and remove.

8) Enter into the vehicle, and locate the termination point of the motor cord. This point will be either inside junction box used for the awning switch, or will be inside the electronic box. Either can probably be found inside of an upper cabinet. The motor cord ca be identified as the WHITE cord bearing (4) wires. Take note of the point's from which each motor wire disconnects. See also wiring diagram. Disconnect complete motor cord.

9) Tape a long 'pig tale' extension to the motor cord (using string, rope, small wire, etc.) such that when the cord is pulled through, its routing is not lost. Exit vehicle and pull motor cord completely through wall.

10) Carefully pull old motor out of awning roller tube. (Figure 13) Pull motor cord out of hole in back of awning casing, and disconnect motor cord form the 'pig tail'.

11) Locate the roller tube.

Section IIa Removing the old motor if the awning cannot be opened and has no manual override.

Note: (3) people and (3) ladders will be required to perform the first portion of this procedure.

1) remove the right hand/front awning end plate and lead rail end plate by removing the (5) Phillips screws, which secure them to the awning casing.
2) Place one person in front of the rear portion of the awning. Place a second person in front of the front portion of the awning. The third person will perform the following: Remove both motor bolts which fasten the motor to the motor end bracket (Figure 13). Take note and mark the slots from which the bolts were removed. The awning will now begin to extend. The first and second persons should allow the awning to extend about 3 ft. At this point, each arm must be taped. Or strapped, about 1 ft. in from the 'elbow', such that the arms are locked into their position. These arms must be securely fixed against their own spring tension, such that the awning is prevented from opening further.

3) Proceed with step #3 of Section II. Removing the Motor.

SECTION III. INSTALLING THE NEW MOTOR

Note: If the new motor that is being installed is of a different type of style from that being replaced, please review Section IV, Motor Variations and Section V, Conversion to Manual Override before proceeding with this section.

1) With the new motor in hand, align the notch in the black drive-disk at the far end of motor with the indentation in the awning roller tube. Slide motor all the way in. Likewise, turn the black disk at the front of the motor such that its notch also lines up with the indentation in the roller tube. (See Figure 13.)

2) Feed the motor cord completely through the hole in the back of the awning casing. Tape this cord to the ‘pig tale’ that was previously brought through the cord entrance.

3) Ensure that the awning roller tube is still seated, and lodged into its end bracket at the far end of the awning.

4) Rotate the motor and roller tube assembly such that the motor limit switches are accessible and at an approximate 6:00 o'clock position (from right end viewing) and that the manual override mechanism has proper downward clearance.

5) Slide the motor end bracket back into the awning casing and over the ‘dove tale’ connection of its holding bracket. Tighten securely the small bolt that secures the two brackets together.

6) Adjust the roller tube/motor assembly such that the threaded holes in the metal bracket of the motor line up with the (2) marked hole locations of the motor end bracket.

NOTE: Do not use center hole of motor casing to pry, to align, to replace motor bolts. This will cause damage to limit switches. Only pry from outer part of motor casing.

7) Insert the (2) motor bolts through the end bracket and through the threaded plate of the motor. Tighten bolts securely.

8) Replace awning end cap.

9) From inside the vehicle, pull the ‘pig tale’ that was fastened to the end of the motor cord, and feed the new motor cord all the way in.

10) Wire the new motor cord as previously noted, and/or refer to either the wiring diagram (for wind sensor operation) or the switch-wiring diagram, for direct switching to awning.

11) Remove the taping or trapping forms the arms that was placed to prevent movement. The awning will remain in that position.
12) Test for proper functioning of the new motor connections by operating the awning switch or the wind sensor switch. The upward arrows retract. The downward arrows extend.

13) Blow or spin anemometer cups to check for retraction (Important! Awning must retract – if not, check motor connections for proper polarity.)

14) After a motor has been replaced, it is extremely important that the motor limit switches be adjusted such that the motor turns off at the exact point (only if ACL current limiting device is not compatible) that the awning box closes. Likewise, the motor should turn off at the exact point the awning arms reach full extension and ‘click’ into place. Please see section entitled Adjusting Motor Limits Switches.

SECTION IV. CONVERSION TO MANUAL OVERRIDE

If a non-manual override motor is being replaced with a manual override motor, follow all procedures as outlined in:

Section I, Accessing the Motor
Section II, Removing the Old Motor

Then – Before beginning Section III, Installing the New Motor, please complete the following:

1) Locate the fabric guide rail on the inside front of the awning casing, and slide out to the right, away from casing, 3 to 4 inches.

2) Using a hacksaw, cut off 2 inches of this fabric guide rail if the awning is surface mounted. Use tin snips to cut off the 2 inches of the fabric guide rail if the awning is recessed.

3) Slide the fabric guide rail back in completely.

4) Proceed with step #1, of Section III, Installing the New Motor.

And Then:

After installing the new motor and completing steps #1 through #4, and as you are testing the motor and wiring installation in step #12, complete the following:

1) Stop the awning lead rail just before the box closes.

2) The awning lead rail must have a clearance notch that will clear the manual override mechanism, as the lead rail closes into the awning casing.

3) If this hole is not present, proceed in cutting a hole 1-3/4” wide x 2” deep into the lead rail. A plastic sleeve is available to cover the edges to this hole and can be ordered under P/N 1500275-54

4) Proceed with steps #12 and #13.

IMPORTANT NOTE: CHECK FOR CORRECT FUNCTIONS BY SPINNING THE ANEMOMETER- AWNING MUST RETRACT WHEN ANEMOMETER IS SPUN!
I. FABRIC REPLACEMENT

RECESSED AWNINGS:

This fabric changing procedure is recommended for use on G-2000 Awnings in which the awning has been ‘recessed’ into the vehicle sidewall. This is typical with both ‘Beaver’ and ‘Safari’ Motor Coach installations. If the awning has not been recessed and has been ‘surface’ or ‘flush’ mounted onto the vehicle side, please see ‘Fabric Replacement Method #2, Surface mounted awnings.’ In either case, the old awning fabric can be removed without the need to remove the complete awning, or the awning roller tube. All awning hardware will remain in position.

NOTE: this procedure requires the use of the awning manual crank. If no manual crank is available, the motor limit switches must be used to create the settings. If this case, refer to ‘Adjusting Motor Limit Switches’.

REMOVING THE OLD FABRIC:

1) Open the awning fully until the arms ‘click’ into place. Using the manual crank, (use the motor limit switches and adjust, if no crank is available) continue to rotate the roller tube until all the fabric is unrolled and the ‘C’ groove of the roller tube is accessible.

2) Remove the (4) four fabric set screws (two are located on the lead rail and two are located on the roller tube. see Figure 14 & 15)

3) Remove the left hand lead rail end cap. Shift the fabric from the roller tube ‘C’ groove by sliding it along to the left hand end of the tube. At this point the white poly rope should be accessible from the end of the fabric and roller tube.

4) Using a screwdriver, bend the Poly rope down and outward such that it can be gripped with a pair of pliers. Pull the poly rope completely out of the roller tube.

5) The remaining fabric will now be free and fall from the roller tube.

6) Slide the old fabric out of the left hand side of the lead rail.

7) Preserve the Poly rope that was removed from the fabric at the roller tube.

FIGURE 14 REMOVAL OF END PLATE (LEFT SIDE)

FIGURE 15 REMOVAL OF FACE PLATE AND POLY ROPE
INSTALATION OF NEW FABRIC

IMPORTANT NOTE: Replacement fabrics are shipped in a rolled condition. The front edge of the fabric will be marked ‘lead rail end-up’, and will be the leading edge of the roll as you receive it. The hems will always face downward as the fabric is installed. The other end of this fabric will have mounted, inside of the hem, a small Poly rope. This end will be mounted into the roller tube. The Poly rope that was removed from the old fabric at the roller tube will get used for this installation.

1) Tape the sharp edges of the ‘C’ channel (fabric channel) of the lead rail such that the fabric will slide and enter freely without snagging or tearing.

2) Slide the white Poly rope, that was removed from the old fabric, completely into the open, front hem of the new fabric (marked Lead Rail). The second Poly rope from the old fabric will not be used in this installation.

3) The new fabric will need to be unrolled and inserted into both the lead rail, and the roller tube at the same time. This is done in small even increments about 1-2 feet per pull. You will have to manipulate the fabric into the roller tube, as it will be a tight squeeze to fit the fabric in because the limited space to work with. Insert carefully as to not snag or tear fabric. Ensure that the seams are facing downward. Continue until entire length of fabric has been fed into both roller tube and lead rail.

4) Slide the fabric back and forth inside the roller tube to assure the entire length of hem has been properly inserted. Center the fabric on the roller tube, and square up fabric assembly at lead rail, i.e., remove wrinkles. Insert self-taping screws on both ends of the fabric into roller tube. The fabric will self-center on the leader rail.

5) Slowly begin to roll the fabric up, onto the roller tube, using the manual crank. (The motor limit switches will have to be used, and adjusted if no manual crank is available). Roll the fabric from the bottom of the roller tube. (See Figure 14)

6) Using two people, carefully stretch the fabric from end to end during the first few revolutions of the roller tube, to assure the fabric is rolling straight and true. Continue to slowly roll the fabric onto the tube until the fabric is taught and in its ‘full extension’ mode against the locked, fully extended arms. Continue to roll the fabric in, this time using the awning switch and motor. Watch carefully to assure the fabric rolls straight, and close the awning completely.

7) Once again, open awning about 18 inches. Pull the leading edge if the fabric taught, from both ends, and replace both fabric set screws. Note: These screws should be located No Further than ¾” from the edge of the fabric. Re-drill fabric set screw holes. If necessary with a 1/8” dia. drill bit, to maintain this distance.

8) Replace lead rail end cap.

9) After a fabric replacement, it may be necessary to make minor adjustments to the motor limit switches to assure that the awning motor stops exactly when the box closes (unless using ACL currant limiting device). Likewise, it is important that the awning motor stops exactly when the awning is extending and the arms ‘snap’ into their full extension position. Please see ‘Adjusting Motor Limit Switches’

Important Note: The high torque motor which is supplied with the G-2000 awning is designed to run 4 minutes/hour. The motor has a built-in circuit breaker which is designed to activate if the motor overheats. The cool down time can be to 1 hour, depending on outside temperature.
During this fabric installation and adjustment process, please use the power of the motor sparingly, as to not create an overheat condition.

**FABRIC REPLACEMENT – PROCEDURE #2, SURFACE MOUNTED AWNINGS:**

This fabric changing procedure is recommended for use on G-2000 awnings in which the awning has been ‘surface’ or ‘flush’ mounted to the vehicle side wall. If the awning has been ‘recessed’ into the vehicle side, please see ‘fabric replacement method #1, recessed awnings’. In either case, the old awning fabric can be removed without the need to remove the complete awning, or the awning roller tube. All awning hardware will remain in position. NOTE: Both procedures require the use of the awning manual crank in portion. If no manual crank is available, the motor limit switches must be used to create the settings. If this is the case, see ‘Adjusting Motor Limits Switches’.

**REMOVING THE OLD FABRIC:**

1) Open the awning fully until the arms ‘click’ into place. Using the manual crank, (use the motor limit switches and adjust, if no crank is available) continue to rotate the roller tube until all the fabric is unrolled and the ‘C’ groove of the roller tube is accessible.
2) Remove the (4) four fabric set screws (two are located on lead rail two are on the roller tube.)
3) Remove both lead rail end caps and awning end caps. (See Figure 14 and 15) Using two people, carefully slide the entire fabric out from the left end of the roller tube (make sure the Poly rope clears the support bracket for the roller tube) and from the end of the lead rail. Remove both Poly ropes form the forward and rear hems of the old fabric. This will be used on the new fabric installation.

**INSTRUCTIONS OF NEW FABRIC**

IMPORTANT NOTE: Replacement fabrics are shipped in a rolled condition. The front edge of the fabric will be marked ‘lead rail end-up’, and will be the leading edge of the roll as you receive it. The hems will always face downward as the fabric is installed. The other end of this fabric will have mounted, inside of the hem, a small Poly rope and discard.

1) Insert one of the (2) larger Poly ropes (that was removed form the old fabric) into the front hem of the new fabric. Carefully unroll the new fabric, and insert the second larger Poly rope (that was also removed from the old fabric) into the rear hem of the new fabric. This end will be mounted into the roller tube.
2) Tape the sharp edges of the ‘C’ channel (fabric channel) of the lead rail such that the fabric will slide and enter freely without snagging or tearing. Tape also all sharp edges of the awning casing and the roller tube support bracket.
3) Insert the leading edges of the new fabric into the fabric grooves of both the left ends of the lead rail and the roller tube. This function is most safely and easily performed with four people. Carefully slide the new fabric down both the lead rail and roller tube simultaneously. Two people can pull the front of the fabric, as two people are holding the excess fabric and feeding the
rear of the fabric into the roller tube and lead rail.

4) Center the fabric on the roller tube, and square up fabric assembly at lead rail, i.e., remove wrinkles. The fabric will self-center on the lead rail. Insert self taping screws on both ends of the fabric into roller tube (see Figure 14)

5) Slowly begin to roll the fabric up, onto the roller tube, using the manual crank. (The motor limit switches will have to be used, and adjusted if no manual crank is available). Roll the fabric from the bottom of the roller tube.

6) Using two people, carefully stretch the fabric from end to end during the first few revolutions of the roller tube, to assure the fabric is rolling straight and true. Continue to slowly roll the fabric onto the tube until the fabric is taught and in its 'full extension' mode against the locked, fully extended arms. Continue to roll the fabric in, this time using the awning switch and motor. Watch carefully to assure the fabric rolls straight, and close the awning completely.

7) Once again, open awning about 18 inches. Pull the leading edge if the fabric taught, from both ends, and replace both fabric set screws. Note: These screws should be located No Further than 3/4” from the edge of the fabric. Re-drill fabric set screw holes. If necessary with a 1/8” dia. drill bit, to maintain this distance.

8) Replace lead rail end cap.

9) After a fabric replacement, it may be necessary to make minor adjustments to the motor limits switches to assure that the awning motor stops exactly when the box closes (unless using ACL current limiting device. Likewise, it is important that the awning motor stops exactly when the awning is extending and the arms ‘snap’ into their full extension position. Please see ‘Adjusting Motor Limit Switches’

Important Note: The high torque motor which is supplied with the G-2000 awning is designed to run 4 minutes/hour. The motor has a built-in circuit breaker which is designed to activate if the motor overheats. The cool down time can be to 1 hour, depending on outside temperature. During this fabric installation and adjustment process, please use the power of the motor sparingly, as to not create an overheat condition.

J. REPLACING A DAMAGED ARM

Tools Required:

- 19mm (3/4”) Open end Wrench
- 5 mm (3/16”) Allen Wrench

This procedure should be followed when one or more of the hinging, spring loaded arms needs to be replaced. There are no repairable parts inside of these arms, therefore, if the ‘elbow’ joint of the arm has broken, the entire arm should be replace.
Important Note: Extreme CAUTION should be used when working with these arms. They are under heavy spring tension. As replacement parts, they are shipped in a folded and banded condition. Always use two people to un-tape and unfold each arm. Arms should always be handled and installed in the folded condition until ready to fasten to lead rail.

---

1) Slowly and carefully open the awning a few feet. If the elbow of the arm in question is broken, place a large rag of cloth around this elbow. Pay particular attention to the arm that is broken, as it may have to be (away from the awning fabric).

2) Cut stainless steel cable at elbow to release tension than proceed with arm removal otherwise remove 17mm nut at lead rail connection disconnect arm and fold and tape it folded being vary carefully because arm is still under tension.

3) At the front of the arm to be removed; at the lead rail, remove the 17 mm nut and washer and retain these parts for the new arm.

4) At the upper end of the arm, at the awning casing, remove both lock nuts and washers or the bolt and nut.

5) Remove the forward most bolt form the arm and shoulder connection. Use this bolt for the new arm installation if this bolt was not provided with the new arm. Hold the bottom pitch adjustment bolt.

6) Into position with a 19mm (3/4") open end wrench, and proceed by carefully sliding the arm and remaining bolt away from the shoulder.

7) Do not un-band new arm until fastened to shoulder in awning casing.
8) **If the arm you are replacing has a fixed bolt** insert the arm into the shoulder ensuring that the fixed bolt on the arm goes through the pitch adjustment assembly, through the square tube, and though the washer, which are components inside the shoulder. Insert the front, loose bolt and nut.

If the arm you are replacing does not have a fixed bolt use the bolt supplied with the arm to slide through the square tube for the shoulder support then through the pitch adjust assembly and into the arm connection plate. Insert the front, loose bolt and nut.

9) Proceed with un-banding arm very carefully as this arm is under heavy tension than fasten to lead rail refer to #8 procedure.

10) Attach the front of the arm to its connection point at the lead rail by replacing the pivot pin from the top, and securing it with the retaining ring of exploded view). Then slide into the lead rail connection and replace the nut and washer. Tighten both lock nuts, one turn from being tight, at the upper end of the arm. Adjust the pitch angle of the arm to match the other arms by rotating the head of the pitch adjustment screw. Rotate this screw in a clockwise direction (looking form the bottom up) to lower the arm. Likewise, rotating this screw in a counter clockwise direction will raise the arm. Tighten both lock nuts. See also; adjusting the Pitch Angle, in the 'Adjustment' section of this manual (Figure 16).

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**FIGURE 16**

**PARTS BREAKDOWN OF LATERAL ARM**
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.
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 control box is packaged in a weatherproof enclosure and includes watertight strain-relief fittings for wires entering the box. Installation is quick and easy and includes all necessary cabling. The Wind Sensor V with Remote uses a hand-held radio transmitter which features up, down, and stop buttons.

The G-1500 Door System is a shorter version of the G-2000 Automatic Lateral Arm Awning System.
TOOLS REQUIRED

- Electric drill; 1/8", 5/16", 7/16" drill bits (for pilot hole - 1/8" x 8" long)
- Open-ended wrenches: 10mm, 17mm, and 19mm
- Allen wrenches: 4mm and 5mm
- Socket wrench (7/16" deep socket)
- Measuring tape
- Snap (chalk) line
- Phillips screwdriver
- Flathead screwdriver (small)
- Keyhole saw
- Two (2) tubes silicone
- Two (2) ladders

ALL ELECTRICAL WORK MUST CONFORM TO
APPLICABLE ELECTRICAL CODES AND STANDARDS

Turn off power before beginning electrical work.

Refer to your RV’s wiring diagram for placement of existing wires before drilling or beginning awning installation.

Be sure that placement of controls, cables, and/or wires does not impede, crimp, or otherwise obstruct continuity of electrical current.

Prior to beginning installation sequence and while awning is on the ground, open awning approximately eight inches (8”) using hand crank to confirm awning arm location. (See Fig. 17)

IMPORTANT NOTE: When proceeding to Section K, note that each awning arm must have a wall mount bracket directly behind it for proper mounting.
Insert end of crank into manual override receiver, located at right side of awning. Push in and rotate handle one-quarter turn clockwise. Let handle drop approximately one-half inch (1/2”). (Handle should lodge in receiver and awning may now be extended/opened.) Extend awning approximately twelve inches (12”) by turning handle clockwise; confirm that awning arm is in proper location; retract/close awning by turning handle counterclockwise. (See Fig. 19 for locations specifications.)
INSTALLATION SEQUENCE

4.5 hours (based on two installers)

K. RV WALL MOUNT BRACKETS

1. Wall mount brackets have been assembled to awning for shipping purposes. (See Fig. 19 for quantities.)

2. Remove the three (3) brackets from back of awning using a 5mm Allen wrench to loosen the set screws (one on the bottom of each bracket). (See Fig. 18).

FIGURE 18

SLIDE LOCK REMOVAL FROM BRACKET
Back Plate

Top View of Awning

Placement of Brackets for Awnings 10° Through 12°

Back Plate

Top View of Awning

Placement of Brackets for Awnings 14° Through 17°

Back Plate

Top View of Awning

Placement of Brackets for Awnings 18°

Back Plate

Top View of Awning

Placement of Brackets for Awnings 19°

Back Plate

Top View of Awning

Placement of Brackets for Awnings 20°

Back Plate

Top View of Awning

Placement of Brackets for Awnings 22°

Two arms for awnings 17°11' or less, two right arms, one left for awnings 18° or larger. Brackets should be placed directly behind the arms of the awning.

FIGURE 19
G-2000 BRACKET POSITIONING
3. Move slide locks along awning channel until they clear brackets. The brackets will then release and can be removed from awning.

4. Using brackets as templates, measure and mark bracket hole locations so placement lies:
   a. directly behind arm locations of awning casing; and
   b. parallel to vehicle body features, as high as possible on vehicle (not less than 5/8" from bottom of drip rail) so awning lip will clear (Fig. 19 or Fig. 20).

5. Snap a string (chalk) line along the side of the vehicle to ensure horizontal accuracy of the mounting brackets. Minimum 5/8" from bottom of the drip rail (Fig. 21).
6. Measure location inside RV for placement/attachment of backing plate, washers, and nuts. Consider accessibility within vehicle; avoid all electrical lines.

7. Pre-drill pilot holes using 1/8" bit (8" long). Inside RV, verify placement and location of backing plates to be installed.

8. Pre-drill six (6) 7/16" diameter holes per bracket through side of RV.

9. Drill a 7/16" hole for the awning motor cable to enter RV near the electronics.

10. Apply a liberal amount of silicone around each hole prior to installing brackets.

11. Install the two (2) outer brackets first, and the center (small) bracket (if required) last with six (6) 7/16" diameter (carriage) bolts, washers, and lock nuts, along with two (2) backing plates per bracket (see Fig. 23).

12. Fasten brackets with 7/16" carriage bolts backing plate’s washers and nuts (see Fig. 23).

13. Silicone top edge and both sides after tightening bolts.
I. MOUNTING AWNING TO WALL MOUNT BRACKETS

1. Lift awning into position for placement onto brackets.

   a. While ladders are generally sufficient, you may use a scaffold or a forklift to raise awning into position (Fig. 24).
   
   b. If using forklift, lift from center line of awning (“CL” on Fig. 24) to maintain product balance while elevating.
FIGURE 24
MOUNTING AWNING TO WALL MOUNT BRACKETS
2. Place awning onto brackets, ensuring the two (2) grooves in back of awning fall over the two (2) lips on brackets (Fig. 25) while feeding awning motor cable through previously drilled hole.

3. Seal motor wire with silicone.

4. Secure awning by moving slide locks (moved in step A-3) along bottom awning track until centered under respective brackets, directly below arm connection.

5. Tighten set screws into slide lock of each mounting bracket.
M. ANEMOMETER
(Hardware Installation Only)

1. Place anemometer on roof of vehicle in position shown (Fig. 26), ensuring that base is pointing toward front of RV. Location should be
   a. on and parallel to roofline of RV; and
   b. near awning to ensure wind speed is measured at the awning. Guard against installing anemometer near obstructions (air conditioner, storage pod, etc.).

2. Mark a hole location for cord insertion into RV, with placement directly below where cord exits bottom of anemometer.

FIGURE 26
ANEMOMETER (WIND SENSOR) PLACEMENT ON ROOF OF RV
3. Drill one 3/8" hole for anemometer wire.
4. Pull anemometer cord back through original packaging hole until cord dangles straight down from exit point of anemometer body (see Fig. 26).
5. Seal original packaging hole with silicone.
6. Feed anemometer cord (containing blue and brown wires) through hole in roof, leaving three to four inches (3–4") of slack, and secure anemometer with sheet metal screws.
7. Seal top footprint of anemometer after securing it to roof.

N. CONTROL BOX AND ACL CURRENT-LIMITING DEVICE
(Partial Hardware Installation Only)

1. Determine mounting location for hardware referenced above. The back wall of a cabinet is ideal, as both awning motor and anemometer cords will generally enter a cabinet from outside and the back wall provides a solid mounting surface.
2. Use screwdriver to remove faceplates of both control box and ACL current-limiting device (Figs. 27 and 28).

![Figure 27 Control Box](image1)

![Figure 28 ACL Current-Limiting Device](image2)

3. Mount the control box using wood screws.
4. Remove two (2) rubberized knockouts on each side of ACL housing.
5. Use screws to mount the ACL current-limiting device BELOW control box.

0. **SWITCH BOXES (NOT PROVIDED)**
   (Hardware Installation Only)

![Diagram of G-2000 Rocker Switch and G-1500 Paddle Switch](image)

**FIGURE 29**
**WALL MOUNT (ROCKER/PADDLE) SWITCH WITH SWITCH BOX (NOT PROVIDED)**

1. Determine mounting location, preferably near existing RV switches, for switch box (not provided) to house wall mount switch.

2. Cut a rectangular hole for switch box; use a 3/8" drill to start hole and a keyhole saw to cut hole to size.

3. Remove faceplate from switch box, then insert and mount box per instructions therein.
4. Ten feet (10') of gray low-voltage cable (black and red wires within) is provided to make connection with wall mount switch. Connect black and red wires as follows:
   a. Hold wall mount rocker switch in vertical (up and down) position with black dot at bottom.
   b. Hold wall mount paddle switch in vertical (up and down) position with the ground screw on the bottom left-hand side.
   c. Rotate wall mount switch to reverse side (still in vertical position) and connect cable wires, black above red, to the two terminals on back of switch.

5. Install wall mount switch into switch box from front (pulling wiring through to back) using screws provided.

6. Install switch box faceplate using screws provided.

**P. G-1500 WALL MOUNT (PADDLE) SWITCH**  
(Electrical Installation)

1. Run wall mount paddle switch cable wiring from switch box to junction box.
   a. Insert all the wires through wiring guide holes at bottom of junction box.
   b. Connect wires as follows:
      1) Brown wire (B1): from paddle switch to black wire from Somfy motor.
      3) Black wire (L1): from paddle switch to black wire from main power source.
      4) White wire: from Somfy motor to white wire from main power source.
      5) Green ground wires (3): connect wires from switch box, Somfy motor, and main power source to each other, ground to junction box, and then secure all connections with pigtail.

(See Wiring Diagram, Fig. 31)
NOTE

INSTALLATION OF WINDSENSOR V CONTROL BOX
For WINDY control box see next page (45A)

FIGURE 30
G-2000 AUTOMATIC LATERAL ARM AWNING SYSTEM WIRING DIAGRAM
NOTE

For WINDSENSOR V see previous page (45)

INSTALLATION OF WINDY CONTROL BOX

For windspeed adjustments:
15 M/S = 34 miles/hr
30 M/S = 67 miles/hr

NOTE:
For Left Hand Motor Configuration Reverse Motor Wires Black to Red (Up) Red to Black (Down)

FIGURE 30
G-2000 AUTOMATIC LATERAL ARM AWNING SYSTEM WIRING DIAGRAM
P. **C-2000 WALL MOUNT (ROCKER) SWITCH**

*(Electrical Installation)*

1. Run wall mount switch cable wiring from switch box to control box:
   a. Insert black and red wires through wiring guide holes at bottom of control box.
   b. Connect wires to first and third terminals (counting from bottom to top) in control box, located just to the right of “Low Voltage Switch” label (see bottom center portion of Wiring Diagram, Fig. 30).

P. **REMOTE SWITCH**

*(Hardware Installation)*

1. Determine mounting location out of reach of small children or accidental contact. Be sure there is no wiring behind mounting screws.
   a. Place remote control mounting bracket/cradle into position and mount using screws and anchors provided (Fig. 34).

P. **REMOTE MOTOR**

*(Electrical Installation)*
1. Insert all the wires through wiring guide holes at the bottom of branch box.

2. Connect wires as follows:
   a. Black wire (L1): from motor to black wire from main power source.
   b. White wire: from motor to white wire from main power source.
   c. Green ground wires (3): connect wires from branch box, motor and main power source to each other, ground to branch box and then secure all connections.

   (see bottom center portion of Wiring Diagram, Fig. 32).

![Wiring Diagram](image)

**FIGURE 32 REMOTE MOTOR WIRING DIAGRAM**

Hz Operator wiring

**NOTE:** All electrical work must comply to all Rvina codes and national electrical codes.

1. It is recommended that provisions be made to cut power individually when wiring Hz operators.

   *(This can be in the form of an in-line OFF/ON switch. The ability to cut the power to each motor individually is required to easily program the motor).*

**NOTE:** Wiring Diagram of the G-2000 is referred to throughout balance of Installation Manual.
2. While cover is off control box, take specific note of wind speed setting (Fig. 33 callout, “Wind Adjustment”). The arrow should be pointing at the 3:00 position (factory pre-set at 22 mph). To adjust the pre-set wind speed, rotate the dial to the preferred setting. The minimum setting is 12 mph; maximum setting is 31 mph. GIRARD SYSTEMS STRONGLY RECOMMENDS NOT SETTING THE DIAL OVER 26 MPH. DISREGARDING THIS WARNING MAY VOID WARRANTY.

FIGURE 33
CONTROL BOX (INTERNAL) WITH WIND SPEED SETTING DIAL

Q. AWNING MOTOR CORD AND ACL-6 CURRENT-LIMITING DEVICE
   (Electrical Installation)

1. Take end of awning motor cord wire(s) and cut off a portion long enough to connect the
ACL current-limiting device and the control box.

2. Use remaining motor cord wiring to connect to ACL device (see Wiring Diagram, Fig. 30). Feed motor cord wires (white, red, black, and green) through one of ACL knockout holes and connect to red block with respective color to the input terminals.

3. Connect cut-off portion of awning motor cord to brown block ACL device as shown on Wiring Diagram.

4. Using other end of cut-off portion, connect wires from ACL device through wiring guide holes to control box as shown on Wiring Diagram.

5. Motor must be wired to come on when anemometer is activated. See Section M for testing instructions.

R. ANEMOMETER
(Electrical Installation)

1. With anemometer cord already fed into RV, insert anemometer wires (blue and brown) through wiring guide holes at bottom of control box and connect as shown on Wiring Diagram (Fig. 30).

S. 1 MOTOR 1 REMOTE CONTROL/WIRELESS SWITCH (Initial Programming)

1. The Motor will be in “Factory Mode” right out of the box when power is connected. To prepare the motor for programming, press the transmitter UP and DOWN buttons simultaneously until motor jogs forward and back.

2. Hold the transmitter within 10 feet of the motor and press the Up button. If the motor rotates in the Up direction, move to step 4 programming.

3. If the motor goes down instead of up, press and hold the stop button until the motor bounces forward and back. Confirm the UP button now makes the awning go up.

4. Hold the transmitter within 10 feet of the motor head, Press and hold the program button (about 1 second) until the motor jogs forward and then back. Transmitter Range will now be approximately 100 feet.

5. You can now proceed to the up and down limit settings.

T. MULTIBLE MOTORS · 1 REMOTE CONTROL/WIRELESS SWITCH
(Initial Programming)

Successful programming is accomplished by programming one awning at a time. To prevent error you must make sure that the power is OFF to all previously programmed awnings, before moving to the next.
NOTE: Before moving to the next awning disconnect power to each previously programmed awning.

1. Turn power ON to the first awning you wish to program.

2. Make sure you have both the remote control and wireless switch in hand.

3. Using remote control, press the gray channel selector to set sequence. (i.e., first awning should be indicated by the first light, second awning by second light etc.). The corresponding LED light will blink for three (3) seconds indication channel.

4. Press the transmitter UP and DOWN buttons simultaneously until the motor jogs forward and back.

5. Hold the remote within ten feet of the motor and press the UP button. If the awning moves in the UP direction move to step 7.

6. If the awning goes down instead of UP, press and hold the stop button until the motor jogs. Confirm the UP button now makes the awning retracts.

7. Using the remote control confirm you are on the proper channel then press and hold the program button on the back of the remote. Awning will jog indicating correct programming.

8. Select the channel you just programmed with the remote control. Press and hold the program button on the back to the remote control again – until motor jogs. Immediately find the same channel on your wireless switch using the set button. Then push and hold program button on the side of the wireless switch. Motor will jog confirming programming.

9. Select the channel you just programmed with the remote control. Again press and hold the program button on the back of the remote control until the awning jogs.

10. Select the ALL Channel the remote control (all LED’s light up). Press and hold the program button on the back to the remote control. Awning will jog confirming group operation.

11. Repeat steps 9-10 using the wireless switch.

12. The remote control and wireless switch are now programmed for individual or group control.
U. MAIN POWER SOURCE  
(Electrical Installation)

1. Wire main vehicle power into control box as shown on Wiring Diagram (wiring not provided).
2. Turn on main power.

V. REMOTE CONTROL  (Initial Programming with WINDSENSOR control box)

1. Press the Programming Button (PROG) of the receiver located in control box (see Fig. 34, 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. 34) 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.

NOTE: See next page (51A) for programming with WINDY control box
(Initial Programming with WINDY control box)

1. To prepare the control for programming, press the transmitter UP and DOWN buttons simultaneously. (5 seconds)

2. Press DOWN button. If the awning moves in the down direction, move to step 4.

3. If the motor goes up instead of down, press and hold the STOP button (5 seconds): This will change the direction of rotation.

4. Hold the transmitter within 10 feet then press and hold the program button on the back side of the transmitter (about 2 seconds). Transmitter range will now be approximately 100 ft.

NOTE: The WINDY control has a lock out period of 12 minutes after a retract command has been given by the wind sensor. The awning is not functional during this period of time.
V. **WEATHER STRIPPING**

(Installation)  *Note: This installation does not apply to awnings inset into the vehicle side.*

1. Trim weather stripping to length of awning. To achieve optimum aerodynamics, do not allow any overhang of weather stripping.
2. Make small cut in weather stripping so it fits around awning motor cord.
3. Apply generous beads of silicone where indicated in (Fig. 35).
4. Push firmly into place.

![Diagram of weather stripping installation](image)
SPECIFICATION SHEET
G-2000/G-1500

FIGURE 36
G-2000 AWNING CASE DIMENSIONS (EXTERNAL)

FIGURE 37
G-1500 AWNING CASE DIMENSIONS (EXTERNAL)

I. 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. 12'0" Awning - 116 lbs.
   b. 18’0" Awning - 172 lbs.
   c. 19’8" Awning - 188 lbs.
   d. 21’8" Awning - 208 lbs.
   e. 22'11" Awning - 220lbs.

4. Fabric
   a. 100% Woven Acrylic

II. ROLLER TUBE

1. Diameter - 3"
III. 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

IV. 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') 

V. 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

VI. CONTROL BOX SPECIFICATIONS
1. Input: 120 VAC - 50/60 Hz
2. Output: 120 VAC - 50/60 Hz; 1 phase; 3.0 FLA; 0.1 HP

VII. REMOTE CONTROL TRANSMITTER
1. Single Frequency - 433 Mhz
2. Lithium Battery - 12V/23amp
3. Frequency Range - 45 ft.

VIII. REMOTE RTS SWITCH
1. Single Frequency - 433 Mhz
2. 3V Lithium Battery - 12V/23amp
3. Frequency Range - 65 ft.
G-2000 WARRANTY LABOR HOUR GUIDELINES

<table>
<thead>
<tr>
<th>LABOR FUNCTION</th>
<th>FACTORY APPROVED LABOR HOURS</th>
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<tbody>
<tr>
<td>Complete awning replacement, surface mount</td>
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<tr>
<td>Complete awning replacement, recessed mounts</td>
<td>4 Hours</td>
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<tr>
<td>Fabric replacements, surface mounts</td>
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<tr>
<td>Fabric replacements, recessed mounts</td>
<td>2 Hour</td>
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<tr>
<td>Motor replacements, surface mounts</td>
<td>2 Hours</td>
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<tr>
<td>Motor replacements, recessed mounts</td>
<td>3.5 Hours</td>
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<tr>
<td>Lateral arm replacement (per arm)</td>
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<td>2 Hours</td>
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<td>Motor limit adjustment</td>
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<td>Wind sensor anemometer replacement</td>
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<td>ACL current limit replacement</td>
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<tr>
<td>Wind sensor controller replacement</td>
<td>30 Minutes</td>
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<tr>
<td>Wind sensor controller re-programs</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>Remote motor/remote switch/remote transmitter re-program</td>
<td>20 Minutes</td>
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<td>Wind sensor wall switch replacement</td>
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<tr>
<td>Rubber seal replacement</td>
<td>1 Hour</td>
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Totals are figured at flat rate compensation based upon applicable service rate per hours. Authorization must be obtained before beginning repairs. Claims require parts to be returned prior to payment. If components are found not defective there will be a 20% restocking fee. Warranty Guidelines do not cover breakage. All warranty parts will be shipped FedEx ground. Contact Girard Systems - Warranty with questions or concerns about labor hour’s guidelines or labor functions (800) 382-8442.

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 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.”
## PARTS LIST

### G-2000 AUTOMATIC AWNING/G-1500

### DOOR AWNING

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<td>1500312-57</td>
<td>Gliding Angle with Bolt and Nut</td>
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<td>1500313-57</td>
<td>Fabric Guide Rail - 19' 8&quot;</td>
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<td>Fabric Guide Rail - 21' 8&quot;</td>
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<td>Fabric Guide Rail 22' 11&quot;</td>
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<td>Poly Rope 5.6 mm (@ Roller Tube)</td>
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<td>Poly Rope - 3'16 Black - for Recessed Awnings</td>
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<td>Bushing for Gudgeon (slave side)</td>
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<td>1500320-57</td>
<td>Square Tube for Shoulder Support</td>
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<td>1500321-57</td>
<td>Bolt for Arm Height Adjustment</td>
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<td>Adjusting Block for Arm Height Adjustment</td>
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<td>Rubber Seal for Flush Mount - White (per foot)</td>
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<td>Girard Logo</td>
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**MOTORS & ELECTRONICS**

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<td>9722525-00R</td>
<td>G-1500 525 Remote</td>
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<td>9800114-01</td>
<td>Wind Sensor II Switch</td>
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<td>Wind Sensor II &amp; V Compression Fitting (each)</td>
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<td>Wind Sensor II Remote Transmitter (Black)</td>
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<td>Wind Sensor V w/Remote Control Kit</td>
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<td>Wind Sensor V Remote - Controller Only</td>
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