GG750 AWNING

OWNER'S MANUAL

GIRARD SYSTEMS®

WARNING

To prevent the motor from overheating do not exceed 4 minutes of operation per hour.

Girard Systems awnings may be operated in light wind and rain conditions. When periods of heavy rain and or high wind are expected the awning must be closed. Never leave the awning open and unattended.

Damage caused by wind and rain is not covered by warranty.

All awnings must be closed prior to moving the vehicle for any reason. As an extra safety precaution a visual check that every awning is fully closed is required.

Damage caused by failure to comply with these instructions is not covered by warranty.

Before using your awning, ensure that the area into which the awning will be deployed is free of obstructions (Trees, walls, pillars, posts, other vehicles etc.)

Damage caused by collisions with any of the above or similar is not covered by warranty.

Before using your awning make sure that all of your electrical circuits are operating correctly.

CONTENTS

BASIC SYSTEM OVERVIEW

1. **Mechanical system** – consisting of:

- The enclosure (or cassette) protects the awning while closed.
- The roller tube which is mounted within the cassette.
- The top cover or fabric rolled onto the roller tube and connected to the lead rail that extends from the enclosure when the awning is opened.
- The folding arms that supports the lead rail and the fabric.
- (Option) tubular motor which is mounted inside of the roller tube that controls the extension and retraction of the awning.
- (Option) manual crank handle and drive system that controls the extension and retraction of the awning

2. **Electronic controls** – (Option) to power and operate the motor

- Wired Motion Sensor – 98GC780B, Wired motion sensor that works in conjunction with 98GC781B and 98GC783B wired wall switch controllers.

3. **User Controls** – (Option) Hand held remote controllers and wall mounted remote switches will differ according to the individual customer's needs, single or multi-channel handsets, with or without LED switching facility, and wall switches will differ depending upon how many awnings they are required to control.

- 98GC781B – Wired wall switch controller

98GC780B

98GC781B

Switch Control with Wired Motion Sensor

98GC781B Awning Controller

98GC780B Motion Sensor (Wired)

Description

The 98GCK-49 is a combination controller (98GC781" B" or "W") and Hard Wired Motion Sensor (98GC780" B" or "W") kit, it can be ordered in either Black or White.

The 98GCK-49 kit is used for a Single DC awning with LED. The 98GCK-49 also includes an Ignition Retract-Lock function to retract the awning if the engine is ON. See wiring diagram to see how to wire this function.

Specification

- Operating Voltage: 11 VDC ~14VDC
- Current: Up to 10A
- LED light control
- RS485 communication to operate the motion sensor
- Maximum run time is 4 minutes
- Operating Temperature 32 to 120F

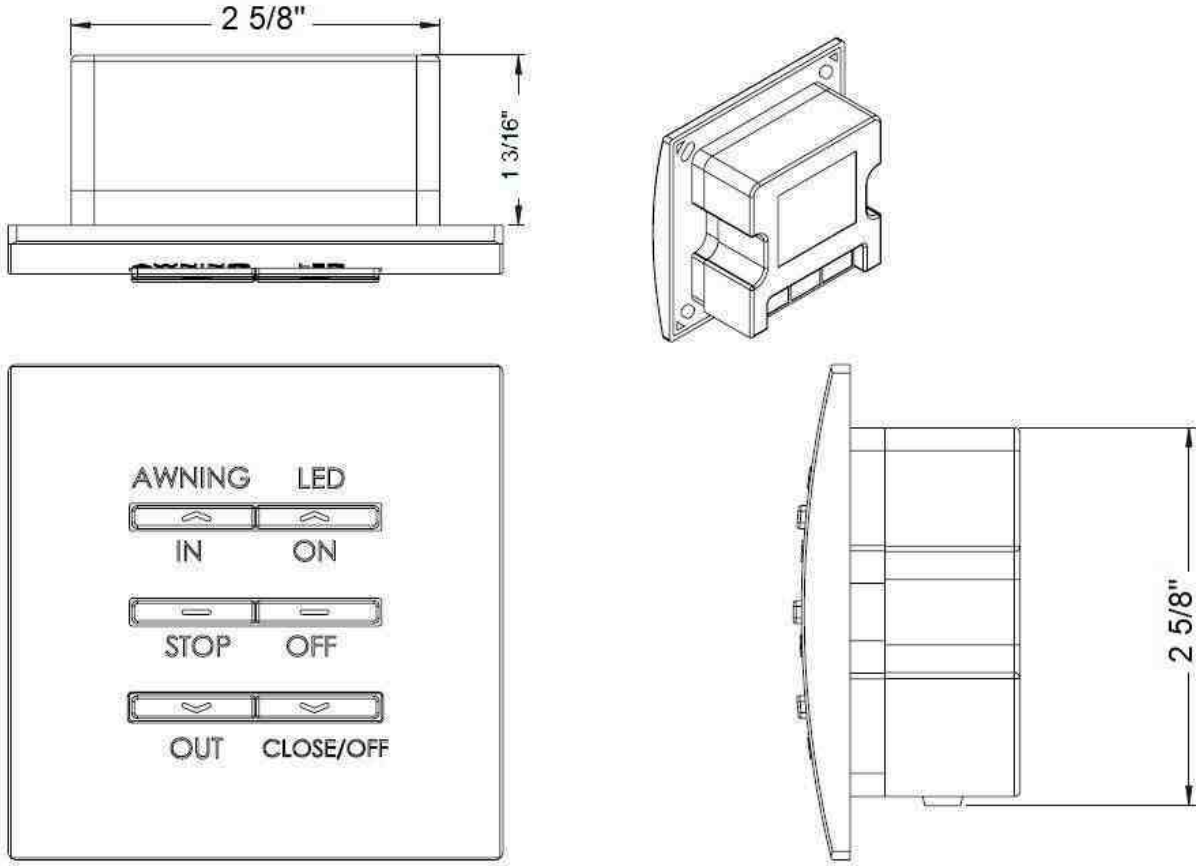


Fig. 1

Buttons Description:

IN Button retract the awning

STOP Command

OUT Button Extend the awning

TURNS ON LED LIGHT

TURNS OFF LED LIGHT

Close the Awning and Turn OFF the LED Light

Sensitivity Adjustment:

This unit has 10 levels of sensitivity which can be adjusted directly on the switch.

1. Pull off the cover from the switch 98GC781(B), (W).
2. Press and hold the ***set button*** until you hear a beep from the switch, see Fig. 2 to locate the set button.
3. The controller will automatically reset to level 10. Press down to increase the sensitivity level. The LESSER the number the MORE sensitive the sensor.
4. The ***Setting LED*** will blink a certain number of times with every press to show the level. Recommended factory setting is three. (That will be three LED blinks when on correct setting)
5. Once the level is selected, press and hold the set button again until you hear a beep, then let off the set button. if the programming is successful, you will here three more beeps from the switch to confirm.

Wired Motion Sensor

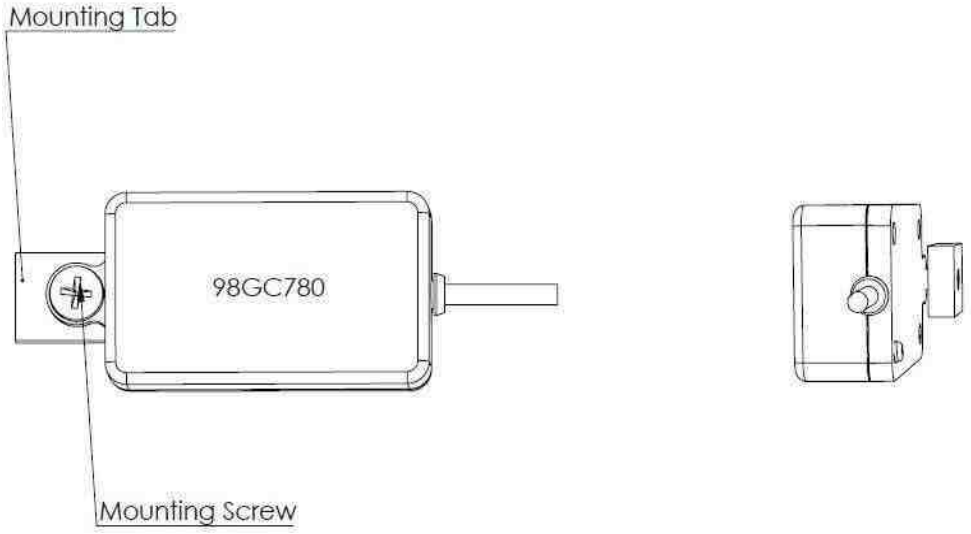


Fig. 2

This wired motion sensor communicates directly to the DC motor Controller 98GC781(B), (W) by RS485 Protocol.

E. Wiring Diagram:

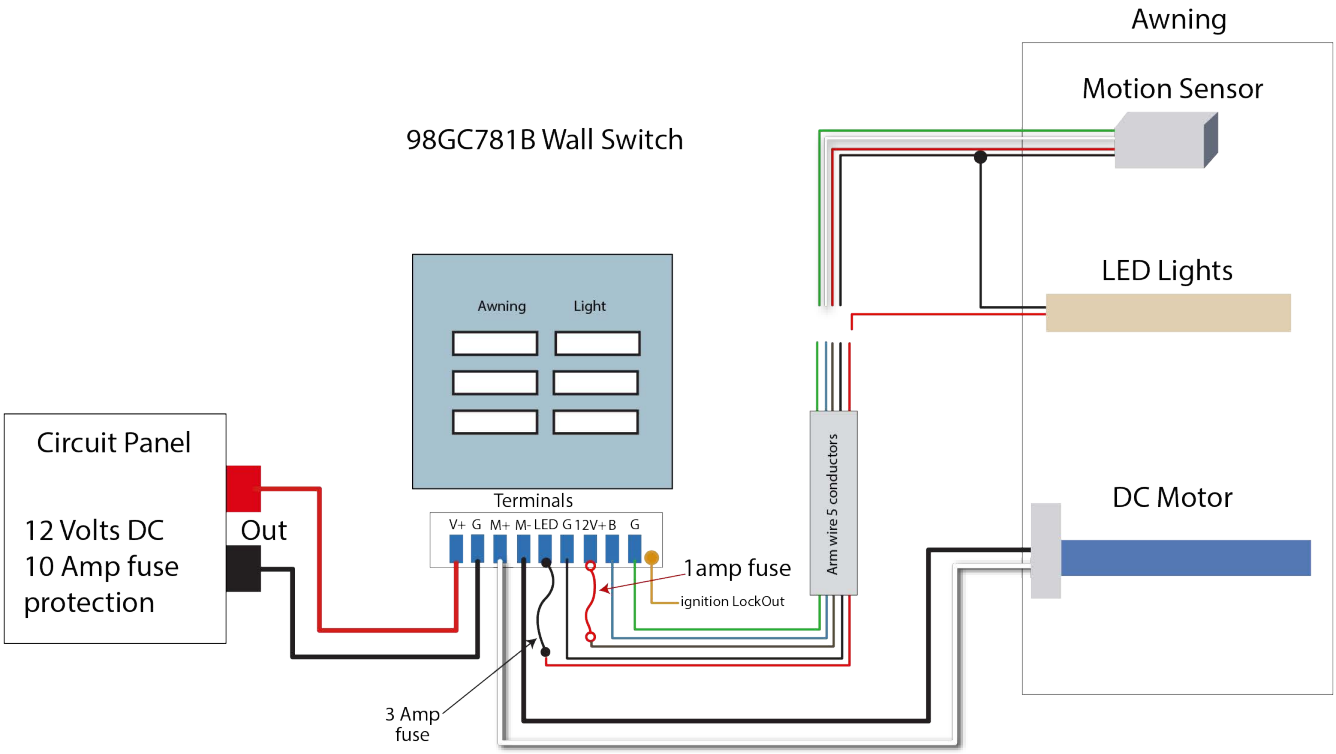


Fig. 3

TESTING AND ADJUSTMENTS

OVERVIEW

A. Adjusting Motor-limit switches
B. Manual Override
C. Adjusting Pitch and Elbow height
D. Motion Sensor Testing

A. ADJUSTING MOTOR LIMIT SWITCHES

TOOLS REQUIRED

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

NOTE: The motor limit switches have been adjusted to the correct positions at the factory prior to shipment. When fully retracted the awning motor is set to stop the exact moment the awning box closes. When fully extended the fabric should be taut and the arms should be slightly bent, exposing a gap of about ¼" at the elbows.

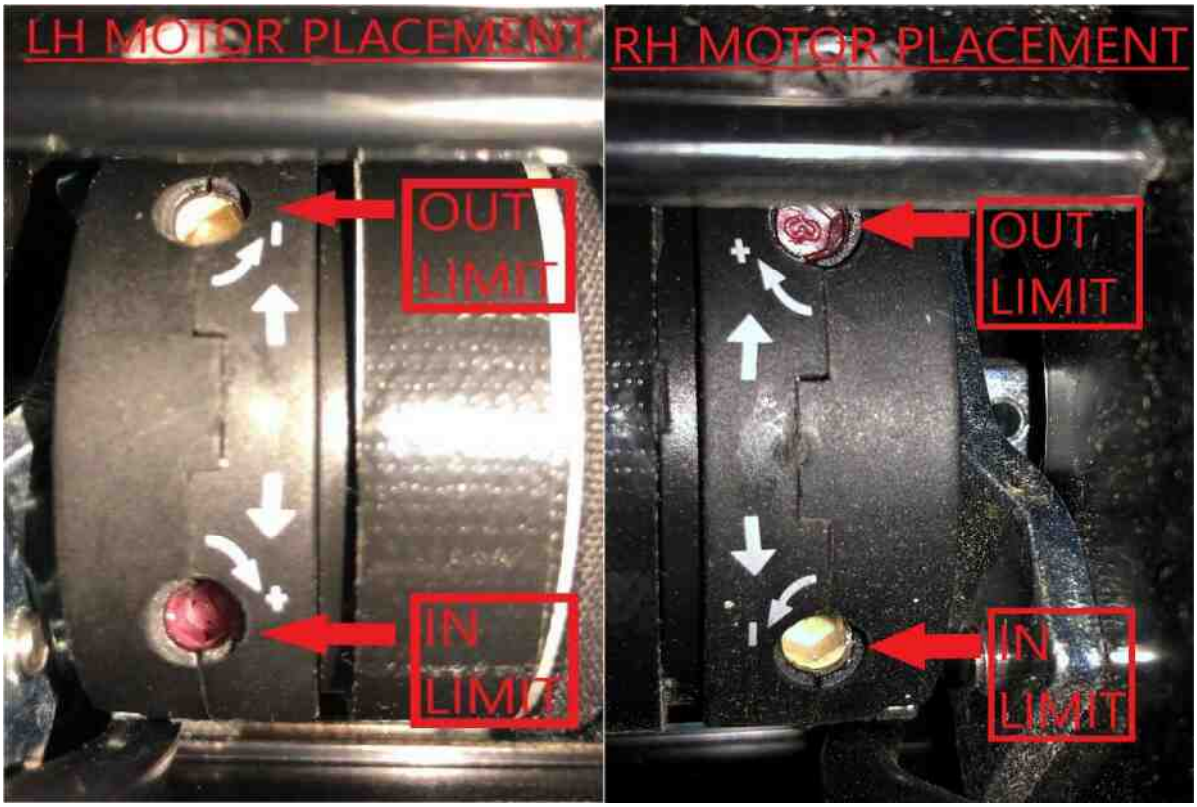
Always check the motor limits after installation to ensure that the awning opens and closes correctly. Awning fabric can stretch over time, this will require an adjustment of the IN and/or OUT limit switch.

IMPORTANT: EXTREME CARE SHOULD BE TAKEN TO ENSURE THAT THE MOTOR LIMIT TURNS OFF AT THE EXACT MOMENT THE AWNING BOX CLOSES. FAILURE TO DO SO WILL CAUSE THE MOTOR TO RUN WHEN THE AWNING IS CLOSED. THIS WILL DESTROY THE MOTOR.

1. The motors used in Girard Systems awnings are reversible.

2. The motor has limit settings for both OUT (extension) and IN (retraction).

3. The limit switches can be adjusted by use of the black key provided with the awning, or you may use a 4mm (5/32") Allen wrench.
4. Extend the awning a few feet to gain access to the motor. Locate the motor. The limit adjustment screws are located on the head of the motor. Using the symbols printed next to the adjustment screws, turn the black key (or 4mm Allen wrench) to make the necessary adjustments. The motors are labeled with a + or a – to indicate the adjustment direction.



5. Approximately ¼ turn of the adjustment screw represents about 1" of awning movement. NEVER set outward limits so that the fabric is slack with full arm extension. For proper adjustment set limit switch to stop the motor just before the arms lock. This will expose about a 1/4" gap at the elbow.

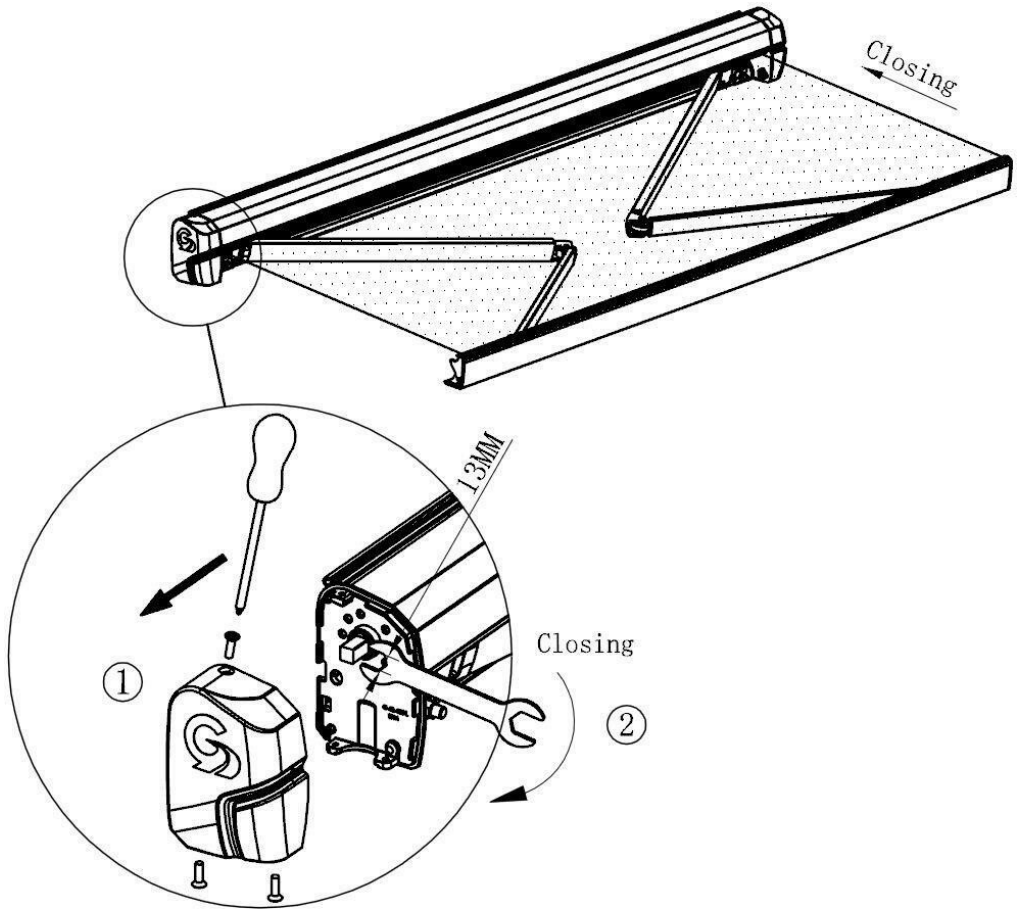
B. MANUAL OVERRIDE

1. In case of motor issues, the GG750 has a manual override to close the awning.

2. Remove the endcap opposite the motor, by removing the 3 Philips head screws.

3. Using a 13mm wrench, turn the manual override shaft in order to close the awning, see Figure 4. NOTE: The manual override is one-way, it can only close the awning.

4. Figure 4 is showing a right hand motor version of the GG750. If you have a left hand version, the manual override will be on the opposite side.



(Figure 4)

C. ADJUSTING PITCH and ELBOW HEIGHT

NOTE: Adjustment of the Elbow height and pitch, will affect the height of the awning lead rail when it is fully deployed.

This adjustment is usually required after an arm replacement. Also, if the elbow of the arm hits the bottom of the casing as the lead rail closes.

Tools Required

- 17mm open-end wrench
- 19mm (3/4") open-end wrench
- 4mm Allen wrench

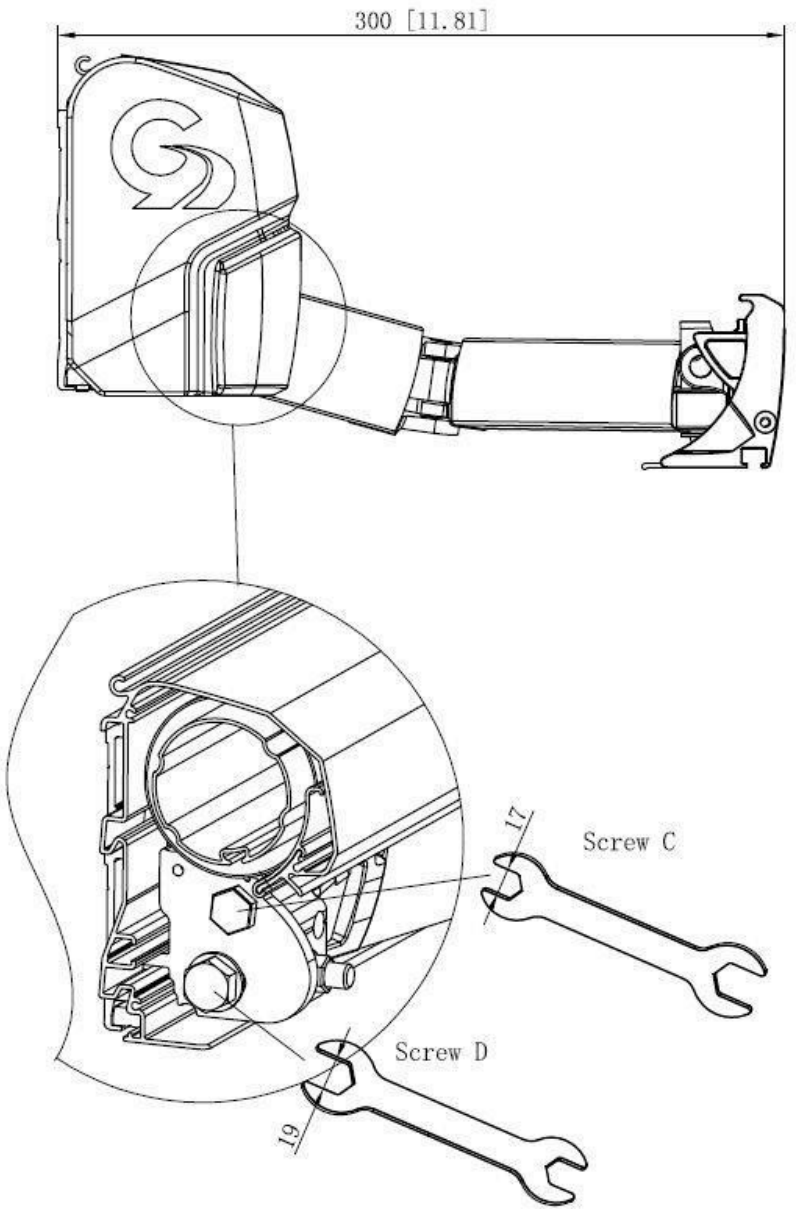
1. ELBOW HEIGHT

a. Extend the awning approximately 12"

b. To lower the elbow: Locate screw C located on the side of the shoulder, the top bolt. (Figure 5) Using a 17mm open-end wrench, rotate the bolt counter-clockwise to lower the arm position. Then use a 19mm wrench to tighten Screw D, the bottom bolt.

c. To raise the elbow: Locate screw C located on the side of the shoulder, the top bolt. (Figure 5) Using a 17mm open-end wrench, rotate the bolt clockwise to raise the arm position. Then use a 19mm wrench to loosen Screw D, the bottom bolt.

d. Close the awning completely to ensure smooth operation, that the lead rail lies flush and square along the length of the cassette, and that the arms fold inside the cassette without interference.



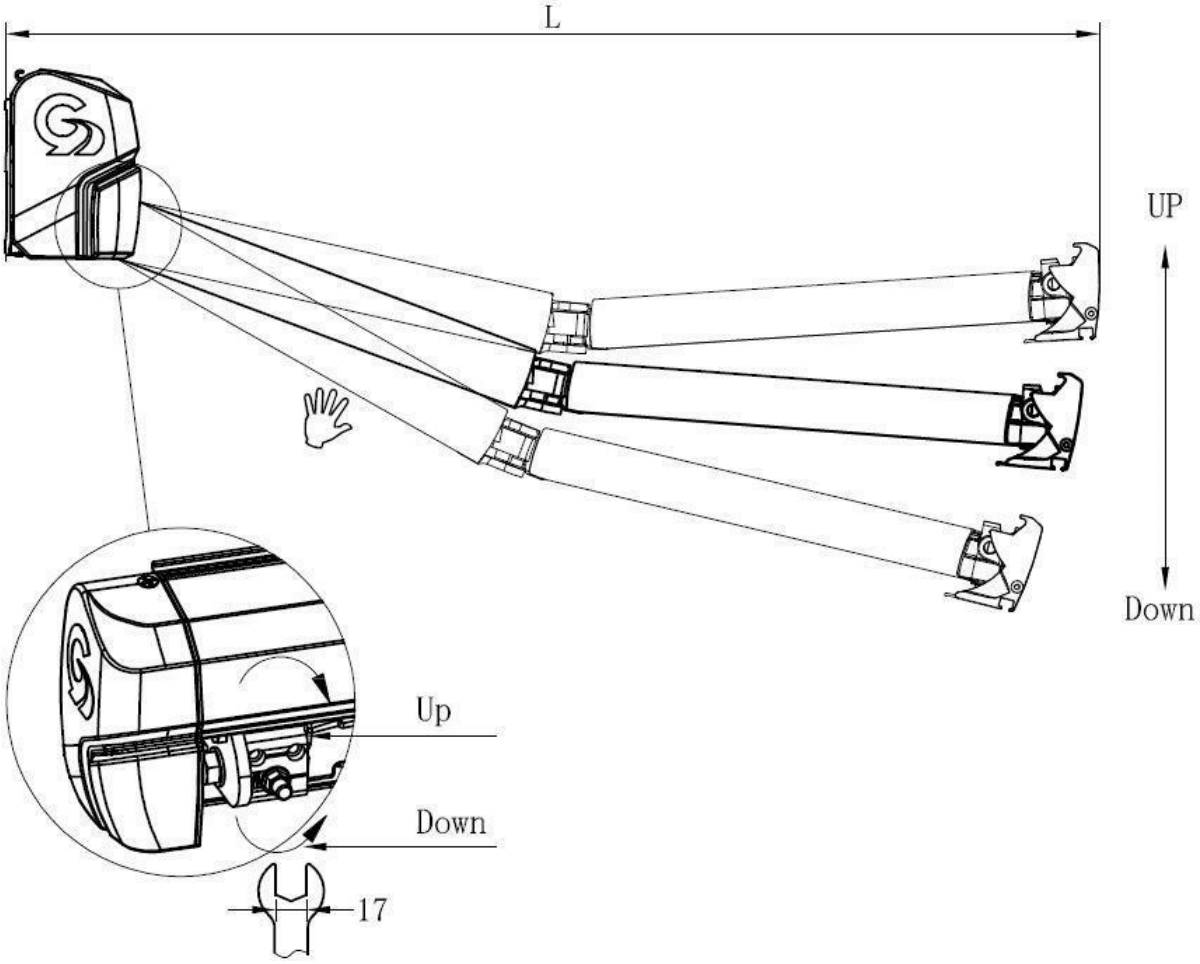
(Figure 5)

2. ADJUSTING PITCH

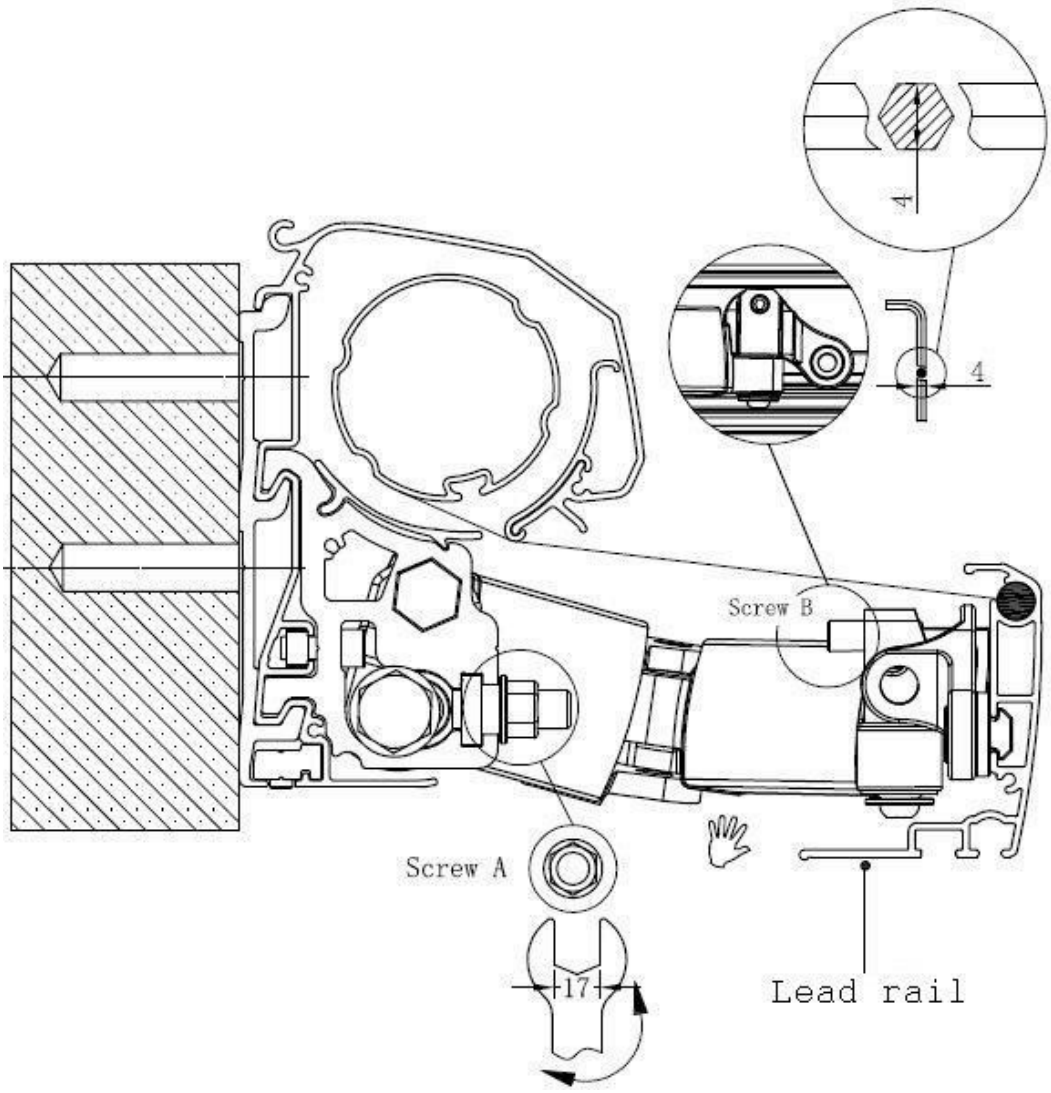
a. Extend the awning to its fully extended length.

b. Locate screw A, adjustment nut located on front side of the shoulder assembly (Figure 6, 7). Using a 17mm wrench rotate the nut **counter-clockwise** to **lower** the pitch or **clockwise** to **raise** the pitch.
DO NOT OVERTIGHTEN AS THIS WILL RESULT IN DAMAGE TO THE AWNING. LIFTING UP ON THE ARM SLIGHTLY TO RELIEVE PRESSURE MAY BE NECESSARY.

c. Close the awning completely to ensure smooth operation and that the lead rail lies flush and square along the length of the cassette.



(Figure 6)



(Figure 7)

D. TESTING THE MOTION SENSOR (Wind Sensor)

1. Partially extend the awning (at least 3 feet).
2. Physically activate the motion sensor by shaking the awning lead rail.
3. At this point the awning should retract; if not, check that there is a 12VDC supply to the motion sensor and that the motion sensor is correctly programmed.

   NOTE: The Motion sensor will send a retract signal to the motor of the awning it is programmed to on the RV. If there are multiple awnings extended that begin to retract

simultaneously under windy conditions, the power system of the vehicle must be able to withstand the resulting surge of current. The surge will be the greatest when the awnings are fully extended. When testing the system verify all of the awnings will close when fully extended.

E. ADJUSTING THE LEAD RAIL

The lead rail on your awning has been preset at +/- 3 degrees. This allows the lead rail to rest firmly into the cassette and also creates a weather resistant seal for travel. To increase or decrease the pitch angle insert a 4mm Allen wrench into the Pitch adjustment screw, screw B (Figure 7). Turn clockwise to increase the pitch and turn counterclockwise to decrease the pitch. Ensure that the pitch adjustment screw is set evenly on all of the arms.

TROUBLESHOOTING GUIDE

PROBLEM:

The lead rail is binding on the side of the awning casing; i.e. the rail is offset from housing.

SOLUTION:

- Open the awning about 3 feet.
- Loosen the lead rail horizontal adjustment screws on all arms (Figure 8).
- Locate and remove the two fabric set screws that are on each end of the lead rail (Figure 8). The lead rail is now ready to be shifted.
- Retract the awning until the lead rail is about 4 inches from the fully closed position.
- Using a rubber mallet, tap the end of the lead rail to move it into the correct position.
- When proper alignment has been achieved tighten the lead rail horizontal adjustment screws (Figure 8), and then replace the fabric screws (Figure 9).

(FIGURE 8)

(FIGURE 9)

PROBLEM:

The motor side of the awning closes when the awning is retracted but the opposite end does not.

SOLUTION:

Refer to "Adjusting the Lead Rail" on page 17. If this does not solve the issue please call Lippert at 432-LIPPERT (432-547-7378).

PROBLEM:

Motor will not operate.

SOLUTION:

- Check that the panel fuse on the 12VDC circuit is good
- If your vehicle has an Awnings Power Main Switch, locate that switch and make sure it is in the ON position.
- If this does not solve the issue please call Lippert at 432-LIPPERT (432-547-7378).

PROBLEM:

The motor will operate for 10-12" and then stop.

SOLUTION:

The motor may not be receiving enough power to operate correctly.

- Check to ensure that you have a minimum of 12VDC at the motor connection, if not switch on your generator or connect to shore power.
- If this does not solve the issue please call the Lippert at 432-LIPPERT (432-547-7378).

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:

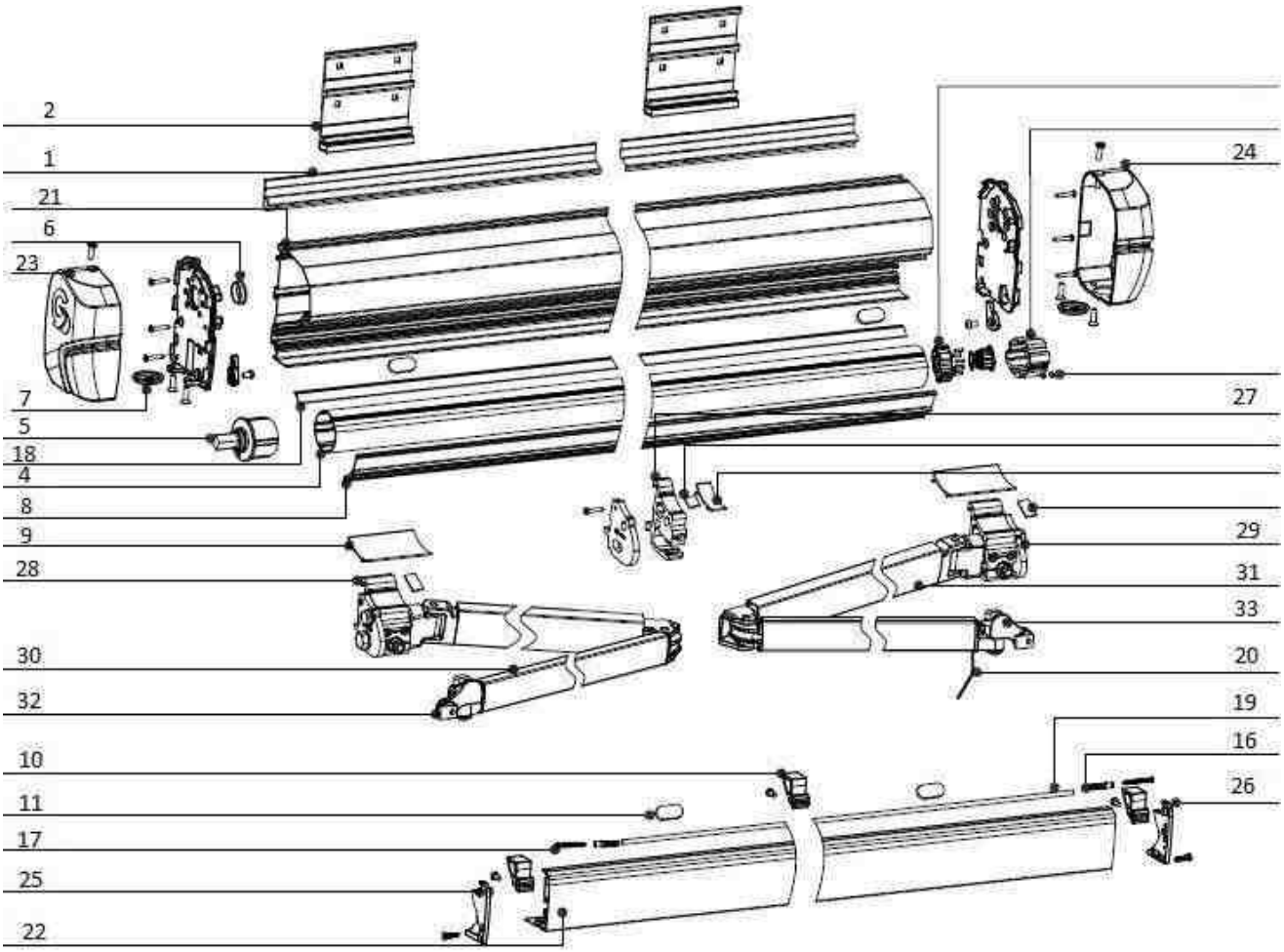
The motor's OUT limits must be reset to factory standards. Please refer to the "Adjusting the Motors Limit Switches" section on pages 10 and 11.

PROBLEM:

The motor stops before the lead rail has closed completely into the awning cassette on either or both sides. There is no apparent binding of the awning components.

SOLUTION:

The GG750 Awning is equipped with a manual override motor which has manual limit settings. The IN limit may need to be adjusted to allow the box to be closed tighter. Refer to the "Adjusting the Motors Limit Switches" section on pages 10 and 11.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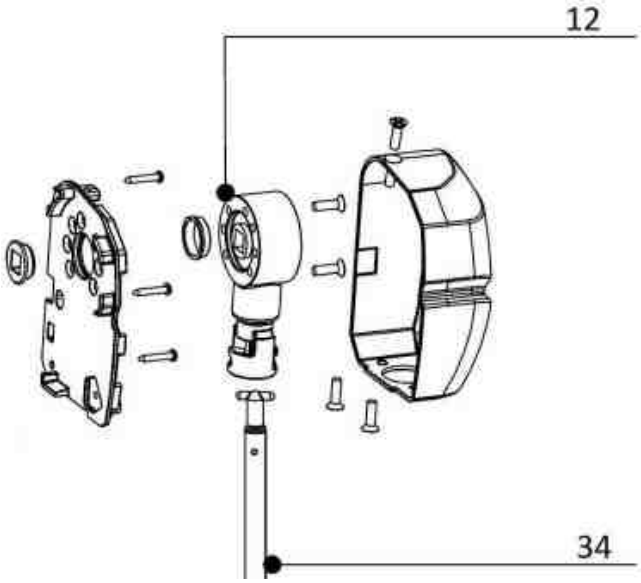
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GG750 COMPONENT IDENTIFICATION

ITEM	DESCRIPTION	PART NUMBER (WHITE)	PART NUMBER (BLACK)
1	L Track Mount	7523001-01	7523002-01
2	Mounting Bracket	7523003-02	N/A
3	Sprinter Van Bracket Set	7523005-03	7523006-03
4	Roller Tube	7523007-04	N/A
5	Gudgeon	N/A	7523008-05
6	Bushing Insert	7526009-06	N/A
7	End Cap Hole Plug	7523010-07	N/A
8	Fabric Guide	7523011-08	N/A
9	Fabric Guide B	7523012-09	N/A
10	Shoulder Angle Guide	7523013-10	N/A
11	Foam Washer	7523014-11	N/A
12	Manual Crank Gearbox (Manual Verison Only)	7523015-12	N/A
13	Washer Plastic Side Plate	7523016-13	N/A
14	Bushing Insert Cover	7523017-14	N/A
15	Screw for Gear Box	7523018-15	N/A
16	Fabric Screw Anchor	7523019-16	N/A
17	Fabric Screw	7523020-17	N/A
18	Poly Rope Roller Tube	7523021-18	N/A
19	Fabric Poly Rope	7523022-19	N/A
20	Wire Electrical for Arm	N/A	7523023-20
21	Main Housing	7523107-W21	7523107-B21
22	Lead Rail	7523108-W22	7523108-B22
23	End Cap Left	7523109-W23	7523109-B23
24	End Cap Right	7523110-W24	7523110-B24
25	Lead Rail End Cap Left	7523111-W25	7523111-B25
26	Lead Rail End Cap Right	7523112-W26	7523112-B26
27	Roller Tube Support Bracket	7523113-W27	7523113-B27
28	Shoulder Assembly Left	7523114-W28	7523114-B28
29	Shoulder Assembly Right	7523115-W29	7523115-B29
30	Arm Left 3’3”	7523116-W30	7523116-B30
31	Arm Right 3’3”	7523117-W31	7523117-B31

Item	Description	Part Number (White)	Part Number (Black)
30	Arm Left 6’7”	7523118-W30	7523118-B30
31	Arm Right 6’7”	7523119-W31	7523119-B31
30	Arm Left 8’	7523120-W30	7523120-B30
31	Arm Right 8’	7523121-W31	7523121-B31
32	Lead Rail Connector Left	7523122-W32	7523122-B32
33	Lead Rail Connector Right	7523123-W33	7523123-B33
34	Manual Crank Handle (Manual Version Only)	7523124-W34	7523124-B34

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