

AC MOTOR CONTROLLER

GC154

INSTALLATION MANUAL
REV.12302015



RV AWNING PRODUCTS

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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. Recreational Vehicles can generate AC power from three separate sources. The electrical system transfer switch in your vehicle will select power for the awning as follows:

Shore Power – if connected;

Generator Power – if the generator is running;

Inverter Power – batteries must be charged for inverter operation.

Girard Systems awnings are supplied with an electric motor appropriate to the product.



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THE G-LINK SYSTEM

The G-Link motors and control modules provided by Girard Systems communicate by use of RF signals on a frequency of 433.92 MHZ. This eliminates the need for wiring and the drilling of holes in the vehicle. These components must be electronically matched, programmed or paired before use. This is usually done at the Girard Systems factory. Should the need arise for the user to pair a device with the motor controller they must refer to the appropriate manual for the devices applicable to their particular installation.

PRODUCT DESCRIPTION



The G – Link GC154 is a single awning motor control unit that can be remotely operated with a G-link paired remote handset or switch from a distance of up to 500ft. in open air and up to 100ft in the presence of obstructions. The operating frequency is 433.92MHZ.

The GC154 may be operated by use of the UP/STOP/DOWN buttons on the side of the unit (Fig. 1). The direction of travel of the motor can be reversed by using the Reverse switch as indicated in (Fig. 2).

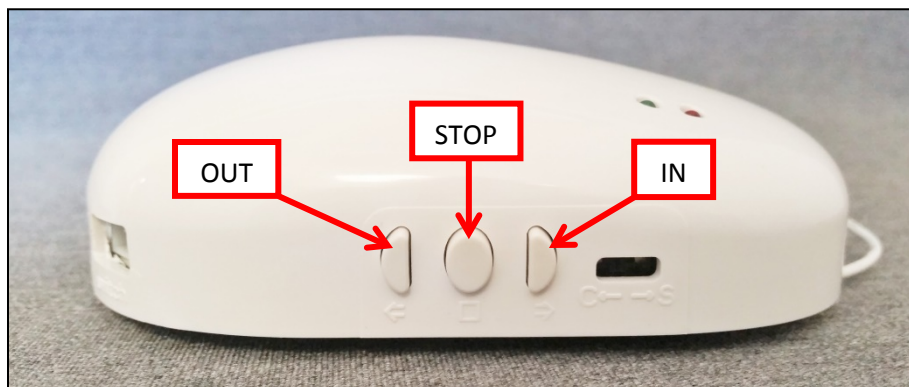


Fig.1

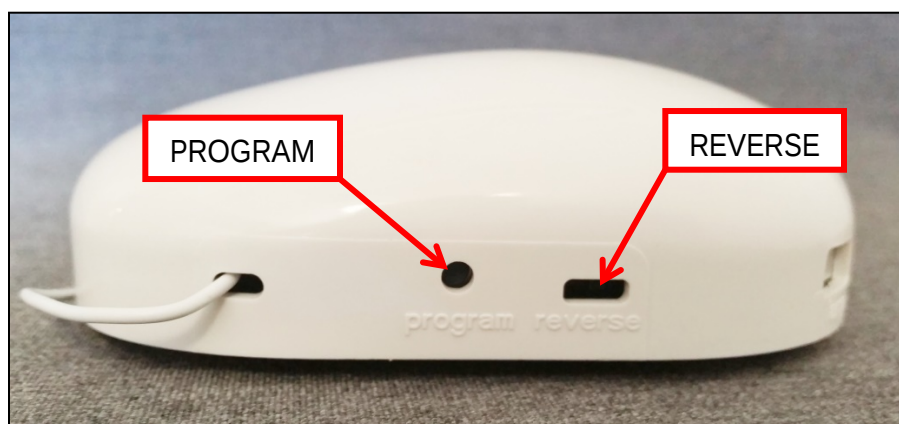


Fig.2

The GC154 may be programmed simultaneously with up to 20 Remote Controls or other remote units. If an additional unit is programmed it will replace the last unit programmed and the previous 19 units will remain unchanged.

The GC154 can operate in either Continuous or Step mode.

- a. In Continuous mode a single press of the button on the module or the Remote handset will cause the Awning to move in the chosen direction until the limit switch is actuated, unless the Stop button is pressed.
- b. In Step mode a single press will cause a small step in the chosen direction, but if the button is not released within 2 seconds the movement will become continuous as described above.

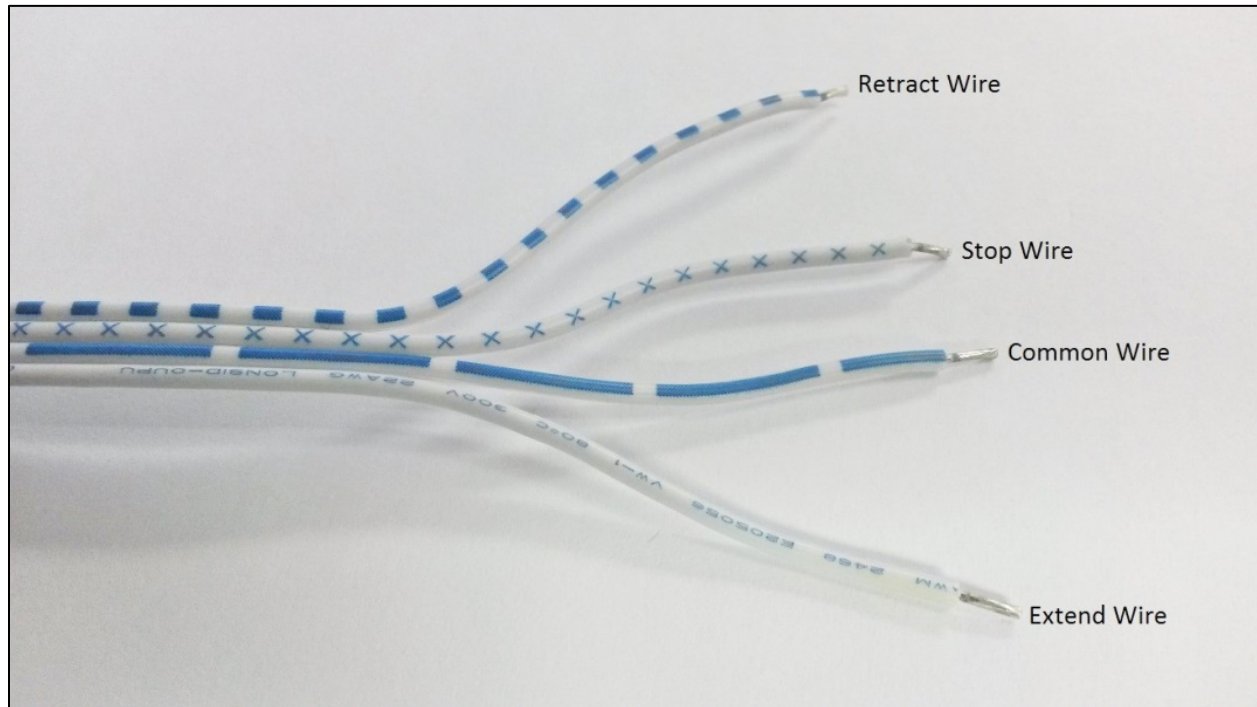
The 110v Motor control Wiring harness is plugged into the large rectangular port shown below.



The G-Link GC154 can be connected to the vehicle's Dry Contact System (Crestron, Silverleaf etc.) using the ribbon type wiring harness shown in the pictures below.



Dry Contact Wiring Harness connected to GC154



Dry contact connections to RV system

The GC154 will receive the command to extend, stop or retract from the Vehicles smart control system which is sent to the connected awning through the motor control wiring harness.

Specifications

Power: 110VAC / 60Hz

AC Input: White = Neutral / Black = Live / Green = Earth

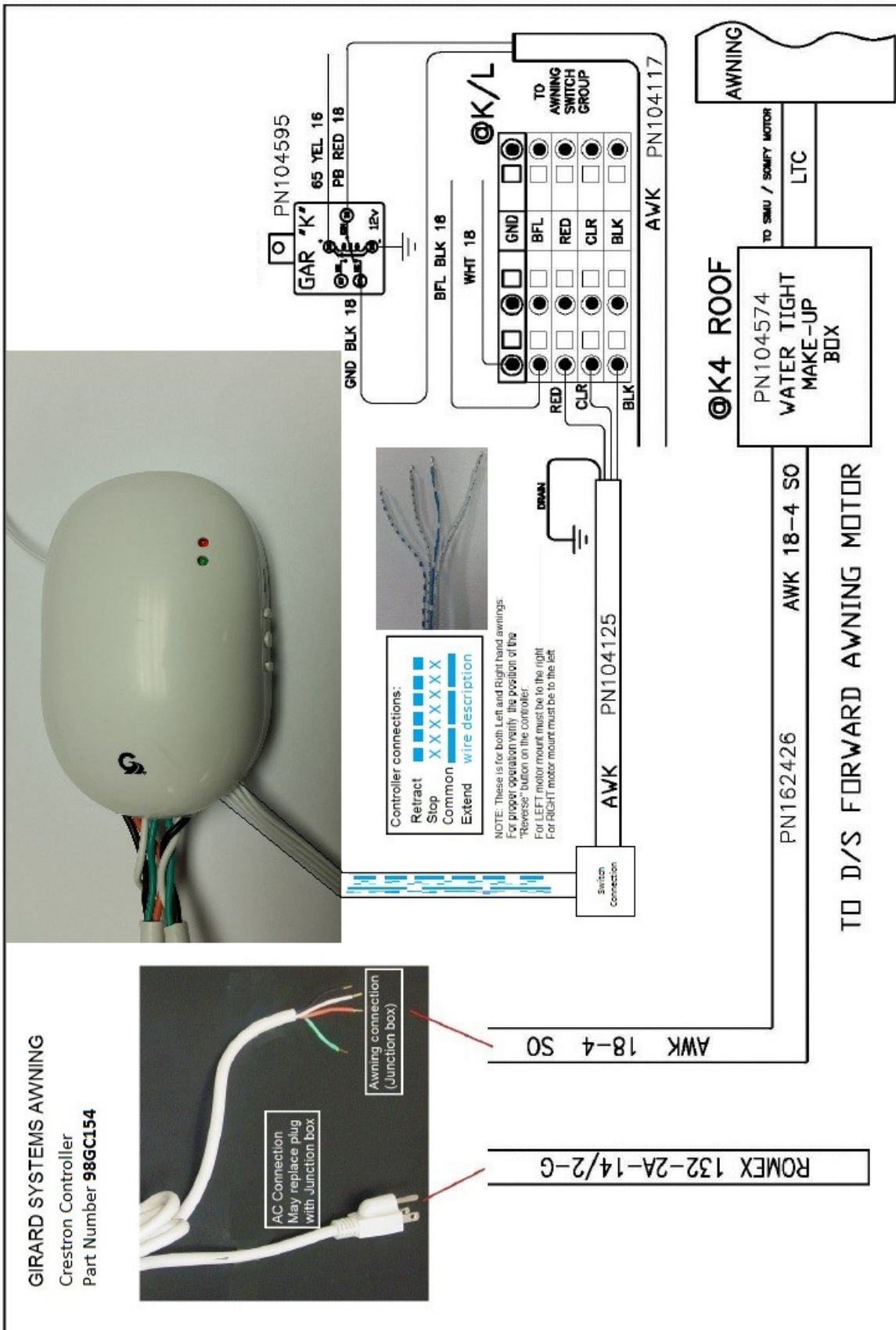
To the Motor: White = Neutral / Red = Direction 1 / Black = Direction 2 / Green = Earth

Ambient T: 0 - 130°F

Installation

A circuit breaker protected 15A/115v AC power supply is required from the Vehicles power distribution panel as shown in the diagram below.

1. Install a UL approved 110VAC junction box in which to make the electrical connections.
2. Route the Awning's Motor cable to this location and make the connections to the GC154 in accordance with NEC requirements.
3. Mount the GC154 on the wall using the screws and tape provided.





SETUP AND PROGRAMMING

1. Selection of “Continuous” or “Step” mode.

- a. Supply power to the GC154.
- b. Simultaneously press the **STOP** and **RIGHT** button of the GC154 for at least 6 seconds: The Green LED will first illuminate and then blink a few times. When the Green LED extinguishes, the operation has been completed

To switch modes (continuous to step or step to continuous) repeat step 1 above.

NOTE:

- Before starting this procedure the GC154 must be disconnected from all power sources for at least 10 seconds.
- During the programming procedure each step must be executed within 10 seconds of the preceding one.

2. Programming the GC154 to a Remote handset or switch

- a. Supply power to the GC154
- b. Using a paper clip or other small tool, press the program button on the GC154 (Fig 2) the Green LED will start blinking.
- c. Press STOP (Fig. 1): The Green LED will stop blinking and remain illuminated.
- d. Press the **UP** button on the REMOTE DEVICE being programmed. The Green LED on the motor controller will turn off.

3. Cancel one Remote from the GC154

- a. Supply power to the GC154
- b. Using a paper clip or other small tool, press the program button on the GC154 (Fig 2) the Green LED will start blinking.
- c. Press STOP (Fig. 1): The Green LED will stop blinking and remain illuminated.
- d. Press the **DOWN** button on the REMOTE DEVICE being cancelled. The Green LED will turn off.

4. Cancel all of the Remotes from the GC154

- a. Supply power to the GC154
- b. Simultaneously press the **STOP** and **LEFT** button of the GC154 for at least 6 seconds: The Green LED will first illuminate and then blink a few times. When the Green LED extinguishes the operation has been completed.

PROGRAMMING TO A MOTION SENSOR

First the Motion sensor will need to be prepared for programming by carrying out the following procedure.

Remove the 2 small Phillips screws which secure the motion sensor to the mounting bracket. The base of the module is magnetized so will need to be gently lifted off.



Fig.1

Then turn it over.



Fig.2

Remove the 4 Phillips screws holding the module together. Remove the base plate and silicone insert.

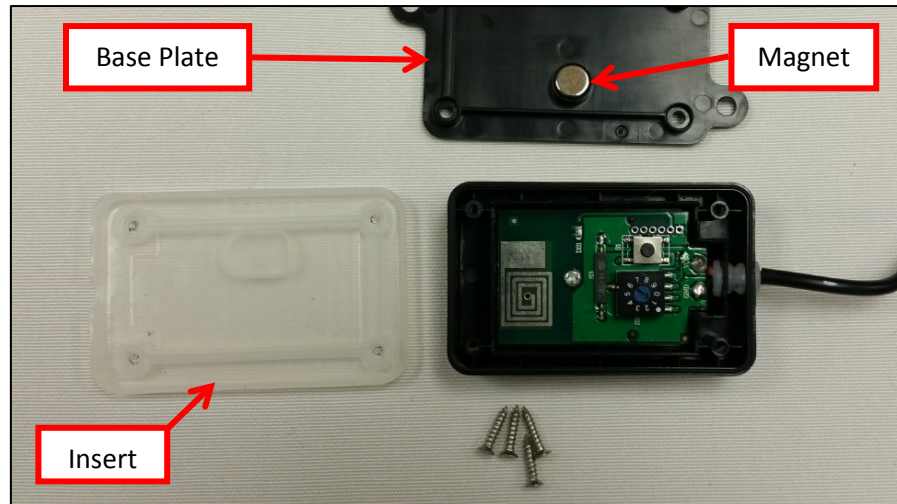


Fig.3

Turn the base plate over (Magnet down). Then place the motion sensor on top of it so that the magnet is aligned with the reed switch. **If this is not done the default program cannot be changed.**

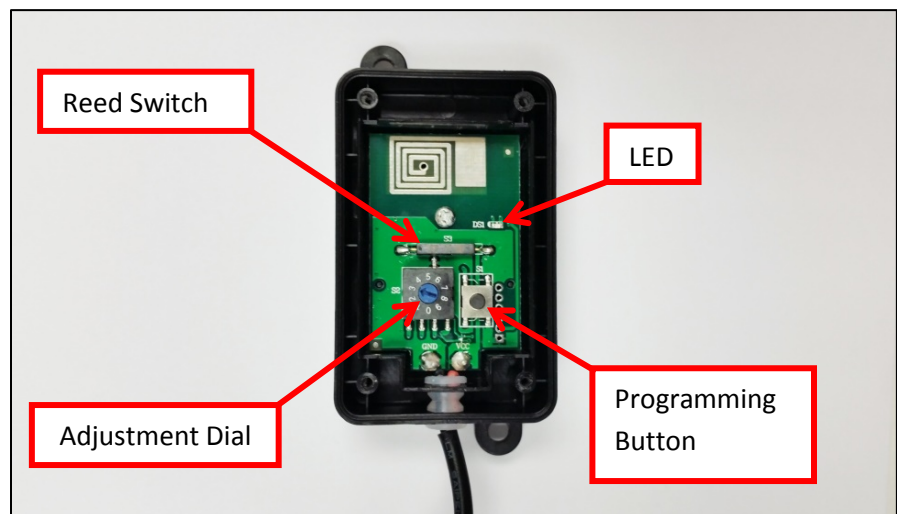


Fig.4

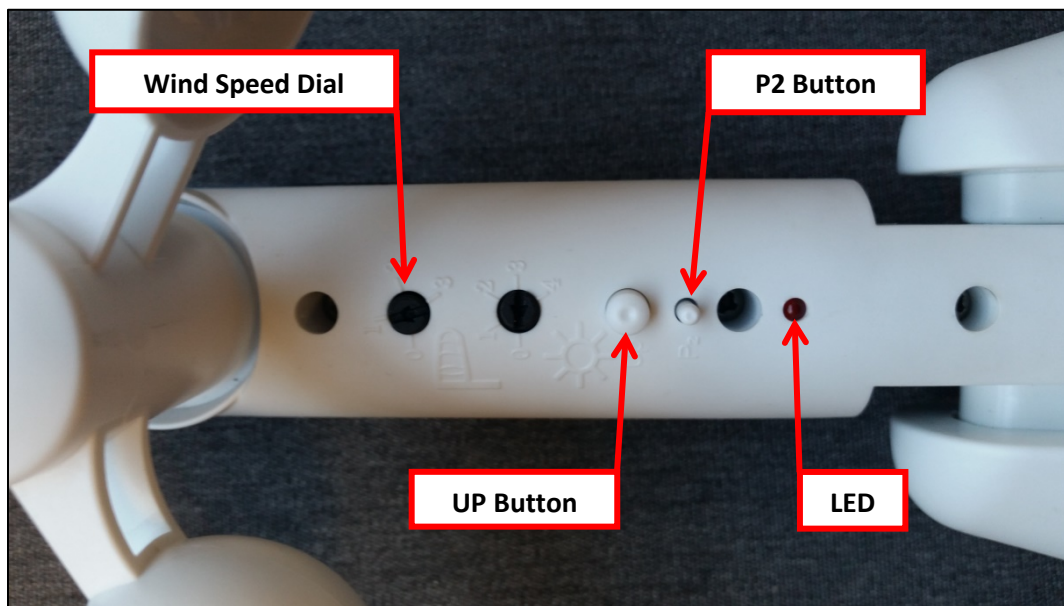


Note; when carrying out this part of the procedure each step must be executed within 10 seconds of the previous one or the module will revert to factory settings. It is highly recommended that you read and understand the following sequence before attempting to execute it.

- a. Set the Adjustment Dial to level 5. (See Fig.4).
- b. To initiate the programming sequence, power to the motor controller must be disconnected for at least 10 seconds then reconnected.
- c. Connect the GC779G Motion sensor to a 12volt DC circuit. At this point the Purple LED will illuminate and then begin to blink. If it does not, the unit is not receiving the correct power. Ensure that the magnet and reed switch are aligned and verify the electrical connection before proceeding.
- d. Using a small screwdriver or the end of a paper clip press the Program Button on the GC154 Motor Controller. (see fig 9) The Green LED on the Motor Controller will begin to flash.
- e. Press the Stop Button on the Motor Controller. The Green LED on the Motor Controller will illuminate continuously.
- f. Press the programming button on the GC779G Motion sensor (See Fig.4). Both the Purple LED on the Motion sensor and the green LED on the Motor controller will flash once and extinguish. This completes the programming sequence.
- g. Ensure that the code was accepted by pressing the Program button on the GC779G Motion sensor again. The Awning should retract.
- h. If the Awning does not retract, repeat steps a. to f.
- i. Set the Adjustment Dial to the desired sensitivity level 1 to 5. **Never set higher than 5.** (The factory setting is 3).

Once programming is complete, reassemble the Motion sensor module.

PROGRAMMING TO AN ANEMOMETER GC116I



Fully extend the awning to ensure smooth operation, and then retract the awning leaving it partially open (about 3 feet).

Locate the P2 Button on the back of the motor controller.

Set the wind speed dial between 1 and 2 on the anemometer. (See Fig.1 above). The higher this dial is set, the stronger the wind must be before the awning will retract.

Note; when carrying out this part of the procedure each step must be executed within 10 seconds of the previous one or the module will revert to factory settings. It is highly recommended that you read and understand the following sequence before attempting to execute it.

- 1) Connect the Anemometer to a 12V DC Power source. (The Red LED will flash once when power is connected)
- 2) Press the P2 button on the back of the motor controller (The green LED will start to blink)
- 3) Press the STOP button on the motor controller (The green LED will stop blinking and remain illuminated)
- 4) Press the up button on the Anemometer to retract the awning or physically activate it by spinning the cups.

For queries or assistance with programming any of your G-Link devices please call Girard Systems TOLL FREE on 800-382-8442 between 7:30am and 3:30pm P.S.T.



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