

DC MOTOR CONTROLLER

GC732G

INSTALLATION AND PROGRAMMING GUIDE
REV.12312015



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.



CONTENTS

Product description	4
Wiring diagram	7
Programming	8
Pairing with a DC motion sensor	9
Pairing with an Anemometer	11

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 GC732G Motor Controller is used to control DC motors with current requirements up to 10A. It can also provide 12v DC power for an optional LED strip and can be remotely operated with any paired G-Link handset or wall switch. The controller will receive signals from a distance of more than 500ft in open air and more than 100ft in the presence of obstructions.

The GC732G may be programmed with up to 20 compatible remote modules. If an additional module is programmed it will replace the most recently programmed module. The previous 19 modules will remain unchanged.

The awning may be operated from the GC732G using the IN/STOP/OUT buttons (see Fig.1). The direction of travel of the motor can be reversed without the need of changing the wiring by sliding the reverse switch to the opposite position. The program button is easily accessible as shown in Fig 2.



Fig.1

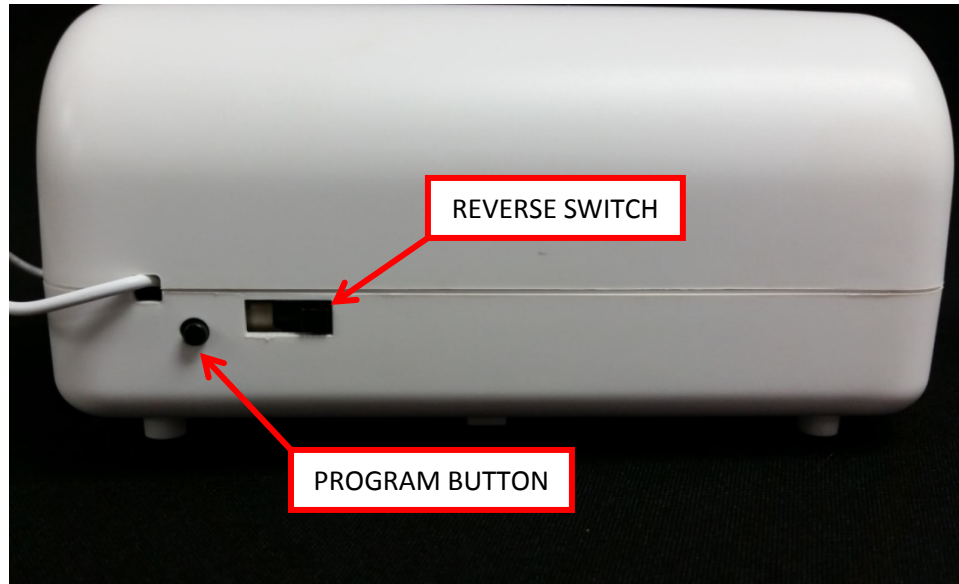


Fig.2

All connections are made with wires that can be terminated with the 12V Molex connectors without the need for a junction box. The wires consist of:

- 8 pin Connector for the two wires (Blue and Brown) for connecting the DC motor(see Fig.3 Below)
- 4 pin Connector for the two wires (Black [-] and Red [+]) for connecting to the 12v DC power source (see Fig.3 Below).

The white wire on the side is the RF receiver antenna and may be either left loose or attached to a surface using tape.

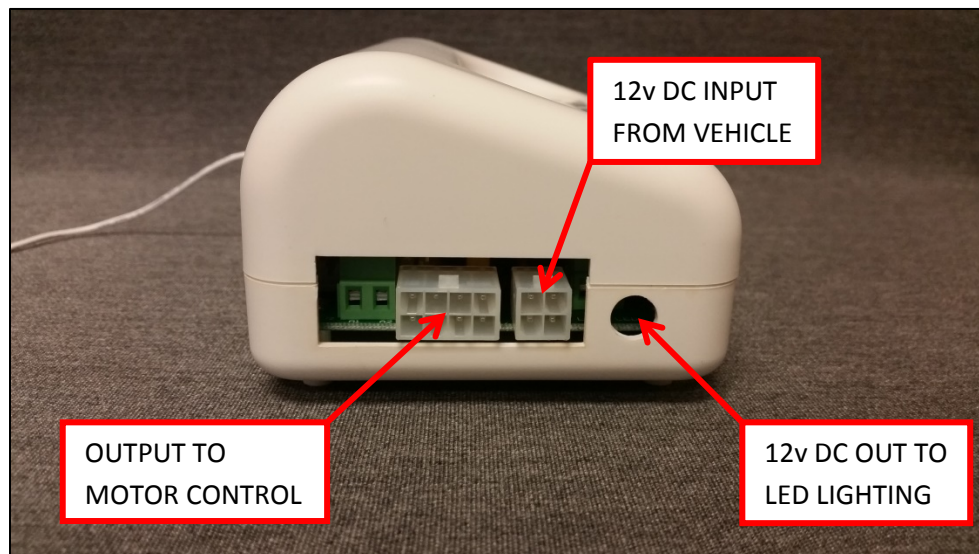


Fig.3

Note: This Unit has an optional connector to control Led Light (On/Off). Fig.4 below illustrates where the 12v DC supply for the LED lighting can be found. To open the controller box, grasp and squeeze the lid along the top and bottom edges.

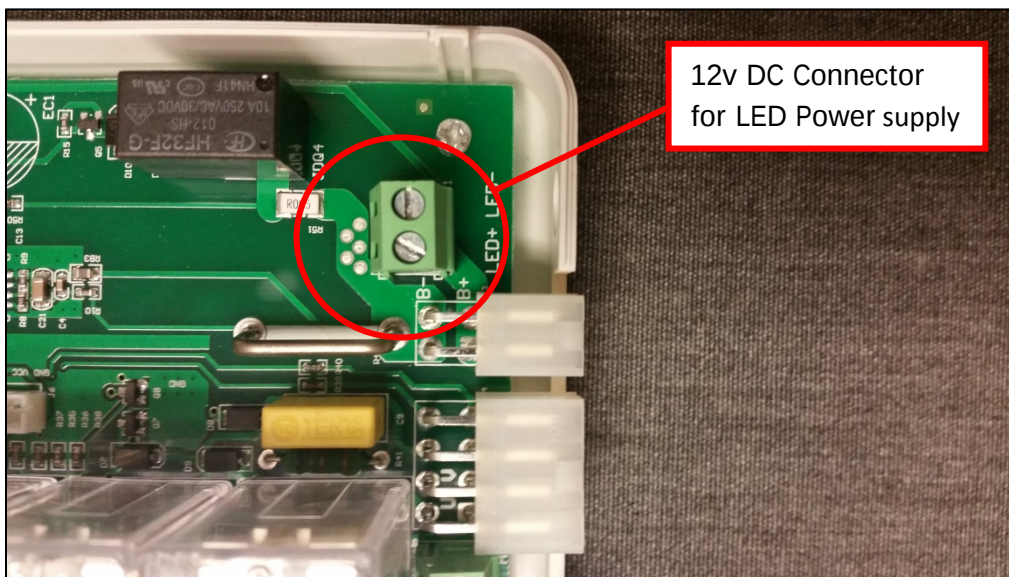


Fig.4

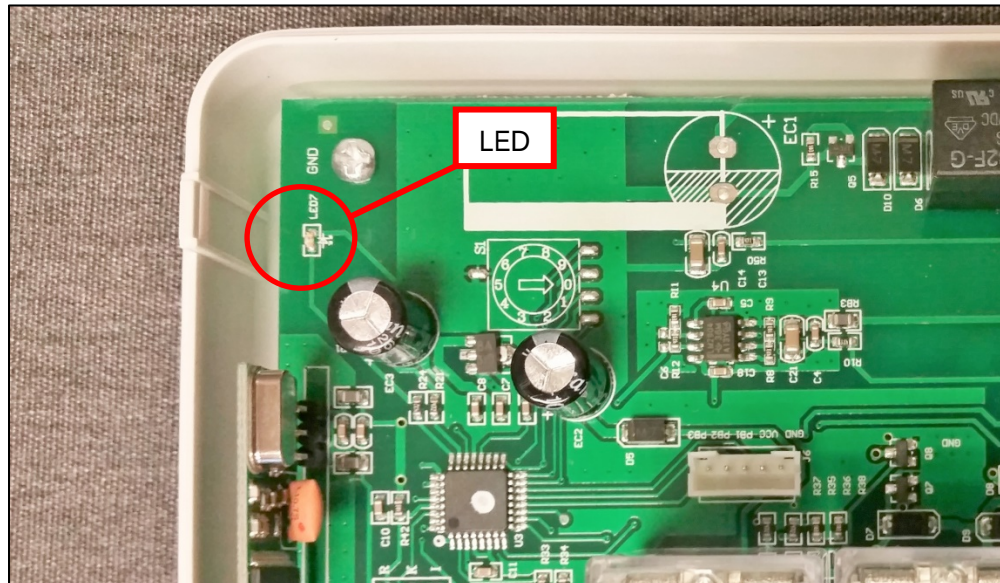
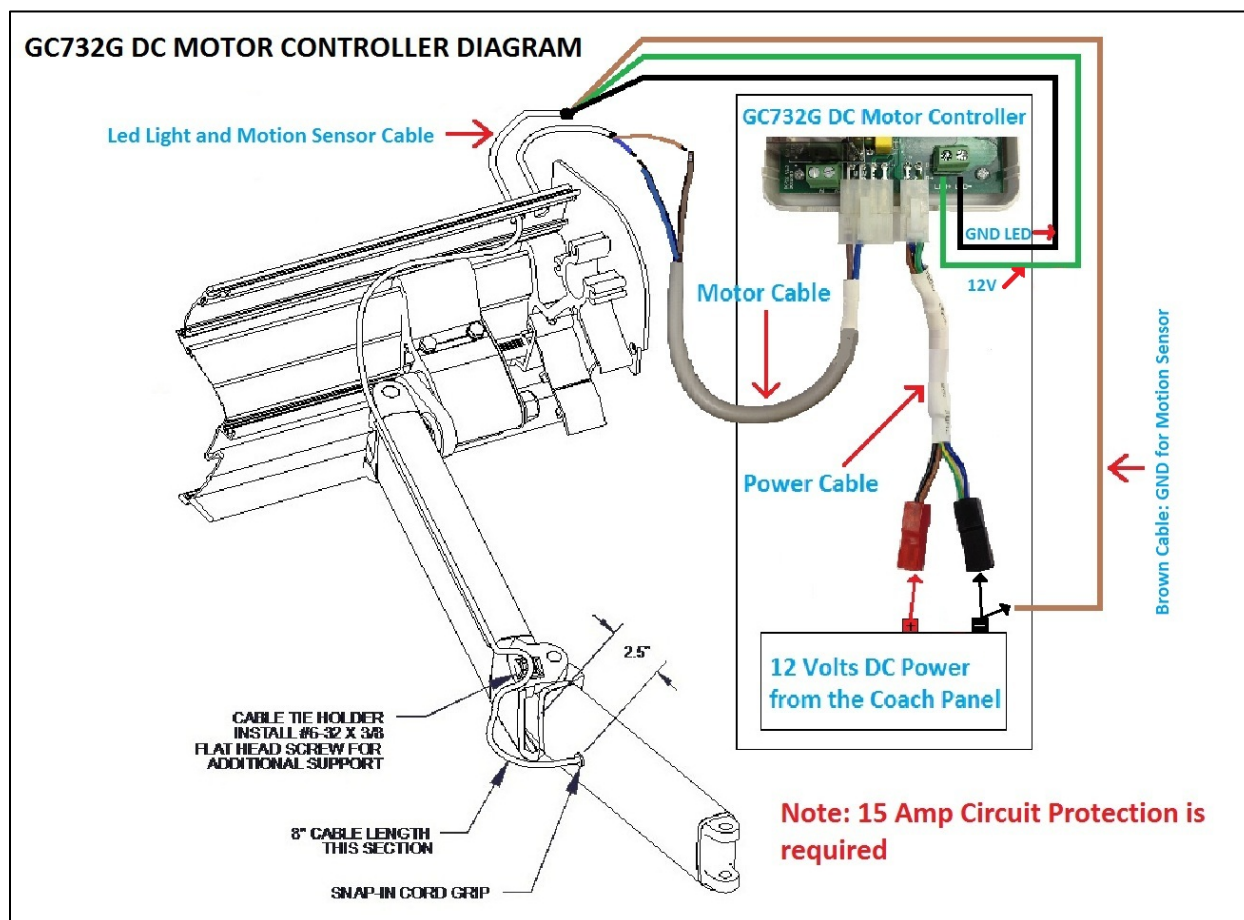


Fig.5

In order to control the optional LED lighting strip Press the light icon on the Remote control.

WIRING DIAGRAM



The GC732G must be installed on a fuse protected circuit (15A).

To install:

1. Select a convenient location inside the vehicle
2. Route the 12v DC power supply and DC motor cables to this location
3. Connect the power to the input wires (Red = +12v DC, Black = -12v DC)
4. Connect the motor wires (Blue and Brown) to the motor using quick connectors.
5. Test operation using the IN and OUT red switches: If the rotation of the awning is not in the desired direction move the black Reverse Switch to the opposite direction (See Fig.2).



PROGRAMMING

NOTE:

- **Before starting this procedure the Receiver must be without power (OFF) for at least 10 seconds.**
- **During the programming function the interval between each step required must be less than 10 seconds**

1. Programming the GC732G to a Transmitter (Remote handset or switch)

- a. Supply power to the GC732G. The unit will beep several times.
- b. Press and hold the program button until the LED turns on, see Fig.5).
- c. Press any button of the Remote Control (The LED will start blinking for approximately 5 seconds), verify that the motor is turning in the correct direction. If the motor does not turn in the correct direction, slide the Reverse Switch to the opposite position (See Fig.2).

2. Cancel all Remotes from the GC732G (Note: Remotes can't be cancelled individually)

- a. Supply power to the GC732G
- b. Press and hold the program button until the LED turns on and then off.
- c. Press any button of the remote to cancel it.
- d. Confirm that the remote has been cancelled by attempting to operate the awning with it.

3. Additional function...

- a. In order to work properly this unit has a built in voltage detection, so if the voltage of the vehicle batteries is below 12 volts and the user attempts to move the awning, the unit will emit 2 beeping sounds and stop the awning until sufficient voltage is present.

PAIRING WITH A DC MOTION SENSOR



Fig.10

First identify which GC732G Motor Controller must be paired with the motion sensor, there may be more than one installed on the vehicle. This can be achieved by pushing the IN/OUT buttons on the face of the controller and observing which awning responds.

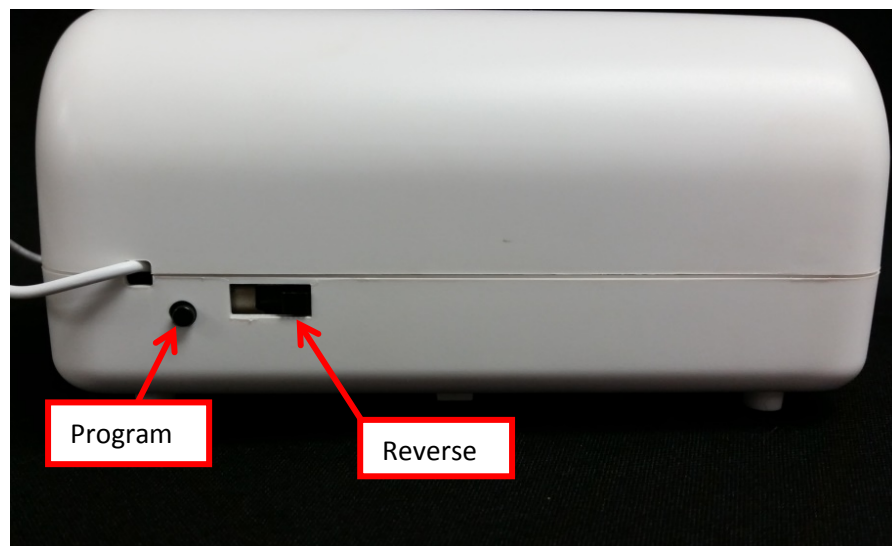


Fig.11

Familiarize yourself with the buttons and switches indicated in these illustrations. Next prepare the motion sensor for pairing as described in the Motion sensor manual.



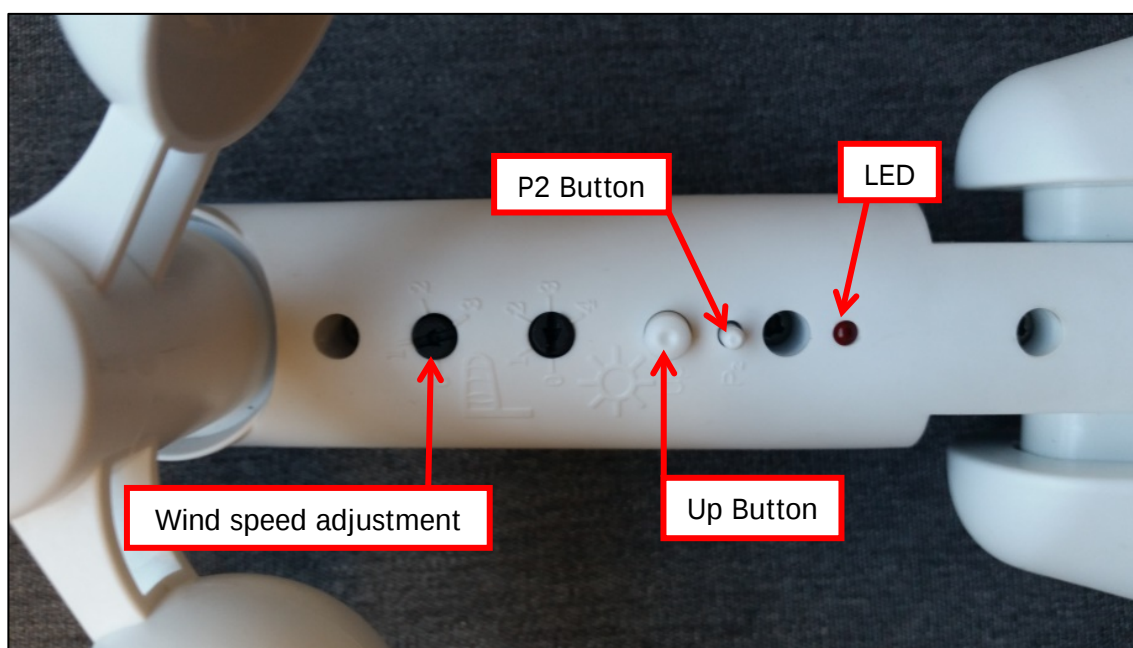
Note; When carrying out this part of the procedure each step must be executed within 10 seconds of the previous one or the module will revert to factory settings. It is highly recommended that you read and understand the following sequence before attempting to execute it.

- 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. Press and hold the Program Button on the side of the GC732G Controller for about 3 seconds. (See fig11).The Red LED on the Motor Controller will illuminate.
- e. Press the programming button on the GC779G Motion sensor (See Fig.4). Both the Purple LED on the Motion sensor and the Red LED on the Motor controller will flash once and extinguish. This completes the programming sequence.
- f. Ensure that the code was accepted by pressing the Program button on the GC779G Motion sensor again. The Awning should retract.
- g. If the Awning does not retract, repeat steps a. to e.
- h. 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 and mount on the awning lead rail.

PAIRING WITH AN ANEMOMETER

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. Supply power to the GC732G and the GC116I (Leave them on if already on)
- b. Press the PROGRAM button on the GC732G (the Green LED will start to blink)
- c. Press the STOP button on the GC732G (The Green LED will remain illuminated)
- d. Press the UP button on the GC116I.
- e. Extend awning using a Manual Remote Control and press the UP button again on the GC116I to verify that the unit is working properly (the awning should Retract)
- f. Set the wind speed adjustment dial of the anemometer to in between 1-2.

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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