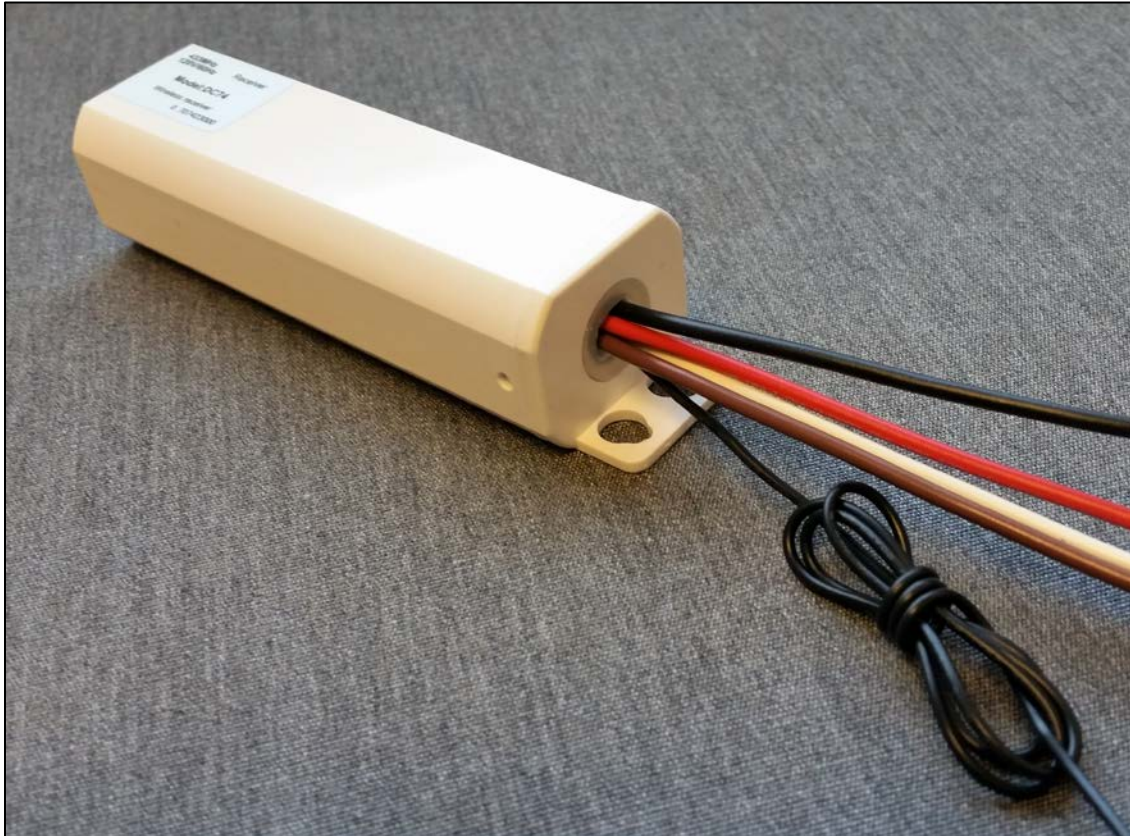


AC MOTOR CONTROLLER

98GC74

INSTALLATION and PROGRAMMING GUIDE

REV.12302015



RV AWNING PRODUCTS

1361 CALLE AVANZADO, SAN CLEMENTE, CA 92673 (800) 382-8442 FAX (949)276-5500

www.girardrv.com



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	3
Installation Wiring Diagram	4
Pairing With A Remote Device	5 - 19
98GC229 Single channel wall switch	5
98GC230 Dual Channel wall switch	7
GC661B Multi Channel wall switch	9
Single Channel Handsets	11
Multi-Channel Handsets	13
Pairing with Additional devices	15
Removing an additional device	15
Pairing with a Motion Sensor	16
Pairing with an Anemometer	19

THE G-LINK SYSTEM

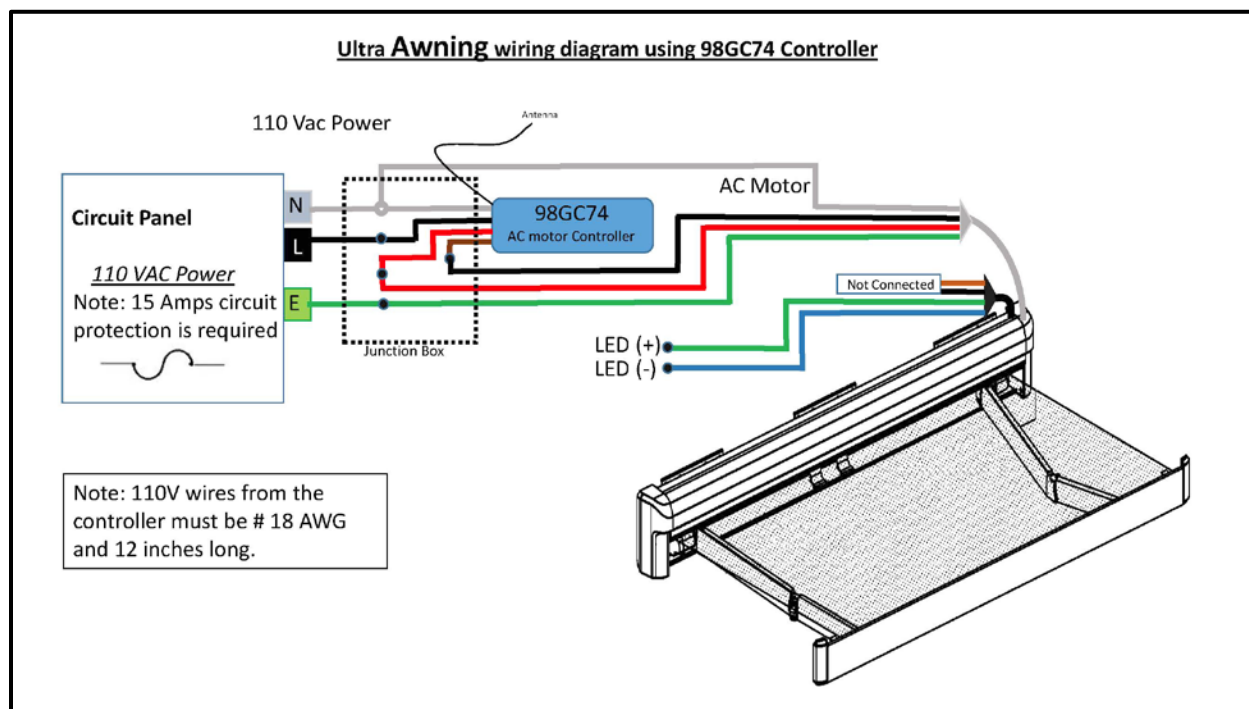
The G-Link motors and control modules provided by Girard Systems communicate by use of RF signals on a frequency of 433.92 MHZ. This eliminates the need for wiring and the drilling of holes in the vehicle. These components must be electronically matched, programmed or paired before use. This is usually 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 98GC74 is a 110V AC Motor Control Module which requires a 15 Amp Circuit breaker or fuse protected power supply, designed to control a single awning motor. The BLACK and WHITE wires are the module's input power supply which should be connected to the vehicle's Power distribution panel. The RED and BROWN wires are the module's output which should be connected to the awning motor. The longer BLACK wire is the modules RF antenna. The 98GC74 has an operating frequency of 433Mhz, and a range of up to 650' in the open or 110' where there are obstructions. This module can be paired with up to 20 compatible RF remote devices. If additional devices are paired with the 98GC74, previously paired devices will be overwritten in turn from the second device onward.



INSTALLATION WIRING DIAGRAM



WARNING

ALL ELECTRICAL WORK MUST CONFORM TO APPLICABLE ELECTRICAL CODES AND STANDARDS.

- Turn off power before beginning any electrical work.
- Please consult your RV's wiring diagram to locate any wiring prior to any drilling or any installation procedures.
- Ensure that placement of controls, cables, and wires are not in any way obstructed. This can damage the components and obstruct electrical current.
- Use only certified components.

PAIRING WITH REMOTE DEVICES

The following pages give instructions on how to pair the 98GC74 Motor controller with various compatible RF remote control devices. Please ensure that the correct set of instructions are followed for the device being paired with the Motor controller.

98GC229 SINGLE CHANNEL WALL SWITCH

The faceplate can be removed easily by holding the module firmly in one hand at the left and right edges and push the STOP button with two fingers of your other hand. Fig.1 below shows how the batteries must be inserted.

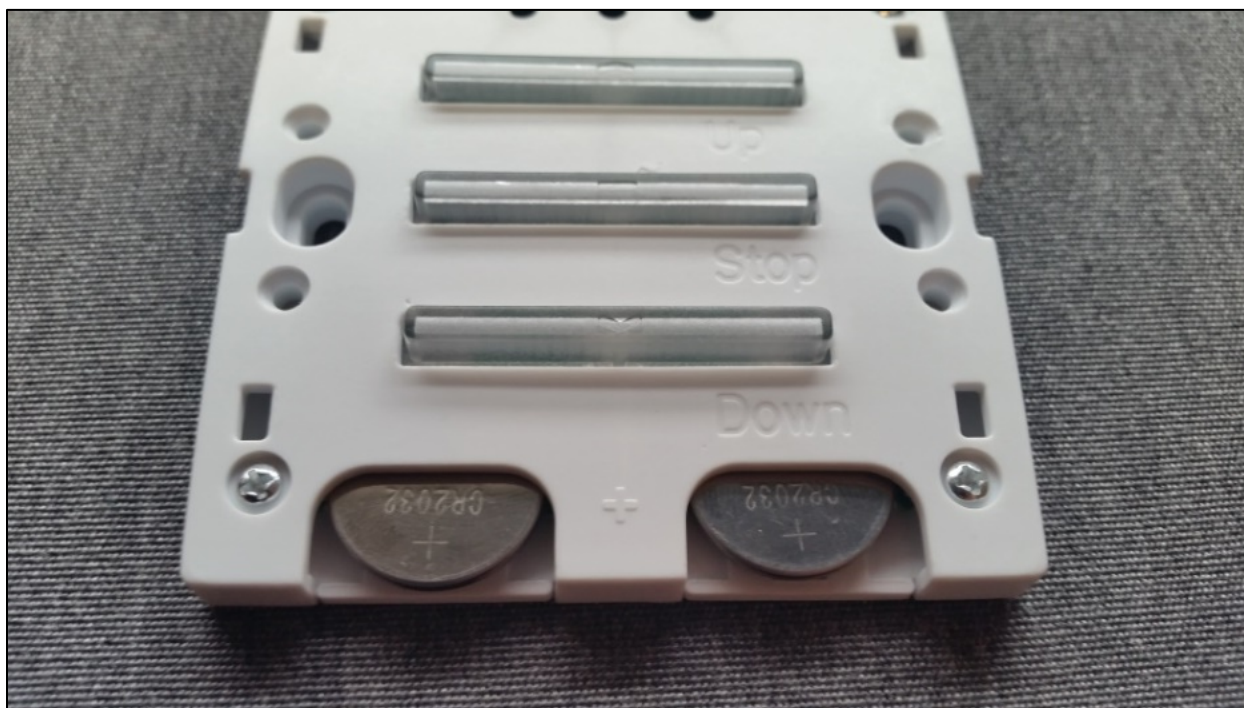


Fig.1

The module has three circular holes above the IN button as shown in Fig.2 below. The hole on the right serves no purpose, behind the center hole is the P2 button used for pairing the module with a motor controller and behind the hole on the left is a Red LED which will illuminate when any of the buttons are pressed.

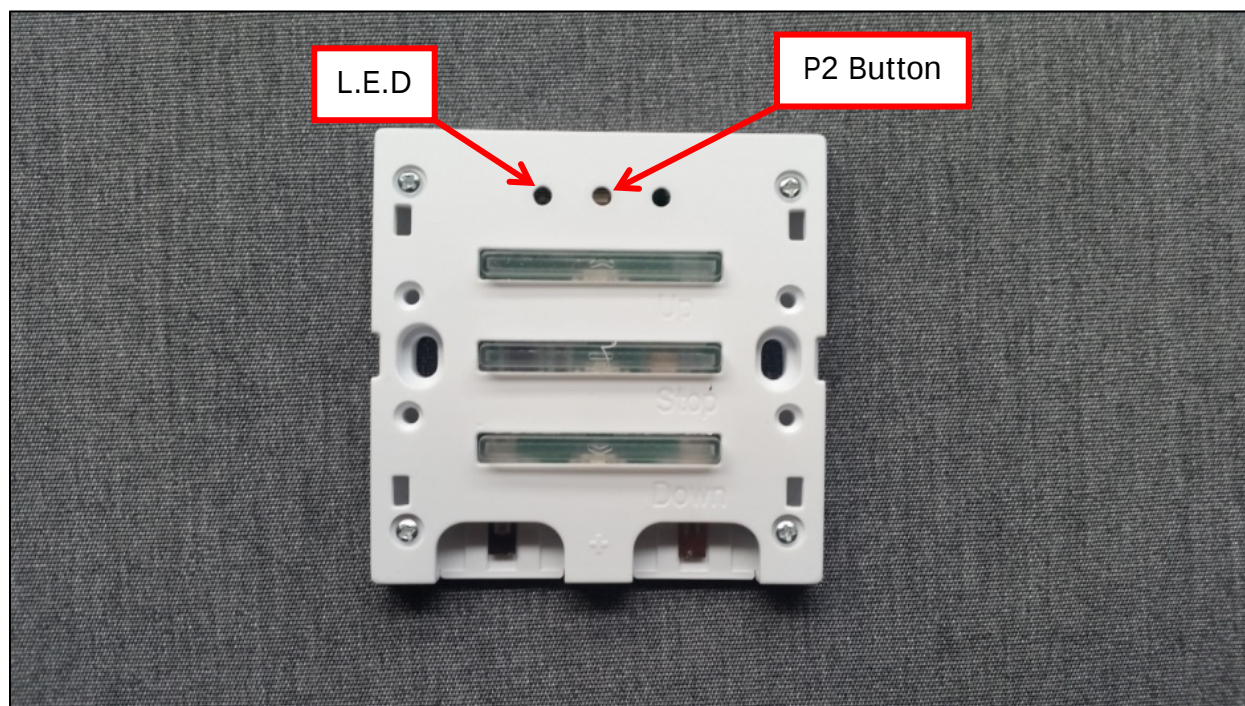


Fig.2

When pairing with the 98GC74 it is advised that the awning to be controlled is manually extended couple of feet to enable the programmer to see if the awning is responding in the correct direction when the buttons on the wall switch are pressed.

The programming window for this module is only 6 seconds so please ensure that the programming instructions are read and understood before attempting to execute them.

- 1) Supply power to the motor control module. (It will beep ONCE)
- 2) Press the P2 button on the wall switch TWICE. (The motor controller will beep with each press)
- 3) Press the IN button on the wall switch. (The awning should retract)

If the awning extends at this point instead of retracting, press the STOP button immediately, then remove the power supply to the motor controller for at least 10 seconds.

Next repeat steps 1 and 2 above then press the OUT button on the wall switch to complete the programming procedure.

Ensure that the awning responds correctly to the wall switch by pressing the OUT, STOP and IN buttons alternately.

98GC230 DUAL CHANNEL WALL SWITCH

The faceplate can be removed easily by holding the module firmly in one hand at the left and right edges and push the STOP button with two fingers of your other hand. Fig.1 below shows how the batteries must be inserted.

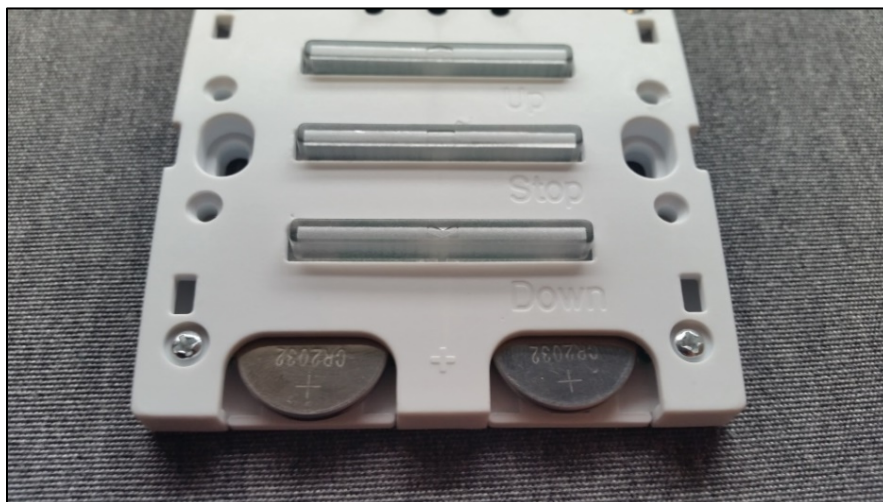


Fig.1

The module has three circular holes above the IN button as shown in Fig.2 below. Behind the hole on the right is the Channel 2 P2 button used to pair devices with the second channel of this transmitter, behind the center hole is a Red LED which will illuminate when any of the buttons are pressed. Behind the hole on the left is the Channel 1 P2 button used for pairing devices with the first channel of this transmitter.

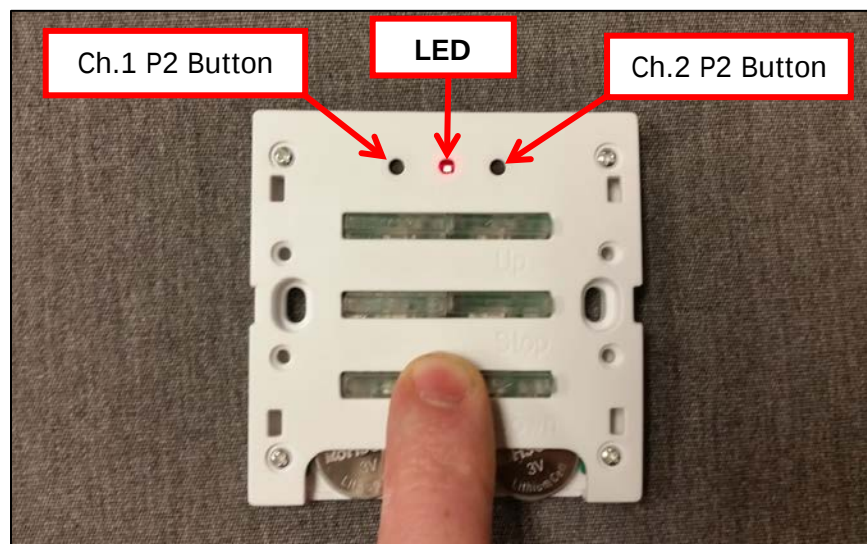


Fig.2



When pairing with the 98GC74 it is advised that the awning to be controlled is manually extended couple of feet to enable the programmer to see if the awning is responding in the correct direction when the buttons on the wall switch are pressed.

The programming window for this module is only 6 seconds so please ensure that the programming instructions are read and understood before attempting to execute them.

First choose which of the two channels are to be paired with the motor controller, then;

- 1) Supply power to the motor control module. (It will beep ONCE)
- 2) Press the selected channel's P2 button on the wall switch TWICE. (The motor controller will beep with each press)
- 3) Press the IN button on the wall switch. (The awning should retract)

If the awning extends at this point instead of retracting, press the STOP button immediately, then remove the power supply to the motor controller for at least 10 seconds.

Next repeat steps 1 and 2 above then press the OUT button on the wall switch to complete the programming procedure.

Ensure that the awning responds correctly to the wall switch by pressing the OUT, STOP and IN buttons alternately.

GC661B MULTI CHANNEL WALL SWITCH

The faceplate can be removed easily by holding the module firmly in one hand at the left and right edges and push on the faceplate below the display screen with two fingers of your other hand. Fig.1 below shows how the batteries must be inserted.



Fig.1

Close the battery tray and replace the faceplate, you will find the pushbuttons clearly marked. See Fig.2 below.



Fig.2



When pairing with the 98GC74 it is advised that the awning to be controlled is manually extended couple of feet to enable the programmer to see if the awning is responding in the correct direction when the buttons on the wall switch are pressed.

The programming window for this module is only 6 seconds so please ensure that the programming instructions are read and understood before attempting to execute them.

First determine which channel of the wall switch is to be paired with the motor controller, then;

- 1) Select the desired channel on the wall switch using the CH button.
- 2) Supply power to the motor control module. (It will beep ONCE)
- 3) Press the P2 button on the wall switch TWICE. (The motor controller will beep with each press)
- 4) Press the IN button on the wall switch. (The awning should retract)

If the awning extends at this point instead of retracting, press the STOP button immediately, then remove the power supply to the motor controller for at least 10 seconds.

Next repeat steps 1 and 2 above then press the OUT button on the wall switch to complete the programming procedure.

Ensure that the awning responds correctly to the wall switch by pressing the OUT, STOP and IN buttons alternately.

GC104 SINGLE CHANNEL HANDSET

The GC104 is the simplest of devices, IN and OUT buttons clearly marked. If you should wish to stop the awning at any point press the center of the control pad. See Fig.1 below. On the back of the handset you will find the P2 button and the battery tray, Fig.2 illustrates how the battery should be inserted.



Fig.1

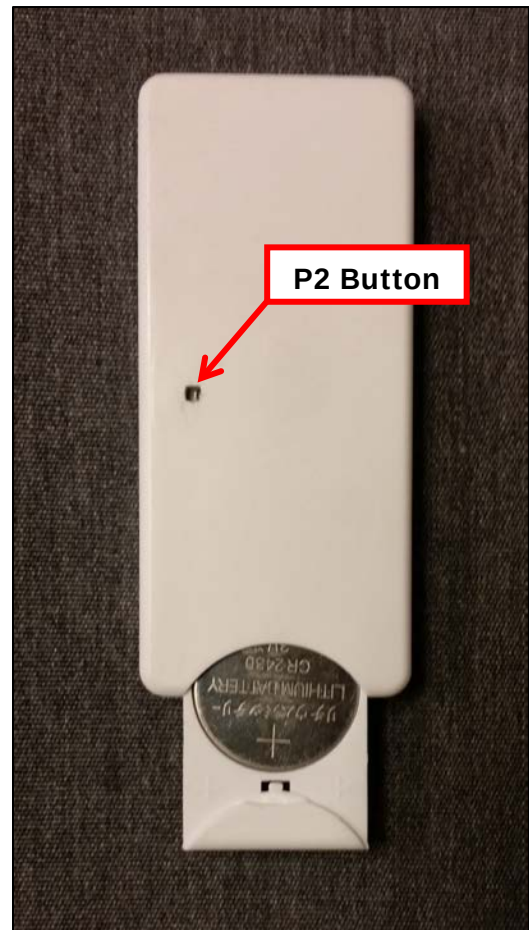


Fig.2



When pairing with the 98GC74 it is advised that the awning to be controlled is manually extended couple of feet to enable the programmer to see if the awning is responding in the correct direction when the buttons on the wall switch are pressed.

The programming window for this module is only 6 seconds so please ensure that the programming instructions are read and understood before attempting to execute them.

- 1) Supply power to the motor control module. (It will beep ONCE)
- 2) Press the P2 button on the handset TWICE. (The motor controller will beep with each press)
- 3) Press the IN button on the handset. (The awning should retract)

If the awning extends at this point instead of retracting, press the STOP button immediately, then remove the power supply to the motor controller for at least 10 seconds.

Next repeat steps 1 and 2 above then press the OUT button on the handset to complete the programming procedure.

Ensure that the awning responds correctly to the handset by pressing the OUT, STOP and IN buttons alternately.

MULTI CHANNEL HANDSETS GC104/105A/106/107

The handsets listed above differ only in the number of channels they can be programmed to. They all operate and are programmed in exactly the same way. The circular control pad is clearly marked with IN at the top and OUT at the bottom. Channel select are to the left and right and STOP is in the center. The LCD display will indicate which channel is in use, see Fig.1. On the back of the handset you will find the P2 button and the battery tray, Fig.2 illustrates how the battery should be inserted.



Fig.1

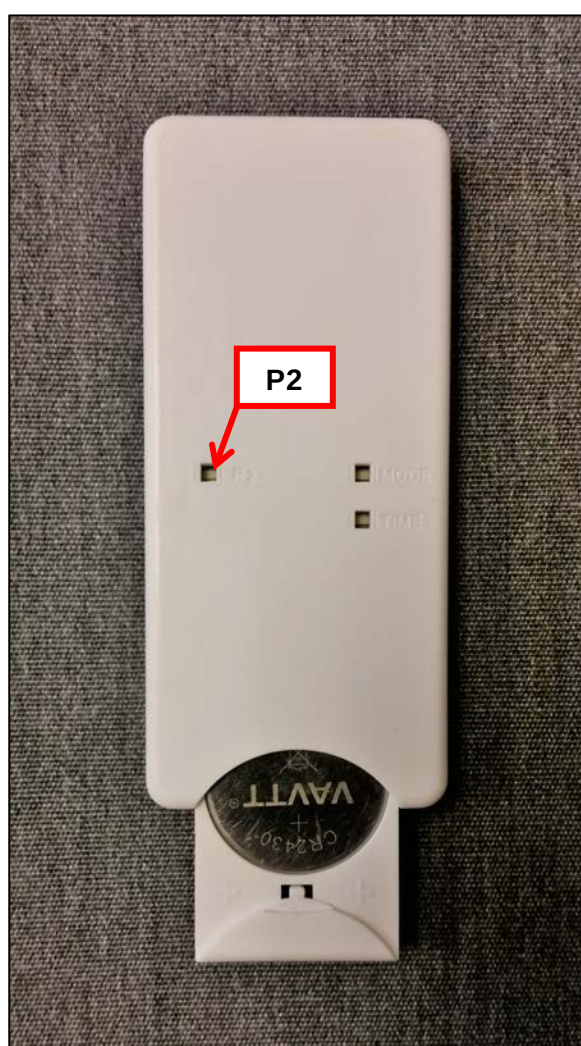


Fig.2



When pairing with the 98GC74 it is advised that the awning to be controlled is manually extended couple of feet to enable the programmer to see if the awning is responding in the correct direction when the buttons on the wall switch are pressed.

The programming window for this module is only 6 seconds so please ensure that the programming instructions are read and understood before attempting to execute them.

First determine which channel of the handset is to be paired with the motor controller, then;

- 1) Select the desired channel on the handset using the Channel select buttons.
- 2) Supply power to the motor control module. (It will beep ONCE)
- 3) Press the P2 button on the back of the handset TWICE. (The motor controller will beep with each press)
- 4) Press the IN button on the handset. (The awning should retract)

If the awning extends at this point instead of retracting, press the STOP button immediately, then remove the power supply to the motor controller for at least 10 seconds.

Next repeat steps 1 and 2 above then press the OUT button on the handset to complete the programming procedure.

Ensure that the awning responds correctly to the handset by pressing the OUT, STOP and IN buttons alternately.



PAIRING WITH ADDITIONAL DEVICES

As mentioned in the Product description the 98GC74 can be paired with up to 20 compatible devices, wall switches handsets and others. The first device to be paired with the 98GC74 Motor Controller shall now be referred to as the PRIMARY REMOTE which is used to program all additional devices which shall be referred to as the SECONDARY REMOTE or SECONDARY DEVICE. To add a secondary device to the motor controller, carefully follow the steps below.

Note; when carrying out this part of the procedure each step must be executed within 6 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) First ensure that the Primary remote device is functioning correctly.
- 2) Ensure that the Secondary device has the battery /batteries inserted correctly.
- 3) Press the P2 Button on the Primary Remote TWICE (The Motor controller will beep with each press)
- 4) Press the P2 Button on the Secondary remote ONCE (The motor controller will beep again)
- 5) Press IN or OUT on the Secondary remote and ensure that the awning responds accordingly.

REMOVING AN ADDITIONAL DEVICE

Select the Secondary device that is to be removed from the 98GC74's list and follow the steps below;

- 1) Press the P2 Button on the device ONCE (The Motor controller will beep in response.
- 2) Press the STOP Button on the device ONCE.
- 3) Press the P2 Button on the device again. The Motor controller will beep several times indicating that the secondary device has been cancelled.

PAIRING WITH A MOTION SENSOR

Identify the Primary remote which operates the Motor controller for the awning on which the motion sensor is to be mounted. There may be more than one on the vehicle.

Prepare the Motion Sensor for pairing 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.

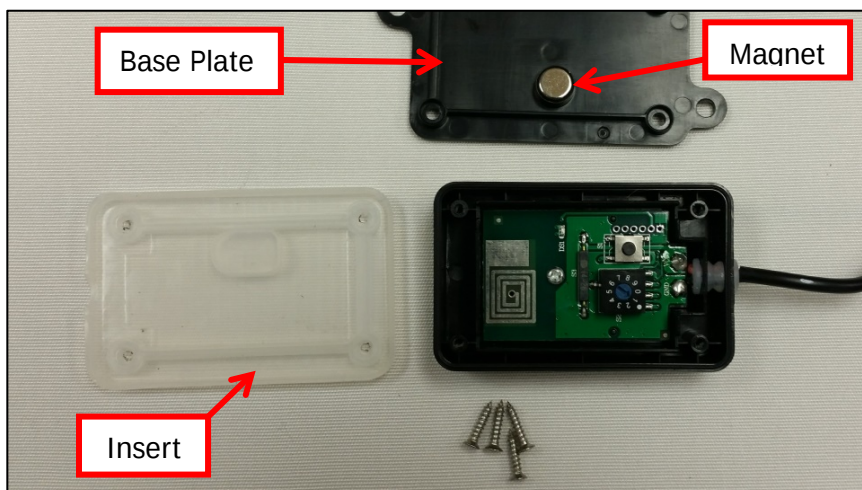


Fig.3

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.**

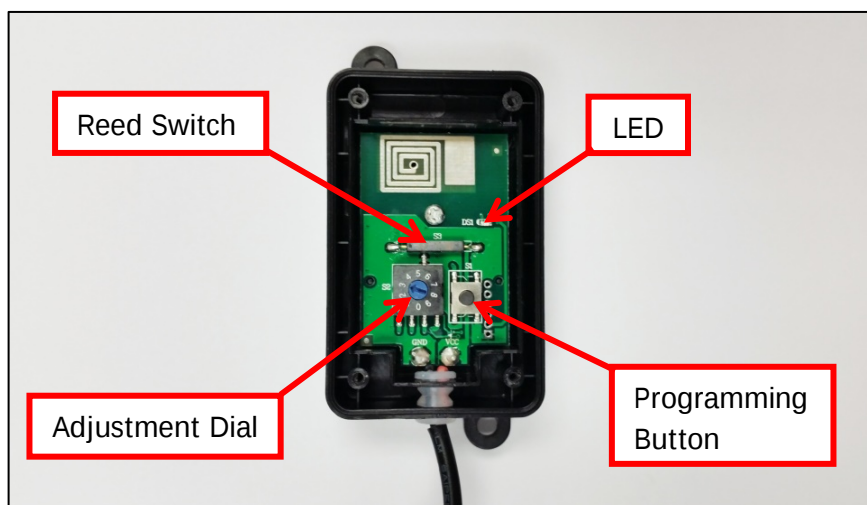


Fig.4

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 handset.



Note; When carrying out this part of the procedure each step must be executed within 6 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 Motion sensor Adjustment Dial to 0. (See Fig.4).
- b. 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.
- c. Using an appropriate tool, press the P2 Button on the back of the Remote Controller TWICE. The 98GC74 will bleep ONCE with each press.
- d. Press the programming button on the GC779G Motion sensor ONCE (See Fig.4). The 98GC74 will bleep several times to indicate that the program has been accepted.
- e. Ensure that the code was accepted by pressing the Program button on the GC779G Motion sensor again. The Awning should make a small step IN or OUT. Or shake the motion sensor and the Awning will fully retract.
- f. If the Awning does not retract, repeat steps a. to d.
- g. 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 it on the awning lead rail.

PAIRING WITH A GC116I ANEMOMETER

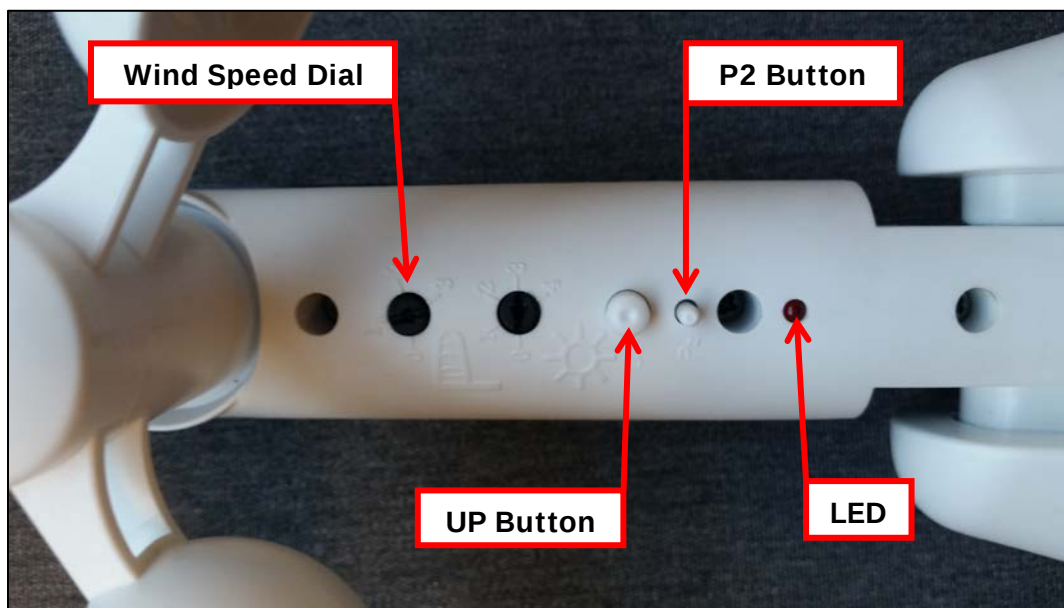


Fig.1

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 Primary remote.

Set the wind speed dial between 1 and 2 on the anemometer. See Fig.1 above.

Note: when carrying out this part of the procedure each step must be executed within 6 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 Primary remote TWICE (The Motor controller will beep with each press)
- 3) Press the P2 button on the Anemometer ONCE (The motor controller will beep several times to indicate that the program has been accepted)
- 4) Press the up button on the Anemometer or physically activate it by spinning the cups to retract the awning.

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.



This manual is provided courtesy of **RV Tech Cheat Sheet**



Professional resources for the whole RV industry — free.

We put manuals, wiring diagrams and hard-won tech knowledge in every technician's hands, so repairs get done right the first time, techs work faster, and RV owners everywhere get better service.



rvtechcheatsheet.com/manuals

Find thousands more RV manuals, wiring diagrams and parts lists

RV techs: share fixes, ask questions and learn from each other.

Join our free Facebook group →



Follow proper safety practices. If in doubt, consult a professional RV technician.