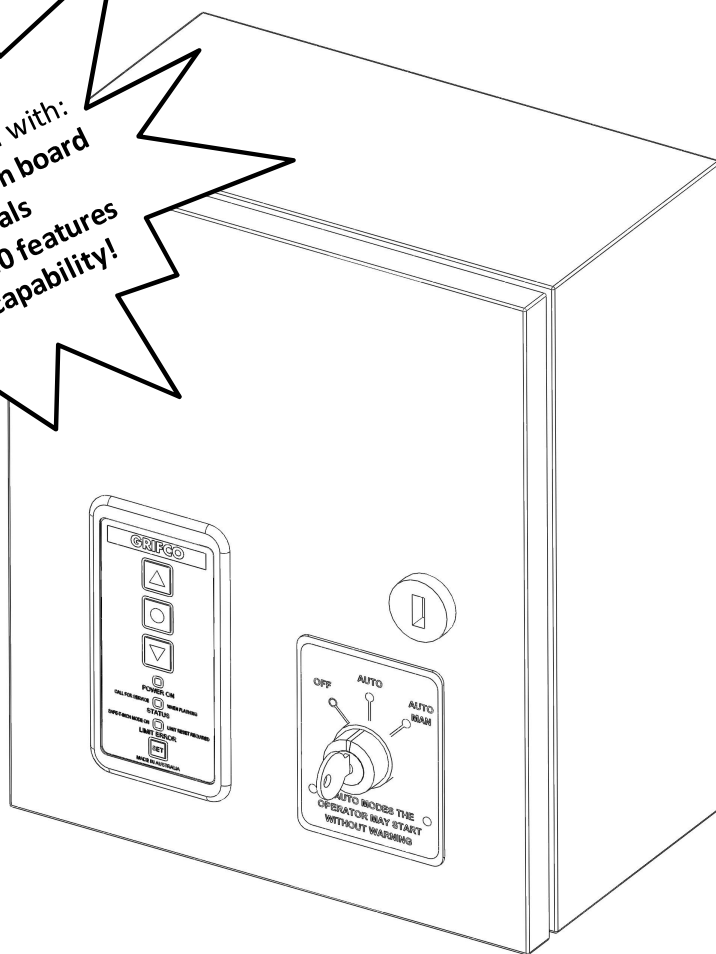


# GRIFCO®

## *GLMe2*

## **+2.0**

**NEW** easy to use model with:  
- Security +2.0 radio on board  
- Easy access terminals  
- Shared eDrive+2.0 features  
and expansion capability!



installation and users manual for  
GLMe2 and GLMe2-N  
commercial door controls

[www.grifco.com.au](http://www.grifco.com.au)  
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NSW 1595, Australia  
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Phone toll free 0800 653 667

## Safety Symbol and Signal Word review

This commercial door control has been designed and tested to offer safe service provided it is installed, operated, maintained and tested in strict accordance with the instructions and warnings contained in this manual.



### WARNING

Mechanical



### WARNING

Electrical

### CAUTION

When you see these Safety Symbols and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from something mechanical or from electric shock.

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your commercial door and/or the commercial door opener if you do not comply with the cautionary statements that accompany it.

### THESE ARE IMPORTANT SAFETY INSTRUCTIONS. FOLLOW ALL INSTRUCTIONS AS INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY OR DEATH



**Keep commercial door balanced.** Sticking or binding doors must be repaired. Commercial doors, door springs, pulleys, brackets and their hardware are under extreme tension and can cause serious personal injury. **Do not attempt to loosen, move or adjust them.** Call for commercial door service.



Where applicable, permanently fasten all supplied **labels** adjacent to the wall control as a convenient reference and reminder of safe operating procedures.



**Do not wear rings, watches or loose clothing** while installing or servicing a commercial door opener.



**Disengage all existing commercial door locks** to avoid damage to commercial door. Install the control (or any additional push buttons) **in a location where the commercial door is visible during operation**. **Do not allow children to operate push button(s) or remote control(s).** Serious personal injury from a closing commercial door may result from misuse of the opener.



To avoid serious personal injury from entanglement, **remove all ropes connected to the commercial door** before installing the door control.



**Activate opener only when the door is in full view, free of obstructions and opener is properly adjusted. No one should enter or leave the building while the door is in motion.**



Installation and wiring must be in compliance with your local building and electrical codes. **Connect the power supply cord only to properly earthed mains if applicable.**



**An electrician must disconnect electric power to the commercial door opener and control before making repairs or removing covers.**



Moisture and water can destroy the electronic components. Make sure under all circumstances that water moisture or storage moisture cannot penetrate the electronics. The same applies for openings and cable entries.



**The actuating member of a biased-off switch is to be located within direct sight of the door** but away from moving parts. **Unless it is key operated,** it is to be installed at a minimum height of 1500mm and **not accessible to the public.**



**After the installation a final test of the full function of the system and the full function of the safety devices must be done.**



**Make sure that people who install, maintain or operate the door follow these instructions.** Keep these instructions in a safe place so that you can refer to them quickly when you need to.



When operating a biased-off switch, make sure that other persons are kept away.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



**The opener cannot be used with a driven part incorporating a wicket door** (unless the opener cannot be operated with the wicket door open).



**If the opener is installed at a height less than 2.5 metres from floor level or any other level from which the unit can be accessed (eg mezzanine) the installer is responsible to fit guards to the opener to prevent access to the chain drive.**



Motor may become hot during operation. Appropriate clearance and/or shielding should be supplied by the installer to ensure any cabling, wiring and/or other items cannot come in contact with the motor. If temperature rise exceeds 50°C all fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.



**Use the commercial door control for its intended purpose.** GLMe2/N controls are designed for operating Grifco openers on spring balanced roller shutters, spring balanced roller doors and counterweighted bi-fold and vertical lift doors.



**WARNING: Important safety instructions. It is important for the safety of persons to follow all instructions. SAVE these instructions.**

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## INTRODUCTION

Congratulations on your purchase of the Grifco® GLMe2 Door Control. The GLMe2 is a state-of-the-art door control using proven, feature packed electronics to enable operation of Grifco mDrive and other mechanical limit commercial door openers.

The GLMe2 now carries the same features as the eDrive+2.0 range. This includes the new superior Security +2.0 radio on board.

## PLANNING

The GLMe2 is designed to work with all motor types, both single and three phase utilising mechanical limit systems. You will need to ensure there are 2 x normally closed limit switches on the opener that will be connected to the control.

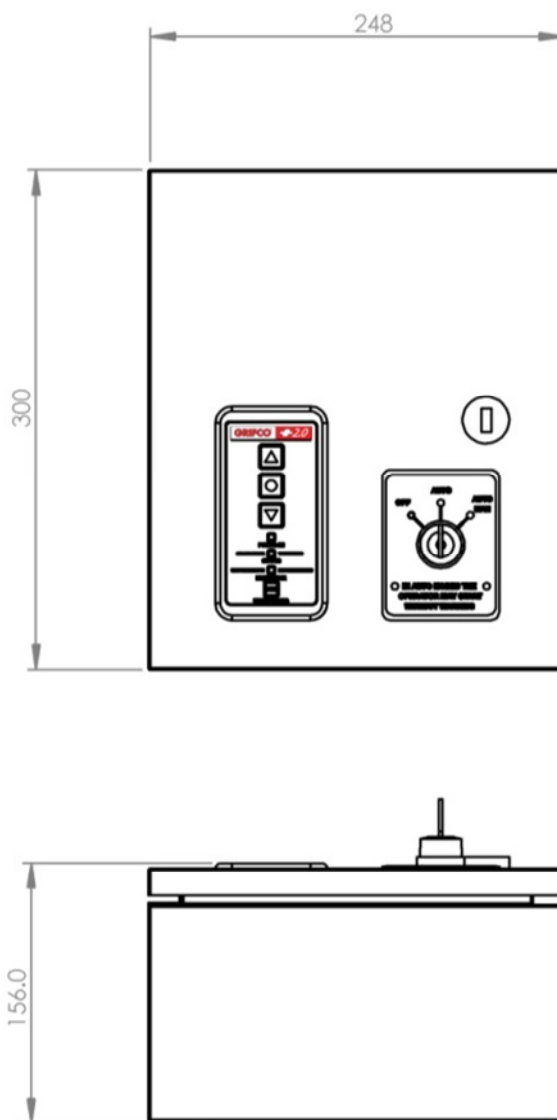
Ensure sufficient room exists to mount the control to the wall below the opener. Dimensions shown (right).

Some optional accessories may also be included such as a IR safety beams, transmitters or other access control devices. Ensure these items are with you before attending site.

The GLMe2 control will not allow latching or auto closing without the use of an appropriate safety device, such as an IR Beam, Safety Edge or similar Entrapment Protection System.

Examples of suitable IR beams include:  
GPS15(RK) or GPS772(RK).

Where accessories are included, refer to the relevant instructional literature provided.



## CAUTION

Please remove any locks fitted to the door before operation in order to prevent damage to the door.



## WARNING

Make sure that people who install, maintain or operate the door follow these instructions. It is advised that the instruction be kept in a safe place so that you can refer to them quickly when you need to.

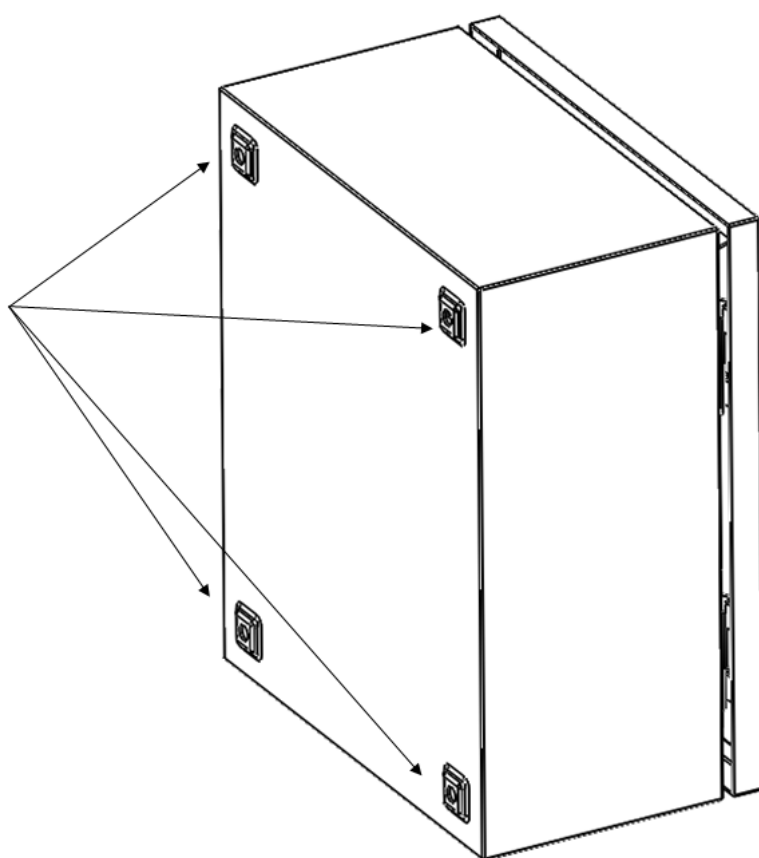
## MOUNTING

Mount the GLMe2 using 4 x mounting holes in the base of the enclosure as shown.

Holding the enclosure against the wall as a template (and with lid open), mark the mounting holes in the base using a suitable marking pen.

Depending on the surface to be installed against, select the appropriate fastener (#8 gauge minimum) type and drill fixing holes to the marked locations and secure accordingly.

Mount through these 4 x holes  
in the enclosure base.





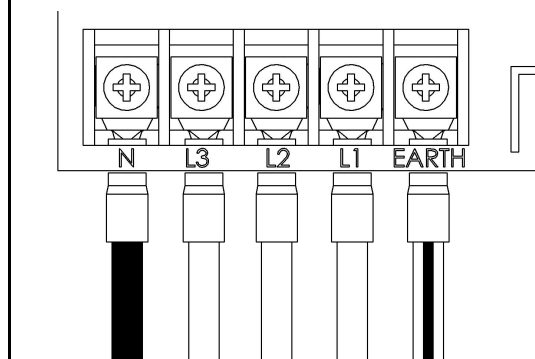
# ELECTRICAL CONNECTION

The **GLMe2** control **must**:

- be connected via an approved electrical isolation device
- be connected via a suitable circuit breaker that disconnects all live conductors
- be connected in accordance with the wiring rules of the country in which it is installed
- not have control enclosures left open for extended periods (excess dust will void warranty)

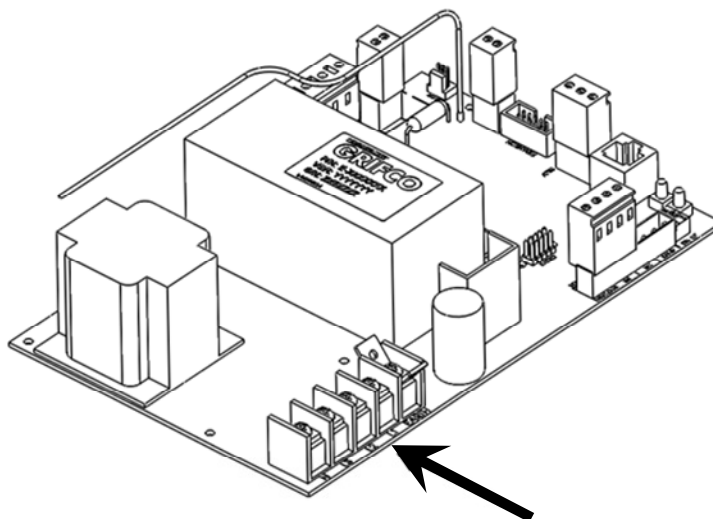
## SUPPLY CONNECTION

### A. 3 PHASE WITH NEUTRAL

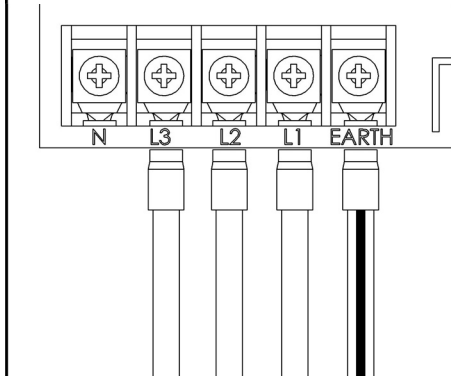


Supply connection for three phase with neutral

Examples of compatible models: ML053M, ML103M, MH103M & ML153M



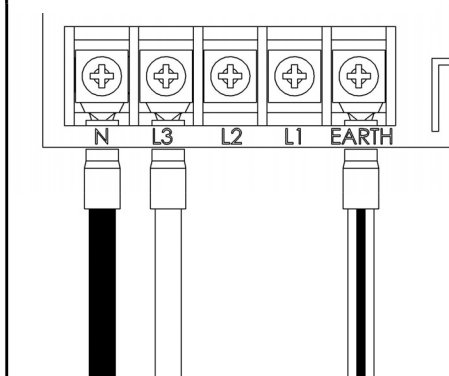
### B. 3 PHASE NO NEUTRAL



Supply connection for three phase **without** neutral

Examples of compatible models: ML053M, ML103M, MH103M & ML153M

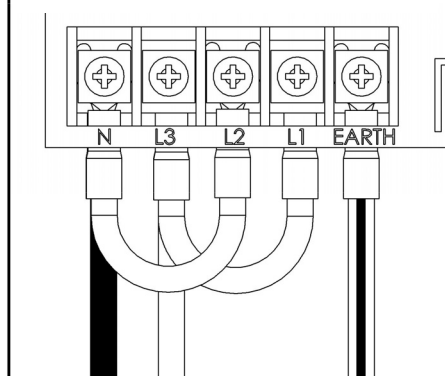
### C. SINGLE PHASE 3 WIRE



Supply connection for single phase builds 3 wire configuration

Example of compatible model: ML051M

### D. SINGLE PHASE 4 WIRE



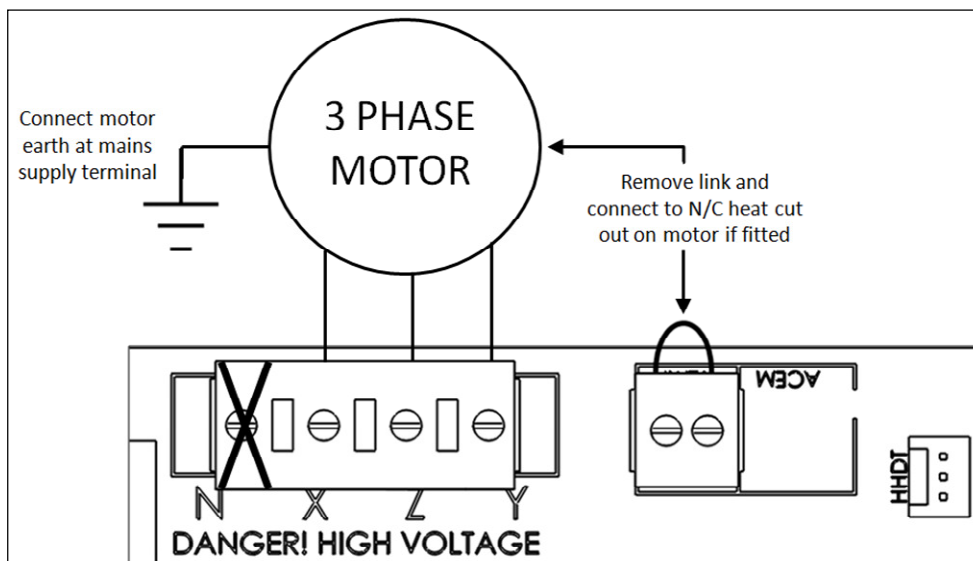
Supply connection for single phase builds 4 wire configuration (use links provided)

Example of compatible models: ML102M & MH102M

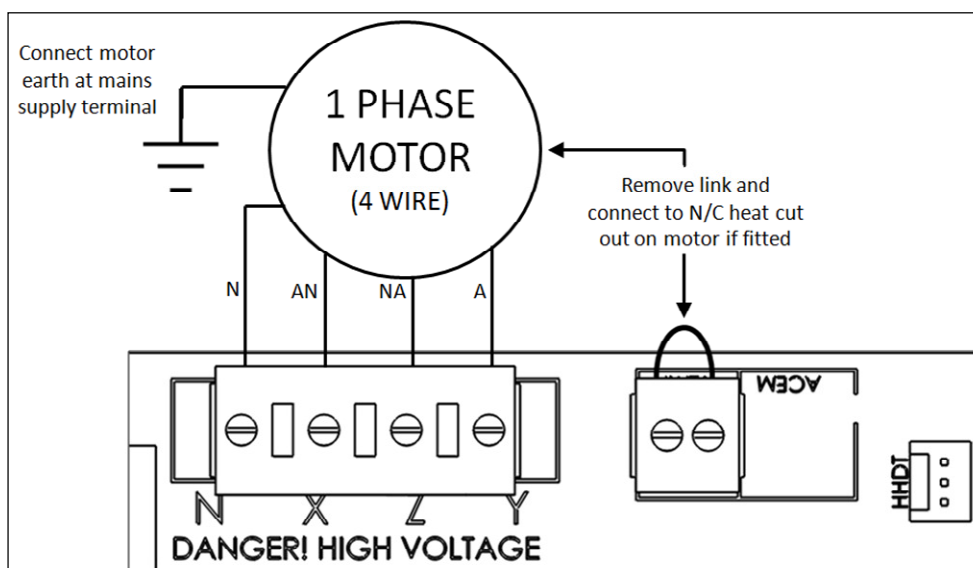
It is recommended that 1.5mm<sup>2</sup> (max.) wire size is used to avoid unnecessary crowding and difficulty when making connections. Avoid lengthy cable ends that may cause undue pressure on delicate components. It is recommended to crimp cable ends with fork or loop connectors to ensure a secure fitting in the terminal block.

## MOTOR CONNECTION

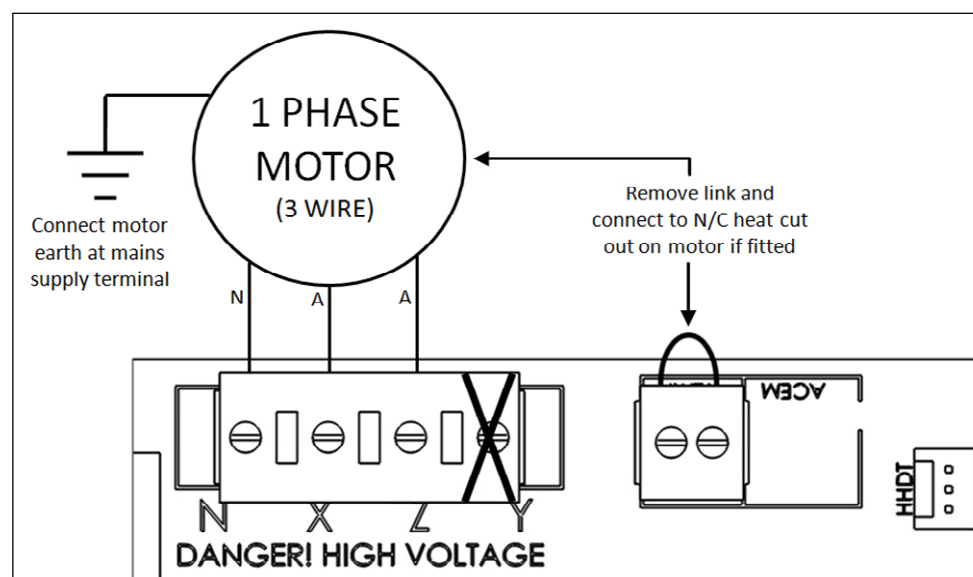
**FOR THREE PHASE, DO NOT CONNECT ANY WIRE TO THE NEUTRAL TERMINAL!!**



Examples of compatible Grifco® models: ML053M, ML103M, MH103M & ML153M



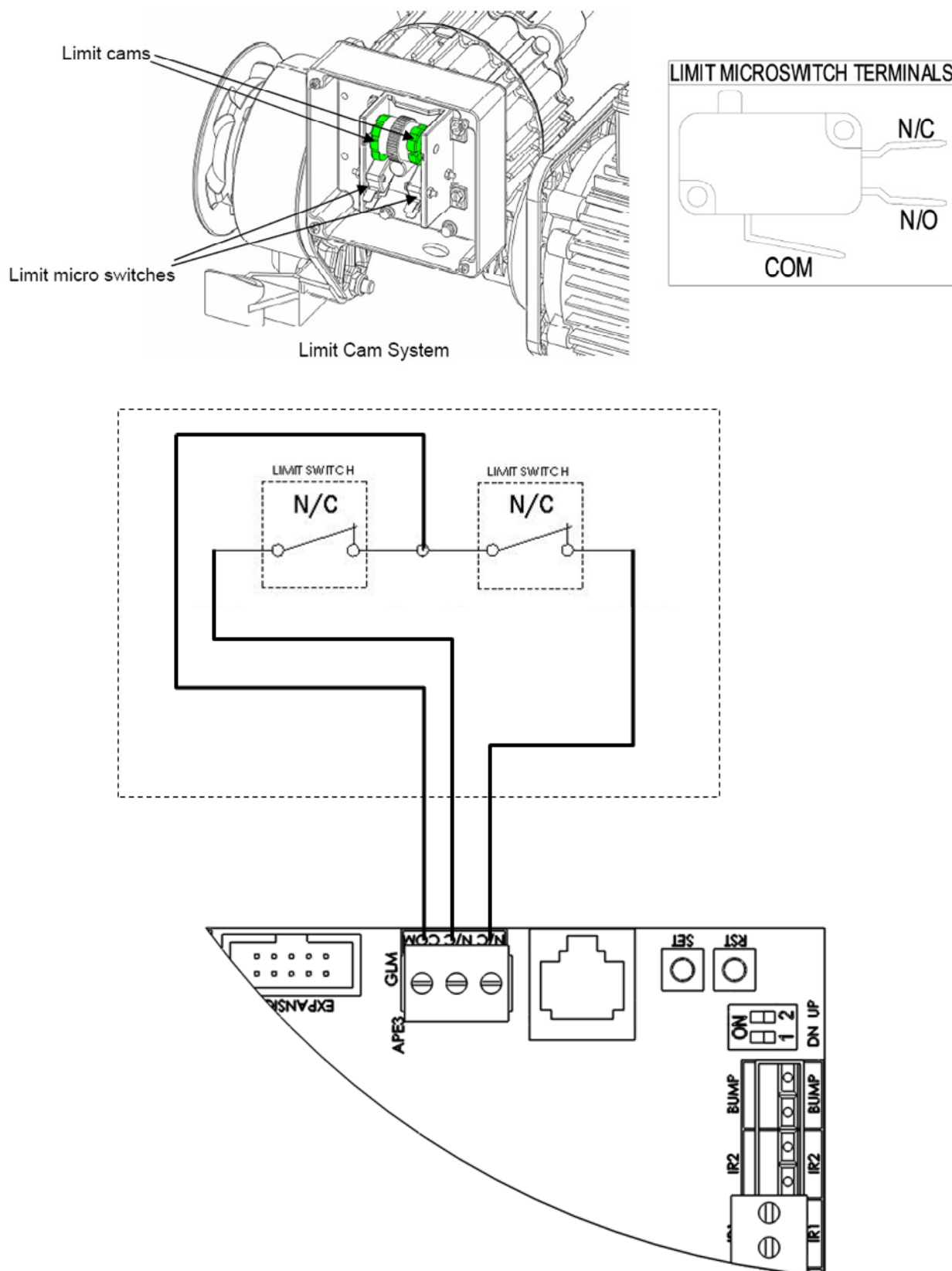
Example of compatible Grifco® models: ML102M & MH102M



Example of compatible Grifco® model: ML051M

## LIMIT CONNECTION

The GLMe2 is designed to be used with many different opener types that feature mechanical limits. A partial view of a typical Grifco® mDrive is shown below as an example. The diagram further below shows the connection required to the main control board within the GLMe2 control.



Connection of the primary wiring is now complete. Proceed to the following pages for set up of the door operation before connecting any safety devices or access control systems.



## CONTROL INTERFACE

The **GLMe2** controller is the user interface for the door and opener. It consists of four buttons for control and setup, as well as three indicators to display the opener status. In addition, a key switch is provided to select modes of operation for applications where security is required to prevent tampering.

The various user interface buttons and indicator lights are referenced throughout the manual. The Controller (pictured below) will often be referred to with regard to set up and commissioning of the door, including many of the GLMe2 features, and expansion capabilities.



### WARNING

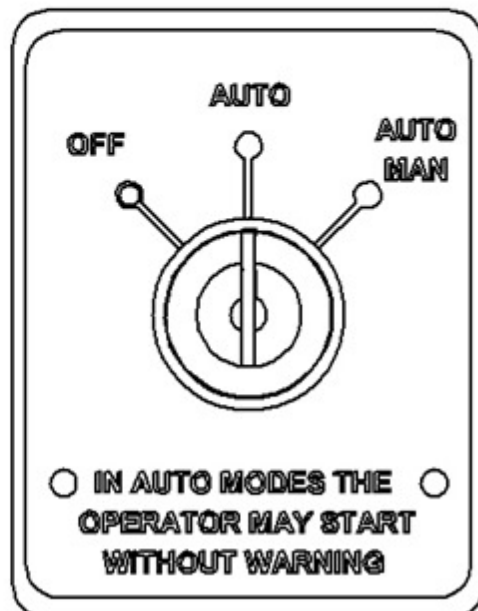
The OFF position on the key switch DOES NOT ISOLATE POWER. Power must be isolated at the source before accessing the control enclosure, or working on any aspect of the door or opener.

The key switch modes are detailed below:

- OFF:** The GLMe2 control will not operate from any source. WARNING!! THIS IS NOT POWER ISOLATION!!
- AUTO:** Isolates the Controller panel buttons to prevent tampering (typical mode for car park environments)
- AUTO / MAN:** Enables use of the Controller buttons for the purposes of service or where persons may need to operate the door from these push buttons. WARNING!! All other inputs remain active, i.e. wired and wireless signals.



Controller

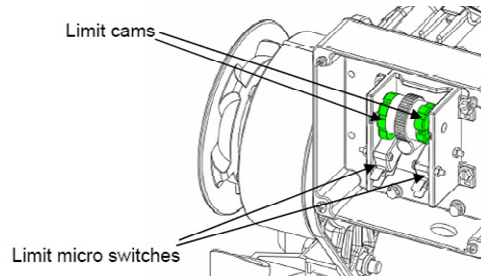


Key Switch

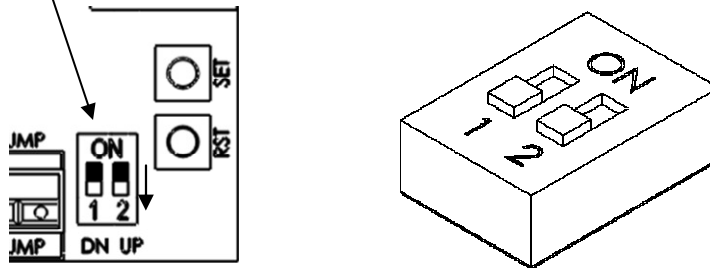
## SETUP AND ADJUSTMENT

With the primary connection of the GLMe2 and opener complete it is time to test the operation. Carefully follow the next steps to ensure safe setup:

- 1) Ensure the door is manually positioned away from the opened or closed position by at least 1 metre.
- 2) Check and make sure both limit cams are positioned away from their relevant micro switches.



- 3) Make sure the 2 x behaviour DIP switches on the MCB are set to INCH (OFF) for the door set up process.



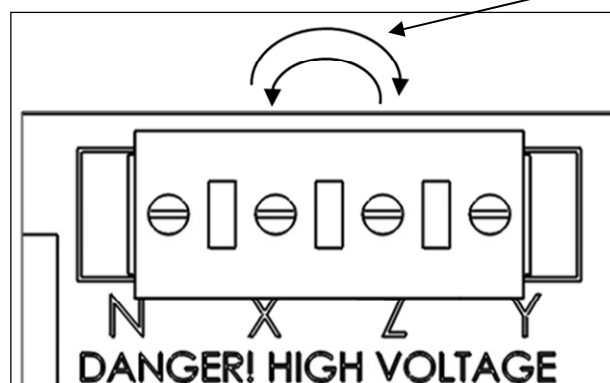
### Checking power

Apply mains power and ensure the unit is powered by checking that the POWER ON indicator on the controller is lit.

If the LIMIT ERROR light is lit there must be a limit connection problem, or both cams may be on their relevant switches.

### Door direction

Select AUTO/MANUAL via the key switch. You can now operate the door via the up/down buttons on the Controller panel. Observe the door direction in relation to the button pressed to ensure it is correct. If it is not, isolate power and swap wires X and Z at the motor terminals on the MCB as shown below.



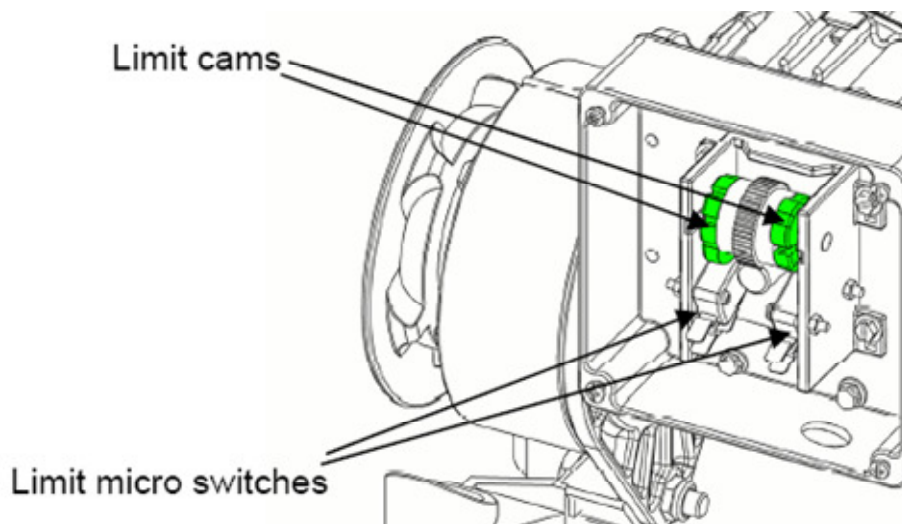
Now that the door direction is known to be correct, the limit setting steps can proceed on the following page.

### Setting limits

**WARNING: Limits are extremely sensitive; a small cam movement may correspond to a large amount of door travel.**

The following procedure relates to Grifco® cam type limits (pictured below). Other opener models may vary in the set up method. Refer to other literature where needed to ensure safe set up.

- Position one cam to depress a switch (the other should be well clear of the switch)
  - Note the switch that you have activated
- Set the key switch to Manual mode
- Supply power and press the open button momentarily
  - If the door moves up then the limit switch noted above is the bottom limit
  - If the door doesn't move it is the top limit (momentarily press the close button to confirm this)
- Proceed to adjust each friction held cam and operate the door to check the set positions.



## WARNING

### Entrapment Protection

The Entrapment Protection System for your installation will be determined by the functional requirements of the door. To ensure the installation meets these requirements refer to AS/NZS 60335-2-103.

When using the Grifco® Protector System as part of the Entrapment Protection System, ensure it is installed to detect a 100mm high obstacle, ie; approx 80mm from the floor, and in accordance with installation directions supplied.

Consideration should be given to the detection of vehicles or other similar equipment. To provide adequate Entrapment Protection an additional Grifco® Protector System may be required to be installed in a higher suitable position, for example, approx 600mm from the ground.



## WARNING

When removing or replacing jumpers on all circuit boards, mains power must be disconnected.



## WARNING

It is important to make sure the door always runs smoothly. Doors which stick or jam must be repaired immediately. Employ a qualified technician to repair the door, never attempt to repair it yourself.

## ENTRAPMENT PROTECTION DEVICE CONNECTION

### Installing Entrapment Protection Devices (may require terminal blocks P/N TBT2A-5)

Devices such as Infrared (IR) Beams and Safety Bump Edges allow safe automatic or latch closing of the door and **must** be wired directly into the MCB. Grifco® Entrapment Protection Devices such as the Grifco® Protector System (GPS15 or GPS772) and Bump Edge are wired into the quick connect inputs located next to the door behaviour dip switches on the MCB (shown below).

#### Connection overview:

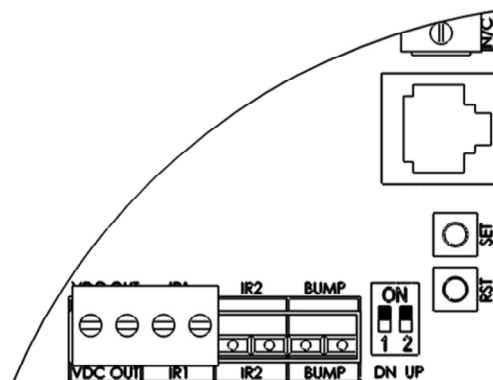
**IR1:** Monitored Grifco® Protector System (P/N GPS15, GPS772), or  
NC (normally closed) contact input

**IR2:** Monitored Grifco® Protector System P/N GPS15 or GPS772) or  
NC (normally closed) contact input

**VDC OUT:** Accessory power 24Vdc - unregulated  
(max 150mA)

For more detailed information, refer to the relevant Grifco® Protector System manual.

**BUMP:** Monitored 8K2 Resistor type Bump Edge input.

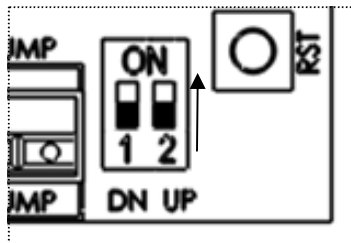
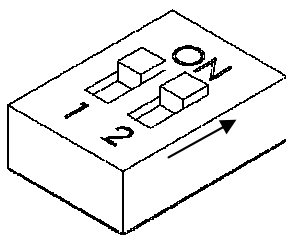


**Note:** When installing Entrapment Protection Devices ensure that the door is at the open limit position.

**Note:** All Entrapment Protection Devices need to be activated once after installation to be learned correctly. Normally closed Entrapment Protection Devices and monitored Bump Edges require one simulated obstruction to be learned by the opener. Once learned, latch closing will be allowed when set.

If the status light is flashing 2 or 3 times, there may be a connection problem, or misalignment of an IR beam device.

With connection of the Entrapment Protection System complete, set the door behaviour DIP switch to latch down and up as shown below. This will cause the door to latch both up and down. i.e. a momentary press of the up or down button will cause the door to run automatically to the fully opened or closed position.



Test proper operation of the installed Entrapment Protection System by operating the door in the closing direction and obstruction the device. The door should stop and reverse to the open position.

### Erase Entrapment Protection Devices

Press RST button on the MCB for at least 10 seconds until the green light blinks rapidly.

### Reactivate Entrapment Protection Devices

Re-install in accordance with the above instruction as required.

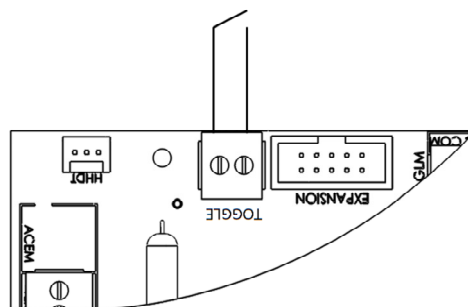
## WIRED ACCESS CONTROL / TOGGLE INPUT

A two wire access control / toggle input is provided on the MCB to allow access control based operation (e.g. key switch, card reader etc). The input will operate as "open-stop-close-stop-etc."

When Auto close is set, the toggle behaviour will become "open only". This is typical for a car park application.

When the toggle input is bridged\* and held (e.g. a timer or latching switch) the door will remain open (i.e. Auto Close ignored). If the bridge is released, Auto Close will resume.

\* If an Expansion Board is fitted, this feature will not be available on the MCB toggle input. Use Expansion Board Com/Open input instead.



## INSTALLATION EXPANSION

The GLMe2 can now be expanded in many ways to meet the requirements of your application.

The following describes a typical car park application that the GLMe2 is designed for. Read it thoroughly to better understand the capabilities of the GLMe2 before proceeding further with your installation.

### Example of a Typical Car Park Application

The GLMe2 has Car Park Access Control features included as standard.

For typical vehicular access applications, the product can be interfaced with access control devices and features an adjustable Auto Close function.

For vehicular access applications an Entrapment Protection System will be required — see “Installing Entrapment Protection Devices” on page 12.

#### Typical Car Park Configuration

- The opener must be installed in accordance with the instructions contained within this document.
- The Entrapment Protection Device/s must be installed before the product can be set for Auto Close.
- For Latch Up (open) and Latch Down (close) set the dip switches on the MCB in accordance with the “Setting Door Behaviour” instructions (see page 12)
- Set Auto Close in accordance with the instructions (see page 17).

#### Access Control Options

- Grifco® Security +2.0 Transmitter or other Grifco® Security +2.0 Wireless Accessories
- Swipe Card, Magnetic Key, Key Switch or similar access control device

The transmitter once programmed (see page 18) can control entry and exit for the user. Auto Close once set, will close the door after the programmed delay on both entry and exit.

Access control devices such as swipe card, magnetic key and other similar systems must be a two wire (normally open) voltage free interface and be connected to the toggle input on the MCB via the quick connect pluggable terminal block (see lower diagram on page 12).

#### Transmitter Management

If Transmitter Management is required, you will need a Grifco® STAR1000EVO. This accessory will allow up to 1000 identified users to be individually added and deleted. Contact 1800 GRIFCO® for more information.

#### Exit Control

The door can be configured to open from either a:

- Grifco® Security+2.0 Transmitter or other Grifco® Security+2.0 Wireless Accessory device, or
- Where a Loop Detector or similar access controls are required to trigger opening to exit, connect to the Toggle Input on the MCB via a quick connect pluggable terminal block as described above (see lower diagram page 12).

**Note – The Toggle Input will accept N/O inputs from multiple access control devices eg, both a separate entry and exit control.**

#### Auto Close Feature

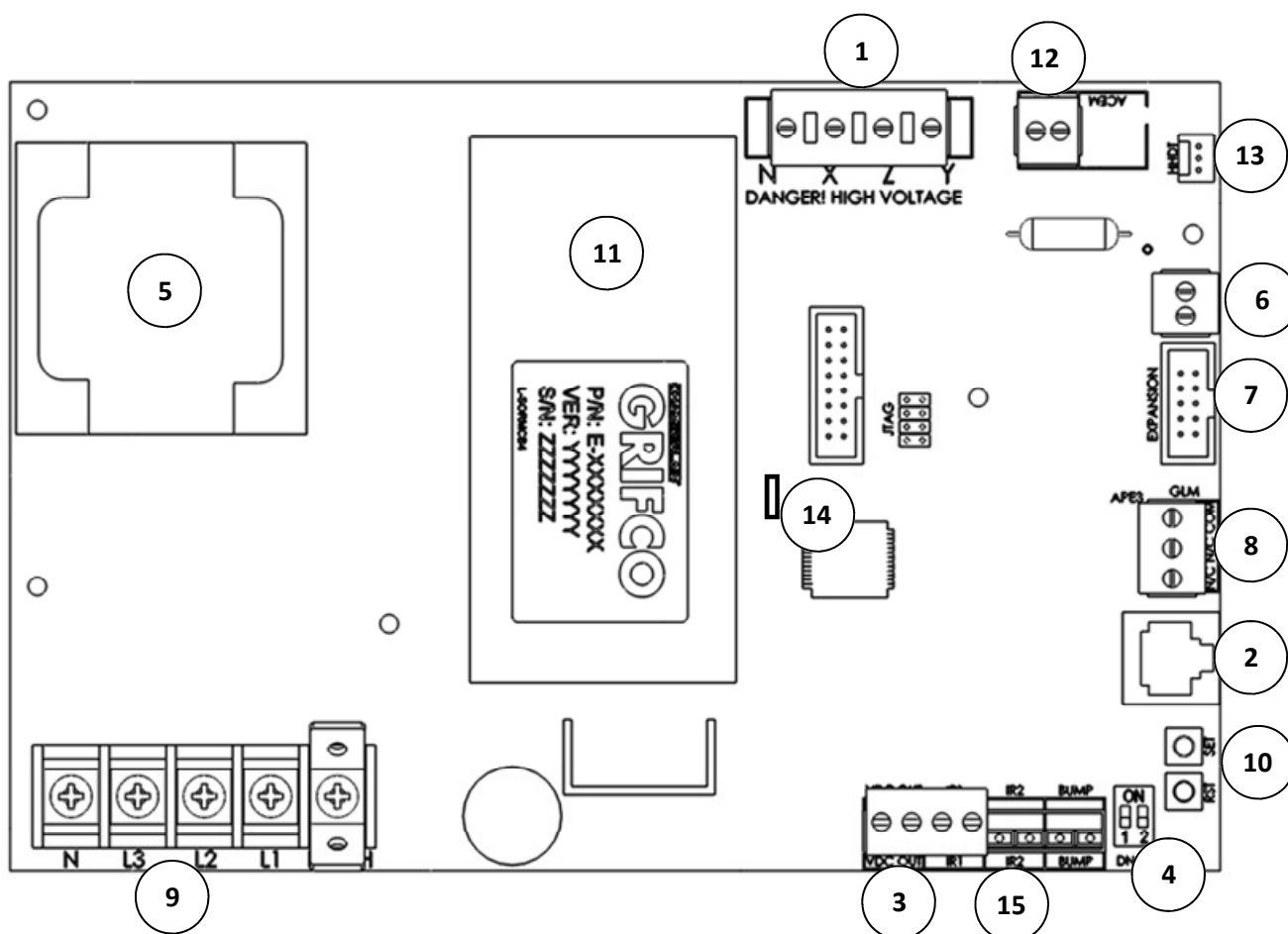
When Auto Close is enabled, the Toggle Input, and Receiver behaviour will become “Open Only” i.e. an activation via the Toggle Input or a Transmitter during opening, or Auto Close delay, will not close the door. Each activation will add Auto Close delay.

#### Advanced Logic Functionality

For applications where full logic functionality (eg relay status outputs, advanced door behaviour, building management system integration) is required please order the Grifco® EB1-G, Elite Expansion Board.

## MAIN CONTROL BOARD (MCB)

The MCB is the heart of the **GLMe2**. The diagram below provides an overview of the major components, connections and inputs.



<b>1</b>	Motor terminals	<b>10</b>	'Learn' and 'Reset' buttons
<b>2</b>	Controller connection socket	<b>11</b>	Mechanically interlocked contactors
<b>3</b>	VDC out (24Vdc accessory power)	<b>12</b>	Motor temperature cut-out terminals (N/C)
<b>4</b>	Door behaviour DIP Switches	<b>13</b>	HHDT input (diagnostic tool)
<b>5</b>	Transformer	<b>14</b>	Radio Lock (jumper fitted to lock)
<b>6</b>	Toggle Input	<b>15</b>	Entrapment Protection Device inputs
<b>7</b>	Expansion Board Input		
<b>8</b>	GLMe2 Mechanical limit terminal (2 x N/C)		
<b>9</b>	Power supply terminals		

**Note:** MCB layout may vary depending on build type

Depending on your application requirements, some of the following accessories may be included with your equipment. Review the following to determine if any of these items may be required to satisfy the customer needs if not already included.

# GRIFCO® Security +2.0 Accessories



## Forklift/Wall Remote

Experience the convenience of a versatile spare remote. Operate up to three doors or gates with one remote that can be fitted to a car, forklift or in the warehouse or factory.

**Model:** E943G (3 Button)



## 3 Button Key Ring Remote

Key ring remote transmitters are small and convenient with the ability to operate up to three doors or gates from the one unit. A must have for every set of keys for warehouse workers on site.

**Model:** E945G



## Wireless Wall Control

The wireless wall control can be placed in a suitable location in your warehouse. There is no wiring and it can operate up to two doors and has a unique hold to close feature that is available without IR beams installed.

**Model:** E138G



## Wireless Keypad

Secure Keyless entry via a four digit PIN code. The wireless keypad can be programmed with up to twelve user codes and has the option for temporary codes that last for as many hours or door openings as you select. Now you can have secure keyless entry and a unique hold to close feature that is available without IR beams installed.

**Model:** E840G



## Infrared (IR) Reflective Beam

The new Grifco Protector System is a market leading pre-wired "plug-in" monitored reflective IR beam. The Protector System reduces installation time and features an adjustable IR beam assembly that increases alignment flexibility.

**Model:**

GPS15 - Reflective beam kit

GPS15RK - Above including 2 x E945G transmitters

**Send / Receive type also available:**

GPS772 - Send/Receive beam kit

GPS772RK - Above including 2 x E945G transmitters



## STAR1000EVO

The STAR1000EVO is a high capacity transmitter management system for commercial door openers, and dry contact triggered devices. The STAR1000EVO is compatible with Security +2.0 remote controls and wireless keypads. The receiver capacity is 1,000 wireless accessories and can be any combination of remote controls and wireless entry devices.

**Model:**

STAR1000EVO

**- Call 1800 GRIFCO for assistance with any of the above accessories, or other enquiries -**



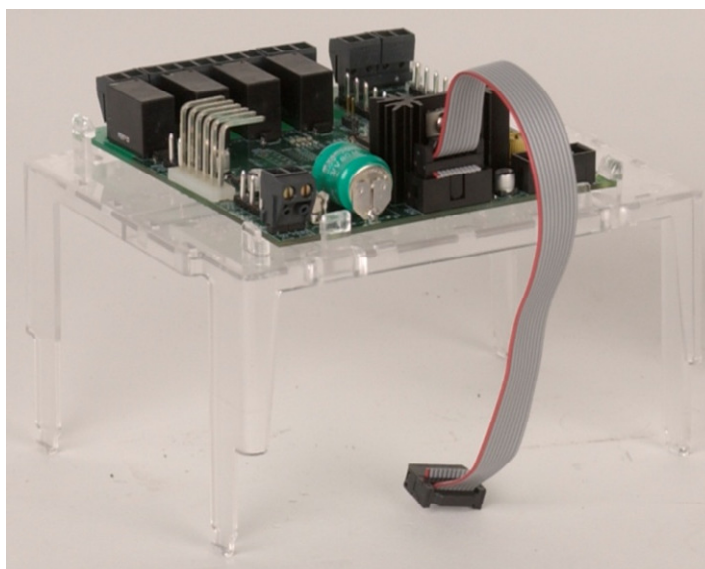
### Expansion Board: Model EB1-G

The Expansion Board pictured below (EB1-G) allows the GLMe2 to be upgraded to provide many expanded features where special functionality or interfacing is required.

Some features include:

- Auto Close fine adjustment delay (0 to 300 seconds)
- Variable obstruction behaviour settings (including vehicle close)
- Trigger Input with variable door action sequences
- Connection to 3rd party 6 pin radio receiver cards
- Independently variable wired or wireless access input responses
- 4 configurable status relays to allow connection to external devices, e.g. lights, sounders, interlocks etc
- Emergency Services open and close inputs
- Option to hard wire dedicated AUTO & MANUAL modes

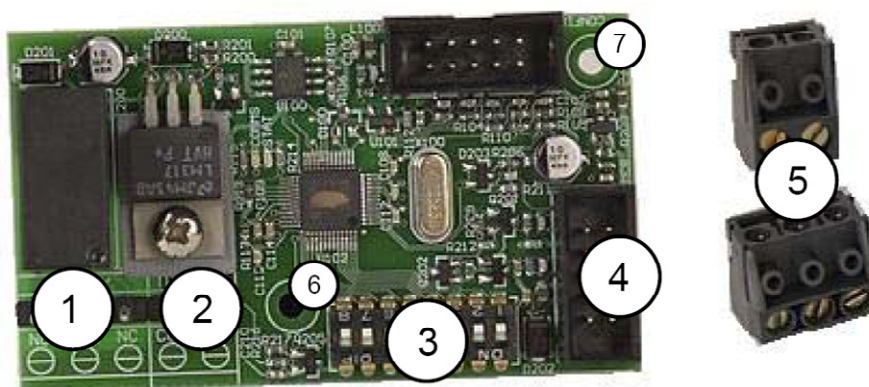
Simply contact **1800 GRIFCO** or your local dealer and order **P/N EB1-G**



### Mini Expansion Board: MinEB

The MinEB pictured below provides a relay output with adjustable behaviors, and an auxiliary OPEN\CLOSE trigger input. It is the perfect solution for connecting a simple peripheral device to the GLMe2 operator, such as an open status light, dock leveler interlock, alarm switchboard, hazard lights etc.

Simply contact 1800 GRIFCO or your local dealer and order **P/N MinEB**



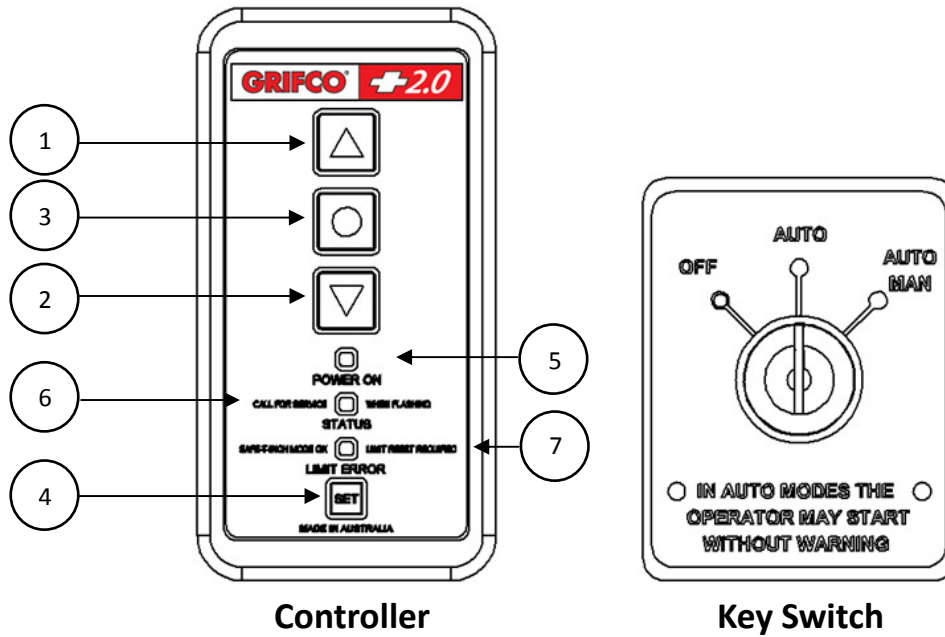
1 – Output relay terminal pins  
2 – Trigger input terminal pins  
3 – Dipswitches

4 – Cable socket  
5 – Terminal blocks for terminal pins  
6 & 7 – Mounting holes

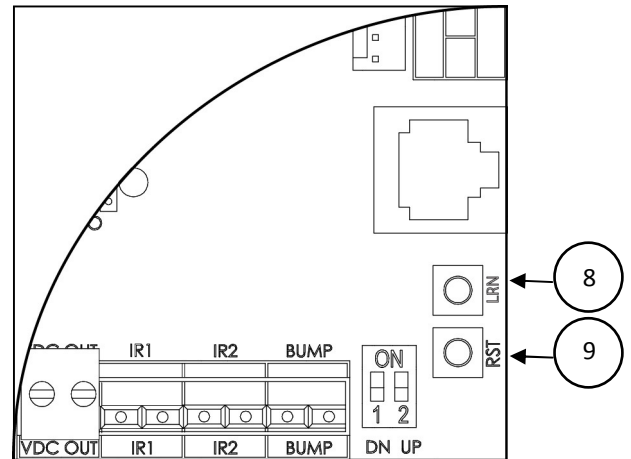


## AUTO CLOSE & WIRELESS ACCESSORY SET UP

### Controller and MCB button reference



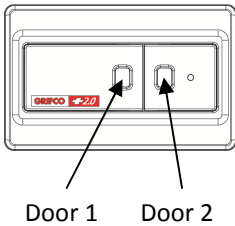
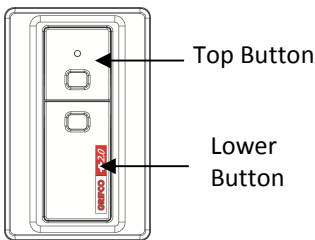

1. **UP** —Moves the door upwards
2. **DOWN** —Moves the door downwards
3. **STOP** —Stops the door
4. **SET** —Used primarily to set limits
5. **POWER ON** —Shows when the unit is mains powered
6. **STATUS** —Shows the status of the unit
7. **LIMIT ERROR** —When lit indicates limits are not set
8. **LRN** —Enables learning of new remotes
9. **RST** —Reset board. Hold this button for 10 seconds to erase and force re-learn of safety Entrapment Protection Devices.



Action	Button Sequence
<b>SET AUTO TIMER TO CLOSE FROM THE CONTROLLER</b> ( with no expansion board fitted)	<ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button, then whilst holding press the <b>DOWN</b> button 3 times (<b>green</b> status light ON solid)</li> <li>Press the <b>UP</b> button to increase the auto-timer to close setting in 10-second increments</li> <li>Press the <b>DOWN</b> button to decrease the auto-timer to close setting in 10-second increments</li> <li>Note: the <b>green</b> light will flash according to the number of 10-second increments have been set, then goes back to solid ON. For example, a 5-minute auto-close will be set by increasing the increments until the <b>green</b> light flashes 30 times</li> <li>Press <b>SET</b> to accept setting and exit learn mode</li> <li>Note: To cancel the Auto-timer-to close function, enter the learn mode and press the <b>DOWN</b> button until the number of 10-second increments is ZERO. The <b>green</b> light will flash repeatedly to indicate the function has been reset, then return to solid ON</li> <li>Press STOP to exit</li> </ul>

## AUTO CLOSE & WIRELESS ACCESSORY SET UP

**NOTE:** Radio Lock jumper (if fitted) must be removed from the MCB before wireless accessories can be learnt. Ref page 14.  
For security reasons the Radio Lock should be refitted after the wireless learn sequence is completed.

Action	Button Sequence
<b>LEARNING A NEW WIRELESS ACCESSORY (e.g. a transmitter) FROM THE CONTROLLER</b>	<ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button, then whilst holding press <b>STOP</b> 5 times (<b>green</b> status light will light then continue flashing. Indicating learn mode)</li> <li>Press the desired <b>WIRELESS ACCESSORY BUTTON</b> to learn (<b>orange</b> limit light will flash fast after each wireless accessory is successfully learnt)</li> <li>Press <b>STOP</b> to exit learn mode</li> </ul>
<b>LEARNING A NEW WIRELESS ACCESSORY FROM THE MCB</b>	<ul style="list-style-type: none"> <li>Press the <b>LRN</b> button (green status light will light then continue flashing, indicating learn mode)</li> <li>Press the desired <b>WIRELESS ACCESSORY BUTTON</b> to learn (orange limit light will flash fast after each wireless accessory is successfully learnt)</li> <li>Press <b>LRN</b> button again to exit learn mode</li> </ul>
<b>ERASE ALL LEARNED WIRELESS ACCESSORIES FROM THE CONTROLLER</b>	<ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button, then whilst holding</li> <li>Press the <b>STOP</b> button 4 times, holding on the fourth press for 5 seconds (green light will flash 5 times, then fast flash to indicate completion)</li> <li>Check that previously learned wireless accessories no longer work</li> </ul>
<b>LEARN THE E138G WIRELESS WALL CONTROL FROM THE CONTROLLER</b>  	<p>The E138G can be used as a two channel wireless wall control for use on one or two doors, or as a dedicated <b>up/down</b> wireless wall control. In either application for the door to latch down an Entrapment Protection Device must be installed. Without Entrapment Protection in two channel configuration the wall control will function as an <b>open/stop</b> device only and in dedicated <b>up/down</b> configuration the down button will operate as “hold to close” only.</p> <p><b>Two Channel Wireless Wall Control</b></p> <ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button, then whilst holding press <b>STOP</b> 5 times (<b>green</b> status light will light then continue flashing. Indicating learn mode)</li> <li>Press the desired <b>WIRELESS ACCESSORY BUTTON</b> to learn door 1 (<b>orange</b> limit light will flash fast after each wireless accessory is successfully learnt)</li> <li>Repeat previous step to learn door 2 (if required)</li> <li>Press <b>STOP</b> to exit learn mode</li> </ul>
	<p><b>Dedicated Up/Down Wireless Wall Control (only for applications without entrapment protection)</b></p> <ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button, then whilst holding press <b>STOP</b> 5 times (<b>green</b> status light will light then continue flashing. Indicating learn mode)</li> <li>Press the <b>E138G TOP</b> button (the orange <b>LIMIT ERROR</b> light will flash at each button press)</li> <li>Then press the <b>E138G LOWER</b> button</li> <li>Press the <b>STOP</b> button on the GRIFCO® controller (the green light will continue to flash)</li> <li>Press the <b>E138G LOWER</b> button again (the green light will go out indicating exit of learn mode)</li> </ul>
<b>LEARN THE E840G WIRELESS KEYPAD FROM THE CONTROLLER</b>  	<ul style="list-style-type: none"> <li>Press and hold the <b>SET</b> button on the GRIFCO® controller, then</li> <li>While holding the <b>SET</b> button, press the <b>STOP</b> button 5 times (the <b>green</b> status light will light then continue flashing, indicating learn mode)</li> <li>Enter a 4-digit PIN code into the keypad (step 3)</li> <li>Press the <b>ENTER</b> button (step 4) (orange LED flickers on controller)</li> <li>To enter additional PIN codes (up to 12) repeat steps 3 &amp; 4</li> <li>Press <b>STOP</b> to exit learn mode</li> <li>Install the <b>RADIO LOCK</b> button on the MCB to prevent any further wireless accessories being learnt, or erased without authority</li> </ul> <p><b>NOTE:</b> The Grifco® Security + 2.0 Wireless Keypad provides :</p> <ul style="list-style-type: none"> <li>Wireless security access</li> <li>Wireless hold to close (for applications without entrapment protection, e.g. IR beams)</li> </ul>



**Power MUST be turned off before servicing or adjusting the opener. Disconnect the supply when cleaning!**

The GLMe2 is equipped with smart logic to indicate when your commercial door will require servicing. When the STATUS indicator flashes constantly please contact your commercial door dealer to arrange a routine door service.

Frequently examine the installation for imbalance and signs of wear or damage to cables, springs and mounting. Do not use if repair or adjustment is necessary. Power must be turned off before servicing, cleaning or adjusting the opener.

\* Service Status Indicator is factory set to OFF. To enable this feature a Chamberlain Hand Held Diagnostic tool is required (refer bottom of page). Service interval must be determined by the installer based on the projected door usage.

Certain mechanical aspects of the installation as applicable must be checked, see below:

#### **Monthly**

- Examine the installation for imbalance and signs of wear or damage to cables, springs and mounting. Do not use if repair or adjustment is necessary \*
- Check chain alignment, tension and condition. Adjust / replace if required \*
- Check PE / IR beam/s and bump edge functionality where applicable

#### **Quarterly**

- Check tightness of fixing bolts and (sprocket) grub screws. Adjust if required \*
- Check correct electrical operation
- Check manual operation via hand chain
- Lubricate the drive chain \*
- Check door balance. The drive chain should display a transition of tension from one side of the linkage to the other in the lower half of the roller door travel. This transition is the 'balance' point. Adjust if required \*
- Conduct door maintenance in accordance with door manufactures guidelines. This will include door balance \*

\* SERVICE MUST BE CARRIED OUT BY A QUALIFIED TECHNICIAN

#### **To view total cycles (limits must be set)**

- Drive to door to closed limit.
- Press and hold CLOSE for 10 seconds.
- After 10 seconds and while still holding CLOSE, press and release the SET button.
- Status LED will light up indicating number of cycles performed.

**To read number of cycles, follow the 'Reading Status Flashes' routine described below.**

#### **Reading Status Flashes**

- STATUS indicator will start flashing to signify the value of the least significant digit of the overall number. A solidly lit indicator stands for zero.
- Press set to view the next digit.
- Continue previous step until the STATUS indicator flashes quickly for 1 second then goes out. This signifies that the entire number has been displayed.

#### **To reset error**

(This process indicates there has been a severe problem. Persistent resetting will void warranty and may damage the door and/or opener). This procedure will only work when the status light is flashing **4, 5, 9, 10, 14** or **15** times.

- Hold the STOP button for 10 seconds
- While still holding the STOP button, press and release the SET button

The STATUS indicator should flash quickly for 1 second. Any errors that were flashing should have stopped.

#### **HHDT (Handheld Diagnostic Tool)**

The HHDT allows you to set service interval warnings, and view numerous statistics and information including, total cycles, cycles since service, viewing software version, number of transmitters programmed and load reversals.

The input can be found in the corner of the MCB adjacent to the ACEM terminal, see page 14 No.13.

The diagnostic tool is also used to enable the service cycle alert (refer HHDT manual for procedure). The GLMe2 service cycle alert is factory set in disabled mode.



**Status Indicator (Green) Flash / Problem Table**

No. flashes/ Problem	Meaning	Possible causes	Possible Solutions
Solid ON	Motor running		
2	Infrared beam and/or Bump edge obstruction N/C beam removed	IR beam obstructed Bumper edge pressed The opener has detected removal of an Entrapment Protection	<ul style="list-style-type: none"> <li>• Clear obstruction</li> <li>• Remove pressure from bump edge</li> <li>• Set DIP 1 to OFF and press 'reset' (RST) button on MCB for 10 seconds. Re-learn any remaining Entrapment Protection Devices</li> </ul>
3	Entrapment Protection Device removed	The opener has detected removal of an Entrapment Protection Device	<ul style="list-style-type: none"> <li>• Set DIP 1 to OFF and press 'reset' (RST) button on MCB for 10 seconds. Re-learn any remaining Entrapment Protection Devices (see page 15)</li> </ul>
4	MCB error	Internal Error	<ul style="list-style-type: none"> <li>• Power off, and on. If un-resettable replace MCB</li> </ul>
5	EB internal error	EB disconnected or ignored from MCB	<ul style="list-style-type: none"> <li>• Return EB to the installation or resolve EB issue, refer EB1 Manual</li> </ul>
12	Thermal overload	Motor overheating	<ul style="list-style-type: none"> <li>• Use opener less frequently</li> <li>• Upgrade to a high cycle opener</li> </ul>
14	Direction error	Motor connections altered	<ul style="list-style-type: none"> <li>• Change door direction and reset limits</li> </ul>
Constant flash	Due for service	Door is due for routine service	<ul style="list-style-type: none"> <li>• Contact your local door dealer to arrange service</li> </ul>
No Lights Displayed	Power failure – No lights on MCB or Controller *With lights on at MCB	Power supply not correctly connected *Bad connection to Controller	<ul style="list-style-type: none"> <li>• Check transformer</li> <li>• Check power supply wiring</li> <li>• *Refer below if lights are on at MCB and not on Controller</li> </ul>
Push button not responding	Opener does not drive up and / or down	Bad connection to Controller Damaged Controller cable Controller buttons forced and dislodged from rear of lid	<ul style="list-style-type: none"> <li>• *Check RJ45 plugs are clipped in securely at Controller and MCB</li> <li>• *Check connections</li> <li>• *Replace Controller cable</li> <li>• *Replace Controller</li> </ul>
Open or Close button not responding but green light comes on	Coil failure or incorrect motor wiring if green light on whilst holding up or down button and opener does not move in one direction	Extreme vibration or impact during transit Incorrect motor terminal connection	<ul style="list-style-type: none"> <li>• Replace MCB</li> <li>• Correctly wire the motor</li> </ul>

**IMPORTANT NOTE:**

If a problem is found with an installation, be sure to read the troubleshooting guide thoroughly. If the problem persists call Chamberlain for technical assistance on **1800 GRIFCO®** or email **customerservice@chamberlainnz.com** in Australia or in New Zealand call **0800 653 667**.



**Power MUST be turned off before servicing or adjusting the opener. Disconnect the supply when cleaning!**

**1. No indicator lights on controller:**

- Are there any indicator lights ON the MCB (Main Control Board)?

**YES...** Check connection between MCB and wall control

**Check for damage to control cable**

**NO...** Check power supply

**2. Power light illuminated on controller but door will not go up:**

- Does the green status light come ON when button is being pressed?

**YES...** Check for loose motor terminal connection

**NO...** Check for control circuit isolating switch or connection between MCB and controller

**Check for damage to control cable**

**3. Power light illuminated on controller but door will not go down:**

- Is the green status light flashing **2** or **3** times?

**YES...** 2 times - check for obstructions or IR beam misalignment

3 times - check for persistent IR beam obstruction, misalignment or bump edge wiring problem

Check for correct wiring connection and DIP switch settings on MCB

**NO...** *continue onto next question*

- Does the green status light come ON when down button is being pressed?

**YES...** Check for loose motor terminal connection

**NO...** Check for control circuit isolating switch or connection between MCB and controller

**Check for damage to control cable**

**4. Opener activates from controller but not remotes:**

- Are limits set?

**YES...** Change remote battery. Check key switch position is in Auto or Auto/Man and check MCB and Expansion board (if fitted) DIP switches are set correctly. Check that remote is learned and receiver card is picking up signal

**NO...** Set limits.

**5. Works from controller but automatic functions do not: (only applicable when using an Expansion Board)**

- Is there a solid orange (COMS) light on the Expansion Board?

**YES...** MCB (Main Control Board) must be reset. Call Chamberlain (1800 GRIFCO) for resetting procedure

**NO...** Make sure key is in correct position

**6. Power light intermittently goes OFF and ON:**

- Is the power light going off on the MCB also?

**YES...** Check supply wiring

**NO...** Check connection between MCB and controller

**Check for damage to control cable**





## CHAMBERLAIN LIMITED WARRANTY

### Grifco Products

Chamberlain Australia Pty Limited / Chamberlain New Zealand Limited (**Chamberlain**) is committed to manufacturing and supplying high quality goods. As part of this commitment, we seek to provide reliable service and support for our goods and are pleased to provide you, the original purchaser, with this Chamberlain Limited Warranty.

We also provide the following statement as required by the Australian Consumer Law: In Australia, in addition to your rights under this Chamberlain Limited Warranty, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

#### Chamberlain's warranty

Chamberlain warrants to the original purchaser of the Grifco product (**Unit**) that:

- 1 The Unit (excluding the electric motor) is free from defects in materials and workmanship for a period of 24 months from the date of purchase.
- 2 The electric motor is free from defects in materials and workmanship for a period of 12 months from the date of purchase.

During the applicable Chamberlain Warranty period, if you are concerned that the Unit or electric motor may be defective, call our service centre on the toll free number below before removing the Unit and a Chamberlain technician will diagnose the problem. Once the problem has been diagnosed, subject to your rights under the Australian Consumer Law with respect to major failures, Chamberlain will provide you with:

- 1 parts for "do-it-yourself" repairs; or
- 2 shipping instructions for a factory repair or replacement.

If a factory repair or replacement is required, provided the defective part or Unit is returned to Chamberlain well-packaged and in accordance with Chamberlain's shipping instructions, Chamberlain will, subject to your rights under the Australian Consumer Law with respect to major failures:

- 1 in relation to the Unit (excluding the electric motor), repair or, at its option where permissible, replace any defective part or Unit (excluding the electric motor) and return it to you at no cost; and
- 2 in relation to the electric motor, replace the electric motor and return it to you at no cost.

Where the Unit has been installed by an authorised installer, you must call them for prompt on-site service. Chamberlain will furnish replacement parts free of charge through the authorised installer. A service fee for on-site service may apply.

Repairs and replacement parts provided under this Chamberlain Limited Warranty are provided free of charge and are warranted for the remaining portion of the original warranty period.

This Chamberlain Limited Warranty provides benefits which are in addition to your other rights and remedies as a consumer.

#### Exclusions

If our service centre determines that a warranty claim has been made in respect of a failure or defect arising under or out of any exclusion detailed below such that the claim is not covered under this Chamberlain Limited Warranty, we may, subject to your other rights and remedies as a consumer, charge you a fee to repair, replace and/or return the Unit to you.

This Chamberlain Limited Warranty does not cover any failure of, or defect in, the Unit due to:

- 1 non-compliance with the instructions regarding installation, operation, maintenance and testing of the Unit or of any product with which the Unit is used;
- 2 any attempt by a person other than an authorised installer to change settings, repair, dismantle, reinstall or move the Unit to another location once it has been installed;
- 3 tampering, neglect, abuse, wear and tear, accident, electrical storm, excessive use or conditions other than normal commercial use;
- 4 use of the Unit in conjunction with controls which have not been supplied, or pre-approved, by Chamberlain;
- 5 problems with, or relating to, the commercial door or commercial door hardware, including but not limited to the door springs, door rollers, door alignment, hinges, guides, slats and drums; or
- 6 problems caused by electrical faults.

If this Chamberlain Limited Warranty does not apply, you may have rights available to you under the Australian Consumer Law.

#### Liability – Australia only

Except as set out in the Australian Consumer Law (being Schedule 2 of the *Competition and Consumer Act 2010*) (as amended, consolidated or replaced):

- 1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
- 2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

#### Liability – New Zealand only

Except as set out in the *Fair Trading Act 1986* and the *Consumer Guarantees Act 1993* (as amended, consolidated or replaced):

- 1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
- 2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

#### Note

We request that you retain your sales docket or invoice as proof-of-purchase and attach it to this manual to enable you to establish the date of purchase in the unlikely event of a warranty service being required. Chamberlain reserves the right to change the design and specifications of the Unit without prior notification. Some features or accessories of the Unit may not be available in certain markets or areas. Please check with your distributor.

#### Chamberlain service centre contact details

##### Australia

Phone toll free 1800 474 326  
Fax toll free 1800 888 121  
Unit 1, 75 Epping Road  
North Ryde, NSW 2113

##### Email

customerservice@chamberlainanz.com

##### New Zealand

Auckland phone 09 477 2823  
Phone toll free 0800 653 667  
Fax toll free 0800 653 663

##### Websites

www.grifco.com.au or www.grifco.co.nz