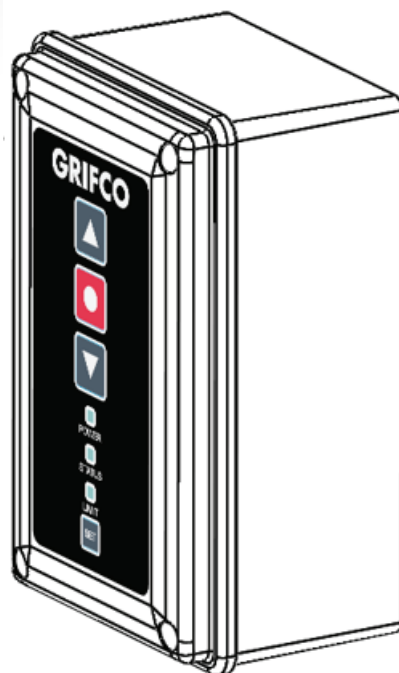


C10A

INSTRUCTION MANUAL



C10A

Chamberlain Australia Pty Ltd
Unit 1, 75 Epping Rd
North Ryde NSW 2113
Ph: 1800 GRIFCO
www.grifco.com.au

Ref: D-M-ACG-086B

Chamberlain New Zealand Ltd
17B Arrenway Drive, Rosedale 0623
Auckland
Ph: 0800 653 667
www.grifco.co.nz



GRIFCO®

SAFETY INSTRUCTIONS



WARNING: THESE ARE IMPORTANT SAFETY INSTRUCTIONS.
FOLLOW ALL INSTRUCTIONS AS INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY OR DEATH
SAVE these instructions

This commercial roller door operator controller 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

When you see this Safety Symbol 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.

- 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.
- Do not wear rings, watches or loose clothing while installing or servicing a commercial door operator.
- To avoid serious personal injury from entanglement, remove all ropes connected to the commercial door before installing the door operator.
- After the installation a final test of the full function of the system and the full function of the safety devices must be done.
- When operating a biased-off switch, make sure that other persons are kept away.
- The operator cannot be used with a driven part incorporating a wicket door (unless the operator cannot be operated with the wicket door open).
- Operator 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 operator. If temperature rise exceeds 50°C all fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.
- Do not allow children to play with operator wall controls or remote controls. Keep remote controls away from children.
- Permanently fasten all supplied labels adjacent to the wall control as a convenient reference and reminder of safe operating procedures.
- Disengage all existing commercial door locks to avoid damage to commercial door. Install the wall 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 transmitter(s). Serious personal injury from a closing commercial door may result from misuse of the operator.
- Activate operator only when the door is in full view, free of obstructions and operator is properly adjusted. No one should enter or leave the building while the door is in motion.
- 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.
- 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.
- 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.
- Use the operator for its intended purpose. GLM6 series controls are designed for operating Grifco openers on spring balanced roller shutters, spring balanced roller doors and counterweighted bi-fold and vertical lift doors.
- 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.
- Automatic Drive - Keep away from the area of the door as it may operate unexpectedly.
- Ensure that entrapment when operating the door in the open direction is avoided.



WARNING

Electrical

When you see this Safety Symbol 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 electric shock.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Installation and wiring must be in compliance with your local building and electrical codes. Connect the power supply cord only to properly earthed mains.
- 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.
- An electrician must disconnect electric power to the commercial door operator before making repairs or removing covers.

CAUTION

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 operator if you do not comply with the cautionary statements that accompany it.

CONTENTS

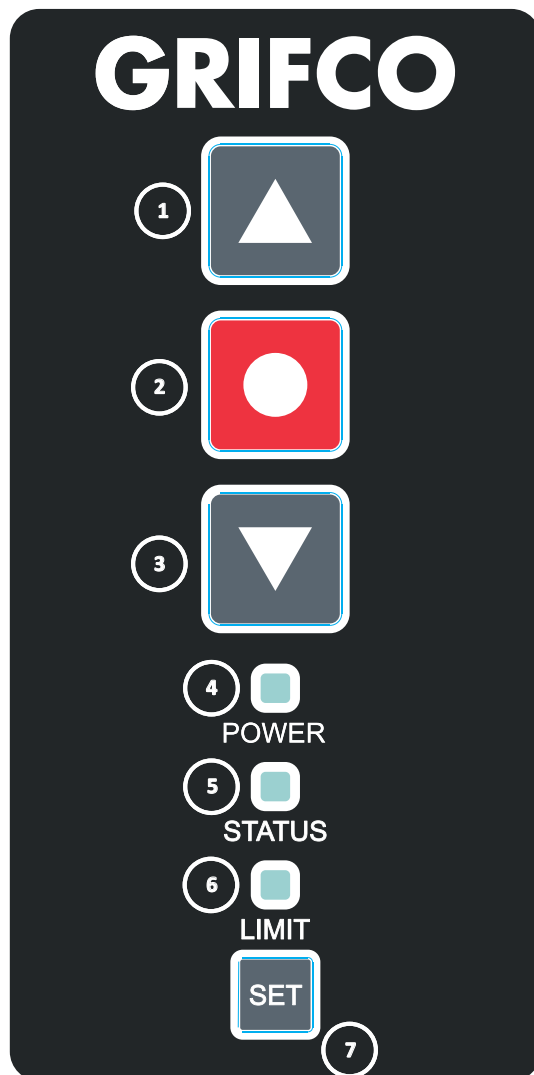
SAFETY INSTRUCTIONS	2
INTRODUCTION	3-4
IDENTIFYING YOUR CONTROLLER.....	4-5
PLANNING	6
INSTALLATION	6
CONTROL INTERFACE OVERVIEW	7
OPERATION.....	7-10
CHECKING POWER.....	7
DOOR DIRECTION	7
CHANGING DOOR DIRECTION	7
LIMIT CONFIRMATION (JOG DIRECTION)	8
SETTING LIMITS	8
OPTIONAL THIRD LIMIT (EXTENDED OPEN POSITION)	9
SETTING LIMITS (SMOKE BAFFLE FEATURE EDRIVE).....	9
GENERAL OPERATION.....	10
CONTROLLER INTERFACE	11-12
AUTO	11
ESTOP	11
OPEN.....	12
CLOSE.....	12
STOP	12
ADVANCED PROGRAMMING.....	13-14
SCHEMATICS	15-17
C21D C41D	15
C23B C43B.....	16
C21D-2 C41D-2.....	17
TROUBLESHOOTING.....	18-19
CHAMBERLAIN LIMITED WARRANTY.....	20

IDENTIFYING YOUR CONTROLLER

Congratulations on your purchase of a Grifco® Electronic Wall Controller.

This controller is the user interface for the opener. It consists of four buttons for control and setup, as well as three indicators to display the opener status.

IDENTIFYING YOUR CONTROLLER



- 1. UP** Moves the door upwards
- 2. STOP** Stops the door
- 3. DOWN** Moves the door downwards
- 4. POWER** Shows when the unit is mains powered
- 5. STATUS** Shows the status of the unit (refer to 'Troubleshooting').
- 6. LIMIT** When lit indicates limits (or stopping positions) are not set, the door will only operate in SAFETY inch mode until limits are set (or reset).
- 7. SET** Used primarily to set limits and enter configuration modes.

CAUTION

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



WARNING MECHANICAL

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.

IDENTIFYING YOUR CONTROLLER CONTINUED

The key switch modes are detailed below:

C21B/ C41B with basic On-Off key isolator **C23B/C43B with “Lock-it-Well” On-Off key isolator**

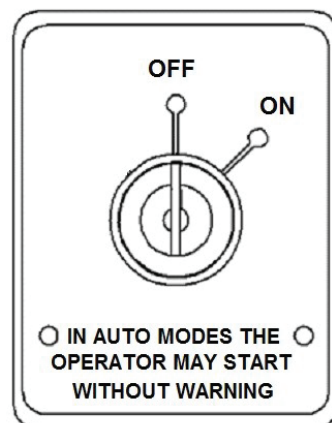
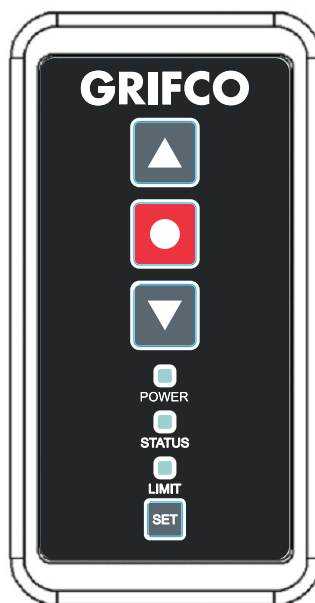
OFF:

The C10A controller will not operate from any source.

WARNING!! THIS IS NOT POWER ISOLATION!!

ON:

Enables the use of the C10A front panel buttons, rear panel connections and all other inputs via EB1, radio or toggle input



C21D-2/C41D-2 with Multi-Mode key isolator (Off-Auto-Auto/Man)

OFF:

The C10A controller will not operate from any source.

WARNING!! THIS IS NOT POWER ISOLATION!!

AUTO:

Isolates the C10A front panel UP and DOWN buttons to prevent tampering (typical mode for car park environments)

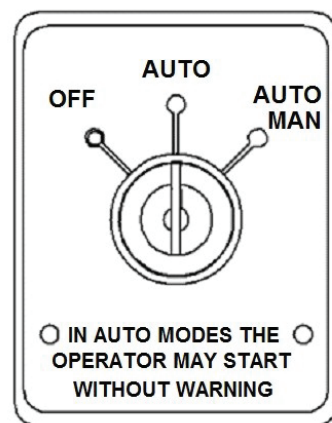
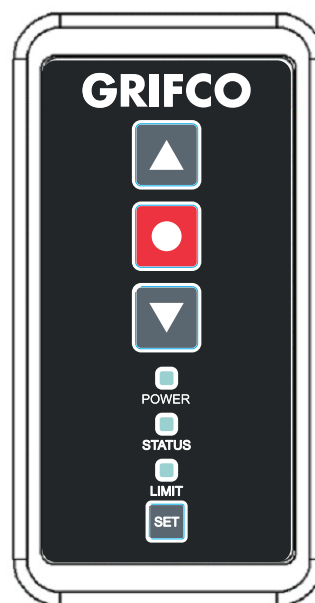
Isolates OPN and CLS inputs connected to the rear of the C10A.

All other inputs remain active (EB1, Radio or Toggle)

AUTO/MAN:

STP and the STOP button are still active.

Enables the use of the C10A front panel buttons, rear panel connections and all other inputs via EB1, radio or toggle input



WARNING ELECTRICAL

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.

PLANNING

The C10A Wall Controller is available with optional enclosures and Key Switch operations. Please select the most appropriate controller for the application.

Part Number	Description	Enclosure Material
	EDrive Wall Controller (Basic Operation)	
C10A-4	Standard EDrive Controller (supplied standard with all EDrive openers)	Plastic
C10AW-4	Standard EDrive Controller (IP55)	Plastic
C30A	Standard EDrive Controller	Metal
	EDrive Wall Controller (Key Switch Operation)	
C21B	EDrive Controller with basic Key Isolator (On-Off)	Plastic
C41B	EDrive Controller with basic Key Isolator (On-Off)	Metal
C23B	EDrive Controller with "Lock-it-Well" Isolator (On-Off)	Plastic
C43B	EDrive Controller with "Lock-it-Well" Isolator (On-Off)	Metal
C21D-2	EDrive Controller with Multi-Mode Isolator (Off-Auto– Auto/Manual)	Plastic
C41D-2	EDrive Controller with Multi-Mode Isolator (Off-Auto– Auto/Manual)	Metal

INSTALLATION

Installing the controller

The controller is connected to the MCB via a low voltage control cable provided within the controller enclosure. Using the conduit entries provided (also enclosed) run the cable through conduit. Be sure not to cut or damage the cable and therefore cause installation issues and void warranty.

CAUTION: Do not force the controller cable! Excess stretching and manipulation can cause cable failure. Plug ends must not be gripped with pliers.

To connect the controller to the EDrive opener, identify the most appropriate entry of the MCB enclosure for your installation. Open the MCB enclosure and fit the conduit fitting, allowing enough cable to reach the controller (RJ45) socket. Place the opposing end of the controller cable through the conduit entry of the controller enclosure and pull through any excess cable. Plug the RJ45 end into the socket located within the controller assembly. Use the space provided within the controller enclosure to neatly coil any excess cable.

Note: If the supplied 6m controller cable is not long enough for your installation, use a Grifco® Controller Extension Kit, available from your local dealer or Chamberlain (P/N ESK01).



WARNING

Install the controller in a position where the door is visible. Failure to do so may result in serious injury or death to persons trapped beneath the door. Minimum mounting height is 1.5 metres from floor level

OPERATION

Once the installation of the opener and controller is complete it is time to test the operation. Make sure the door is away from the ground or the top door stops (mid open position). This will prevent damage to the door in the event that the door direction is reversed in relation to the controller (see below changing door direction).

Checking power

Ensure the unit is powered by checking that the POWER ON indicator on the controller is lit. You should also notice that the *LIMIT* indicator (orange) is lit which signifies that there are no limits set.

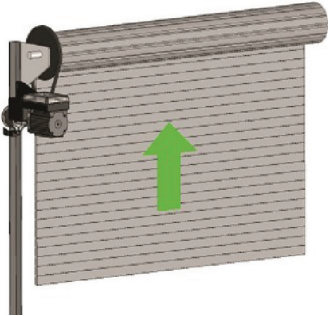
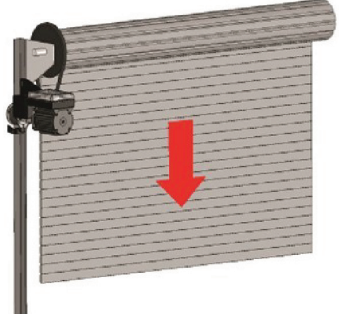


CAUTION

On new installations, the orange limit light should be lit after initial power up. If not, DO NOT operate door unless in limit setting mode or serious damage or injury may occur.

Door direction

Check the direction of the door movement. If the direction of the door is incorrect, refer below to changing door direction.

	CORRECT	INCORRECT
		

Changing door direction

To change the door direction first put the unit into 'limit setting mode' by following this

1. While holding STOP, press the SET button 3 times. The LIMIT indicator will start flashing signifying 'limit setting mode'
2. Press and hold STOP for 10 seconds until the LIMIT indicator flashes quickly.

The direction of the door movement will now be reversed.

The LIMIT indicator will remain flashing as the unit is still in limit setting mode. You can now set limits (go to step 2 on next page)

Or to exit, press STOP.



WARNING ELECTRICAL

When removing or replacing jumpers or expansion boards to or from the MCB mains power must be disconnected.



WARNING MECHANICAL

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.

READ CAREFULLY BEFORE SETTING LIMITS FOR RIGID DOORS

(NOT APPLICABLE TO ROLLER SHUTTERS)

Automated Positioning Routine

The E-Drive features a limit confirmation routine that occurs after a power outage upon the first push of the UP or DOWN buttons. By default, the routine will “jog” slightly downward in order to confirm door position before proceeding in the intended direction.

NOTE: For doors of rigid construction (e.g. bi-fold, vertical lift, sectional or continuous steel roller doors etc.) this routine should be changed so that the first “jog” movement is upward. To do so, proceed as follows:

- While holding STOP, press the SET button 3 times and CONTINUE to hold STOP for 20 seconds (or until the orange light goes solid).

Now proceed to Setting limits, ensuring the upper limit is set NO CLOSER than 50mm from the top stops (or fully open position) of the door.

Upon completion of the installation, turn power OFF, then back ON at the open and closed positions, and test proper operation accordingly.

RKML6051 models (1/2hp roller door openers) will confirm limits by jogging UPWARD first by default . To reverse the limit confirmation direction, proceed as above.

Setting Limits

While setting limits, ensure the upper limit is set NO CLOSER than 50mm from the top stops (or fully open position) of the door.

NOTE: that limit settings only apply to E-Drive (i.e. not GLM models)

1. While holding STOP, press the SET button 3 times.

The LIMIT indicator will start flashing signifying ‘limit setting mode’

2. Use the DOWN button to drive the door to the desired CLOSED position.

The manual hand chain can be used to accurately position the door before pressing SET

3. Press the SET button to save this as the CLOSED position.

The LIMIT indicator will flash quickly then return flashing slowly

4. Use the UP button to drive the door to the desired OPENED position.

The manual hand chain can be used to accurately position the door before pressing set

5. Press SET again to save this as the OPENED position.

The LIMIT indicator will flash quickly then will go out

The Closed and Open limits should now be set. If at any time you need to exit ‘limit setting mode’ simply press the STOP button.

Once set, operate the door between limits 2 times to check they are suitable. If not, return to STEP 1.

Upon completion of the installation, turn power OFF, then back ON at the open and closed positions, and test proper operation accordingly. If required, refer to top of page to reverse the limit confirmation direction.



WARNING ELECTRICAL

Do not place hands or tools near the opener when power is on or when testing controls or safety devices.

Always disconnect power before servicing or adjusting the opener.



WARNING MECHANICAL

After the installation a final function test of the system along with a full function test of any connected safety devices must be done.

Optional third limit (extended open position)

The E-Drive has the ability to set a third limit which is a handy option for high doors that rarely need to be fully opened. The third limit is a door position above the open limit position which can be accessed when needed. Having this upper stopping position allows a mid-height limit to be set as a first opening point, while a further press of the open button takes the door to a higher set position (not supported by myQ).

Setting a third limit

1. Follow the "Setting Limits" steps to set the Open and Closed limits
2. Position the door at the Open limit position
3. While holding the UP button, press the SET button 3 times.

The LIMIT indicator will flash

4. Press and hold the UP button until the door is in the desired extended open position
5. Press SET to save this as the extended open position.

The LIMIT indicator will quickly flash then go out

Accessing the third limit:

1. Open door to first upper limit
2. Press the UP button

Setting limits using the SBF EDrive

Until the three limits required for the SBF to be operational have been set, the Call For Service light will flash continually. Ensure a Normally Closed signal or link wire is connected to the Fire Trip Input (see the SBF manual for further details)

1. While holding STOP, press the SET button 3 times.

The Limit ERROR indicator will start flashing signifying 'limit setting mode'

2. Use the DOWN button to drive the door to the desired CLOSED position.

The manual hand chain can be used to accurately position the door before pressing SET

3. Press the SET button to save this as the CLOSED position.

The LIMIT ERROR indicator will flash quickly then return flashing slowly

4. Use the UP button to drive the door to the desired SMOKE BAFFLE position. This must be at or above 2100mm from ground level

The manual hand chain can be used to accurately position the door before pressing set

5. Press SET again to save this as the SMOKE BAFFLE position.

The LIMIT ERROR indicator will flash quickly then will go out

5. Position the door at the SMOKE BAFFLE position

6. While holding the UP button, press the SET button 3 times.

The LIMIT ERROR indicator will flash

7. Use the UP button to drive the door to the desired OPEN position.

The manual hand chain can be used to accurately position the door before pressing set

8. Press SET again to save this as the OPENED position.

The LIMIT ERROR indicator will flash quickly then will go out

The Closed, SMOKE BAFFLE and Open limits have now been set. If at anytime you need to exit 'limit setting mode', just press the STOP button.

Once set, operate the door between limits 2 – 3 times to check they are suitable. If not, return to STEP 1.

To operate the door

Press the UP button on the controller to open the door, press and hold DOWN to close.

Optional Door Behaviour

Latch up / Inch down mode (default):

The door will travel upwards with only a single press and release of the UP button. The door will stop at the set limit. This mode is latch up.

The door will only travel downwards when the DOWN button is held. The door will stop at the closed limit or when the button is released. This mode is inch down.

Inch up / Inch down mode:

The door will only travel whilst the UP or DOWN buttons are being held. The door will stop at the limits or when the button is released. To set this mode refer to Setting door behavior information below.

Latch up and down mode:

Note: This mode is only possible in conjunction with an Entrapment Protection Device such as an Infrared (IR) Beam or a Safety Bump Edge. Failure to do so may result in damage to property or injury to persons.

The door will travel upwards and downwards with only a single press and release of the UP or DOWN button. The door will stop at the set limit or when the STOP button is pressed. To set this mode refer to Setting door behavior in the opener manual.

Manual operation

The hand chain provided allows manual operation of the door at all times when the motor is not in use. Warning! Use of the hand chain during powered operation of the door may result in damage to equipment or injury to the user. Ensure power is shut off before using manual chain.



CAUTION

Any access control intended for these terminals must be user operated and in line of sight with the door.



WARNING MECHANICAL

Additional 24VDC devices must not draw current from the MCB in excess of 150mA. Excessive load from connected devices will cause malfunction of the EDrive opener. For additional loads, use a separately mounted power supply.

CONTROL INTERFACE

The EDrive can be interfaced by the reverse side of the controller push button panel. To do so you will need terminal blocks (P/N TB210) available from your local commercial door dealer or Chamberlain®. Key Switch C10A variants utilise these connections to enable the key switch isolation.

AUTO:

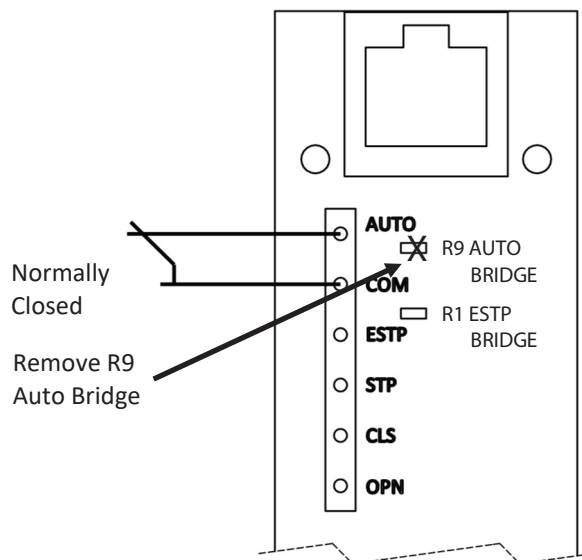
The C10A rear panel has a resistor (R9 Auto Bridge) that creates a permanent closed contact between COM and AUTO terminals. To enable the use of the AUTO only function, this resistor must be removed.

Once the resistor is removed, the C10A front control panel is disabled, leaving only remote controls and other control inputs connected to the EB1 (if fitted) or toggle inputs to operate the opener.

Note:

The STOP button will always be operable.

A normally closed contact (i.e an Auto/Manual key switch) must then be connected to the AUTO and COMM terminal to enable the C10A front panel.

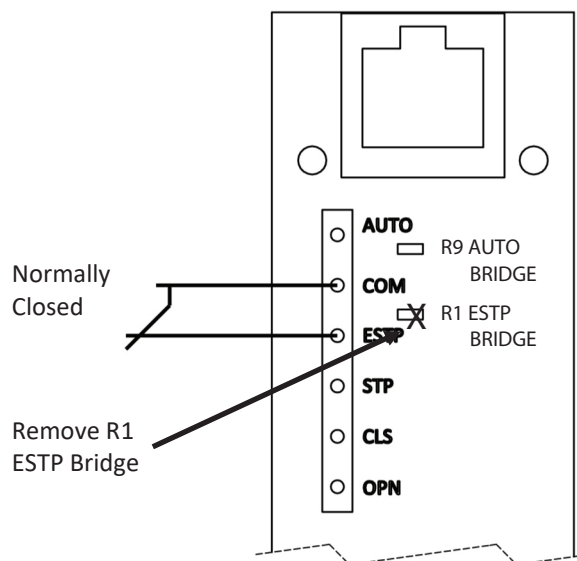


ESTOP (Emergency Stop):

The C10A rear panel has a resistor (R1 ESTP Bridge) that creates a permanent closed contact between COM and ESTP terminals. To enable the use of the Emergency Stop function, this resistor must be removed.

Once the resistor is removed, the C10A front control panel and all AUTO inputs are disabled.

The opener will still have power but all operations are now disabled. A normally closed contact (i.e an OFF/ON key switch) must then be connected to the ESTP and COMM terminal to enable the C10A front panel and all AUTO functions.



CAUTION

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 cable wiring must be shrouded.

Fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.

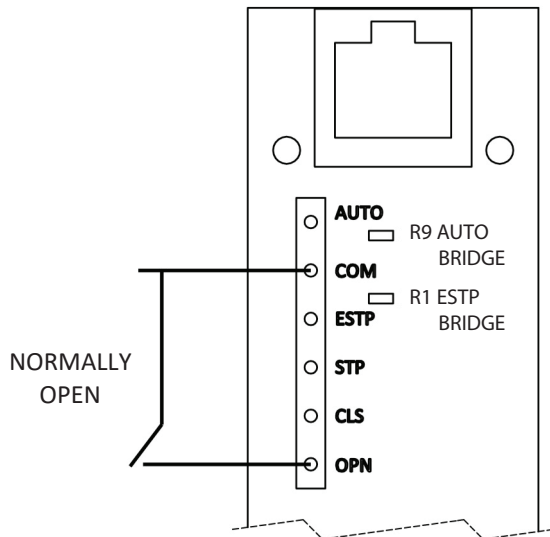
CONTROL INTERFACE CONTINUED

When connecting auxiliary control devices, it is possible to connect a Momentary Normally Open voltage free contact to operate the opener. Door behavior should be considered when utilizing the connection terminals on the C10A.

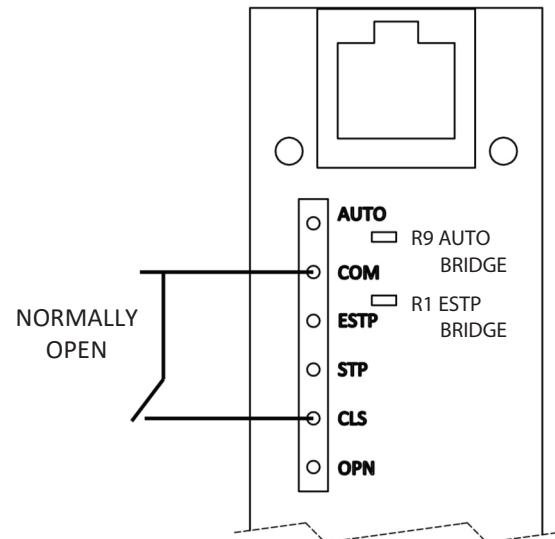
The door must only be set to latch DOWN if there is a suitable Entrapment Protection

Device installed. Failure to do so can lead to serious injury or death.

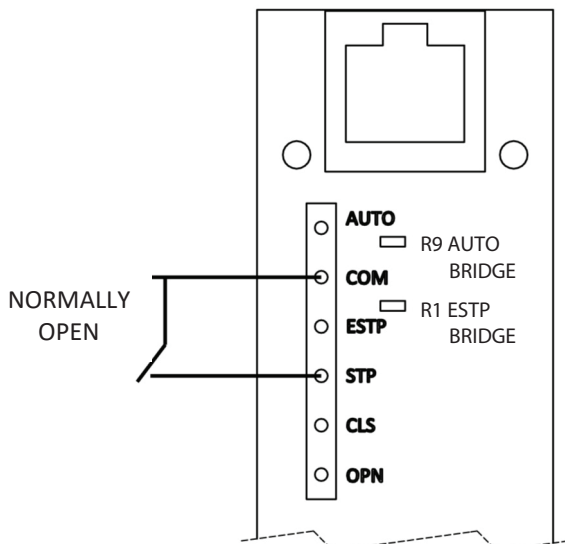
OPEN (OPN)



CLOSE (CLS)



STOP (STP)



WARNING ELECTRICAL

C10A rear panel terminals are voltage free. Do not connect any voltage to these terminals.



WARNING MECHANICAL

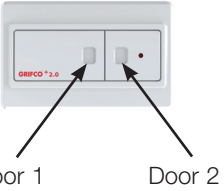
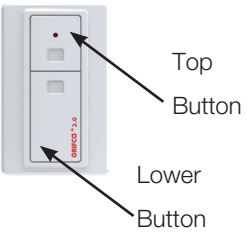
A momentary contact must be used on the CLS terminal. The door must only be set to latch DOWN if there is a suitable Entrapment Protection Device installed. Failure to do so can lead to serious injury or death.

Any access control intended for these terminals must be user operated and in line of sight with the door.

ADVANCED PROGRAMMING

Action	Button Sequence
SET AUTO TIMER TO CLOSE (no expansion board fitted) FROM THE CONTROLLER	- Press and hold the SET button, then whilst holding press the DOWN button 3 times (green status light ON solid) - Press the UP button to increase the auto-timer to close setting in 10-second increments - Press the DOWN button to decrease the auto-timer to close setting in 10-second increments NOTE: the green 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 green light flashes 30 times - Press SET to accept setting and exit learn mode NOTE: To cancel the Auto-timer-to close function, enter the learn mode and press the DOWN button until the number of 10-second increments is ZERO. The green light will flash repeatedly to indicate the function has been reset, then return to solid ON - Press STOP to exit
LEARNING A NEW WIRELESS ACCESSORY (INCLUDING MYQ GATEWAY) FROM THE CONTROLLER	NOTE: Radio Lock jumper (if fitted) must be removed from the MCB before wireless accessories can be learnt. For security reasons the Radio Lock should be refitted after the wireless learn sequence is completed. - Press and hold the SET button, then whilst holding press STOP 5 times (green status light will light then continue flashing. Indicating Learn Mode) - Press the desired WIRELESS ACCESSORY BUTTON to learn (orange limit light will flash fast after each wireless accessory is successfully learnt) - Press STOP to exit Learn Mode NOTE: Hand held remotes can only be learned during the first 30 seconds of Learn Mode. NOTE: For myQ, ensure both dipswitches are in the UP position and the myQ Gateway must remain powered at all times. Third party operators with disconnect switches may override myQ functionality.
LEARNING A NEW WIRELESS ACCESSORY (INCLUDING MYQ GATEWAY) FROM THE MCB	- Press the LRN button (green status light will light then continue flashing, indicating Learn Mode) - Press the desired WIRELESS ACCESSORY BUTTON to learn (orange limit light will flash fast after each wireless accessory is successfully learnt) - Press LRN button again to exit Learn Mode NOTE: For myQ, ensure both dipswitches are in the UP position and the myQ Gateway must remain powered at all times. Third party operators with disconnect switches may override myQ functionality.
ERASE ALL LEARNED WIRELESS ACCESSORIES FROM THE CONTROLLER	- Press and hold the SET button, then whilst holding - Press the STOP button 4 times, holding on the fourth press for 5 seconds (green light will flash 5 times, then fast flash to indicate completion) - Check that previously learned wireless accessories no longer work NOTE: To unlearn a myQ Internet Gateway only, while holding the SET, button press the STOP button 3 times holding on the third press for 7 seconds.

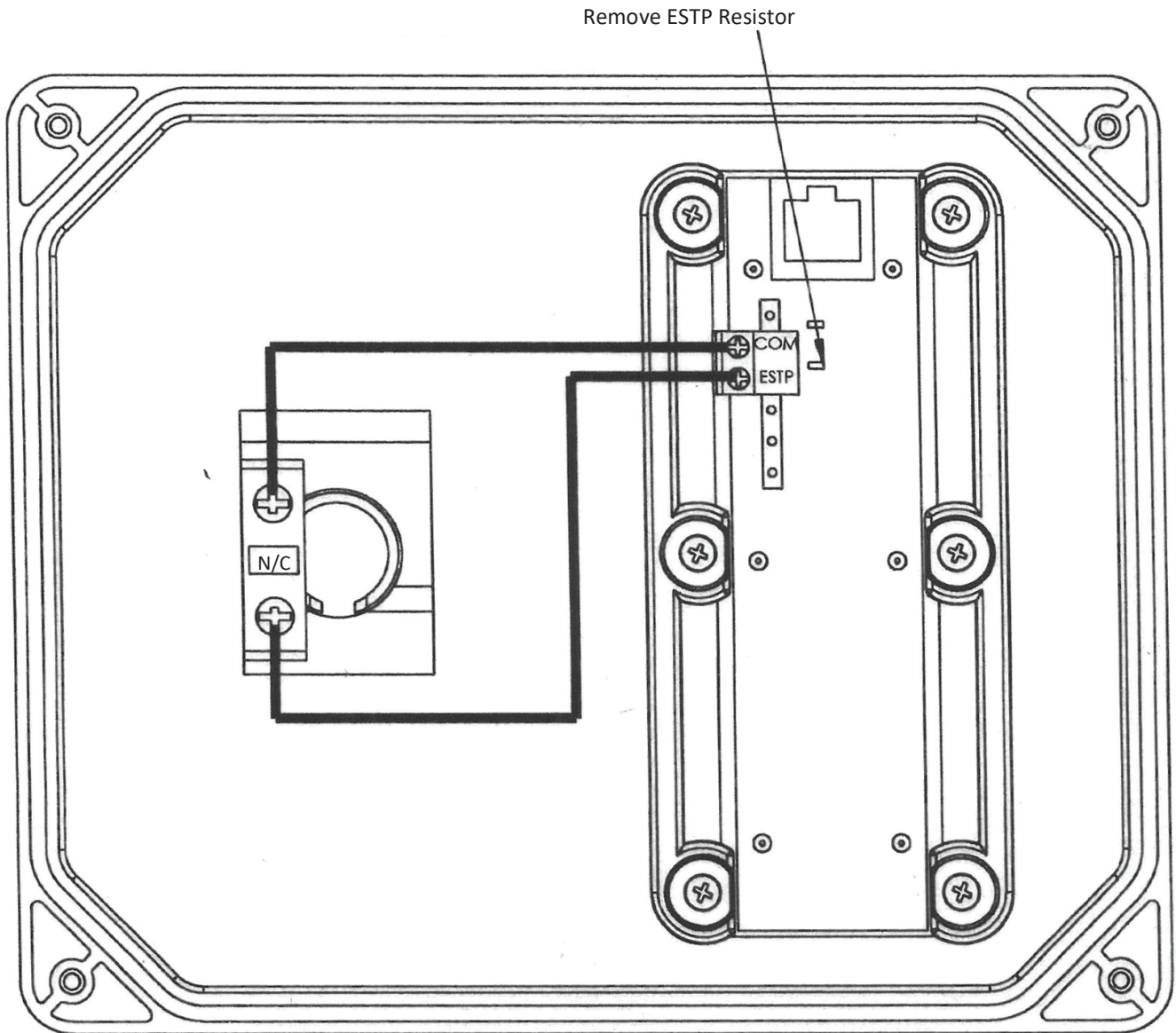
ADVANCED PROGRAMMING CONTINUED

Action	Button Sequence
LEARN THE E138G WIRELESS WALL CONTROL FROM THE CONTROLLER  	The E138G can be used as a two channel wireless wall control for use on one or two doors, or as a dedicated up/down 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 open/stop device only and in dedicated up/down configuration the down button will operate as “hold to close” only. Two Channel Wireless Wall Control • Press and hold the SET button, then whilst holding press STOP 5 times (green status light will light then continue flashing. Indicating learn mode) • Press the desired WIRELESS ACCESSORY BUTTON to learn door 1 (orange limit light will flash fast after each wireless accessory is successfully learnt) • Repeat previous step to learn door 2 (if required) • Press STOP to exit learn mode Dedicated Up/Down Wireless Wall Control • Press and hold the SET button, then whilst holding press STOP 5 times (green status light will light then continue flashing. Indicating learn mode) • Press the E138G TOP button (the orange LIMIT light will flash at each button press) • Then press the E138G LOWER button • Press the STOP button on the GRIFCO® controller (the green light will continue to flash) • Press the E138G LOWER button again (the green light will go out indicating exit of learn mode)
LEARN THE E840G WIRELESS KEYPAD FROM THE CONTROLLER 	Press and hold the SET button on the GRIFCO® controller, then • While holding the SET button, press the STOP button 5 times (the green status light will light then continue flashing, indicating learn mode) • Enter a 4-digit PIN code into the keypad (step 3) • Press the ENTER button (step 4) (orange LED flickers on controller) • To enter additional PIN codes (up to 12) repeat steps 3 & 4 • Press STOP to exit learn mode • Install the RADIO LOCK button on the MCB to prevent any further wireless accessories being learnt, or erased without authority NOTE: The Grifco® Security + 2.0 Wireless Keypad provides : • Wireless security access • Wireless hold to close

SCHEMATICS

C21B : EDrive Controller with basic Key Isolator (On-Off)

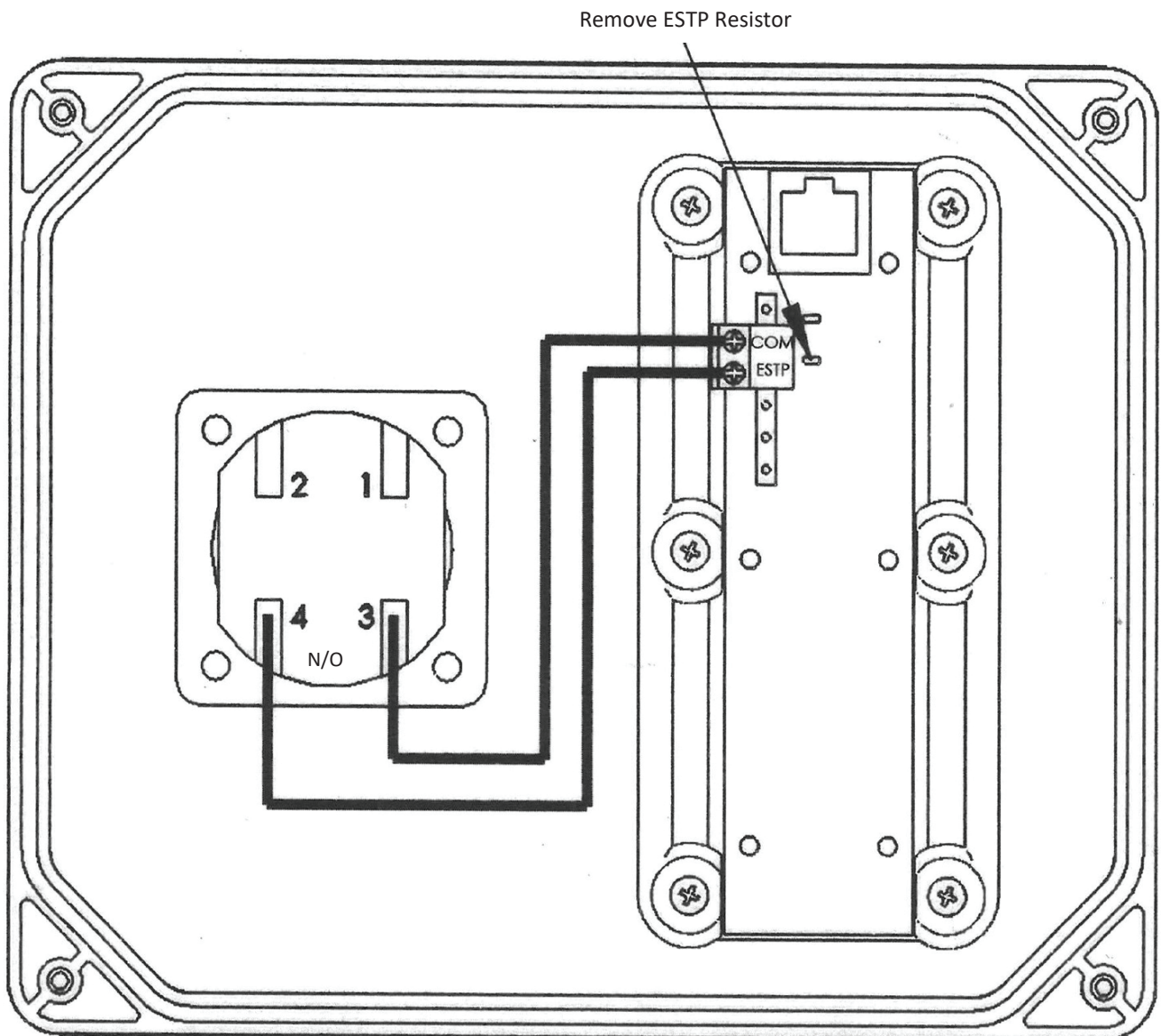
C41B : EDrive Controller with basic Key Isolator (On-Off)



SCHEMATICS CONTINUED

C23B : EDrive Controller with “Lock-it-Well” Isolator (On-Off)

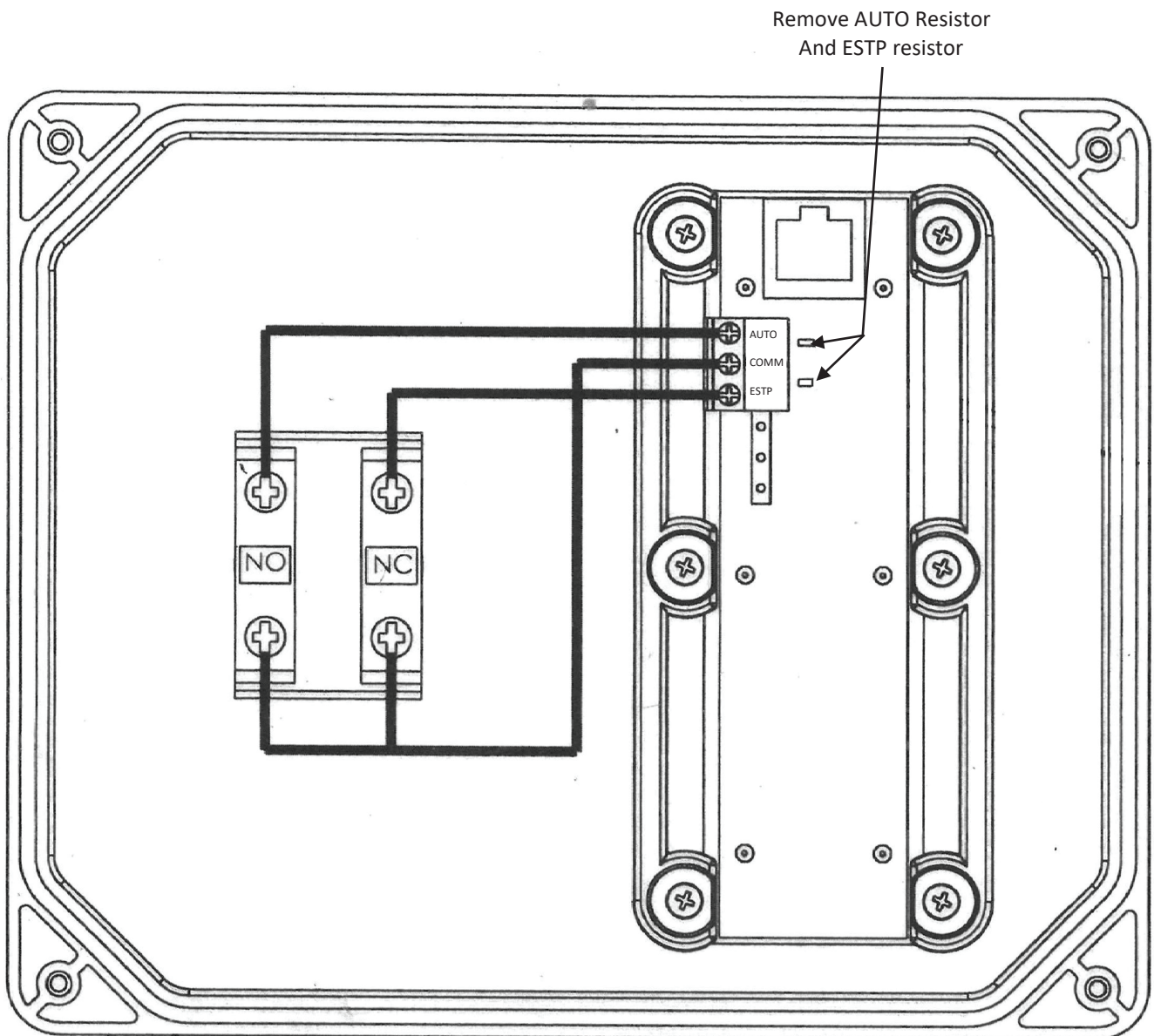
C43B : EDrive Controller with “Lock-it-Well” Isolator (On-Off)



SCHEMATICS CONTINUED

C21D-2: EDrive Controller with Multi-Mode Isolator (Off-Auto– Auto/Manual)

C41D-2: EDrive Controller with Multi-Mode Isolator (Off-Auto– Auto/Manual)



TROUBLESHOOTING

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	• Clear obstruction
		Bumper edge pressed	• Remove pressure from bump edge
		The opener has detected removal of an Entrapment Protection	• Set DIP 1 to OFF and press 'reset' (RST) button on MCB for 10 seconds. Re-learn any remaining Entrapment Protection Devices
3	Entrapment Protection Device removed	The opener has detected removal of an Entrapment Protection Device	• Set DIP 1 to OFF and press 'reset' (RST) button on MCB for 10 seconds. Relearn any remaining Entrapment Protection Devices
4	MCB error	Internal Error	• Power off, and on. If un-resettable replace MCB
5	EB internal error	EB disconnected or ignored from MCB	• Return EB to the installation or resolve EB issue, refer Elite Manual
9	APE error	APE position jump	• Replace APE assembly
		Severe close range frequency	• Press 'reset' (RST) button on MCB for 3 seconds
		APE cable disconnected	• Reconnect APE cable
		APE cable fault	• Replace APE cable
10	Under speed error	Extreme load on door	• Check for objects causing interference to door operation • Check door installation • Check for damage to motor • Upgrade to a larger opener
12	Safety Input Error	Safety input has triggered	• Assess device connected to Safety Input
14	Direction error	Motor connections altered	• Change door direction and reset limits
15	Clutch slip (if fitted) No speed detected Contactor failure	Clutch adjustment set too low	• Check clutch adjustment
		Motor stalled	• Check door for mechanical failure or motor fault
		Extreme vibration or impact during transit	• Replace MCB
Constant flash	Due for service	Door is due for routine service	• Contact your local door dealer to arrange service
No Lights Displayed		With no lights on MCB or Controller: Power supply not correctly connected	• Check transformer • Check power supply wiring
		With light on at MCB: Bad connection to Controller	• Refer below if lights are on at MCB and not on Controller
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	• Check RJ45 plugs are clipped in securely at Controller and MCB • Check connections • Replace Controller cable • Replace Controller
Open or Clode 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	• Replace MCB • Correctly wire the motor

TROUBLESHOOTING



WARNING ELECTRICAL

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. If green light begins to flash, Refer to Status Indicator (Green) Flash / Problem Table.

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?

2 times: check for obstructions or IR beam misalignment.

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

NO: *continue onto next question.*

Check for correct wiring connection and DIP switch settings on MCB.

4. Can't set limits:

Does the orange light start flashing after the third press of the 'set' button?

YES: But green status light starts to flash 'x' times while attempting to set upper limit. Refer to Status Indicator (Green) Flash / Problem Table.

NO: Ensure all external devices and external push buttons are disconnected from wall control.

Check for damage to control cable.

5. Opener activates from controller but not remotes

Are limits set?

YES: Change remote battery. If using Expansion board check key switch position is in auto and check MCB and Expansion board DIP switches are set correctly. Check that remote is learned and receiver card is picking up signal.

NO: Set limits.

6. Opener will only travel around 200mm either way

Are limits set? i.e. orange limit light ON = limits not set.

YES: Check damaged to control cable.

NO: Set limits. If unable to set limits refer to above no. 4

7. 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.

8. 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.

CHAMBERLAIN LIMITED WARRANTY -C10A

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 C10A Unit is free from defects in materials and workmanship for a period of 24 months from the date of purchase.
- 2 During the applicable Chamberlain Warranty period, if you are concerned that the Unit 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 in relation to the Unit, repair or, at its option where permissible, replace any defective part or Unit and return it to you at no cost; and

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

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