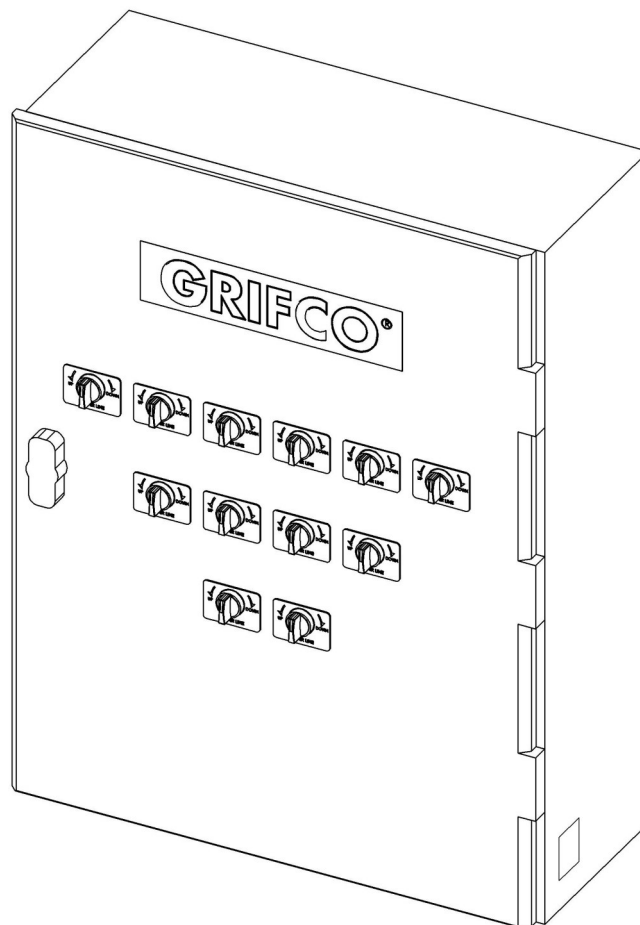




***MSPC8, MSPC10,  
MSPC12***

***Poultry Multi Station  
Control Box***



**Installation and Users Manual for  
MSPC8, MSPC10 and MSPC12  
Poultry Multi Station Control Box**

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## SAFETY SYMBOL AND SIGNAL WORD REVIEW

### Safety symbol and signal word review

This winch system 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 the winch system maintained. Sticking or binding systems must be repaired. Winches, 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 service.  |  | Install the wall control (or any additional push buttons) in a location where the winch is visible during operation. Do not allow children to operate push button(s) or remote control(s). Serious personal injury from operating a winch may result from misuse of the opener.   |
|  | Do not wear rings, watches or loose clothing while installing or servicing a winch.   |  | Permanently fasten all supplied labels adjacent to the wall control as a convenient reference and reminder of safe operating procedures.  |
|  | Installation and wiring must be in compliance with your local building and electrical codes. Connect the power supply cord only to properly earthed mains.  |  | An electrician must disconnect electric power to the commercial door opener before making repairs or removing covers.   |
|  | Moisture and water can destroy the electric components. Make sure under all circumstances that water moisture or storage moisture cannot penetrate the enclosure. The same applies for openings and cable entries.  |  | If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. A disconnection device incorporated in the fixed wiring must be provided in accordance with the wiring rules of the country in which it is installed.   |
|  | Ensure that entrapment between the driven part and the surrounding fixed parts due to the opening movement of the driven part is avoided.   |  | 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.   |
|  | 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.  |
|  | 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. |  | 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. |



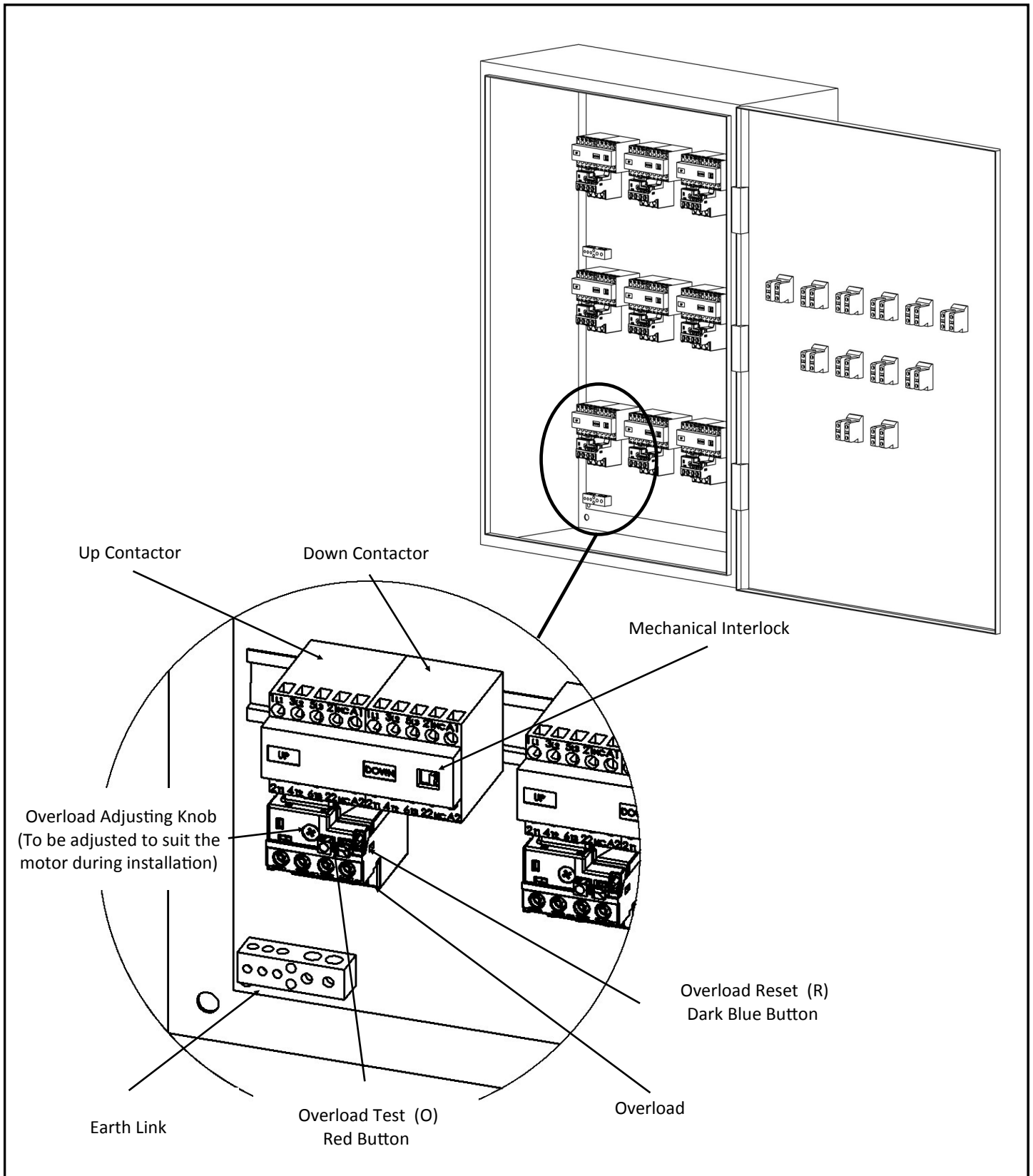
**WARNING:** Important safety instructions. It is important for the safety of persons to follow all instructions. **SAVE** these instructions.

## INTRODUCTION

Congratulations on your purchase of a Grifco Multi Station Control Box. This Control Box is ideal for simple and reliable operation of your Grifco Mechanical limit equipped winch.

Please see Planning section of this manual for the types of Control Boxes available.

## IDENTIFYING YOUR CONTROL BOX



## PLANNING

### Model No: MSPC8, MSPC10, MSPC12

Supply Voltage: 415V, 3 Phase with Neutral  
Motor Voltage: 415V, 3 Phase  
Coil Voltage: 240V  
Overload Rating: 2.3Amps (factory set)  
IP Rating : IP55

| Model                       | Overload range (A) | Suitable for operator |
|-----------------------------|--------------------|-----------------------|
| MSPC8,<br>MSPC10,<br>MSPC12 | 2.3-3.2            | 0.75kW (1hp)          |

Check “AMPS” value on the back of motor to ensure that the value is included in the overload range of the

## INSTALLATION

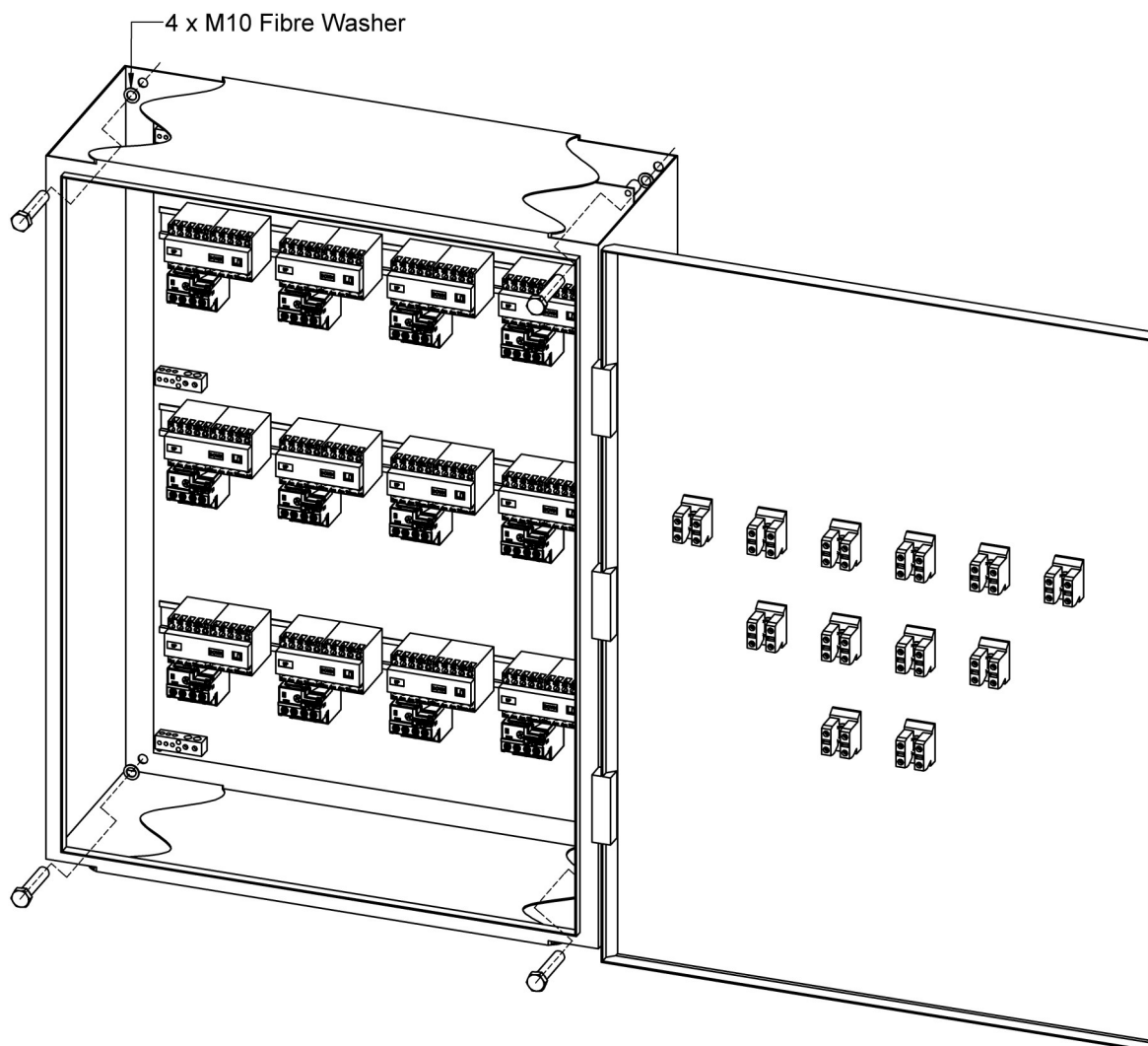


**CAUTION: When drilling or punching conduit entries, take extreme care not to damage internal components.**

Install the controller box in a location within direct sight of the winch, minimum mounting height is 1.2m from the floor level.

Use 4 x mounting fasteners appropriate to the surface you are fixing against (not supplied).

Use 4 x M10 Red fibre washer (supplied) together with mounting fasteners in order to maintain the IP rating.



### 3 - PHASE MOTOR CONNECTION

(with neutral connections)

#### All Models

**WARNING:**



Disconnect power before installation. Device must be properly grounded and connected in accordance with local electrical codes.



All electrical connections must be made by a qualified person

Wire used for connections must be rated to at least 10A.

1. Supply

- Connect the three phases to L1, L2 and L3 on the open contactor
- Connect the Neutral to A2 on the open contactor

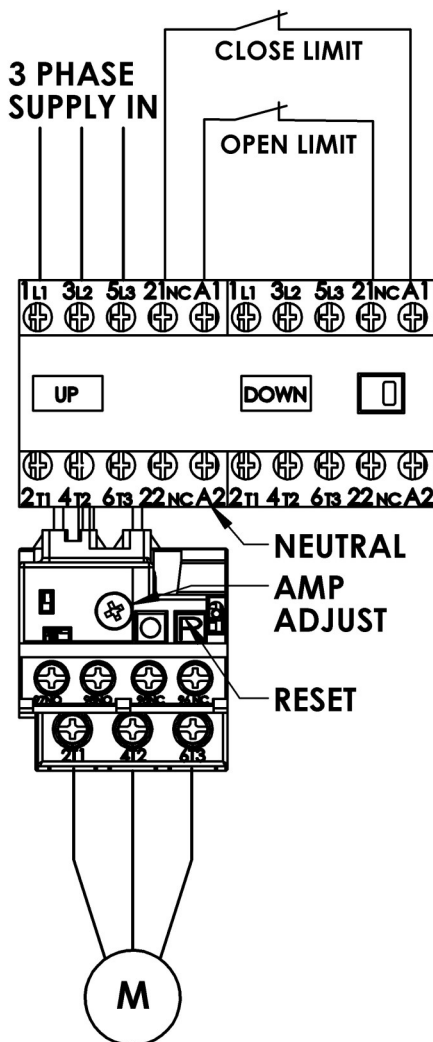
2. Motor

- Connect the motor to T1, T2 and T3 on the overload
- Connect the motor earth to the supply earth

3. Limits

AVOID CRAMMING WIRES INTO LIMIT ENCLOSURE AS IT MAY AFFECT CAM MOVEMENT

- Connect the closed limit switch NC (normally closed) terminals to terminal 21 on the open contactor and terminal A1 on the close contractor
- Connect the open limit switch NC (normally closed) terminals to terminal A1 on the open contactor and terminal 21 on the close contractor



**WARNING:**

A disconnection device incorporated in the fixed wiring must be provided in accordance with the wiring rules of the country in which it is installed.

## SETUP

### Overload

On the back of the motor there will be an "AMPS" value, adjust the overload to this value. If uncertain of this value leave overload at the minimum value setting.

### Directional test

Operate the winch momentarily in one direction to check that the UP switch will lift the load.

If incorrect, isolate mains power and proceed as follows:

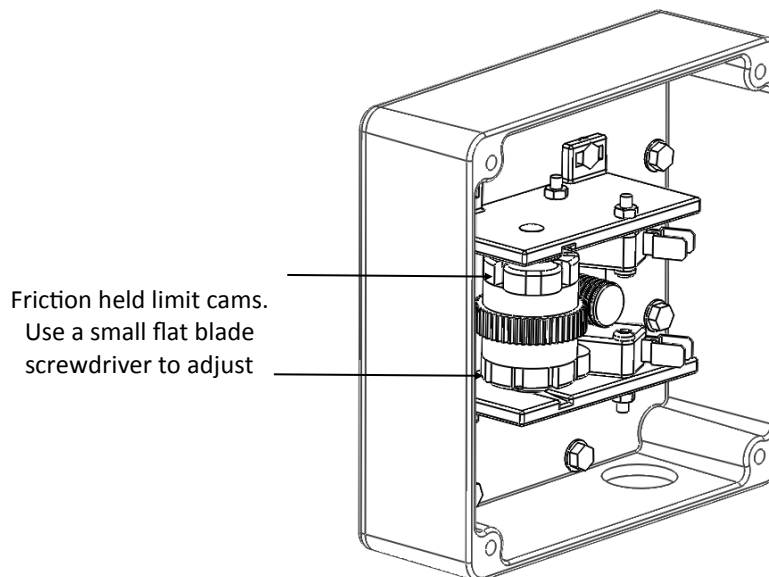
- Swap any two phases on the 3 phase model

### Setting Limits

**Disconnect power before setting limits as mains voltages are present within the enclosure.**

WARNING: Limits are sensitive; a small cam movement may correspond to a large amount winch travel.

- 1) Position one cam to depress a switch (the other should be well clear of the switch)
  - Note the switch that you have activated
- 2) Supply power and activate in up direction momentarily
  - If the winch hoists up then the limit switch noted above is the lower limit
  - If the winch doesn't move it is the upper limit (momentarily activate in the down direction to confirm this)
- 3) Proceed to adjust each friction held cam and operate the winch to achieve the required set positions.



## WARNING

**Isolate power to the controller before opening the limit enclosure.**

**Mains voltages are present within the enclosure!**

## OPERATION



### WARNING

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 winch must be set up according to the setup procedure prior to operating the winch

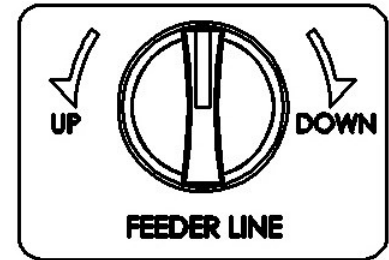
#### To operate the winch using the controller

Rotate the switch to the DOWN position (clockwise) and hold to lower the winch.

Release the switch allowing it to spring return to the centre position to stop the winch at any position.

Rotate the switch to the UP position (anticlockwise) and hold to raise the winch.

Release the switch allowing it to spring return to the centre position to stop the winch at any position.



#### Manual operation

Isolate mains power before using the manual crank feature as shown in the winch manual.

## TROUBLESHOOTING

### 1. The winch does not raise or lower

- Does the controller have power? Check the isolator switch and circuit breaker.
- Check the motor has the correct power supply and voltages.
- Has the overload tripped? Isolate power to the control box and check the overload reset.
- Has the motor overheated? Allow the motor to cool.
- Has the motor seized? Use the hand crank to check the operation of the winch and motor.
- Check the limits have been set correctly. Excess wires crammed into the enclosure can affect the operation of the limit switches.

### 2. The winch only drives in one direction

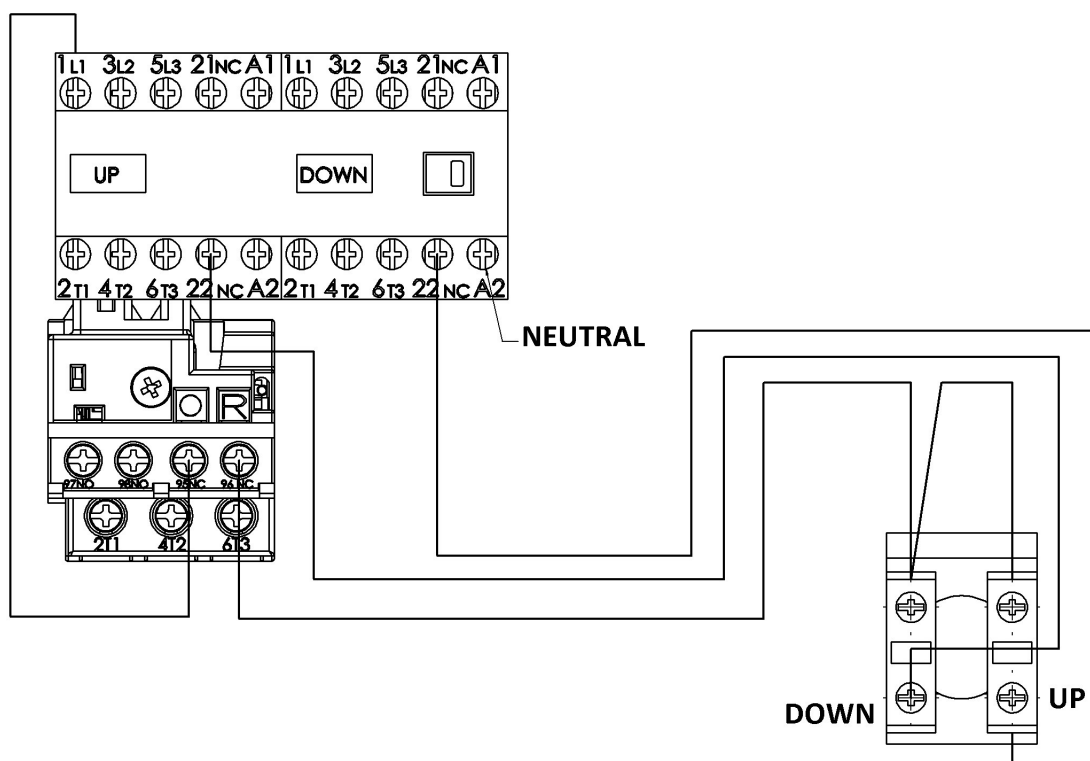
- Have the limits been set correctly? Check limit switch wiring and adjustment. Excess wires crammed into the enclosure can affect the operation of the limit switches.
- Check single phase motor connections.
- Check the motor has the correct power supply and voltages.



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



# SCHEMATICS







## 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

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