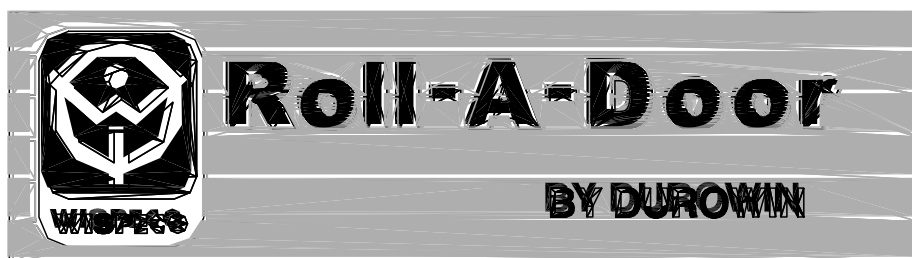


WISPECO

RC-1

Automatic Garage Door Operator

Installation Instruction



PLEASE READ THESE IMPORTANT SAFETY RULES

*Failure to comply with the following Safety Rules may result in
Serious Personal injury and/or Property Damage.*



For **ADDITIONAL SAFETY** protection we **STRONGLY** recommend the fitting of a Photo Electric beam. In most countries Photo Electric Beams are mandatory on all garage doors fitted with Automatic Openers. For a small additional outlay ATA recommends that Photo Electric Beams be installed with the Automatic Opener insuring additional safety and peace of mind.



DO NOT operate the Garage Door Opener unless the Garage Door is in full view and free from objects such as cars and children/people. **SERIOUS PERSONAL INJURY** and /or property damage can result from failure to follow this warning.



DO NOT operate the Garage Door Opener when children/persons are near the door. Children must be supervised near garage door at all time and when Door Opener is in use. **SERIOUS PERSONAL INJURY** and /or property damage can result from failure to follow the warning.



DO NOT allow children to operate the Garage Door Opener. **SERIOUS PERSONAL INJURY** and/or property damage can result from failure to follow this warning.



Make sure that the **SAFETY OBSTRUCTION FORCE** is working correctly, and is **TESTED** and set as per the Installation Instructions Manual. Failure to follow the Manual could result in **SERIOUS PERSONAL INJURY** and/or property damage. This test must be repeated at regular intervals and the necessary adjustments made if required.



DO NOT disengage the Door Opener to manual operation with children/persons or any other objects including motor vehicle within the doorway.



Install the wall switch or wall mounted transmitter in a **LOCATION / POSITION** where the garage door is visible and out of reach of children.



The Garage door must be **WELL BALANCED**. Sticking or binding doors must be repaired by a qualified garage door installer prior to Opener installation.



DO NOT attempt to repair door yourself as hardware is under extreme tension and can cause **SERIOUS PERSONAL INJURY** and/or property damage.



REMOVE OR DISENGAGE all garage doors locks and mechanisms prior to installation of Opener.



Connect the Garage Door Opener to a properly **EARTHED** general purpose 240V outlet installed by a qualified electrical contractor.



DISCONNECT THE POWER CORD from main power before making any repairs or removing covers. Only **EXPERIENCED** service personnel can remove covers from Opener.



Keep hands and loose clothing **CLEAR** of the door and Door Opener at all times.



When using auto close mode a **PHOTO ELECTRIC BEAM** must be fitted correctly and tested for operation at regular intervals. **EXTREME CAUTION** is recommend when using auto close mode. All **SAFETY RULES** above must be followed.



In order for the Garage Door Opener to **SENSE** an object obstructing the door way, some **FORCE** must be exerted on the object. As a result the object, door and/or person may suffer **DAMAGE or INJURY**.



Make sure that the door is fully open before driving into or out of the garage.



Make sure the door is fully closed before leaving the driveway.

FEATURES

Your Easy Roller Automatic Garage Door Opener has many features which you will appreciate. The components and materials used in this Automatic Opener are of the latest technology and highest quality. Below are listed some of the many features.

OPERATION

To operate the door simply press the hand held transmitter or the wall mounted transmitter or optional wall switch for two seconds and the door will automatically open or close. The door can be stopped during an opening or closing cycle by pressing again. The next actuation will move the door in the opposite direction.

HOPPING CODE

Every time a transmission is made from the Remote Transmitter a new security code is generated. The number of possible code combinations is over 4.29 billion. This greatly enhances security of the system. Code 'Grabbing' is made a thing of the past.

ISS (INTELLIGENT SAFETY OBSTRUCTION SYSTEM)

While the door is doing a closing cycle and if it should hit an obstacle or be restricted in some manner, it will automatically reverse. The amount of force the door should encounter before reversing, is automatically adjusted by the doors control system, during the initial installation of the automatic door opener. The door also if restricted whilst opening will stop. The Safety Obstruction Force should be checked at least once a month. See installation manual for instructions.

SECURITY CODE STORE

The Opener uses state of the art technology in storing your selected Transmitter Security Code. Up to 27 different codes can be stored in the Openers memory.

To store any code simply press and hold the Door Code button on the Opener and press the Transmitter button twice. Each or all codes can be deleted and changed at any time. The codes can also be stored with the Transmitter from a remote location.

OVER LOAD INDICATOR

When the maximum opening and closing capacity of the Opener is exceeded the Courtesy Light will flash about 10 times and an audible

Beeper will sound to indicate that an Overload has occurred.

SERVICE INDICATOR

The Opener has a Service indicator. When the Overload LED light flashes and the beeper sounds at the start of a door cycle, it means that the opener and or garage door needs a service.

AUTO COURTESY LIGHT

The Courtesy Light on the Opener comes on automatically whenever the door is activated to do an opening or closing cycle. The Light can also be switched on and off without operating the door. This is done by pressing the button on any Hand Held Transmitter or Wall Mounted Transmitter which has been stored with the light code, or by pressing the light button on the Wall Switch (optional). The light will stay on for approximately three

minutes then go off. This time is also adjustable.

CAS (COLOUR ASSISTED SETTINGS)

To make the installation of the Automatic Opener more user friendly Automatic Technology Australia developed the CAS (Colour Assisted Settings) system. This unique system allows for all the Open and Close adjustments and settings to be colour coordinated, Red for Close and Green for Open. The colour coordination make its easier and quicker for the user or installer to complete the installation.

OPEN AND CLOSE DRIVE BUTTONS

Another feature developed by Automatic Technology Australia in aiding in the installation of the opener is the Open and Close Drive Buttons. These buttons are used to help set the open and close limit positions. A quicker setting time and a more precise limit position can be achieved using this system.

INITIALISATION

The Reset button on the Door Opener is used to initialise or re-initialise the obstruction settings and door travel counts. See installation manual for instructions.

AUTO CLOSE MODE

The Opener can be programmed to automatically close after an open cycle. The Auto Close time is adjustable. It is compulsory to install a Photo Electric Beam if this mode is selected, otherwise the door will not operate.

SAFETY AUTO RUN TIME

If the Opener does not complete its cycle within thirty seconds the Opener will stop if opening, and reverse back open if closing automatically.

PHOTO ELECTRIC BEAM (OPTIONAL)

The Opener has an input for a Photo Electric Beam to be connected for extra safety protection. And use of the Auto Close Mode

MANUAL OPERATION

The Opener is equipped with a unique Manual Disengaging Device. If the power to the Opener is disrupted for any reason the door can be put into Manual Mode by pulling down on the string handle, then releasing. This will allow you to manually open or close the door. When power is restored, by pulling down on the string handle and releasing, the opener is put back into Automatic Mode.

OPERATING CONTROLS

1. LIGHT CODE button (White) is used for storing or erasing the transmitter button (code) you wish to use to turn the courtesy light on the Opener on and off.

2. DOOR CODE button (Blue) is used for storing or erasing the transmitter button (code) you wish to use to command the door to open, stop or close.

3. CLOSE DRIVE button (Red) is used during installation to help set the close limit stop position. Pressing and holding this button will move the door in the close direction. Movement stops when the button is released.

NOTE: The close safety obstruction detection is inoperable whenever the Close Drive button is used to move door.

4. CLOSE LIMIT Led (Red) the led is very helpful during installation, it illuminates and flashes when the door is closing and remains steady on when the close limit is activated.

5. AUTO CLOSE TIME button (White) is used to adjust the auto close time. While holding in the Auto Close button and then pressing (each press will increase the time by 5 seconds) the Open button the time is increased, pressing the Close button will decrease the time.

6. RESET button is used to initialise and set the door/opener operating parameters, including cycle times and obstruction force settings. Check the installation manual for other uses.

7. O / S / C button (Yellow) is used during installation to test the Open, Stop and Close cycles for the Opener. The Opener has to be initialised by the Reset button before the O/S/C button becomes operable.

8. CLOSE LIMIT ADJUST SCREW Red is used to fine adjust the close limit stop position. See

9. OPEN LIMIT ADJUST SCREW (Green) is used to fine adjust the open limit stop position. Check installation section on how to adjust.

10. CLOSE LIMIT CAM (Red) is used to set the close limit stop position. Check installation section on how to adjust.

11. OPEN Drive button (Green) is used during installation to help set the open limit stop position. Pressing and holding this button will move the door in the open direction. Movement stops when the button is released.

NOTE: The open obstruction detection is disabled whenever the Open Drive button is used to move door.

12. OPEN LIMIT Led (Green) the led is very helpful during installation, it illuminates and flashes when the door is opening and remains steady on when the open limit is activated

13. OPEN LIMIT CAM (Green) is used to set the open limit stop position. Check installation section on how to adjust.

14. FORCE MARGIN SET button (White) is used to change

the force pressure when the door encounters an obstruction. Pressing the Force Margin Set button and Open or Close button will increase or decrease the force. Normally the force pressure is set automatically. The Force Margin Set is only ever used if other environmental factors (wind, etc.) effect the operations of the Door/Opener.

15. P.E. Input is for connection of Photo Electric Beams (optional extra) for extra safety obstruction protection, or compulsory when used with Auto Close mode.

NOTE: P.E. SHUNT must not be removed otherwise the Opener will not function correctly. Remove only when a P.E. is to be connected.

16. EXTERNAL RECEIVER INPUT is the input where an external receiver can be connected (optional extra). The receiver input can supply 30mA @ 24 volts DC maximum to power an external receiver.

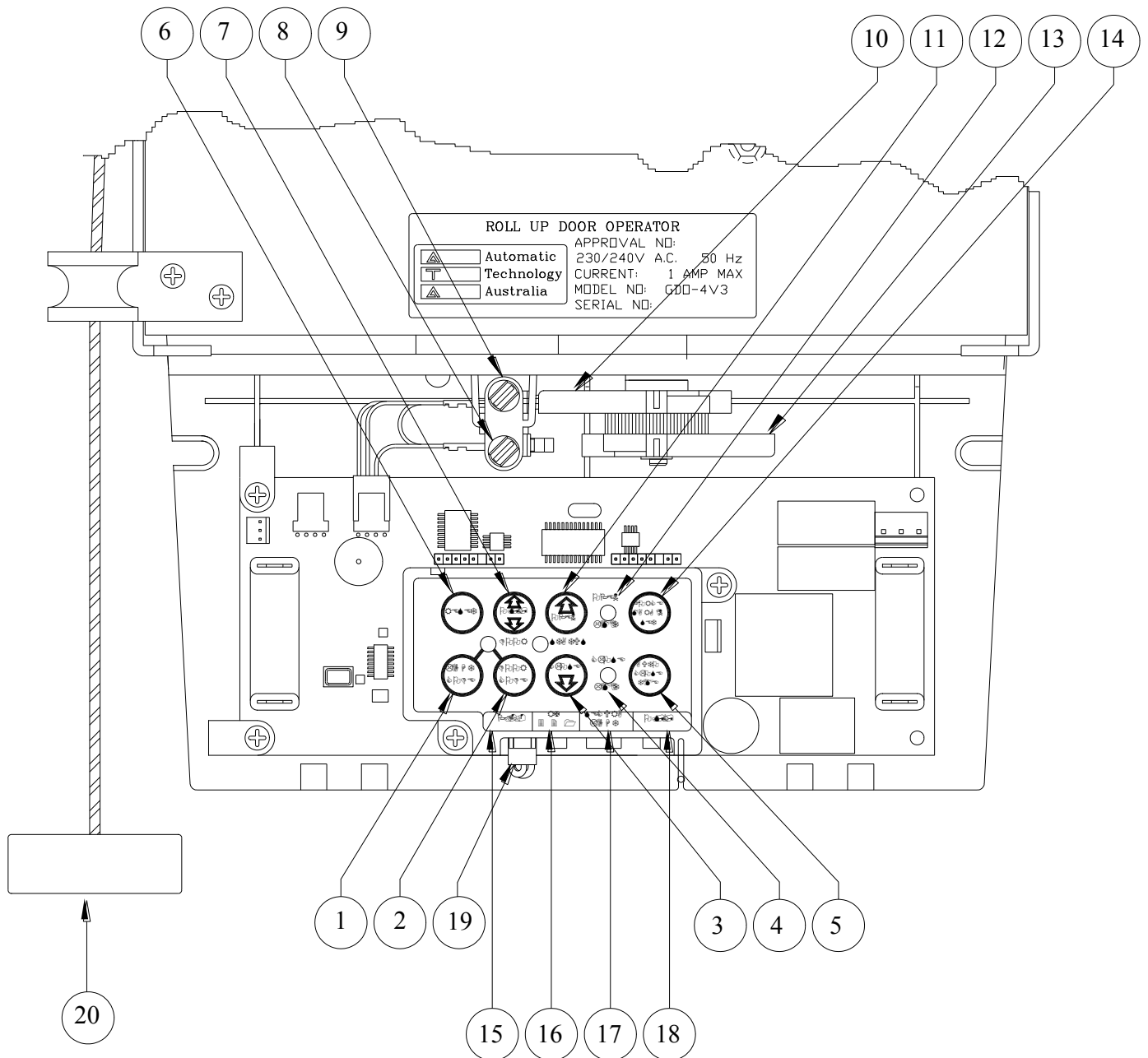
17. SECURALIGHT Input is used for connecting a Securalight (optional extra) Monitor. A Securalight is a monitor unit which is mounted inside your home and is connected to the Opener by wire cable. The monitor indicates the status of the door, for example if the door is moving or is opened or closed, etc. The door can also be controlled from the monitor unit.

18. O / S / C Input is for connecting the wired Wall Switch (optional extra).

19. P. E. SHUNT The shunt has to be removed when connecting a Photo Electric Beam.

20. ENGAGE / DISENGAGE HANDLE when pulled down and released will select manual mode on Opener when there is a power failure. Pulling down and releasing again will select automatic mode on the Opener.

OPERATING CONTROLS

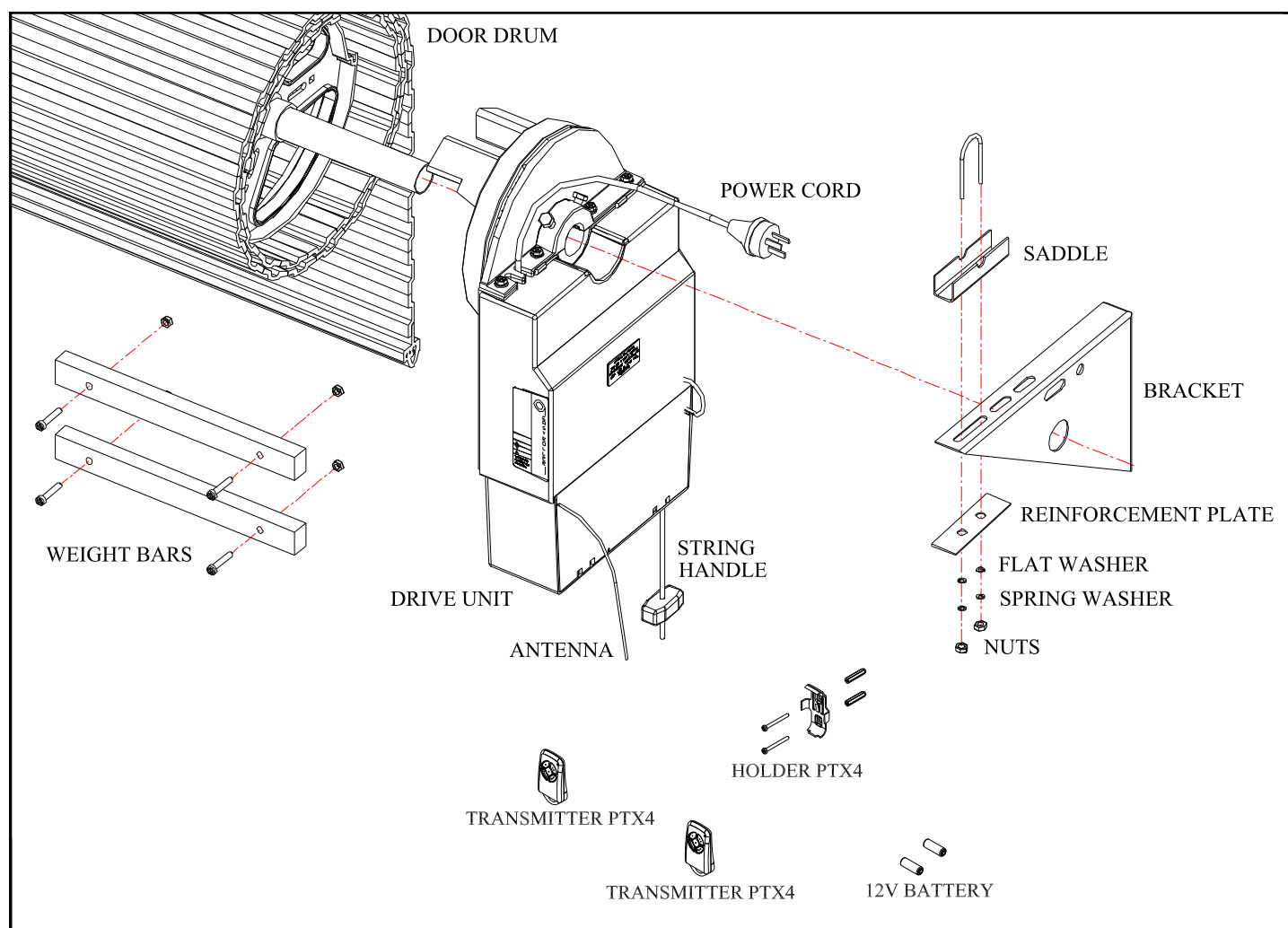


- | | |
|------------------------------------|-------------------------------|
| 1) LIGHT CODE BUTTON (WHITE) | 11) OPEN DRIVE BUTTON (GREEN) |
| 2) DOOR CODE BUTTON (BLUE) | 12) OPEN LIMIT (RED) |
| 3) CLOSE DRIVE BUTTON (RED) | 13) OPEN LIMIT CAM (GREEN) |
| 4) CLOSE LIMIT LED (RED) | 14) FORCE MARGIN SET BUTTON |
| 5) AUTO CLOSE BUTTON (WHITE) | 15) P.E. INPUT |
| 6) RESET BUTTON | 16) EXTERNAL RECEIVER INPUT |
| 7) O/S/C BUTTON (YELLOW) | 17) SECURALIGHT INPUT |
| 8) CLOSE LIMIT ADJUST SCREW (RED) | 18) O/S/C INPUT |
| 9) OPEN LIMIT ADJUST SCREW (GREEN) | 19) P.E. SHUNT |
| 10) CLOSE LIMIT CAM (RED) | 20) ENGAGE / DISENGAGE HANDLE |

PACKAGE CONTENTS

ITEM	QUANTITY
DRIVE UNIT	1
FOUR CHANNEL TRANSMITTER PTX-4	2
HOLDER PTX-4	1
BATTERY (12 VOLTS)	2
WEIGHT BARS (NOT INCLUDED IN SOME COUNTRIES)	2
SCREWS (M4 x 25mm)	4
SCREWS (# 6 x 25mm)	2
PLASTIC WALL PLUGS	2
INSTALLATION MANUAL	1

SEQUENCE OF INSTALLATION



INSTALLATION

SIDE ROOM REQUIREMENTS

Figure 1 shows the minimum side room that is required. The distance between the edge of the door curtain and the inside of the bracket is 85mm, and the distance between the edge of the door curtain and the outside of bracket is 135mm. Figure 2 shows the recommended side room. The distance between the edge of the door curtain and the inside of the bracket should be 110mm minimum, and the distance between the edge of the door curtain and the outside of bracket is 160mm minimum.

1. CHECK OPERATION OF DOOR BEFORE BEGINNING THE INSTALLATION OF THE EASY ROLLER AUTOMATIC OPENER CHECK THE OPERATION OF THE DOOR.

The door must be well balanced and be in a reasonable operating condition. You should be able to lift the door smoothly and with little resistance. It should stay open around 900mm to 1200mm above the floor. The door should not stick or bind in the guide tracks. The ideal operational effort in raising or lowering the door should not exceed a force of 10 kg (22 lbs.).

2. FIXING OF DOOR WEIGHT BARS

Move the door manually to the mid open position. Place the weight bars equally apart on the bottom rail of the door and secure them with the fasteners provided (see Fig. 3). Check the operation of the door again. If the door feels heavy it may require extra tension to be added to the door springs. Refer to the door Installation manual from manufacturer on how to tension the door.

3. LEFT OR RIGHT HAND INSTALLATION

The Easy Roller Automatic Opener can be installed on the left or right hand side of the door (when looking out from the inside of the garage). If your opener is to be installed on the **RIGHT HAND** side of the door then go on to step 4. If the **LEFT HAND** side is your selected side for installation the next step is to move the motor wire connector on the control board. The connector plug has to be removed and reconnected to the **LEFT** side of the connector (Fig. 4). If you have made an error in selection and wish to install to the **RIGHT HAND** side of the door, then reconnect the connector plug to the **RIGHT** side of the connector (Fig. 5).

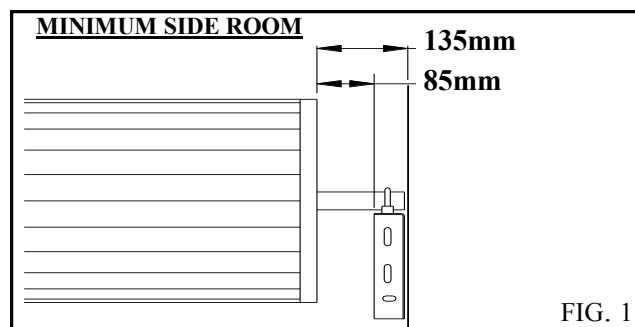


FIG. 1

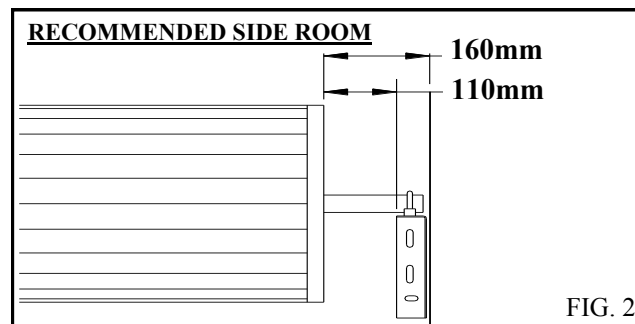


FIG. 2

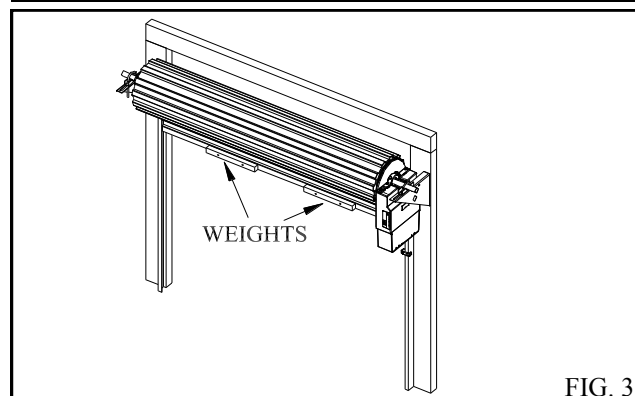


FIG. 3

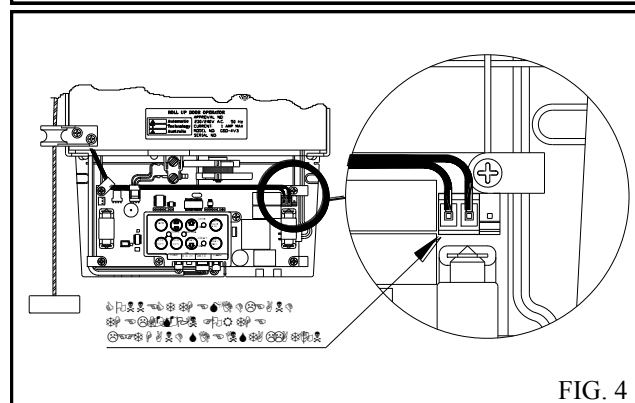


FIG. 4

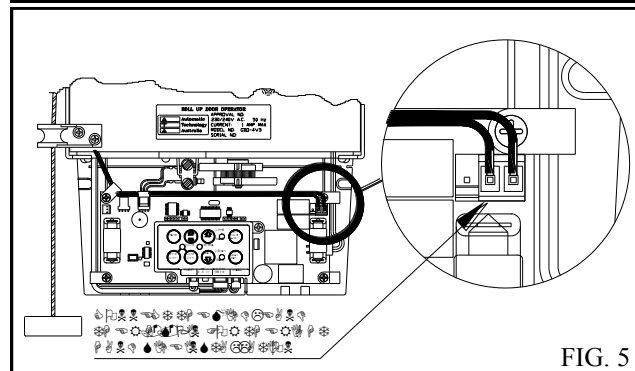


FIG. 5

4. FIXING DRIVE ASSEMBLY TO THE DOOR (RIGHT HAND INSTALLATION)

The Drive Assembly can be fixed to the Roll Up Garage Door in a variety of ways. Below we will describe one method of fixing. Make sure there is enough side room (135mm from end of door shaft to the wall) to slide Drive Assembly onto shaft. **PLEASE NOTE : THE INSTRUCTIONS FOR FIXING OF THE DRIVE ASSEMBLY TO THE DOOR IS FOR RIGHT HAND INSTALLATION.**

FITTING DRIVE ASSEMBLY TO DOOR

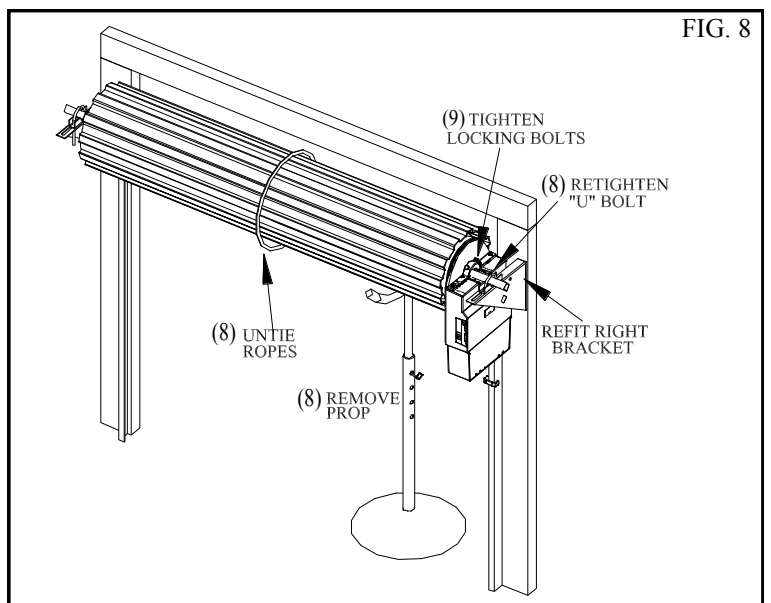
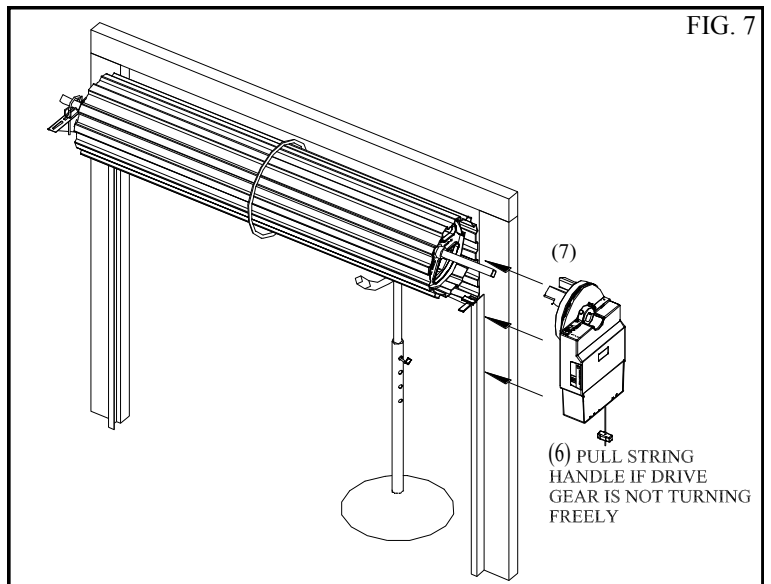
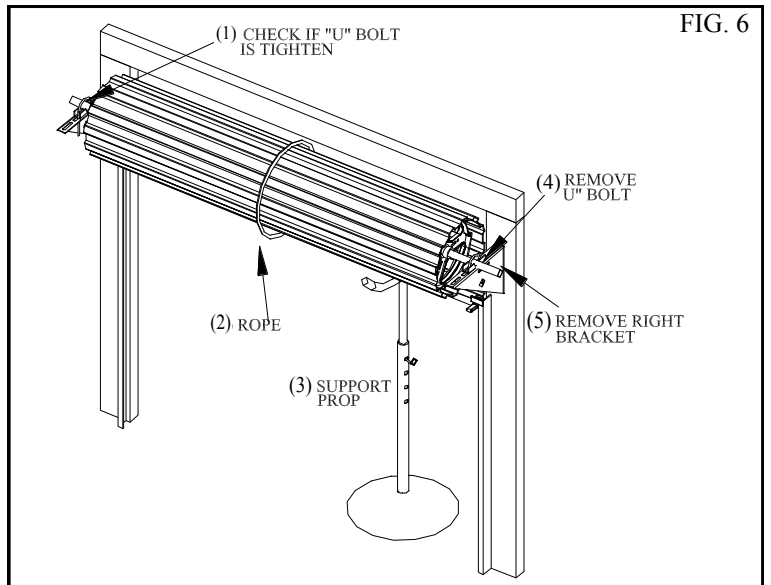
(Fig. 6, Fig. 7, and Fig. 8).

1. Check that the door shaft U bolt is securely tightened on the left hand side of the door.
2. Raise the door and tie a rope around the centre to secure the roll.
3. Support the right hand end of the door with a suitable prop, e.g. step ladder and soft padding to protect door surface.

STOP. WARNING: DO NOT ALLOW CHILDREN/ PERSONS AROUND THE DOOR AND PROP. SERIOUS PERSONAL INJURY AND / OR PROPERTY DAMAGE CAN RESULT FROM FAILURE TO

FOLLOW THIS WARNING.

4. Check that Step 3. was completed. Carefully loosen and remove the right hand door shaft U bolt.
5. Make sure that the door supporting prop is secure. While the door is supported remove the right hand door mounting bracket from wall.
6. Remove the Drive Assembly from packaging. Try and rotate the drive gear by pushing on the fork. If the gear does not rotate the manual mode has to be selected. To select pull on the string handle downwards, then release slowly. The drive gear should now rotate.
7. Slide the Drive Assembly over the door axle making sure that the fork extends into and over one of the spokes of the door drum wheel.
8. Refit the door mounting bracket to the wall. In some cases the bracket may have to be re-positioned. Re-tighten the door shaft U bolt. Remove door supporting prop and untie rope from curtain.
9. Straighten the Drive Assembly and position as per Fig. 8. Tighten the two locking bolts firmly to secure the Drive Assembly.
10. Check the manual operation of the door by raising and lowering the door. The door should run smoothly and not catch on any part of the Drive Assembly.



5. FIXING OF DOOR CURTAIN TO DRUM WHEEL

The door curtain has to be secured to the drum wheel with suitable fasteners.

1. With the door in the fully closed position mark the curtain (as per Fig. 9) on both ends of the door.
2. Open door slightly to have access to the marked positions. Secure the curtain to drum wheel using self drilling screws (two on each end). The screws should be at least 90 degrees apart as per Fig. 9.

6. SETTING LIMIT SWITCHES

IMPORTANT NOTE: The O / S / C button will not function until the Limits are adjusted and Step 7.1 is completed.

The Limit Cams, Limit Fine Adjustment Screws and Door Inch buttons are colour coded to make the setting of the limits as user friendly as possible.

The GREEN colours for OPEN LIMIT SETTING.

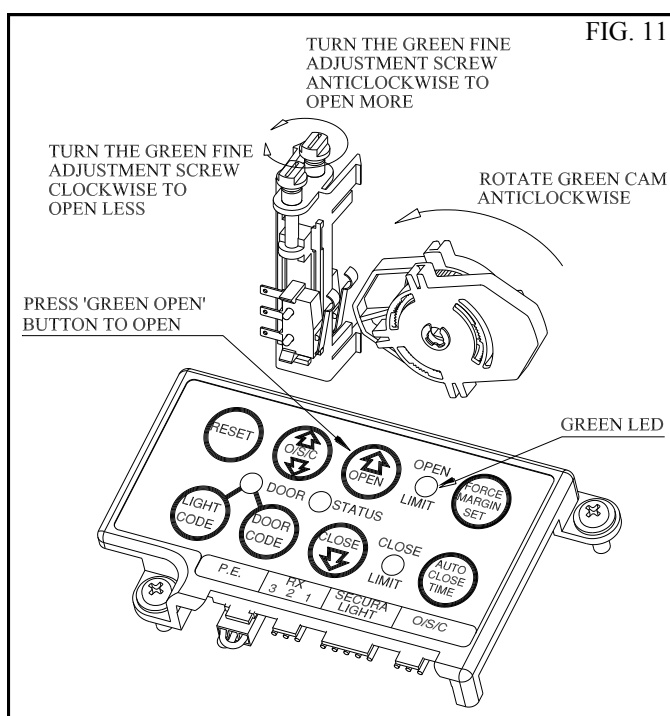
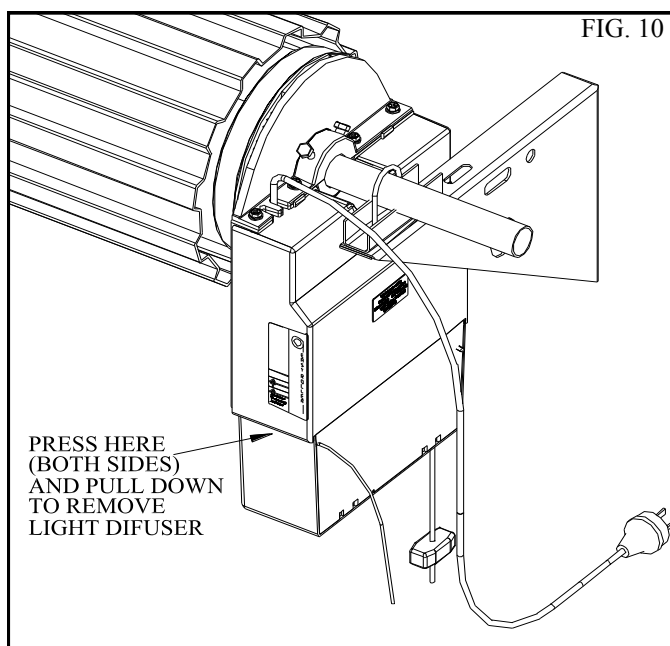
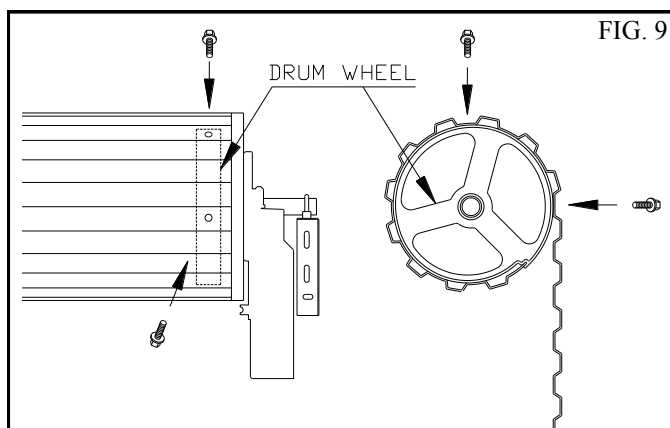
The RED colours for CLOSE LIMIT SETTING.

6.1 SETTING LIMITS FOR RIGHT HAND INSTALLATION

1. With the Drive Assembly in manual mode (see Fig. 13) move the door up by hand to the desired open position.
2. Remove the Light Diffuser (Fig. 10). Rotate by hand in a anticlockwise direction the green limit cam (Fig. 11) until the cam clicks the open limit switch.
3. Move the door down by hand to the desired closed position.
4. Rotate by hand in a clockwise direction the red limit cam (Fig. 12) until the cam clicks the close limit switch.
5. Connect power lead from the Drive Assembly into, a general purpose power outlet installed by a licensed electrical contractor. Turn the Power On.
6. Re-engage the drive gear to door by pulling down on the string and then releasing slowly (Fig. 13).

OPEN LIMIT ADJUSTMENT

Press in and hold the Green Open button (Fig 11) The door should start opening. Release the Green Open button when the door reaches the desired open position. If the Green LED (Fig. 11) is illuminated and the desired limit position has been reached then the limit adjustment is complete. If the Green LED is illuminated but you are not happy with the door open position, the Green Fine Adjustment Screw (Fig. 11) can be adjusted to fine tune the open position. Adjust the screw anticlockwise to open the door more. To open the door less adjust the screw clockwise. Each complete revolution of the adjustment screw is equal to approximately 10 mm of door travel.



INSTALLATION cont...

NOTE: If the door has not reached the desired limit position by more than 30 mm, then it is recommended that the green limits can be adjusted again before the green fine adjustment screw is adjusted.

CLOSE LIMIT ADJUSTMENT

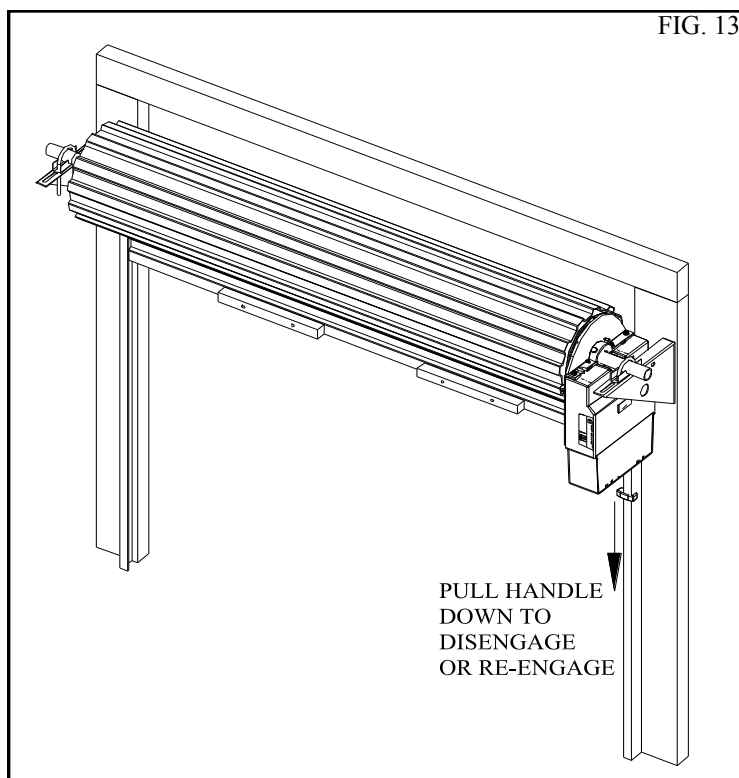
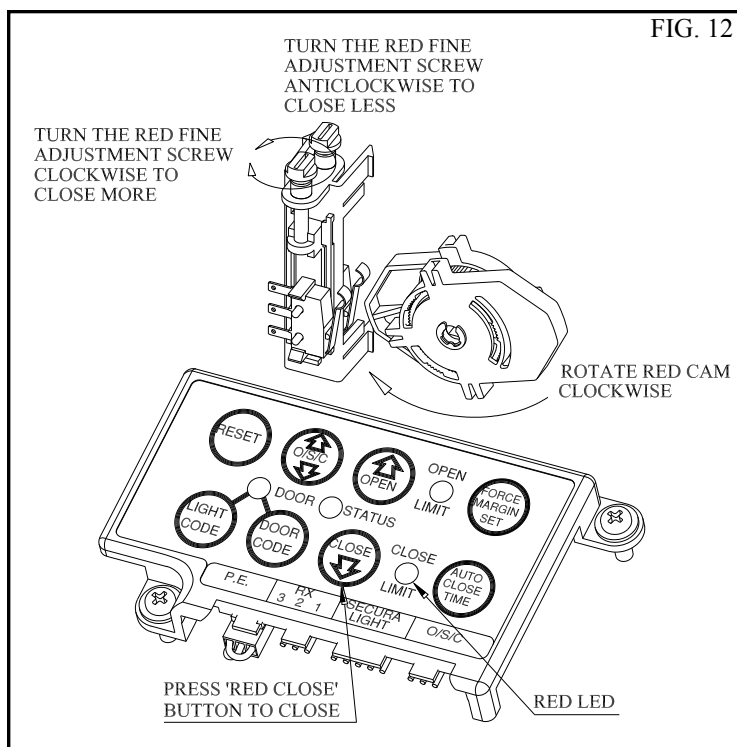
Press in and hold the Red Close button. (Fig 12) The door should start closing. Release the Red Close button when the door reaches the desired closed position. If the Red LED (Fig. 12) is illuminated and the desired limit position has been reached then the limit adjustment is complete. If the Red LED is illuminated but you are not happy with the door close position, the Red Fine Adjustment Screw (Fig. 12) can be adjusted to fine tune the close position. Adjust the screw anticlockwise to close the door less. To close the door more adjust the Red Fine Adjustment Screw clockwise. Each complete revolution of the adjustment screw is equal to approximately 10 mm of door travel.

NOTE: If the door has not reached the desired limit position by more than 30 mm, then it is recommended that the red limits can be adjusted again before the red fine adjustment screw is adjusted.

6.2 SETTING LIMITS FOR

LEFT HAND INSTALLATION

1. With the Drive Assembly in manual mode (see Fig. 13) move the door up by hand to the desired open position.
2. Remove the Light Diffuser (Fig. 10). Rotate by hand in a clockwise direction the Green Limit Cam (Fig. 14) until the cam clicks the open limit switch.
3. Move the door down by hand to the desired closed position.
4. Rotate by hand in a anticlockwise direction the red limit cam (Fig. 15) until the cam clicks the close limit switch.
5. Connect Power Lead from the Drive Assembly into, a general purpose power outlet installed by a licensed qualified electrical contractor. Make sure that the Power Lead is safely fastened away from any moving parts. Turn the Power On.
6. Re-engage the drive gear to door by pulling down on the string handle and then releasing slowly (Fig. 13).



INSTALLATION cont...

OPEN LIMIT ADJUSTMENT

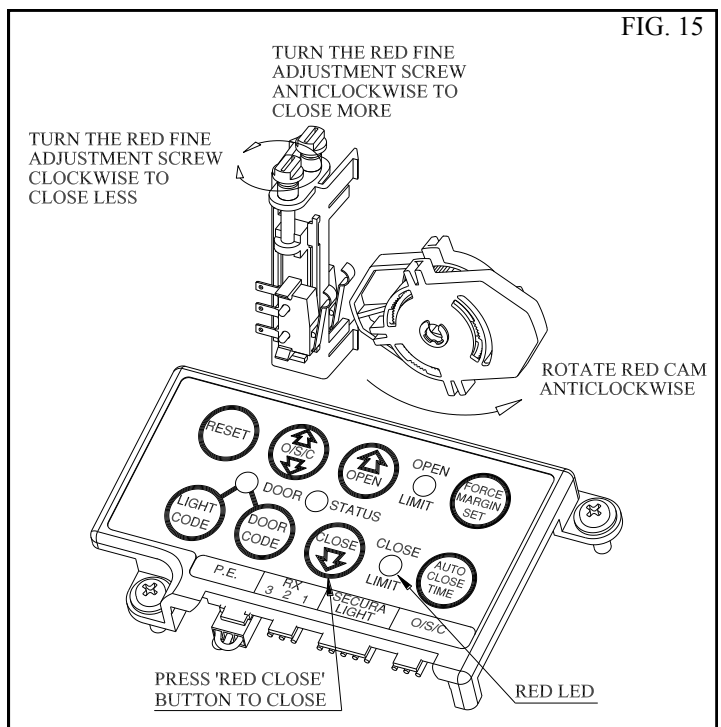
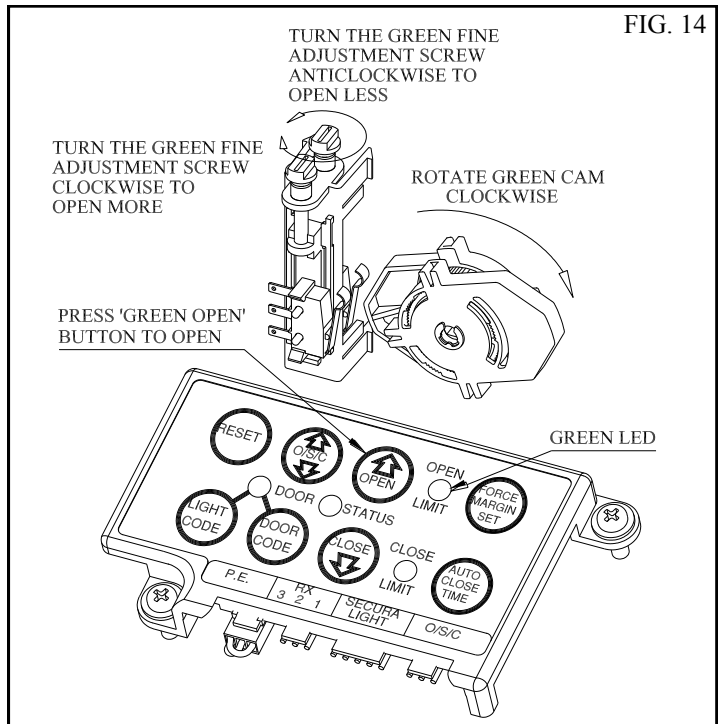
Press in and hold the Green Open Button (Fig 14) The door should start opening. Release the Green Open button when the door reaches the desired open limit stop position. If the Green LED (Fig. 14) is illuminated and the desired limit stop position has been reached then the limit adjustment is complete. If the Green LED is illuminated but you are not happy with the door open position, the Green Fine Adjustment Screw (Fig. 14) can be adjusted to fine tune the open position. To open the door more, turn the Green Fine Adjustment Screw clockwise. To open the door less turn the Green Fine Adjustment screw anticlockwise. Each complete revolution of the adjustment screw is equal to approximately 10 mm of door travel.

NOTE: If the door has not reached the desired limit position by more than 30 mm, it is recommended that the green limits can be adjusted again before the green fine adjustment screw is adjusted.

CLOSE LIMIT ADJUSTMENT

Press in and hold the Red Close button (fig 15) The door should start closing. Release the Red Close button when the door reaches the desired closed limit stop position. If the Red LED (see Fig. 15) is illuminated and the desired limit position has been reached then the limit adjustment is complete. If the Red LED is illuminated but you are not happy with the door close position, the Red Fine Adjustment Screw (see Fig. 15) can be adjusted to fine tune the close position. Adjust the screw clockwise to close the door less. To close the door more adjust the screw anticlockwise. Each complete revolution of the adjustment screw is equal to approximately 10 mm of door travel.

NOTE: If the door has not reached the desired limit position by more than 30 mm, then it is recommended that the red limits can be adjusted again before the red fine adjustment screw is adjusted.



7. SETTING OF OPEN AND CLOSE

SAFETY OBSTRUCTION FORCE

The Safety Obstruction Force is calculated automatically and set in memory on the EasyRoller. This applies to both the Open Force and Close Force.

Warning: When step 7.1 is initiated the Garage Door will do a full open and close cycle automatically. Please keep door way clear to avoid any personal injury or damage to property.

7.1 TO INITIALISE OBSTRUCTION FORCE

1. Press and hold down the close button 3 (FIG. 16), to move the door to the fully closed position. Check that the RED LED is steady ON, to confirm the door is set on the closed limit position
2. Press the Reset button 6 (FIG. 16) for two seconds, the door should start opening. As soon as the door reach's the fully open position it will pause momentarily then start to close.

The door has to do a full open and close cycle with no interruptions for the safety obstruction parameters to be calculated and set automatically.

A default safety force pressure margin is preset in the factory. Under normal operating conditions this default margin should not be changed. If you are unhappy with the pressure you can change as below.

7.2 TO INCREASE FORCE PRESSURE

1. Press and hold the Force Margin Set button 14 (Fig. 16).
2. While holding down button 14 press the green Open button 11. The green LED will illuminate each time the green open button is pressed to indicate that the force pressure is being increased. If the green LED flashes continuously when the open button is being pressed, this indicates that the maximum force pressure setting has being reached.

7.3 TO DECREASE FORCE PRESSURE

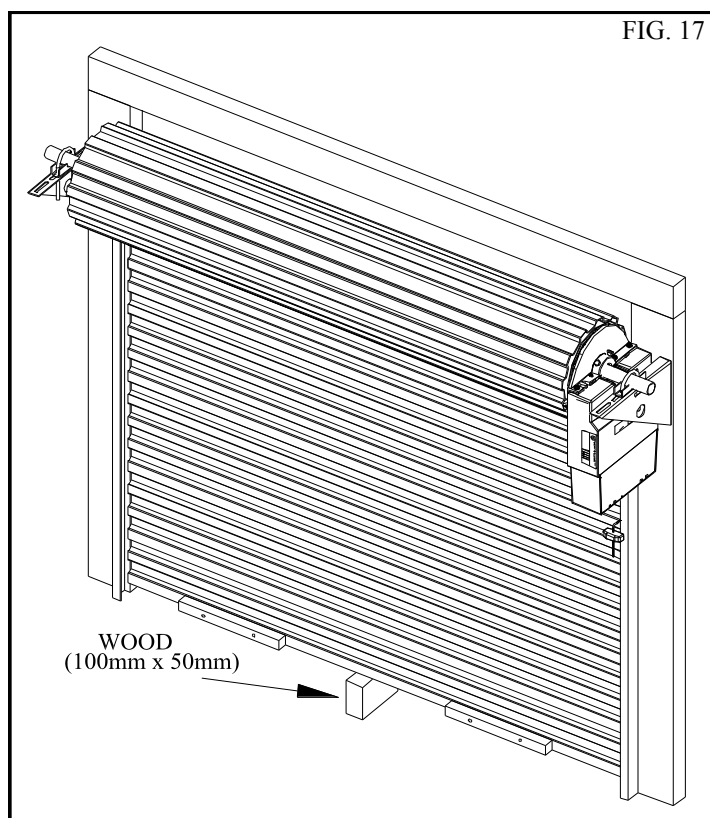
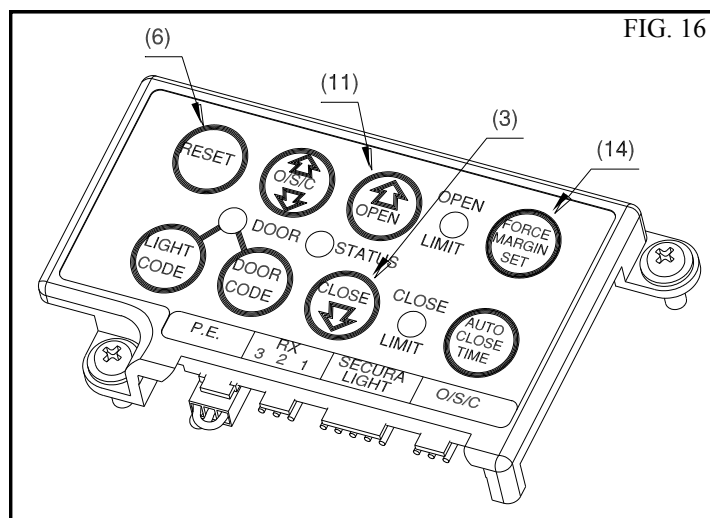
1. Press and hold the Force Margin Set button 14 (Fig. 16).
2. While holding down button 14 press the red Close button 3. The red LED will illuminate each time the red Close button is pressed, to indicate that the force pressure is being reduced. When the red LED flashes continuously when the red close button is being pressed, this indicates that the minimum force pressure setting has being reached.

7.4 TO RECALL FACTORY SET FORCE

1. While holding down the Force Margin Set button 14 press the RESET button 6 for two seconds.
2. Release both buttons. The default setting should now be recalled.

IMPORTANT NOTE:

Whenever the Limit Switches or Cams are adjusted the safety obstruction force has to be re-initialised because the door travel distance may have changed. To re-initialise please follow STEP 7.1 above.



INSTALLATION cont.

7.4 SAFETY OBSTRUCTION TEST

TESTING CLOSE CYCLE

1. Open the door by pressing the Yellow O/S/C button 7 (Fig 18).
2. Place a length of timber 100mm X 50mm on the floor directly under the door (FIG. 17).
3. Press the Yellow O/S/C button to close door. The door should strike the object and start to re-open.

TESTING OPEN CYCLE

1. Close the door by pressing the Yellow O/S/C button 7. (Fig 18).
2. Press again to open the door. When the door reaches half the opening distance grab the bottom rail of the door firmly, the door should stop.

If the door does not reverse readily when closing, or stop when opening, the force may be excessive and need adjusting, refer to **STEP 7.1, 7.2, 7.3 and 7.4.**

IMPORTANT WARNING: If the door is closing and is unable to reopen when obstructed discontinue use. Do not use a door with faulty obstruction sensing. Repair fault and re test before using.

8. SETTING TRANSMITTERS CODES INTO DOOR OPENER

The Remote Transmitters and Wall Mount Transmitters can be programmed into the Door Opener as below. Make sure to connect the battery to the Transmitters. The memory in the Openers receiver can store up to 27 different remote control transmitters.

8.1 STORING THE TRANSMITTERS CODE

1. **Press and hold** the blue Door Code button on the Control Panel button 2 (FIG. 18).
2. Press the button (one of four) on the Transmitter you would like to use to control the door for approximately two seconds, (FIG. 18). Pause for two seconds. Press the same button again on the Transmitter for approximately two second.
3. Release the blue Door Code button 2.
4. Press the Transmitter button to see if it operates the door. If you wish you can code in all four buttons on the Transmitter so all four can operate the same door

8.2 STORING ADDITIONAL TRANSMITTER (S) FROM A REMOTE LOCATION

Using this method you don't need to have access to the control panel on the Door Opener. However, you do need a transmitter that is pre coded to the controller's receiver.

IMPORTANT NOTE: The Door must be activated when the step below is preformed. The moving Door is to confirm from a remote location that the correct button was pressed and the transmitter is in range of the opener of a pre coded Transmitter.

1. Take any pre coded Transmitter. Press the button for the function you require until the door is activated and release.
2. Then using a small needle press and hold firmly for 2 seconds through the **Coding Hole** (Fig 19)
3. Within 10 seconds take the additional transmitter you wish to code and follow **STEP 8.1** para 2, as above.

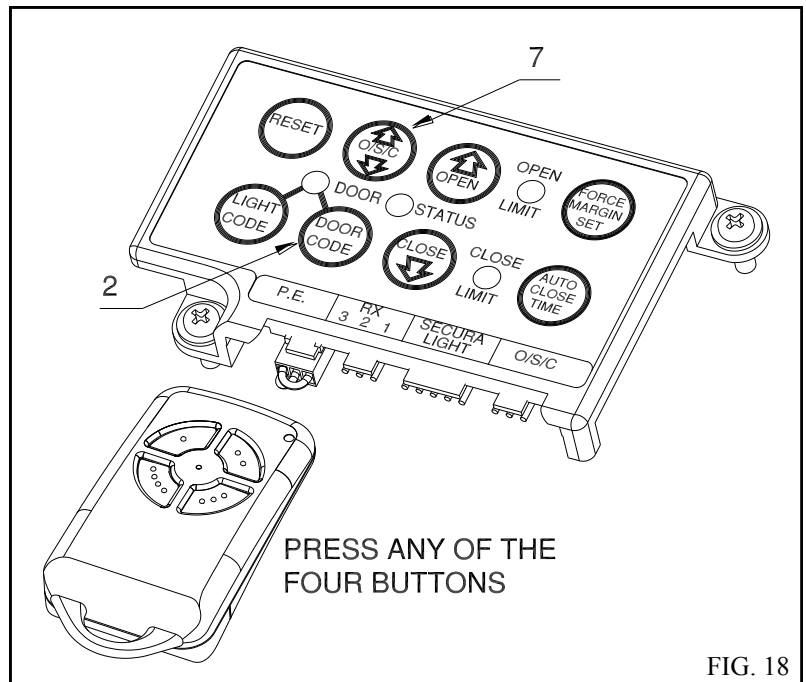


FIG. 18

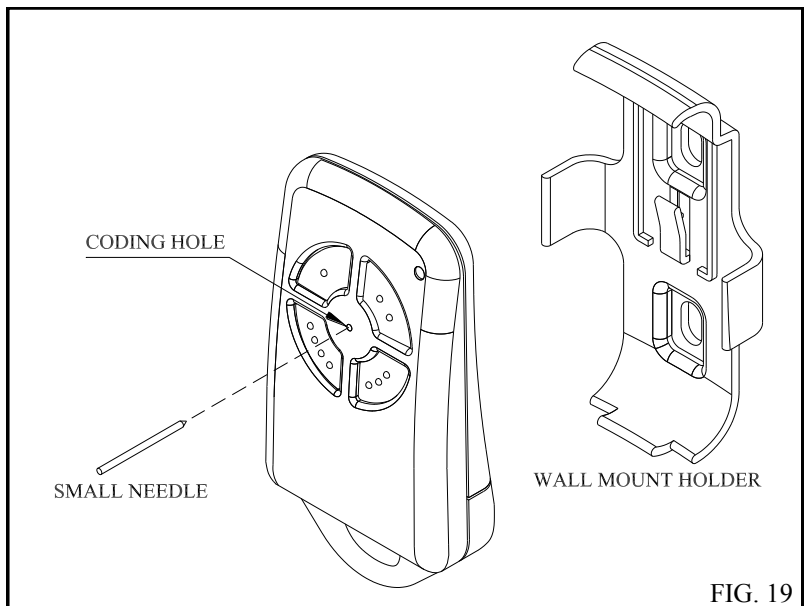


FIG. 19

9. SETTING THE TRANSMITTER TO OPERATE THE COURTESY LIGHT

The Transmitter can be programmed to operate the Courtesy Light on the Door Opener.

1. Press and hold Light Code button 1 on the Control Panel (FIG. 20).
2. Press the button on the Transmitter you would like to use to control the light for approximately two seconds, Pause for two seconds. Press the same button again on the Transmitter for approximately two seconds.
3. Release the Light Code button 1.
4. Press the Transmitter button to see if it operates the light.

10. DELETING PROGRAMMED CODES

10.1 DELETING A STORED TRANSMITTER CODE

1. Select the transmitter you want to delete.
2. Press and hold the blue Door Code button 2 (FIG. 21) on the Control Panel.
3. Press the Transmitter button you would like to delete for two seconds. Pause for two seconds. Press the Transmitter button again for two seconds.
4. Release the blue Door Code button 2. The code should now be deleted. Confirm this by pressing the transmitter button to see if it can operate the door. The door should not respond.

10.2 DELETING ALL STORED TRANSMITTER CODES

1. Turn the Power Off to the Drive Unit.
2. Press and hold the blue Door Code button 2 (FIG.21) on the Control panel.
3. Turn the Power On again, while holding the Blue Door Code button until the Coding LED illuminates. Release the blue Door Code button 2. All the stored codes including the Courtesy Light Codes should now be deleted. Confirm this by trying to operate the door by pressing one of the deleted transmitters.

11. SETTING OF COURTESY LIGHT TIME

The preset courtesy light time on the Door Opener is 3 minutes. This time can be changed as below.

1. Press in together and hold the Auto Close Time button 5 and Force Margin Set button 14 (FIG. 22).
2. While holding in the two buttons, press the green Open button 11 (FIG. 22). Each press of this button will add 10 seconds to the light time.
3. To decrease the time follow step 1 and press the red Close button 3 (FIG. 22). Each press will deduct 10 seconds from the light time.
4. To recall the factory set default light time press in and hold together the Auto Close Time button 5, the Force Margin Set button 14 and the Reset button 6 for about 2 seconds. (FIG. 22).

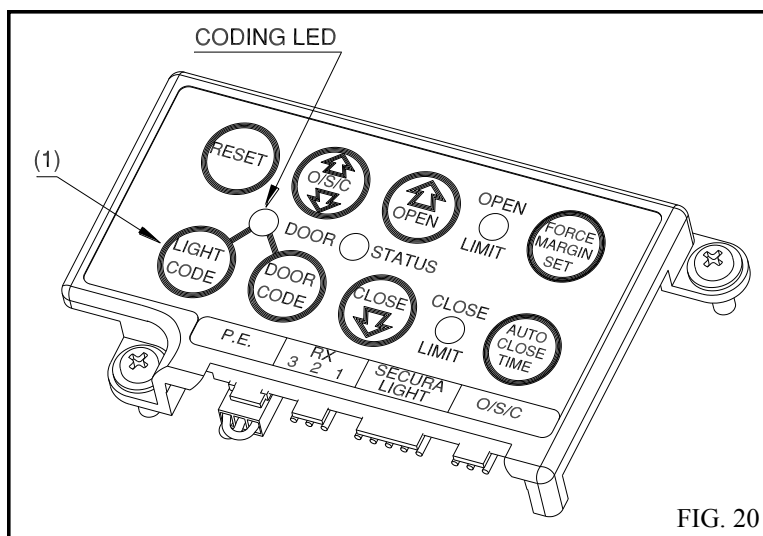


FIG. 20

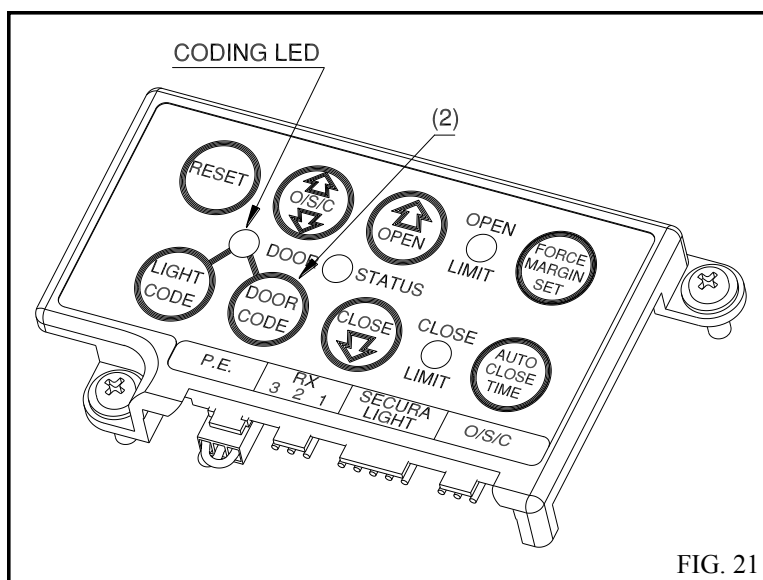


FIG. 21

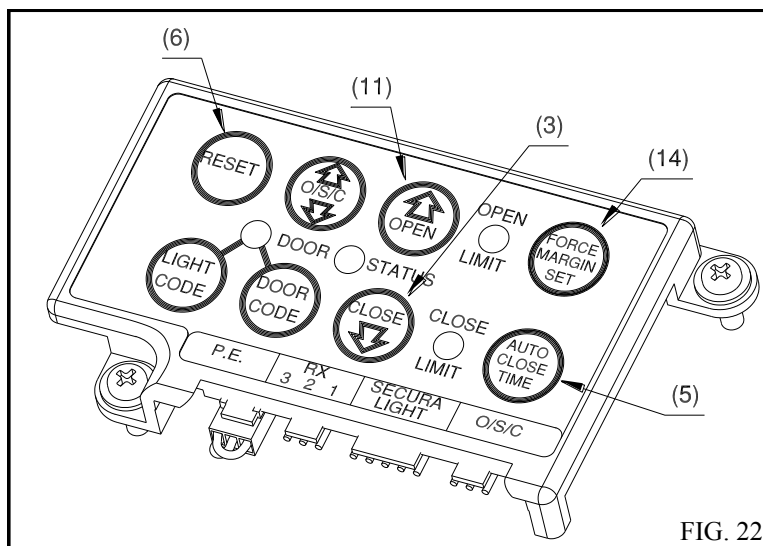


FIG. 22

12. FITTING OF SAFETY PHOTO ELECTRIC BEAM (OPTIONAL)

Locate the Photo Electric Beam (P.E.) normally closed contact type in a strategic location within doorway. Remove shunt from P.E. connector (FIG.23) and connect the plug from the P.E. wiring harness to P.E. connector 15 (FIG.24). Follow the wiring diagram supplied with the P.E. for wiring of the P.E.

WARNING; When using auto close and P.E. beams, the doorway must be clear of all obstructions and persons at all times. The location of the beam and manner in which it is installed might not give safety protection at all times. Check to make sure that the height of the beam and type used give maximum protection possible.

13. SETTING OF AUTO CLOSE TIME

IMPORTANT NOTICE: IT IS COMPULSORY TO INSTALL A PHOTO ELECTRIC BEAM BEFORE USING THE AUTO CLOSE MODE.

The Auto Close timer will only start after the Photo Electric Beams (P.E.) path is broken and the auto close time has been set. If the P.E. path is not broken the door will remain open till the path is broken. If the Door Opener incurs an obstruction (not from the P.E.) while closing the door will re-open and not auto close.

After the setting of the auto close mode, whenever the door is in the open position the open limit green LED will flash to indicate that the auto close mode is in operation.

SETTING AUTO CLOSE TIME

1. Press in and hold the Auto Close Time button 5 (FIG. 25).
2. While holding in the Auto Close Time button, press the green Open button 11 (FIG. 25). Each press of this button will add 5 seconds to the preset auto close time of '0' seconds.
3. To decrease the time follow step 1 and press the red Close button 3. Each press will deduct 5 seconds from the auto close time.
4. Press the O/S/C button 7 (FIG. 25) or Transmitter to open the door. While the door is opening break the path of the P.E. Beam, this will initialise the auto close mode. When the door reaches the fully opened position, the door will pause for the set auto close time and start to auto close.

14. INSTALLATION OF WALL MOUNTED TRANSMITTER HOLDER

1. Mount the holder in a location out of reach of children and convenient to the customer. (Fig 19)
2. The transmitter can be easily clipped in and removed from the holder anytime.
3. To set the transmitter codes refer to Step 8.

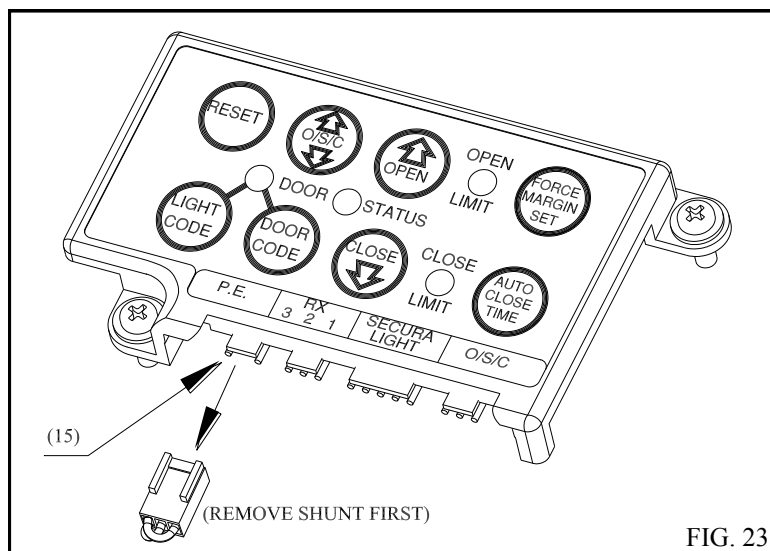


FIG. 23

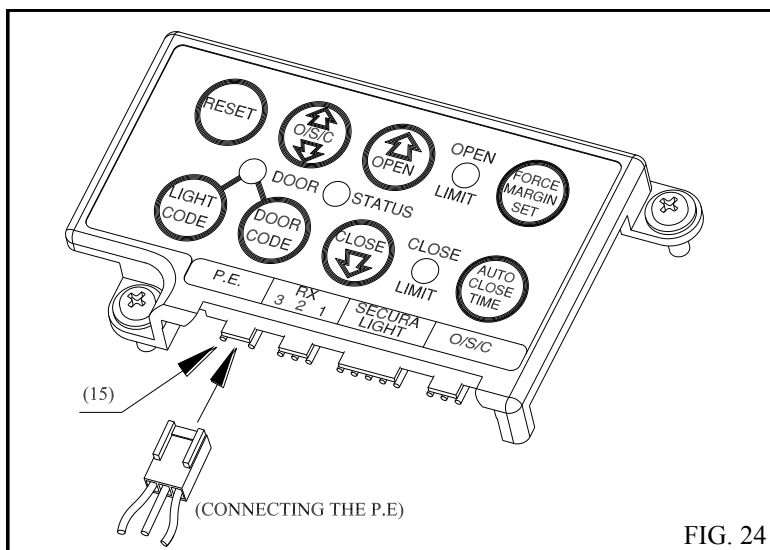


FIG. 24

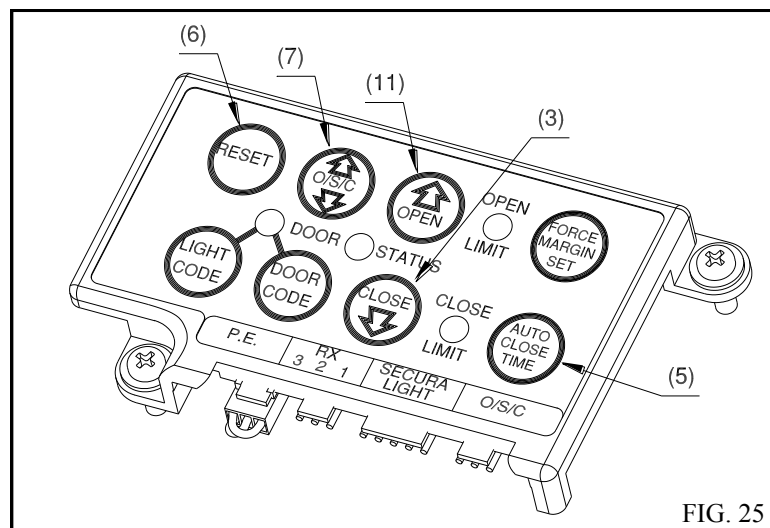


FIG. 25

INSTALLATION cont...

FACTORY SET DEFAULTS.

	DEFAULT	STEP	MAXIMUM
MAXIMUM MOTOR RUN TIME	30 Sec.	–	–
COURTESY LIGHT TIME	3 Min.	10 Sec.	10 Min.
OBSTRUCTION FORCE MARGIN	10	1	20
AUTO CLOSE TIME	0 Sec	5 Sec.	4 Min.

DOOR STATUS INDICATORS.

DOOR OPENER STATE	OPEN LED GREEN	CLOSE LED RED	SERVICE LED YELLOW	COURTESY LIGHT	BEEPER
OPEN	ON				
CLOSE		ON			
OPENING	FLASHING				
CLOSING		FLASHING			
DOOR TRAVEL STOPPED	FLASHING	FLASHING			
DOOR OBSTRUCTED WHEN OPENING	FLASHING				BEEPS ON AND OFF
DOOR OBSTRUCTED WHEN CLOSING		FLASHING			BEEPS ON AND OFF
DOOR OVERLOADED				FLASHES 10 TIMES	BEEPS ON AND OFF
DOOR AND OPENER REQUIRE A SERVICE			FLASHING		BEEPS ONCE AT START OF ANY CYCLE
DOOR AND OPENER APPROACHING OVER- LOAD					BEEPS FOR DURATION OF TIME APPROACHING OVERLOAD
DOOR HAS APPROACHED THE OVERLOAD THREE TIMES IN EIGHT CYCLES.			ON		BEEPS ONCE AT START OF ANY CYCLE
DOOR IN OPEN POSITION WITH AUTO CLOSE MODE SELECTED	ONE SECOND FLASHES				
MAINS POWER INTERRUPTED TO OPENER	RAPID FLASHES				

INSTALLATION cont...

TECHNICAL SPECIFICATIONS

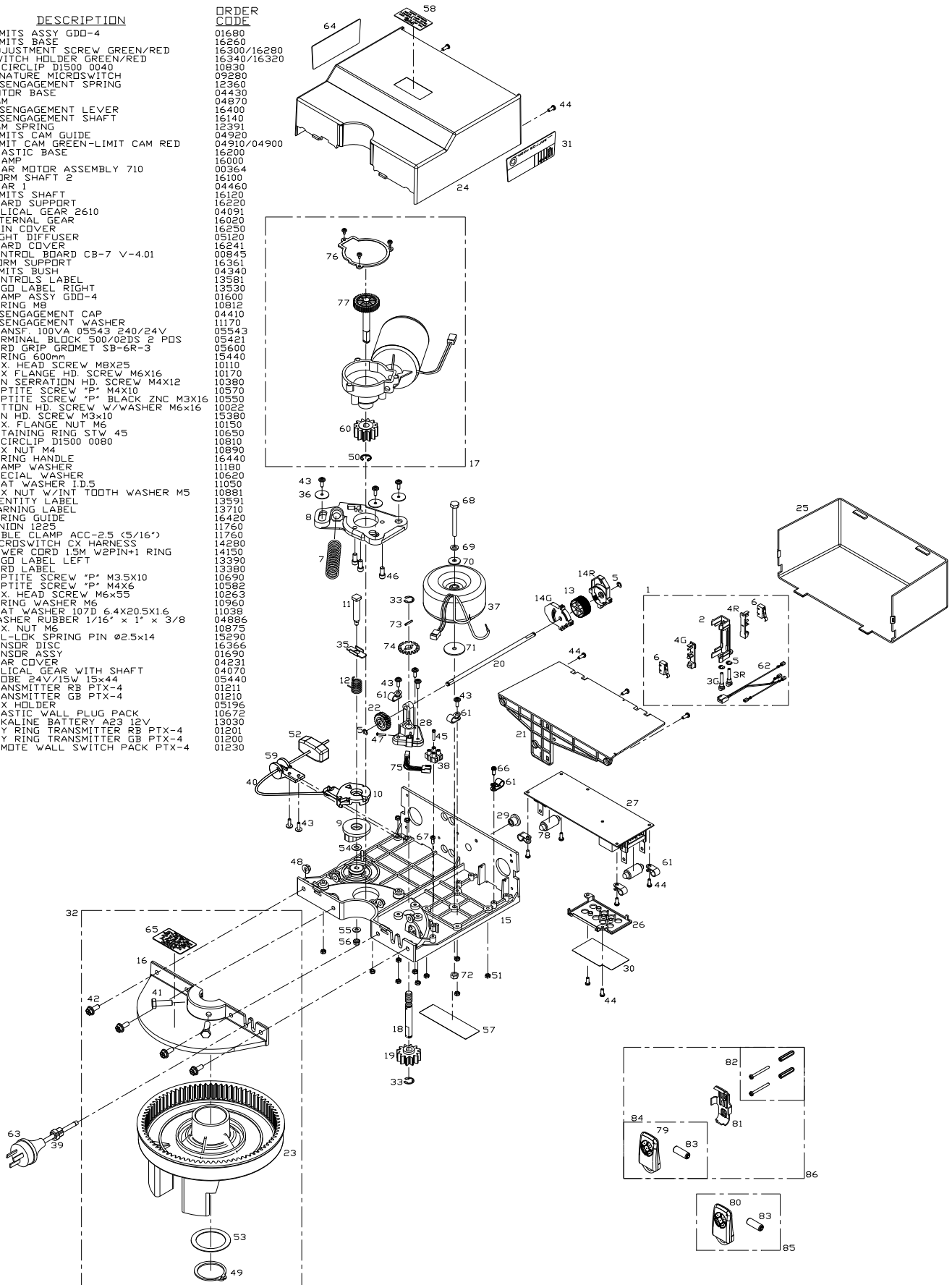
INPUT VOLTAGE:	230 - 240 VAC 50 Hz (Other voltages available on request 110VAC 60Hz, 127VAC 60Hz)	
TRANSFORMER:	Primary Voltage	230 V / 240 V AC
	Secondary Voltage	24 V AC 100 VA
	Controller Voltage	24V DC
OPENER LIFTING FORCE	250 N	
OPENER OPENING / CLOSING LIMITS TRAVEL	3.5 Turns of Door Drum Wheel	
OPENER MAXIMUM OPENING OR CLOSING RUN TIME	30 seconds	
RECEIVER TYPE	UHF 433.92 MHz. AM Receiver	
	Receiver Code Storage Capacity	27 X 4 Button Transmitter Codes
TRANSMITTER	Frequency	433.92 MHz
	Coding Type	Hopping Code
	Number of Code Combinations	Over 4.29 Billion Hopping Codes
	Code Generation	Non-linear Encryption Algorithm
	Battery Voltage	12 Volts
MOTOR TYPE	Permanent Magnet Direct Current Voltage	24V DC
GLOBE TYPE	Festoon Type	15 watts / 24V DC

FAULTS AND REMEDIES

SYMPTOMS	POSSIBLE CAUSES	REMEDY
Door will not operate	Main Power not turned on	Turn on Mains Power
	Door is obstructed	Remove obstruction
Door in locked or motor jammed		Unlock door Inspect door and remove jam
Door will not reverse when obstructed	Door needs to be re-initialised	Fully close the door and press the Reset button (refer installation instruction step 7.1)
Door moves downwards and reverses itself upwards	Adverse weather conditions (wind or cold) causing door to stiffen and become tight in tracks. There could be an obstruction in door way.	Increase the force pressure and / or re-initialise the door (refer installation instruction step 7.1 and 7.2)
Door operates from drive unit but not from hand transmitter	Indicator on transmitter not lighting	Battery flat or battery lead broken
	Code not stored in controlled receiver	Refer to installation instructions step 8.1
	Drive unit aerial wire not extended	Extend aerial wire
	Battery flat	Replace battery (9V)
Door does not close fully	Limit micro switch incorrectly adjusted	Re-adjust limit switch (refer installation instruction – step 6)
Door does not open fully	Limit micro switch incorrectly adjusted	Re-adjust limit switch (refer installation instruction – step 6)
Lights malfunction	Globe blown	Replace with 24V DC 15 watts Festoon globe
Globes keep blowing	Incorrect globe	Replace with 24V DC 15 watts Festoon globe
Courtesy Light Flashing	The Door Opener has detected a overload condition. The door may be jamming, lost Spring tension or needs repair.	Discontinue use of the Door Opener and call a qualified service man to repair door, Continual use may cause severe damage to the door and Door Opener.
Auto close not working	P.E. Beam faulty or wiring broken	Repair P.E. or broken wire
	P.E. Beam obstructed	Remove obstruction from the path of P.E.
	Door obstructed when closing	Close door using Transmitter. Refer to installation instruction – step 13
	Auto Close time not set	Refer to installation instruction – step 13
	Auto Close mode not set	Refer to installation instruction – step 13.4

PARTS LIST

ITEM NO.	DESCRIPTION	ORDER CODE
1	LIMITS ASSY GDD-4	01680
2	LIMITS BASE	16260
3	ADJUSTMENT SCREW GREEN/RED	16300/16280
4	SWITCH HOLDER GREEN/RED	16340/16320
5	E CIRCLIP D1500 0040	10830
6	MINATURE MICROSWITCH	09280
7	DISENGAGEMENT SPRING	12360
8	MOTOR BASE	04430
9	CAM	04870
10	DISENGAGEMENT LEVER	16400
11	DISENGAGEMENT SHAFT	16140
12	CAM SPRING	12391
13	LIMITS CAM GUIDE	04920
14	LIMIT CAM GREEN-LIMIT CAM RED	04910/04900
15	PLASTIC BASE	16200
16	CLAMP	16000
17	GEAR MOTOR ASSEMBLY 710	00364
18	WDRM SHAFT 2	16100
19	GEAR 1	04460
20	LIMITS SHAFT	16120
21	BOARD SUPPORT	16220
22	HELICAL GEAR 2610	04091
23	INTERNAL GEAR	16020
24	MAIN COVER	16250
25	LIGHT DIFFUSER	05120
26	BOARD COVER	16241
27	CONTROL BOARD CB-7 V-4.01	00845
28	WDRM SUPPORT	16361
29	LIMITS BUSH	04340
30	CONTROL S LABEL	13581
31	LOGO LABEL RIGHT	13530
32	CLAMP ASSY GDD-4	01600
33	E RING M6	10812
34	DISENGAGEMENT CAP	04410
35	DISENGAGEMENT WASHER	11170
36	TRANSF. 100VA 05543 240/24V	05543
37	TERMINAL BLDCK 500/02DS 2 PDS	05421
38	CORD GRIP GROMET SB-6R-3	05600
39	STRING 600mm	15440
40	HEX HEAD SCREW M8X25	10110
41	HEX FLANGE HD. SCREW M6X16	10170
42	PAN SERRATION HD. SCREW M4X12	10380
43	TAPTITE SCREW "P" M4X10	10570
44	TAPTITE SCREW "P" BLACK ZNC M3X16	10550
45	BUTTON HD. SCREW W/WASHER M6X16	10022
46	PAN HD. SCREW M3X10	15380
47	HEX FLANGE NUT M6	10150
48	RETAINING RING STW 45	10650
49	E CIRCLIP D1500 0080	10810
50	HEX NUT M4	10890
51	STRING HANDLE	16440
52	CLAMP WASHER	11180
53	SPECIAL WASHER	10620
54	FLAT WASHER I.D.5	11050
55	HEX NUT W/INT TOOTH WASHER M5	10881
56	IDENTITY LABEL	13591
57	WARNING LABEL	13710
58	STRING GUIDE	16420
59	PINION 1225	11760
60	CABLE CLAMP ACC-2.5 (5/16")	14280
61	MICROSWITCH CX HARNESS	14150
62	POWER CORD 15M W2PIN+1 RING	13390
63	LOGO LABEL LEFT	13380
64	CORD LABEL	10690
65	TAPTITE SCREW "P" M3.5X10	10582
66	TAPTITE SCREW "P" M4X6	10623
67	HEX HEAD SCREW M6X55	10960
68	SPRING WASHER M6	11038
69	FLAT WASHER 107D 6.4X20.5X1.6	04886
70	WASHER RUBBER 1/16" x 1" x 3/8	10875
71	HEX NUT M6	15290
72	SEL-LOK SPRING PIN Ø2.5X14	16366
73	SENSOR DISC	01690
74	SENSOR ASSY	04391
75	GEAR COVER	04070
76	HELICAL GEAR WITH SHAFT	05440
77	GLOBE 24V/15W 15x44	01211
78	TRANSMITTER RB PTX-4	01210
79	TRANSMITTER GB PTX-4	05196
80	PTX HOLDER	10672
81	PLASTIC WALL PLUG PACK	13030
82	ALKALINE BATTERY A23 12V	01201
83	KEY RING TRANSMITTER RB PTX-4	01200
84	KEY RING TRANSMITTER GB PTX-4	01230
85	REMOTE WALL SWITCH PACK PTX-4	



****WARRANTY AND EXCLUSION OF LIABILITY****

UNIT NO:

Thank you for purchasing a Wispeco RC1 Remote Control Unit

RC1 unit is covered by the following warranty:-

In the event of any defect in material or workmanship applicable to the Remote Control Unit, Duro Pressing (Pty) Limited will replace any part found to be defective within a period of 18 months from purchase, subject to the following provisions:-

- The defective unit must be returned to the supplier;
- The defect is not caused by misuse, negligence or accident;
- This warranty must be returned by post to P O Box 124116 Alrode 1451, or faxed to (011) 864-4286, duly completed;
- Proof of purchase is provided;
- Transmitter batteries and light bulbs are excluded from this warranty.

Duro Pressings (Pty) Limited accepts no further liability whatsoever in relation to any loss or damage, third party claim or otherwise, whether resulting from latent or patent defects or any other cause.

Please complete the following:-

Date of purchase:

Name of Supplier:

Name of Installer (if any):

Name of Purchaser:

Address Installed:

.....

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Date Installed: