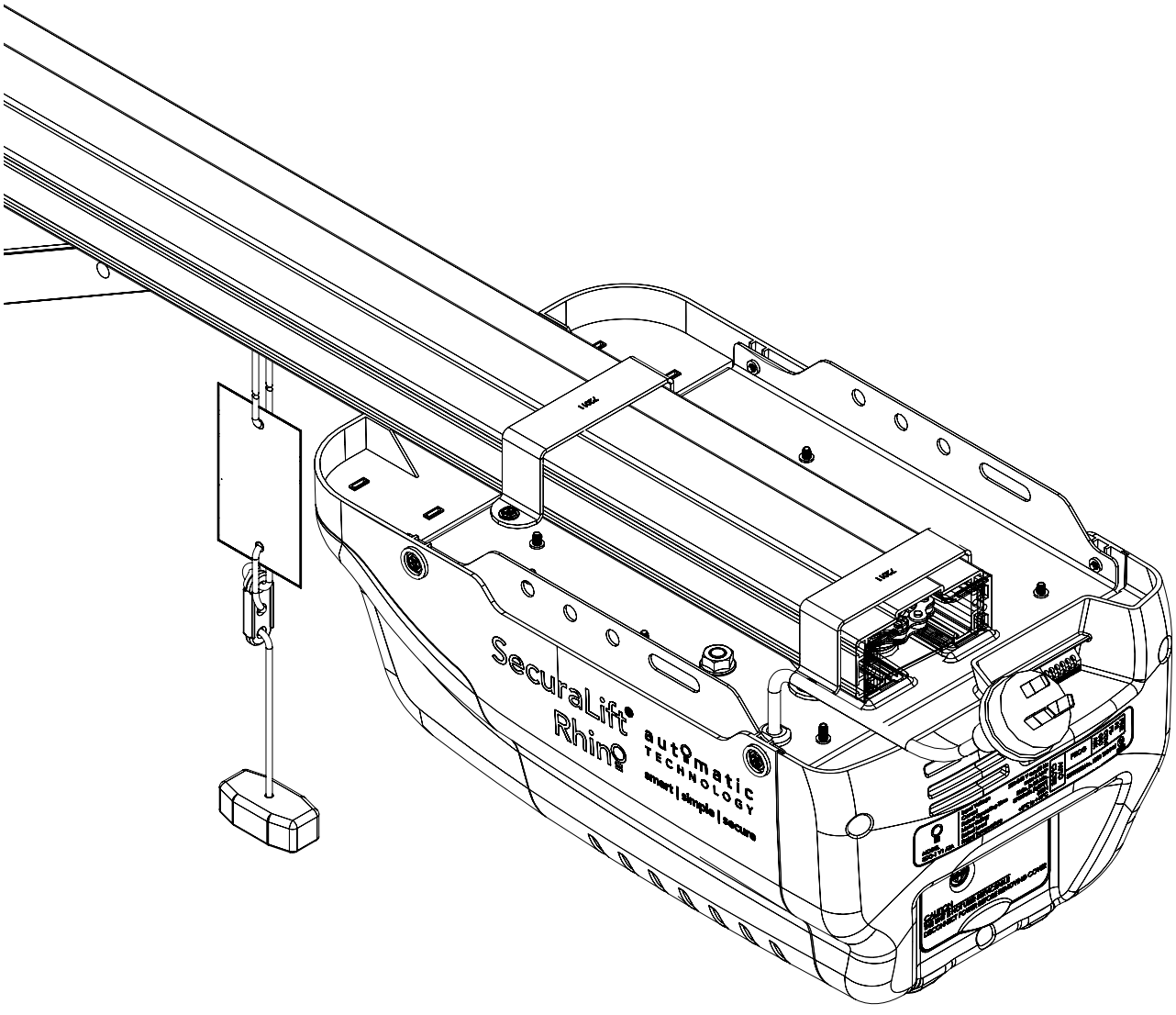
SecuraLift® Rhino

AC Overhead Garage Door Opener



automatic
TECHNOLOGY

smart | simple | secure

WARNING: It is vital for the safety of all persons to follow these instructions. Failure to comply with the installation instructions and safety warnings may result in serious personal injury and/or property damage. Please save these instructions for future reference.

Automatic Technology Australia Pty Ltd to the extent that such may be lawfully excluded hereby expressly disclaims all conditions or warranties, statutory or otherwise which may be implied by laws as conditions or warranties of purchase of an Automatic Technology Australia Pty Ltd Garage Door Opener. Automatic Technology Australia Pty Ltd hereby further expressly excludes all or any liability for any injury, damage, cost, expense or claim whatsoever suffered by any person as a result whether directly or indirectly from failure to install the Automatic Technology Australia Pty Ltd Garage Door Opener in accordance with these installation instructions.

SecuraLift® Rhino

Overhead Garage Door Opener

Important Safety Instructions

WARNING: It is vital for the safety of all persons to follow all instructions. Failure to comply with the following safety rules may result in serious personal injury and/or property damage.

CAUTION: If your garage has no pedestrian entrance door, an emergency access device should be installed. This accessory allows manual operation of the garage door from outside in the event of power failure.

For **additional protection** we **strongly** recommend fitting of Photo Electric (P.E.) Beams. In most countries P.E. Beams are mandatory on all automated garage doors. For a small additional outlay Automatic Technology recommends that P.E. Beams be installed with the SecuraLift® Rhino Overhead Garage Door Opener.

DO NOT operate the SecuraLift® Rhino Overhead Garage Door Opener unless the garage door is in full view and free from objects such as cars and children/people. Make sure that the door has finished moving before entering or leaving the garage.

DO NOT operate the SecuraLift® Rhino Overhead Garage Door Opener when persons are in or near the doorway. Children near an moving garage door must be supervised at all times. **Serious personal injury** and/or property damage can result from failure to follow this 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.

Regularly check that the **safety obstruction force** and is tested and set as per **page 19 of this manual**. Failure to follow this could result in serious personal injury and/or property damage. This must be repeated at regular intervals and adjustments made as required.

DO NOT disengage the SecuraLift® Rhino Overhead Garage Door Opener to manual operation with persons or any other objects, including motor vehicles, within the doorway.

The SecuraLift® Rhino Overhead Garage Door Opener is not intended for use by young children or infirm persons. Children should be supervised to ensure that they do not play with the remote transmitters or the opener.

Keep hands and loose clothing **clear** at all times.

The unit should be installed so that it is protected from the elements. It should not be exposed to water or rain, immersed in water or sprayed directly by a hose or other water carrying device.

The garage door must be **well balanced.** Sticking or binding doors must be repaired by a qualified garage door installer prior to installation of the SecuraLift® Rhino Overhead Garage Door Opener.

Frequently examine the installation, in particular cables, springs and mountings for signs of wear, damage or imbalance. **DO NOT** use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury. **DO NOT** attempt to repair the door yourself as hardware is under extreme tension.

Remove or disengage all garage door locks and mechanisms prior to installation of the opener.

Connect the SecuraLift® Rhino Overhead Garage Door Opener to a properly **earthed** general purpose 240V mains power outlet installed by a qualified electrical contractor.

Disconnect the power cord from mains power before making any repairs or removing covers. Only **experienced** service personnel should remove covers from the SecuraLift® Rhino Overhead Garage Door Opener.

When using auto-close mode, a **P.E. Beam** must be fitted correctly and tested for operation at regular intervals. **Extreme caution** is recommended when using auto-close mode. **All safety rules** must be followed - **see page 24 for full details**.

In order for the SecuraLift® Rhino Overhead Garage Door Opener to **sense** an object obstructing the doorway, some **force** must be exerted. As a result the object, door and/or person may suffer **damage** or **injury**.

If the power supply cord is damaged, it **must** be replaced by an Automatic Technology service agent.

Make sure that the door is fully open before driving in or out of the garage and fully closed before leaving the driveway.

Make sure that remote controls are kept out of reach of children.

Install the wall mounted transmitter in a location where it is out of reach of children and the garage door is visible.

Features

Thank you for purchasing the **SecuraLift® Rhino** Overhead Garage Door Opener. Designed to suit sectional, overhead and one piece tilt up doors, the components and materials used ensure this opener will provide years of smart, simple and secure operation. Listed below are just some of the many world leading features:

Operation
To open or close the door simply press a button on a TrioCode™ handheld transmitter, or optional wall switch for two seconds. During open and close cycles the door can be stopped by pressing the button again. The next actuation will move the reverse the door's direction.

Powerful 1/2H.P. (0.370kW) Suspended Motor
Powerful enough for even the largest and heaviest of doors, the SecuraLift® Rhino Overhead Garage Door Opener has a unique internal motor mounting that reduces vibration, and ultimately operating noise.

Anti-travel electronic brake
The SecuraLift® Rhino Overhead Garage Door Opener features an anti-travel electronic brake mechanism to ensure the opener stops the door exactly at the set limit location. This is of particular importance to large and heavy doors which build up greater momentum when moving.

TrioCode™ Code Hopping Technology
Every time a TrioCode™ transmitter is used a new security code is randomly generated from over 4.29 billion possibilities. This greatly enhances the security of the system and makes "code grabbing" a thing of the past

These transmitters also overcome interference issues by simultaneously sending a signal over three slightly different frequencies. Even if two of the three signals are jammed, the system will still work.

Microswitch Limits
Allows for fine adjustment of set limits via a user-friendly tactile interface.

ISS (Intelligent Safety obstruction System)
While the door is performing a close cycle, should it 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 during the initial installation of the opener. The door will also stop if restricted whilst opening. The Safety Obstruction Force should be checked at least once a month. See page 19 for instructions.

Security Code Store

The SecuraLift® Rhino Overhead Garage Door Opener will store up to 14 different transmitters codes.

Overload Indicator

When the maximum opening and closing force capacity of the SecuraLift® Rhino Overhead Garage Door Opener is exceeded an audible beeper will sound to indicate that an overload has occurred.

LED Courtesy Light

The SecuraLift® Rhino Overhead Garage Door Opener's courtesy light illuminates automatically whenever the door is activated. The light can also be switched on and off without operating the door by pressing the button on any transmitter which has been coded to operate the light. The light will stay on for approximately three minutes then switch off. These LED lights have a super long life and virtually never require replacement.

Vacation Mode

A transmitter can be coded to block out all other transmitters that have been programmed into the opener's memory. Vacation mode is ideal for homes with non-permanent tenancy or when the door is to be left idle for extended periods.

Pet (Pedestrian) Mode

A transmitter can be programmed to open the door partially so that the family pet can enter and exit the garage at any time.

Auto-Close Mode

The opener can be programmed to automatically close after an open cycle. It is compulsory to install P.E. Beams if this mode is selected, otherwise the door may cause personal injury or damage to property.

Photo Electric (P.E.) Beams (optional)

The opener has an input for a Photo Electric (P.E.) Beam to be connected for extra protection and use of the auto-close mode.

Manual Operation

The opener is equipped with a manual disengaging device. If power to the SecuraLift® Rhino Overhead Garage Door Opener is disrupted for any reason, the door can be put into manual mode by pulling down on the string handle on an angle towards the door. This will allow you to manually open or close the door. To re-engage pull the string handle away from the door.

Operating Controls

01 **P.E. Beams Auto-Close Shunt** has to be placed on to enable the Auto-Close feature.

02 **PROG INPUT** is used to connect the PG-3 Universal Handheld Programmer to edit control and receiver functions.

03 **Terminal Block:**

PWR - Used to power devices such as P.E. Beams and external receiver (100 milliamp max).

PE - Used to connect to P.E. Beams.

PE- - A 0 volt connection for P.E. Beams.

COM - A common -ve ground for accessories.

OSC - Used for the connection of a wired switch (momentary contact). This switch can then be used to open, stop or close the door. Install the wall switch in a location where the switch is out of reach of children and the garage door is visible.

AUX - Allows the opener to operate other devices such as external lights, or an alarm system.

04 **OPEN LIMIT LED (Green)** is used during installation to set the open limit position. It also illuminates and flashes as the door opens, and remains on when the open limit position has been reached.

05 **CLOSE LIMIT LED (Red)** is used during installation to set the close limit position. It also illuminates and flashes as the door closes, and remains on when the close limit position has been reached.

06 **MINUS (-) button (Red)** is used during installation to set the close limit position. Pressing and holding this button will move the door in the close direction. Movement stops when the button is released. This button is also used for storing or erasing the transmitter button you wish to use to command the door to open, stop or close.

NOTE: The safety obstruction system is inoperable whenever the MINUS (-) button is used to move the door.

07 **CODE SET LED (Red)** flashes when a transmitter button is stored.

08 **LIMIT SET button (Blue)** is used during installation, together with the PLUS (+) and MINUS (-) buttons, to set the door limit positions. The LIMIT SET button is also used to re-initialise the opener.

09 **SERVICE LED (Yellow)** indicates when the opener requires service or repairs.

10 **OPERATE button (Blue)** is used during installation to test the open, stop and close cycles for the opener. The OPERATE button can also be used in lieu of a transmitter to activate the opener.,

11 **FORCE MARGIN SET button**. The obstruction force margin is set automatically during installation. The margin can be adjusted manually using the FORCE MARGIN SET button (White). Holding the FORCE MARGIN SET button and pressing PLUS (+) or MINUS (-) buttons will increase or decrease the amount of force. The FORCE MARGIN SET button should only be used if environmental factors, such as high winds, affect the door's operation.

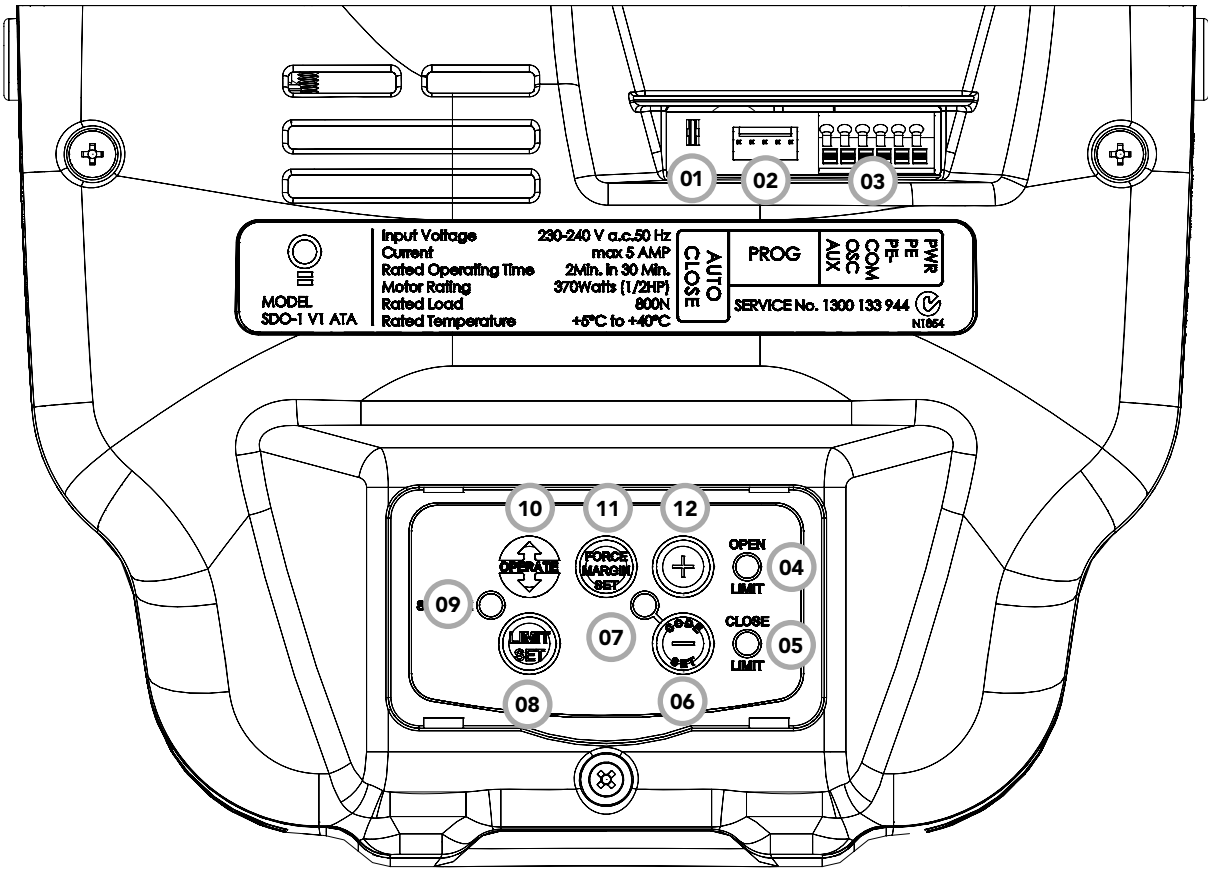
12 **PLUS (+) button (Green)** is used during installation to set the open limit position. Pressing and holding this button will move the door in the open direction. Movement stops when the button is released.

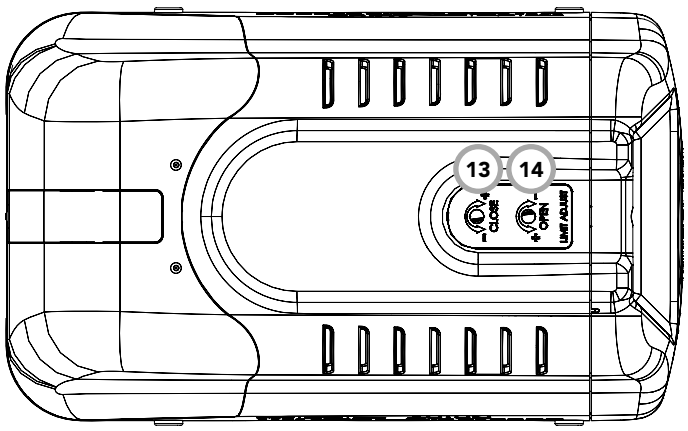
NOTE: The safety obstruction system is inoperable whenever the PLUS (+) button is used to move the door.

13 **Close Limit Adjust Screw** is used during installation to fine tune the close limit position.

14 **Open Limit Adjust Screw** is used during installation to fine tune the open limit position.

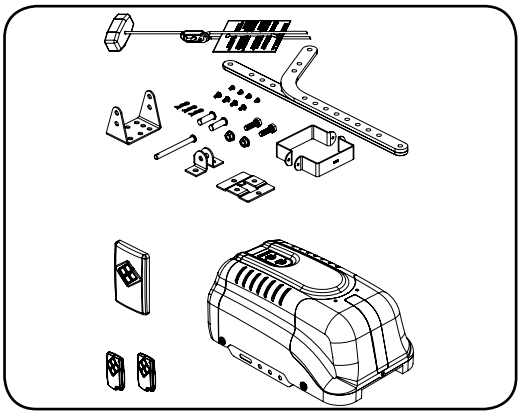
Operating Controls





Package contents

Fig 01

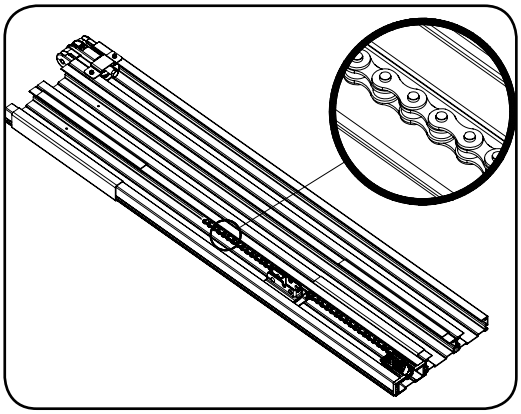


Drive Unit

1 x SecuraLift® Rhino drive unit (Fig. 01)
1 x Transmitter pack (Fig. 01)
(Pack includes two keyring transmitters and batteries)
1 x Wall mount transmitter with battery
2 x Door attachment arms (Fig. 01)
1 x Accessory and hardware pack (Fig. 01)
1 x Manual Disengagement Cord (Fig. 01)
1 x Installation Manual

PLUS

Fig 02

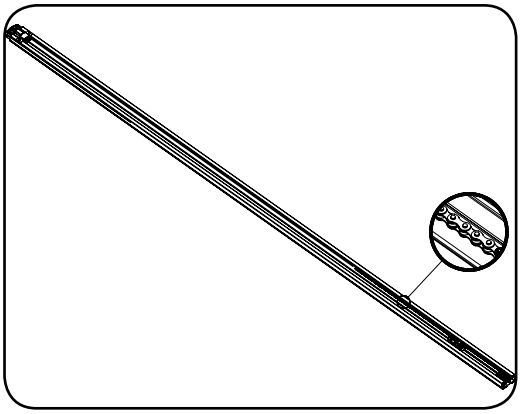


Three Piece Knockdown Track With Pre-Assembled Chain

IMPORTANT NOTE: If a modification to the length of the track is required, the adjustment must be made from the drive unit end only.

OR

Fig 03

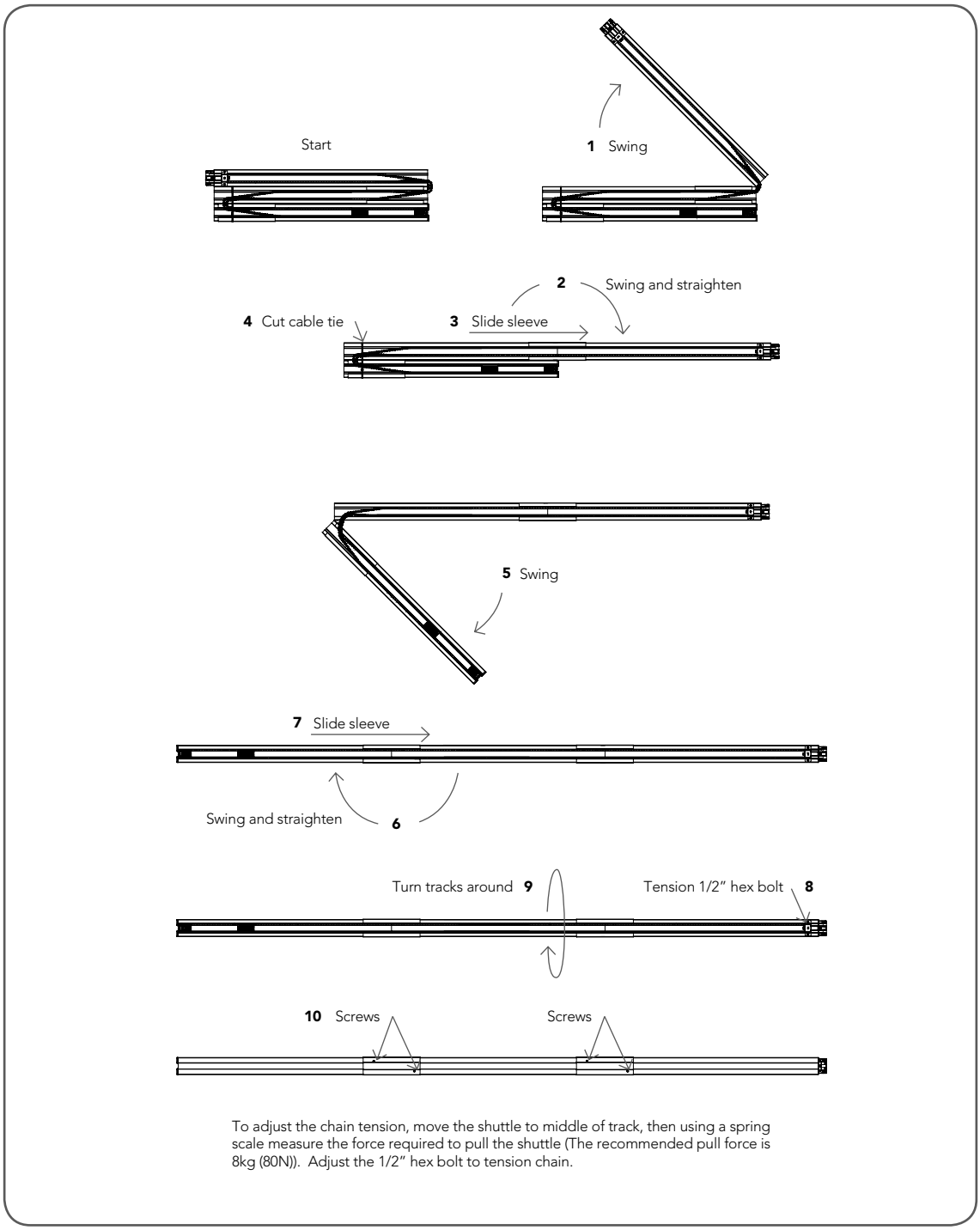


Single Piece Track With Pre-Assembled Chain

NOTE: Chain in one piece rail has been tensioned by the factory. Do not adjust the tension of the chain.

IMPORTANT NOTE: If a modification to the length of the track is required, the adjustment must be made from the drive unit end only.

Knockdown C-Rail Assembly



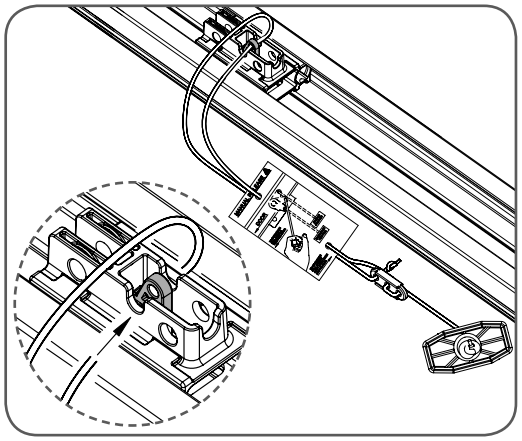
To adjust the chain tension, move the shuttle to middle of track, then using a spring scale measure the force required to pull the shuttle (The recommended pull force is 8kg (80N)). Adjust the 1/2" hex bolt to tension chain.

Fig 04

Step 1 (Knockdown C-Rail units only)
Unpack and assemble the C-Rail as shown (Fig 04).

C-Rail Assembly

Fig 05



IMPORTANT NOTE: Do not power up the drive unit before assembling to the C-Rail.

Step 2 - Centre the Shuttle

a. If not already disengaged, flick the yellow clutch lever up, so that it sits perpendicular to the rail.
b. Thread the loose and of the manual cord through the hole in the yellow clutch lever (Fig. 05).
c. Thread down to red toggle (near the cord's warning tag) and knot through the spare hole.
d. Test if secured properly by pulling back towards sprocket end to engage, and the towards door end to disengage.
e. Once the cord is attached, move the shuttle to the MARKER, which is located in the centre of C-Rail (Fig. 06).

Step 3 - Secure the Drive Unit

a. Locate and insert the drive unit's shaft into the C-Rail's sprocket as shown in (Fig. 07).
b. Fix the two track brackets as shown in (Fig. 08). Fix with the four screws supplied in accessory pack.

Fig 06

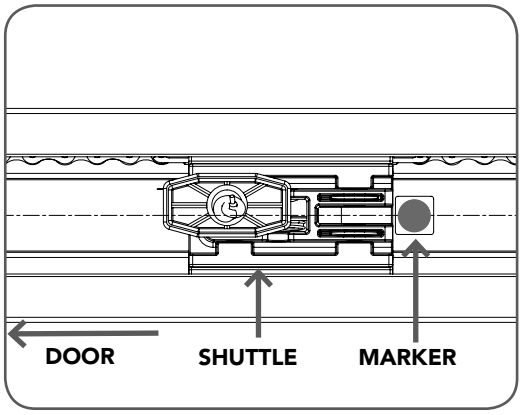
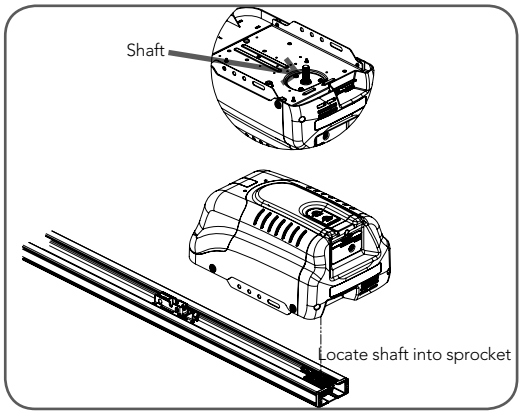


Fig 07



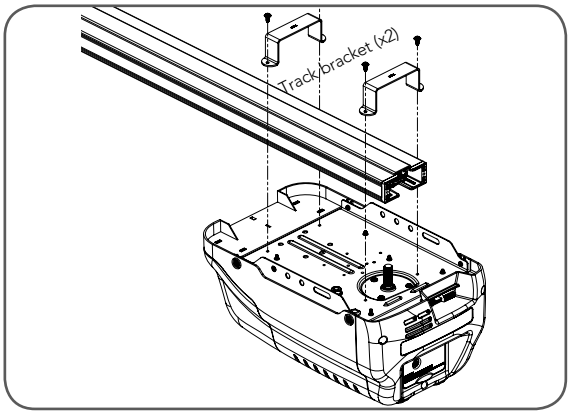


Fig 08

Determine the Door Type

Step 4 - Determine the Door Type
Determine which type of garage door you have as illustrated in **(Fig. 09)** to **(Fig. 11).**

For a sectional (panel) door on tracks **(Fig. 09)** proceed with the installation from **Step 5**.

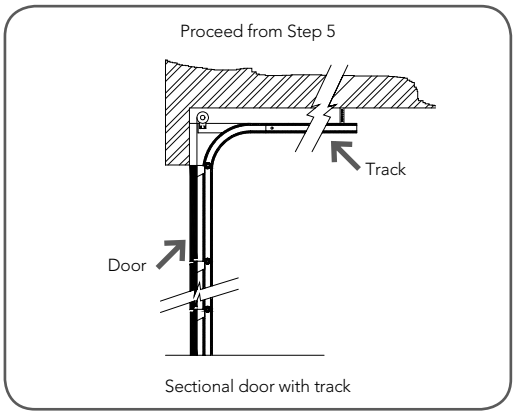


Fig 09

For a one piece door on tracks **(Fig. 10)** proceed with the installation from **Step 5.**

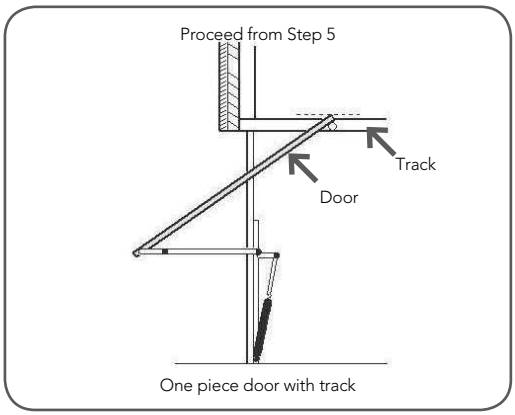


Fig 10

For a one piece door without tracks (on springs) **(Fig. 11)** proceed with the installation from **Step 9.**

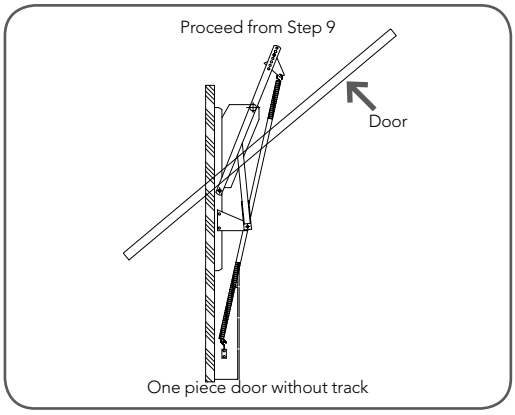


Fig 11

Mounting on a Track Type Door

Fig 12

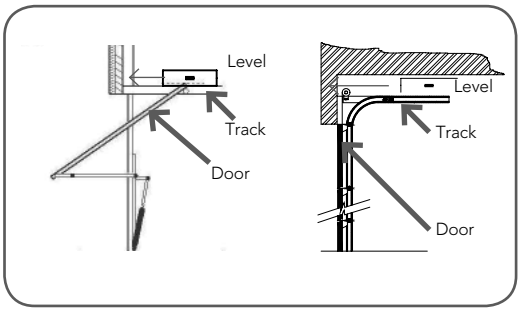


Fig 13

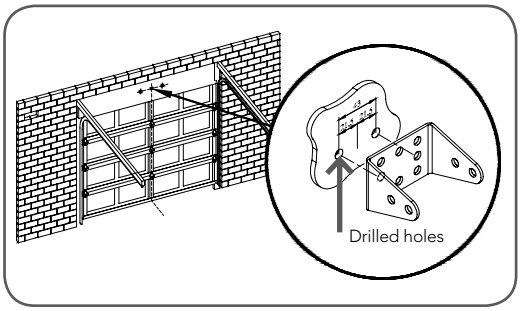


Fig 14

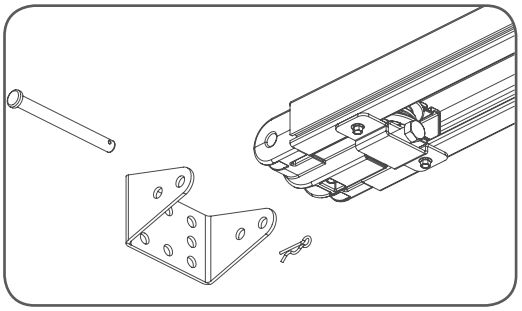
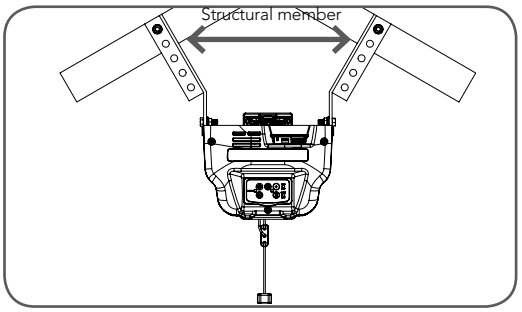


Fig 15



⚠ **WARNING:** Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform. The opener must be securely fastened to structural supports otherwise serious personal injury and/or property damage may ensue.

Step 5 - Determine Bracket Position

a. Open the door and find the highest point of travel of the top door panel.
b. Using a level, transfer this height to the wall above the door (Fig. 12) and mark a line 60mm above it.
c. Determine the centre point on the wall above and on top of the door. Then draw two (2) lines extending 21.5mm from each side of the centre point. (Fig. 13)

Step 6 - Mounting the Wall Bracket

a. Centre the bracket over the intersection of these two lines. Mark centres for at least two holes (Fig. 13).
   - Ensure a solid mounting point is behind these holes.
b. Drill holes into the wall with an appropriate sized bit.
c. Secure bracket to the wall using if:

CONCRETE/BRICK -	8mm or 5/6 loxins or dynabolts
IF TIMBER -	wood screw #20 or equivalent min. 50mm long)..

Step 7 - Attach the C-Rail to the Wall Bracket

a. Attach the C-Rail assembly to the wall bracket with the 90mm long clevis pin and secure with the supplied snap pin (Fig. 14).
b. Leave the drive unit in its packing box for protection during installation.

Step 8 - Securing the Drive unit to the Ceiling

a. Raise the drive unit from the packing box and support it in the horizontal position with a ladder.
b. Open the garage door. Rest the opener on the open door and use a scrap piece of wood to bring it to horizontal level.
c. Line up the track perpendicular to the wall.
d. Secure the perforated angle (not supplied) to the ceiling above where drive unit's mounting holes will be once fully installed. A representative mounting is shown (Fig. 15).
e. Connect the drive unit to the ceiling mounted perforated angle with M8x20mm screws and nuts. Strips should not extend more than 18mm below centre of drive unit mounting holes (Fig. 15).

For an alternative mounting option, go to Step 12.1

Mounting on a Non-Track Type Door

⚠ **WARNING:** Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform. The opener must be securely fastened to structural supports otherwise serious personal injury and/or property damage may ensue.

Step 9 - Determine the Door's Centre

a. Find the centre of the door and mark this location both above the door and on top of the door.
b. Draw two lines 21.5mm either side of this (Fig. 16).

Step 10 - Prepositioning the Opener

a. Raise the door to open position.
b. Rest the opener on the top edge of the door with end of the C-Rail against the wall (Fig. 17).
c. Support the drive unit level with the lowest point of the open door (Fig. 17).

NOTE: Do not slide C-Rail along the face of the door.

Step 11 - Mounting the C-Rail

a. Close the door slowly. The C-Rail will be elevated by the top edge of the door as it moves.
b. Stop the door when it is at its highest point of travel. Allow 25mm additional height for clearance between the door and the track (Fig. 18).
c. Support the C-Rail in this position and close the door.
d. The height determined in Step 11(b) will be the height at which to mount the wall bracket.
e. Centre the bracket along the line determined in Step 9.
f. Using the bracket as a template, mark a minimum of two holes and drill with appropriate size bit. For a more secure fitting, the wall bracket can be anchored using more than two holes.
g. Secure bracket to the wall using if:
   CONCRETE/BRICK - 8mm (5/6) loxins or dynabolts
   IF TIMBER - wood screw #20 or equiv. (min. 50mm long).
h. Attach the wall bracket to the C-Rail with the 90mm long clevis pin (Fig. 19) and secure by a snap pin.

Step 12 - Securing the Drive Unit to the Ceiling

a. Secure the perforated angle (not supplied) to the ceiling above where drive unit's mounting holes will be. See (Fig. 15) for a representative mounting.
b. Connect the drive unit to the ceiling mounted perforated angle with M8x20mm screws and nuts. Strips should not extend more than 18mm below centre of drive unit mounting holes (Fig. 15).

For an alternative mounting option, go to Step 12.1

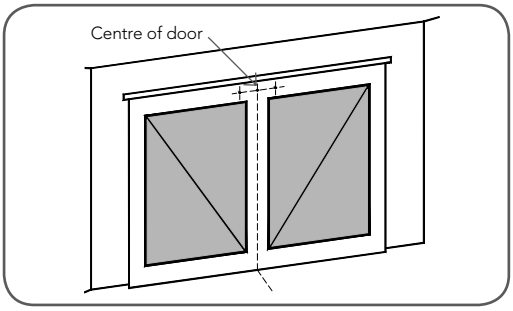


Fig 16

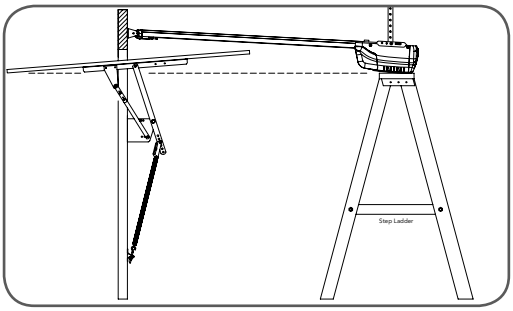


Fig 17

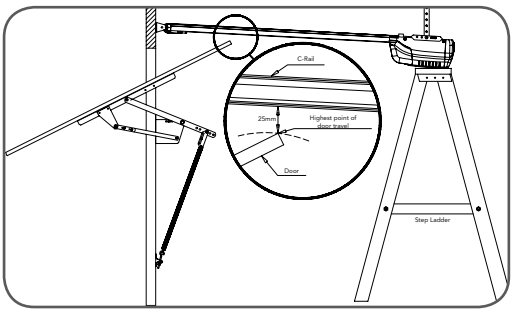


Fig 18

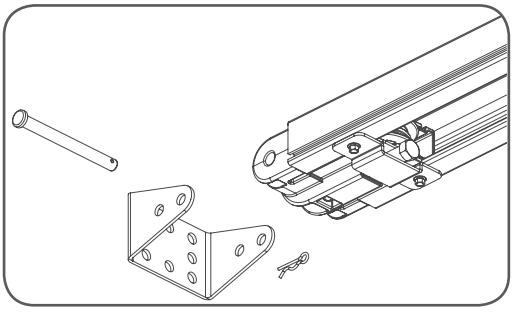
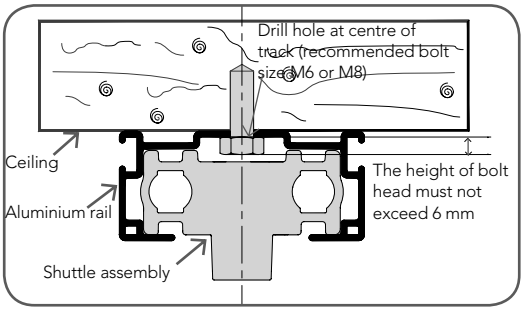


Fig 19

Mounting Door Bracket and Arms

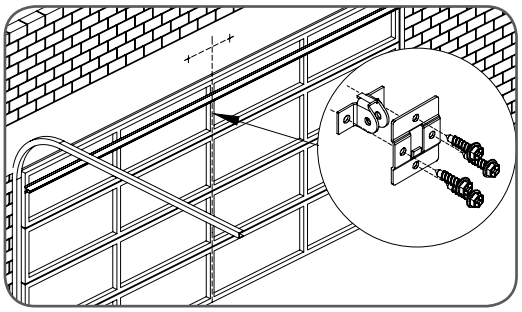
Fig 19a



Step 12.1 - Alternative Mounting Option

The opener can be fastened to the roof by driving a bolt through the C-Rail into a structural timber support. The bolt head's height must not exceed 6mm (Fig. 19a).

Fig 20



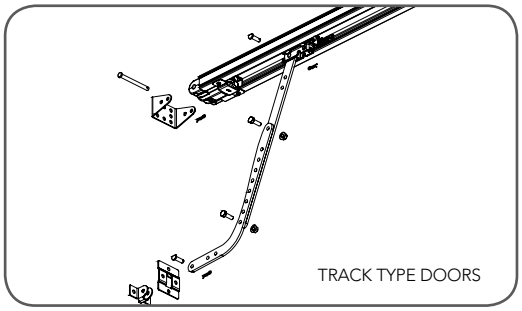
Step 13 - Mounting Door Bracket

The door bracket comes in two parts. The bottom plate with two mounting holes is used on its own for one piece doors. For sectional doors, the top plate is placed over the bottom plate and is fixed with four (4) screws (Fig. 20).

a. Mount the door bracket, or bracket assembly, on the door's centre line one-third down the top panel (Fig. 20) using M6 or equivalent screws (not supplied),
b. STEEL DOORS ONLY: Bracket can be welded in place.

NOTE: If in doubt about the door's strength, reinforcement may be added to the door's frame where necessary. Door damage may occur if the bracket is installed on a panel with insufficient strength. The opener's warranty does not cover damage caused to the door and/or door panels.

Fig 21



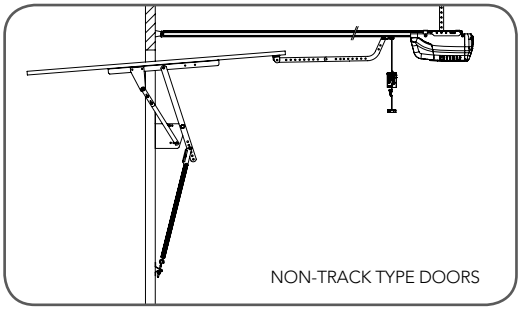
Step 14 - Attaching the Arms

FOR TRACK TYPE DOORS:

a. Assemble the bent and straight arms with bolts and nuts supplied in the accessory pack (Fig. 21). Always use both bent and straight arms.
b. Connect the assembled arm to the bracket and the disengaged trolley with clevis and snap pins. (Fig. 21).

WARNING: Connecting the bent arm other way around may damage the door.

Fig 22



FOR NON-TRACK TYPE DOORS

a. Assemble the bent and straight arms as shown in (Fig. 22) with bolts and nuts supplied in the accessory pack. Always use both the bent and straight arms.
b. Connect the assembled arm to the bracket and the disengaged trolley with clevis and snap pins.
c. If installing on a door with a bad wave action, lengthening the arm will reduce this effect.

Setting Travel Limits

NOTE: The OPERATE button will not function until the open and close limit positions are set.

NOTE: If P.E. Beams is to be used it must be installed before setting the travel limits.

Step 15.1 - Remove Controls Cover
Remove the controls cover to access the control panel (Fig. 23). Replace it when setup is completed.

Step 15.2 - Connect Power to the Drive unit
Plug the power cord into a mains point and switch power on. The red CLOSE LIMIT LED will be flashing (Fig. 24).

NOTE: The door and shuttle must be engaged into the chain index for the door to move.

WARNING: The safety obstruction detection system is inoperable while MINUS (-) and PLUS (+) drive buttons are being used and travel limits are not set.

Step 15.3 - Set the Close Limit Position
a. Press and hold the MINUS (-) button (Fig. 24) until the door reaches the desired close limit position.
b. Using a small screwdriver turn the red close limit adjust screw anticlockwise (Fig. 25) until the red CLOSE LIMIT LED illuminates (Fig. 24).

Step 15.4 - Fine Tuning the Close Limit Position
a. Hold the PLUS (+) button to open the door approximately half a metre.
b. Hold the MINUS (-) button to close the door.
c. If an adjustment is necessary turn the close limit adjust screw as required, and repeat Steps 15.4(a) & (b).
d. Otherwise, proceed to Step 15.5.

Turning the close limit screw towards (+) allows the door to drive more in the close direction. Turning the close limit screw toward (-) allows the door to drive less in the close direction. (Fig. 25)

Step 15.5 - Storing the Close Limit
Press the LIMIT SET button (Fig. 24) to confirm the close LIMIT SET position of the door. The green OPEN LIMIT LED should now be flashing.

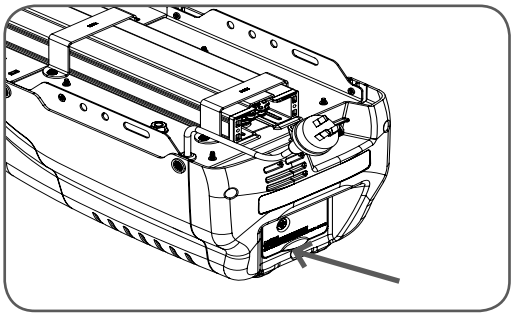


Fig 23

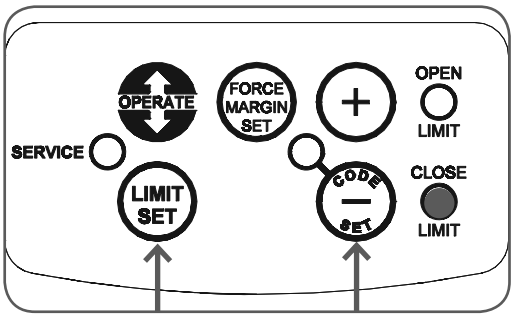


Fig 24

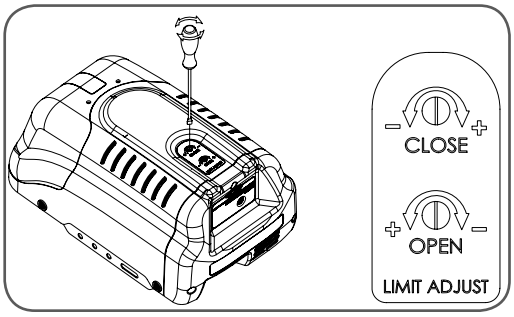


Fig 25

Setting Travel Limits

Fig 26

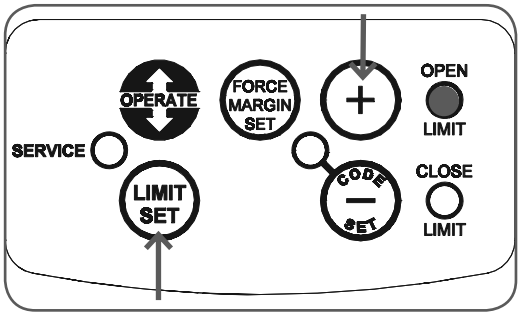
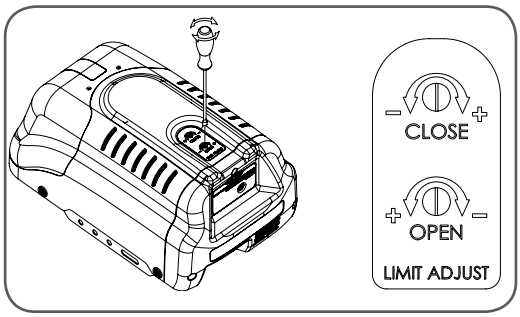


Fig 27



Step 15.6 - Set the Open Limit Position

a. Press and hold the PLUS (+) button (Fig. 26) until the door reaches the desired open limit position.
b. With a small screwdriver turn the green open limit adjust screw (Fig. 27) clockwise until the green OPEN LIMIT LED is illuminates.

Step 15.7 - Fine Tuning the Open Limit Position

a. Hold the MINUS (-) button to close the door approximately half a metre.
b. Hold the PLUS (+) button to fully open the door.
c. Check that the open limit position is correct and that the OPEN LIMIT LED is illuminated. If an adjustment is necessary turn the open limit adjust screw (Fig. 27) as required, and then repeat Steps 15.7(a) and (b).

Turning the open limit screw towards (+) allows the door to drive more in the open direction, while turning towards (-) allows the door to drive less in the open direction.

d. Otherwise, read the **WARNING** below and proceed to Step 15.8.

⚠ **IMPORTANT WARNING:** The door will automatically close, open and close again **once Step 15.8 is performed.** Ensure that no persons or objects are in the door's path.

Step 15.8 - Storing the Open Limits & Auto-Calculating the Safety Obstruction Force

a. Press the LIMIT SET button (Fig. 26) to store the open limit position.
b. The door will now automatically close to its limit position then fully open to calculate the safety obstruction forces. **Be aware of the above warning.**

The safety obstruction force is calculated automatically and set in the memory of the opener. This applies to both the open and close force.

The opener can now be operated via the OPERATE button.

⚠ **IMPORTANT NOTE:** Whenever the limit adjustment screws are altered the safety obstruction force has to be re-initialised as travel distances may have altered. To reset the limits and force margin hold the LIMIT SET button for approximately six seconds until the red CLOSE LIMIT LED starts to flash, then follow steps 15.3 onwards.

Safety Obstruction Force Test

⚠ Please take care when testing the Safety Obstruction Force. Excessive force may cause SERIOUS PERSONAL INJURY and/or PROPERTY DAMAGE can result from failure to follow this warning.

Step 16.1 - Testing Close Cycle

a. Press the OPERATE button to open the door (Fig. 28).
b. Place a piece of timber approximately 50mm high on the floor directly under the door (Fig. 29).
c. Press the OPERATE button to close door. The door should strike the object and start to re-open.

Step 16.2 - Testing Open Cycle

a. Press the OPERATE button to close the door (Fig. 28).
b. Press again to open the door. When the door reaches the half open point, grab the bottom rail of the door firmly and the door should stop.
c. If the door does not reverse readily when closing, or stop when opening, the force may be excessive and need adjusting, refer to STEP 16.4.

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

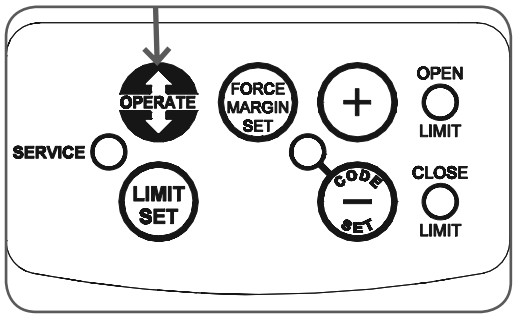


Fig 28

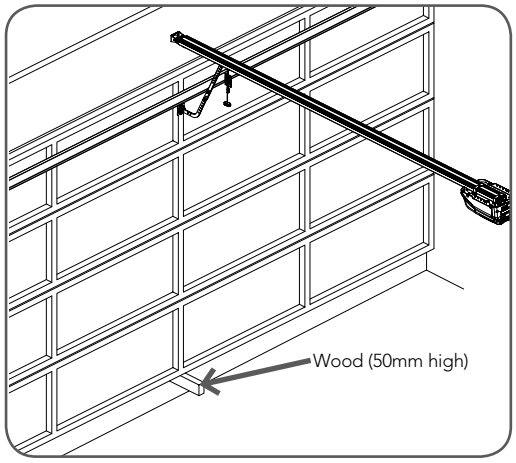


Fig 29

Adjusting Safety Obstruction Force

Fig 30

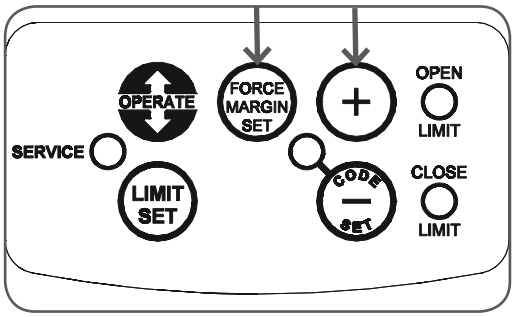


Fig 31

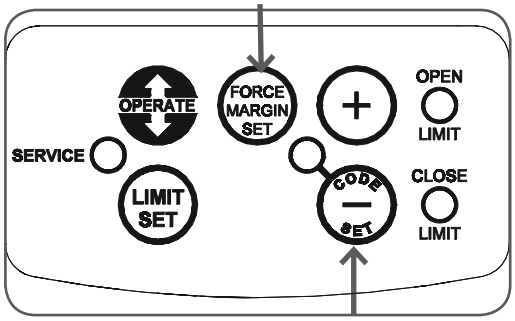
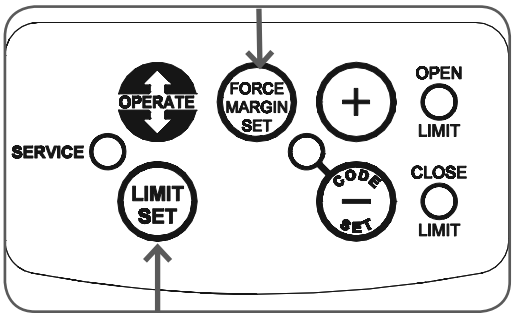


Fig 32



Adjusting Safety Obstruction Force

The Safety Obstruction Force is calculated automatically and set in the memory on the opener during setup. It is usually not necessary to adjust the Safety Obstruction Force. The only time the force may need to be increased is due to environmental conditions, for example, windy or dusty areas, and areas with extreme temperature changes.

Step 16.3 - To Increase Force Pressure

a. Press and hold the FORCE MARGIN SET button (Fig. 30).
b. While holding down the FORCE MARGIN SET button, press the PLUS (+) button. Each press increases the force margin.
c. The OPEN LIMIT LED will flash each time the PLUS (+) button is pressed to indicate an increase in force.
    - If the OPEN LIMIT LED flashes continuously when the PLUS (+) button is being pressed, this indicates that the maximum force pressure setting has been reached.
d. Test the force again as per Steps 16.1 and 16.2 on page 17.

Step 16.4 - To Decrease Force Pressure

a. Press and hold the FORCE MARGIN SET button (Fig. 31).
b. While holding down the FORCE MARGIN SET button, press the MINUS (-) button. Each press decreases the force margin (Fig. 31).
c. The CLOSE LIMIT LED will flash each time the MINUS (-) button is pressed to indicate a decrease in force.
    - If the CLOSE LIMIT LED flashes continuously when the MINUS (-) button is being pressed, this indicates that the minimum force pressure setting has been reached.
d. Test the force again as per Steps 16.1 and 16.2 on page 17.

Step 16.5 - To Recall Factory Set Force

a. While holding down the FORCE MARGIN SET button, press the LIMIT SET button (Fig. 32) for two (2) seconds.
b. Release both buttons. The default setting should now be recalled.

Coding Transmitters

Step 17.1 - Storing the Transmitter Code

The opener can only operate from transmitters that have been programmed into its receiver. The receiver needs to learn the codes of any transmitter that will be used with the operator. Up to fourteen (14) codes can be stored in the receiver's memory.

a. Ensure that the battery is inserted into the transmitter.
b. Press the CODE SET button and release. The CODE SET LED will illuminate to indicate the opener is in Code Learn mode. If a valid code is not stored within 15 seconds the opener will exit Code Learn (Fig. 33).
c. Press the transmitter button (one of four) that you want to control the door. The CODE SET LED will begin to flash.
d. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out.
e. The transmitter is now coded to operate the door - press the button to test.

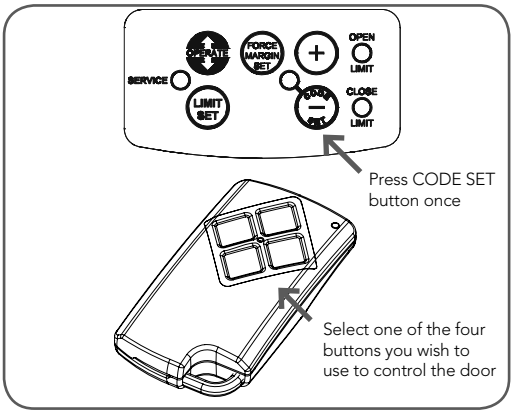


Fig 33

Step 17.2 - Setting the Transmitter to Operate the Courtesy Light

Although the courtesy light comes on with each operation of the opener, it may also be controlled by a transmitter without operating the door.

a. Press the CODE SET button twice. The CODE SET LED will illuminate and the courtesy light will turn on to indicate that the light code learning is active (Fig. 34).
b. Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
c. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out.
d. The transmitter is now coded to operate the light - press the button to test.

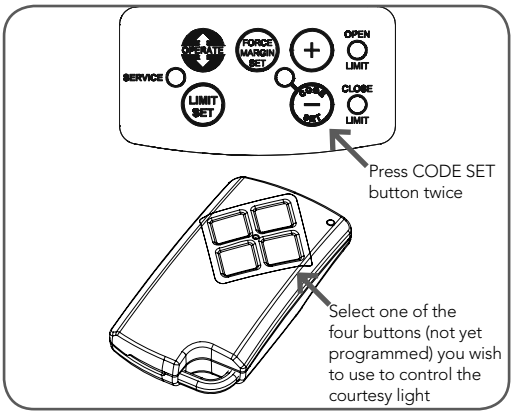
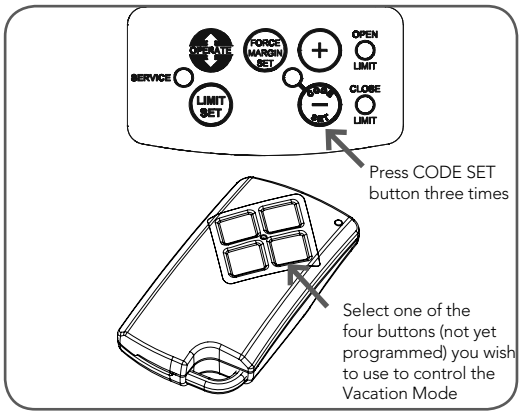


Fig 33

Coding Transmitters

Fig 35

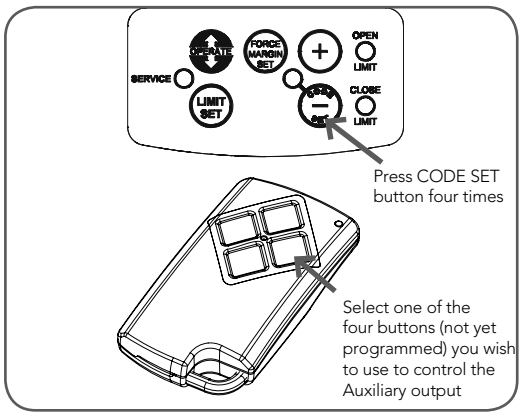


Step 17.3 - Setting the Transmitter to Operate Vacation Mode

The opener can be programmed into a "Vacation Mode" where the opener will not respond to any transmitter except one pre-programmed unit.

a. Press CODE SET button three times. The CODE SET LED will illuminate and the courtesy light will flash slowly (once every two seconds) to indicate Vacation learning mode is active. (Fig. 35)
b. Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
c. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out, and the courtesy light will also switch off. This indicates the code has been stored (Fig. 35).
d. To activate Vacation Mode, close the garage door and press the coded button transmitter for 5 seconds. The CODE SET LED will illuminate to indicate that the opener is in Vacation Mode.
e. To exit Vacation Mode press the transmitter button momentarily until the CODE SET LED turns off.

Fig 36



Step 17.4 - Setting the Transmitter to Operate the Auxiliary Output

It is possible to operate other devices (e.g. alarm systems) using one of the spare buttons of a multi-channel transmitter coded into the Auxiliary Output feature.

a. Press CODE SET button four times. The CODE SET LED will illuminate and the courtesy light will flash quickly (twice per second) to indicate that learning mode for the Auxiliary Output is active.
b. Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
c. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out, and the courtesy light will also switch off. This indicates the code has been stored (Fig. 36).

Coding Transmitters

Step 17.5 - Setting the Transmitter to Operate Pet (Pedestrian) Mode

The opener can be programmed into a "Pet Mode" where the door opens partially to allow pets to enter/exit the garage:

a. Press the CODE SET button five times, the CODE SET LED will illuminate and the courtesy light will flash quickly (twice per second) to indicate learning mode for Pet Mode is active.
b. Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
c. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out, and the courtesy light will also switch off. This indicates the code has been stored. This indicates the code has been stored (Fig. 37).

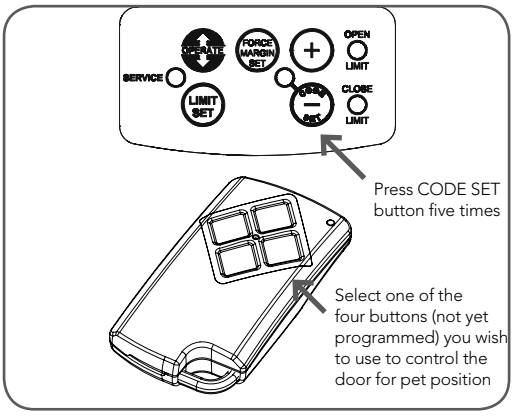


Fig 37

Step 17.6 - To Erase Programmed Codes

If the CODE SET button is pressed and held for 6 seconds the CODE SET LED will blink rapidly for one second to indicate that all programmed codes have been erased. (Fig. 38)

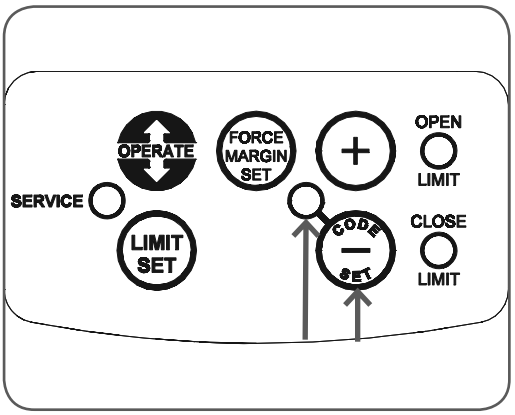


Fig 38

Step 17.7 - Installation of the Wall Mounted Transmitter

a. Mount the transmitter in a convenient location, yet out of reach of children and at least 1.5m off the ground (Fig. 39).
b. Make sure the door is visible from this location.
c. To set the transmitter codes refer to Step 17.1 on page 19.

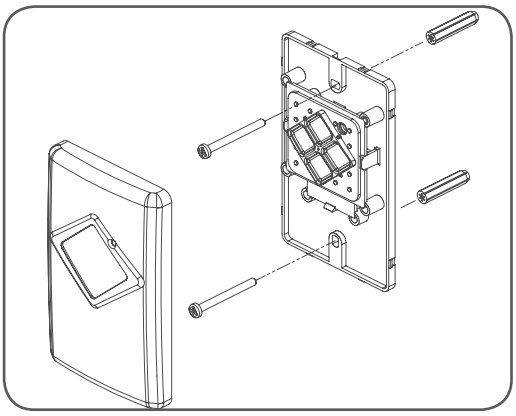
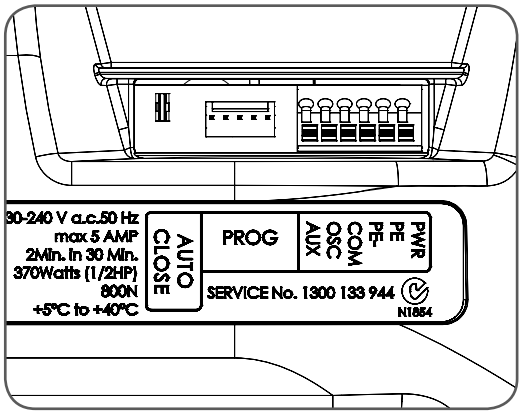


Fig 39

Accessories

Fig 40



Terminal Block

A variety of wired accessory items can be connected to the terminal block such as P.E. Beams, wall switch, door status indicator and more.

The terminal block also features and auxiliary output for controlling other devices from your transmitter. These can include: an alarm system, external lighting, or an automatic gate.

Terminal connections are as follows (Fig. 40):

1. PWR (+ve)
2. PE (P.E. Beams input)
3. PE- (0V for P.E. Beams)
4. COM (Common -ve ground for accessories)
5. OSC (Open/Stop/Close trigger)
6. AUX (Auxiliary output trigger)

Remote Aerial

Some sites cause poor radio reception. Particularly problematic areas are those where there is a large amount of metal, like an all steel garage, or an underground car park with large masses of steel reinforced concrete. These issues, and others, can create radio reception issues.

Poor radio reception will be noticed by a reduction in the operating range of the transmitters.

You can evaluate whether fitting an external aerial will benefit as follows:

- test the maximum operating range of the transmitter with the garage door closed; then
- test the maximum operating range of the transmitter with the garage door open.

If the range improves when the door is open you can install a remote aerial kit to improve reception.

Mount the aerial to a suitable location on the outside of the garage. Similar to a television aerial, the better the mounting position the better the reception will be. Where possible, mount the aerial as high as possible, away from masses of metal and in a line of sight position to where you normally use your transmitter.

Accessories

P.E. Beams

For **ADDITIONAL PROTECTION** Automatic Technology **STRONGLY** recommend the fitting of P.E. Beams. In most countries P.E. Beams are mandatory on all garage doors fitted with automatic openers. For a small additional outlay, Automatic Technology recommends that P.E. Beams be installed with the automatic opener for additional safety and peace of mind.

Locate the P.E. Beams in a strategic location within the doorway. It is recommended that it be positioned:

- 150mm above the floor level
- as close as possible to the door opening
- inside the garage

Make sure to align the beams correctly. Follow the manual supplied with the P.E. Beams. Connect the wires to the terminal block as per (Fig. 41).

WARNING: When using Auto-Close mode 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.

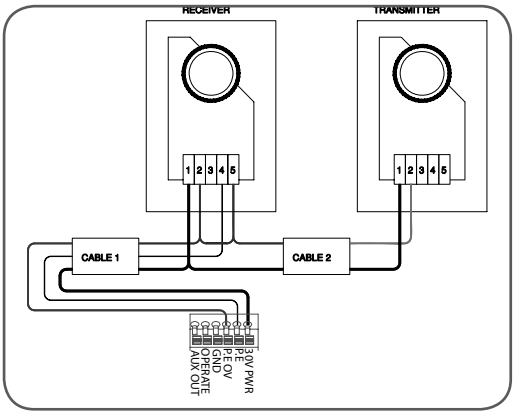


Fig 41

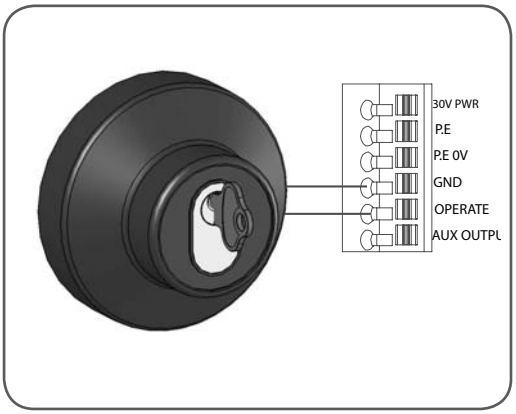


Fig 42

Electric Key Switch

An electric key switch can be connected to the opener as an alternative to using the transmitter. The electric key switch (Fig. 42) also acts as an external release mechanism which is ideal if your garage does not have a pedestrian entrance

To connect the switch to the opener's terminal block refer to (Fig. 42).

The switch behaves just like a transmitter: each turn of the key will cycle through an open/stop/close function.

NOTE: Please refer to the Electric Key Switch unit's instruction sheet for installation procedure.

Troubleshooting Guide

Symptom	Possible cause	Remedy
The opener does not work from the transmitter	Garage door in poor condition e.g. springs may be broken	Check the door's operation - see monthly maintenance (Page 30)
	The opener does not have power	Plug a device e.g. a lamp, into the power point and check that it is OK
	The battery in the transmitter is flat	Replace the battery
	The opener has been put into "Vacation Mode"	Turn off "Vacation Mode" (Page 22)
	The transmitter code has not been set	See transmitter & code setting procedure (Page 21)
The motor runs but the door does not move	The opener is disengaged	Re-engage the opener
The transmitter range varies or is restricted	**Variations are normal depending on conditions e.g. temperature or external interference**	
	The battery is flat or faulty	Replace the battery
	Position of the transmitter in the motor vehicle	Change the position
	Position of the aerial will not pick up the radio signal	Install an external aerial kit – see Accessories (Page 24)
The light does not work	Light module is not inserted/ connected properly	Check for correct connection otherwise contact your dealer for support
The door reverses for no apparent reason	This may occur occasionally from weather changes	The opener automatically adjusts to compensate for changes, to adjust the force see (Page 20)
The door opens but will not close	Auto-Close or P.E. Beams not operating correctly	Check the installation (Page 25) otherwise contact your dealer for support

If You Need a Service Call

If the opener needs service please call the dealer who installed the garage door opener (for product assistance contact 1300 133 944, within Australia).

BEFORE CALLING please have the following information ready to assist in a quick solution:

1. Has anything happened since the opener last operated OK, e.g. a storm, damage to the door etc.?
2. Is it easy to manually open and close the door?
3. What model is the opener?
4. Who installed the opener?
5. When was it installed?

Fault Indicator

When a fault is detected the SERVICE LED will start to flash and a number of beeps will sound to indicate that there is a fault. The fault will be active each time an attempt is made to operate the door.

Pressing the LIMIT SET button will reset the opener. If the fault continues to be tripped contact an Approved Dealer for assistance.

Default Settings & Specifications

Factory default settings

	Default	Step	Minimum	Maximum
Maximum motor run time	40 seconds	-	-	-
Courtesy light time	4 minutes (approx.)	-	-	-
Obstruction force margin	2	1	0	24
Auto-Close time	30 seconds	-	-	-

Technical specifications

Power supply	230V - 240Va.c. 50Hz
Transformer rating	24Vd.c.
Standby power	2.0 Watts
Motor power	370 Watts (1/2 HP)
Motor type	Alternating Current
Shuttle travel distance in the C-Rail	* 2.7m approx. (Standard)
Maximum shuttle travel distance in the C-Rail	* 3.750m (with C-Rail extension)
Maximum door opening: Width: Height: Weight:	5500mm (16.5m^2) 3000mm 100kg
Minimum headroom	30mm
Short term peak force	800N (80kg)
Lift force	600N (60kg)
Nominal force	150N (15kg)
Receiver type	UHF Multi-frequency FM Receiver
Receiver code storage capacity	14 X 4 button Transmitter Codes
Transmitter frequency	UHF Multi-frequency FM Transmitter
Coding type	Code hopping
Number of code combinations	Over 4.29 billion random codes
Code generation	Non-linear encryption algorithm
Transmitter battery	CR2032 (3 Volts)
Courtesy light	LED (Light Emitting Diodes)
Controller fuse	5A slow blow

*The actual travel of the door depends on configuration of the connecting arms.

Note: Intermittent operations may occur in areas which experience very strong winds. The strong wind puts extra pressure on the door and tracks which may in turn intermittently trigger the safety obstruction detection system.

Parameters

DOOR STATUS INDICATORS

Door opener state	OPEN LED (green)	CLOSE LED (red)	Beeper
Open	On		
Close		On	
Opening	Flashing		
Closing		Flashing	
Door travel stopped	Flashing	Flashing	
Door obstructed when opening	Flashing		
Door obstructed when closing		Flashing	Beeps while door is moving
Opener overloaded	Alternating flashes	Alternating flashes	
Door in open position with Auto-Close mode selected	One second flashes		
Mains power interrupted	Rapid flashes		

Parameters

BUTTON FUNCTIONS

Button	Function
OPERATE	Opens/stops/closes the door
CODE SET	Codes a transmitter button for operate function
FORCE MARGIN SET & PLUS (+)	Increases the obstruction force margin setting
FORCE MARGIN SET & MINUS (-)	Decreases the obstruction force margin setting
FORCE MARGIN SET (then) LIMIT SET	Reloads the factory set default obstruction force margin setting
LIMIT SET (for 6 seconds)	Clears the door limits set positions. Limits then need to be reset
LIMIT SET (the power on) and hold until all LEDs are off	Deletes control parameters excluding transmitter storage memory
CODE SET press and hold until DOOR CODE LED starts flashing	Deletes all transmitter storage memory
LIMIT SET & CODE SET (the power on) and hold until all LEDs are off	Deletes all control parameters and transmitter storage memory

Maintenance

Maintenance
The SERVICE LED will indicate the requirement for a service and/or adjustment. To reset the SERVICE LED when the door is serviced, reprogram the Door Travel Limits and the Door Travel Force – on completion of this programming the SERVICE LED will go out.

Whilst your opener does not require any periodic maintenance, the door that it is fitted to does. Your garage door is a large, heavy, moving object and should be tested regularly to ensure it is in good condition. A poorly maintained door could cause fatal or serious injuries or serious damage to property.

To ensure a long and trouble free life for your opener the following is recommended:

Monthly
- Disengage the opener and manually operate the door: The door must be smooth to operate by hand. An operating force on the bottom rail should not exceed 150N (15kg) force.
- Each month check that the opener reverses when the door contacts a 50mm high object placed on the floor (AS3350). Refer to Testing the Safety System (Step 16).

NOTE: If the door does not operate smoothly, call your installer.

Yearly
Automatic Technology suggests you contact your installer to perform an annual door service.

CAUTION: Frequently examine door, particularly cables, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury. (AS3350)

Adjustments should only be carried out by experienced persons, as this function can be dangerous if not performed under strict safety procedures.

WARNING! Failure to maintain your garage door may void the warranty on your garage door opener.

Warranty Expired Indicator
When the opener reaches the number of cycles covered by warranty the courtesy light will flash 10 times after each operation to indicate that the warranty has expired. This flashing will continue for twenty (20) operations unless the user acknowledges the warranty expiry indicator and stops the light from flashing. To stop the courtesy light flashing press the LIMIT SET button while the light is flashing after an operation.

Maintenance

Service Record
Record any maintenance in the following table to assist in any warranty service.

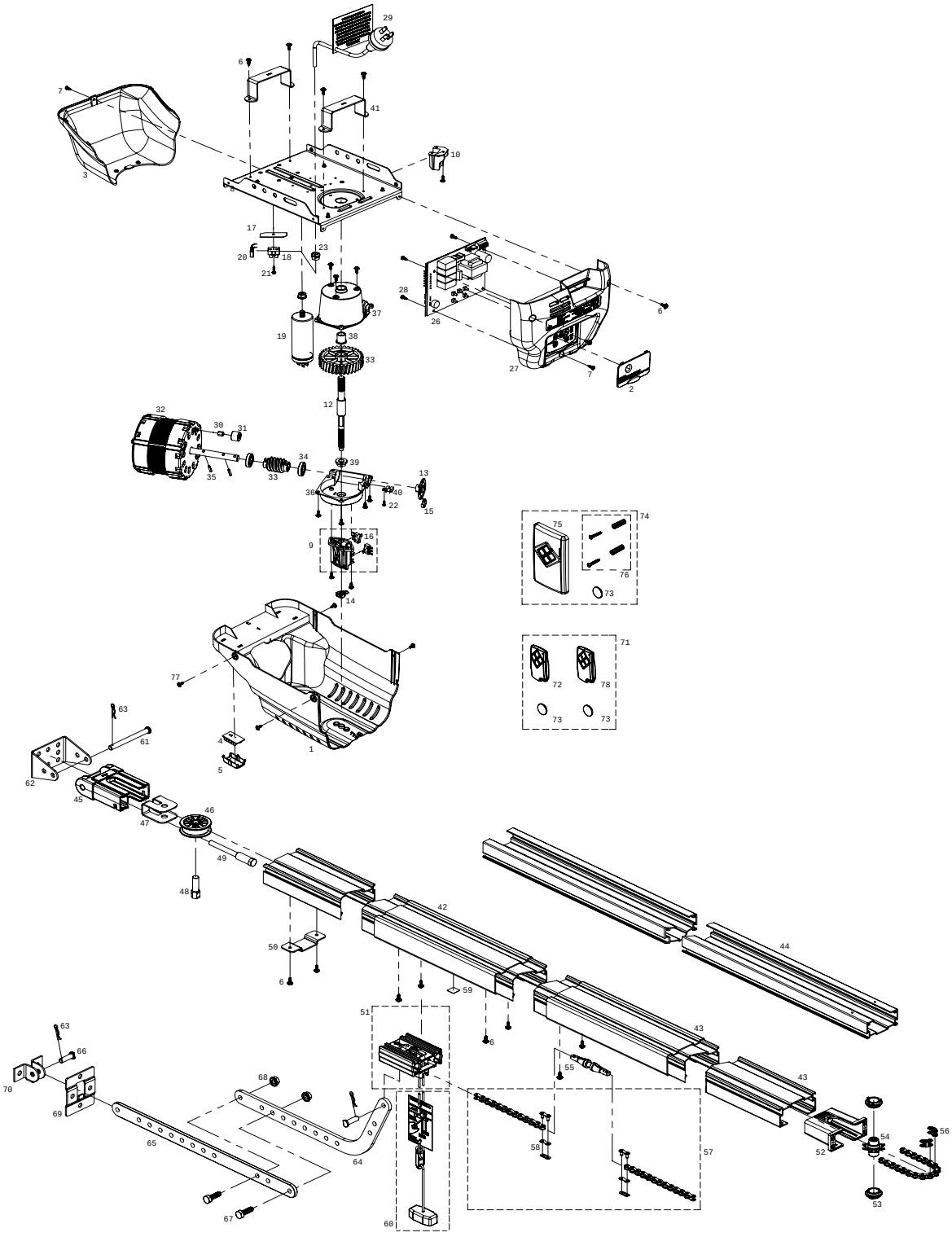
Date	Service by	Signature	Invoice No.	Amount

Spare Parts List

Item	Description	Order Code#
1	MAIN COVER ASSEMBLY AT1	71113
2	CONTROLS LID AT1 SP	72173
3	DIFFUSER ASSEMBLY SV1	71456
4	LED LIGHT MODULE	71215
5	LED MODULE DIFFUSER	72313
6	TAPTITE SCREW 'S' PH THD M4x10	10504
7	TAPTITE 'P' M4x10	10570
8	BASE SV1	72001
9	LIMITS CONTROL ASSEMBLY SV1	71650
10	RUBBER STOP GUIDE SV1	72165
11	HELICAL GEAR 34209	04941
12	DRIVE SHAFT 16_170 XFP	72065
13	CHOPPER WHEEL SV1	72168
14	SPLIT LIMIT NUT M10x0.75	72438
15	CHOPPER CLIP	04960
16	MINATURE MICROSWITCH AV	09280
17	TERMINAL BLOCK SHIELD	14055
18	TERMINAL BLOCK 500/02DS 2POS	05421
19	CAPACITOR MOTOR 20.0UF	14403
20	CAPACITOR POLYFILM 0.01UF	07575
21	PAN HEAD SCREW 'P' M3x14	10361
22	TAPTIE SCREW 'S' M3x8	10531
23	CORD GROMMET SBR5-2	05605
24	HARNESS ASSEMBLY SV1	71825
25	LED HARNESS SV1	71821
26	CONTROL BOARD ASSY ACB01-B	71291
27	BOARD HOUSING SUB-ASSY AT1	71455
28	TAPTITE SCREW 'P' M4x8	10580
29	POWER CORD ASSEMBLY SV1	05666
30	HEX SPACER 8A Fx10 M5	11192
31	RUBBER STOP D19x15	72166
32	AC MOTOR 370W FM62509	14428
33	WORM 2520x50-2S	72212
34	BALL BEARING R8ZZ	03916
35	SELFLOCK PIN SPRING ACP M4x20	02590
36	GEARBOX LID SV1	72202
37	GEARBOX BASE SV1	72201
38	BUSH ID 12x18	04262
39	BUSH 10x10	04290

Item	Description	Order Code
40	SENSOR ASSY SV1	01689
41	TRACK BRACKET VP2	04590
42	EXTRUSION 1050 END VP2	72252
43	CRAIL 1050 VP1ASSY	72251
44	EXTRUSION 3150 VP2	72250
45	TENSION SUPPORT ASSY	04594
46	CHAIN IDLER	02963
47	TENSION BRACKET	04590
48	HEX SHAFT 10-40	03985
49	SHOULDER SCREW M8x65	10602
50	CLAMPING BRACKET VP1	04591
51	SHUTTLE VP2 ASSY	00274
52	PULLEY SUPPORT	04597
53	FLANGE 16-10	04313
54	SPROCKET 8T SPL	72210
55	CHAIN INDEX V3	02941
56	CHAIN CLIP IM	72169
57	CHAIN 1/2"x1/8" (487 LINKS) 2CL	03005
58	CHAIN JOINT LINK	02950
59	LOCATION LABEL	72854
60	STRING HANDLE ASSEMBLY VP2	71421
61	PIN	05790
62	WALL BRACKET	02521
63	PIN SNAP SSP 8 ZNU 31080	10720
64	BENT ARM	02800
65	STRAIGHT ARM	02790
66	CLEVIS PIN 0829	02551
67	HEX HEAD SCREW M8x25	10110
68	HEX SERRATION FLANGE NUT M8	10148
69	DOOR BRACKET	02511
70	DOOR BRACKET LOCATOR	02515
71	TB-4 4 BUTTON TRANSMITTER OGPP	70242
72	TRANSMITTER TB-4 OG	71312
73	LITHIUM BATTERY 3V CR2032	13021
74	WALL TRANSMITTER WTB-4 WG PAC	70232
75	WALL TRANSMITTER WTB-4 WG	71304
76	PLASTIC WALL PLUG PACK	01479
77	TAPTITE SCREW 'S' M4x10	10497
78	TRANSMITTER TB-4 PP	71313

Spare Parts List



Warranty and Exclusion of Liability

1. This warranty is an addition to any non-excludable conditions or warranties that are implied into this contract by relevant statute, including the Trade Practices Act 1974 (Cth).
2. Subject to all of the matters set out below, Automatic Technology Australia Pty Ltd ("ATA") warrants:
   (a) swing and sliding gate opener drive units for twelve (12) months or 2500 cycles, whichever occurs first;
   (b) roll-up and overhead door opener drive units for twenty four (24) months or 5000 cycles, whichever occurs first; and
   (c) all components and accessories for twelve (12) months, from the date of purchase (specified in the sales docket receipt) as free of any defects in material and workmanship.
3. This warranty applies only where the purchaser:
   (a) immediately notifies ATA or the retailer of the alleged defect;
   (b) returns the product to the retailer; and
   (c) presents the relevant sales docket and this warranty document to the retailer to confirm the date of purchase.
4. Except for this warranty, ATA gives no warranties of any kind whatsoever (whether express or implied), in relation to the product, and all warranties of whatsoever kind relating to the product are, to the extent permissible by statute, hereby excluded.
5. To the extent permissible by statute, ATA disclaims any liability of whatsoever nature in respect of any claim or demand for loss or damage which arises out of:
   (a) accidental damage to or normal wear and tear to the product or to the product's components;
   (b) any cost relating to damage resulting from wear and tear;
   (c) blown fuses, loss or damage caused by electrical surges, power surges or power spikes;
   (d) loss or damage due to theft, fire, flood, rain, water, lightning, storms or any other acts of God;
   (e) maximum continuous operating time exceeding one (1) minute in ten (10);
   (f) maximum operating force exceeding *20kg (200N) when moving the door or gate manually to the open or closed position;
   (g) door surface area and/or weight exceeding 16.5m^2 and 100kg respectively;
   (h) residential gate weight exceeding 400kg;
   (i) door or gate not in safe and correct working order and condition;
   (j) evidence of unauthorised repairs;
   (k) any cost relating to damage caused by misuse, negligence or failure to maintain the equipment in a proper working order as per clauses (d) through (i);
   (l) installation, adjustment or use which is not in accordance with the instructions set out in installation instruction manual
   (m) attempted or complete modification or repairs to the product carried out by a person who is not authorised or has not been trained by ATA to carry out such modification or repairs;
   (n) faulty or unsuitable wiring of structure to which the product is fixed or connected;
   (o) radio (including citizen band transmission) or any electrical interference;
   (p) damage caused by insects;
   (q) loss or damage to any property whatsoever or any loss or expense whatsoever resulting or arising there from or any consequential loss;
   (r) any cost or expense arising due to manufacturer recall of any product;
   (s) any cost or expense due to negligence of the approved service provider;
   (t) installation of a residential garage door or gate opener in a commercial or industrial situation or a non-single residential dwelling.
6. ATA's liability under this warranty is limited, at ATA's absolute option, to replacing or repairing the product which ATA, in its unfettered opinion, considers to be defective either in material and/or workmanship or to credit the dealer with the price at which the product was purchased by the dealer.
7. This warranty does not extend to cover labour for installation.
8. This warranty is limited to Return-to-Base (RTB) repair and does not cover labour for on-site attendance.
9. This warranty is void if the Product is not returned to the manufacturer in original or suitably secure packaging.
10. This warranty is only applicable for repairs to the product carried out within Australia.
11. This warranty does not cover consumable items including globes, batteries and fuses.
12. This warranty is not transferable.
13. Where the Product is retailed by any person other than ATA, except for the warranty set out above, such person has no authority from ATA to give any warranty or guarantee on ATA's behalf in addition to the warranty set out above.

NOTES:

1. One (1) cycle = one (1) open and one (1) close action of the door or gate.
2. This warranty is to be read in conjunction with the owner's copy of the installation instruction manual.
3 *The door should be balanced in such a way that the user manually is able to open or close the door without using force not greater than 150N (15kg) although a greater force may be required for the start of the movement.

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