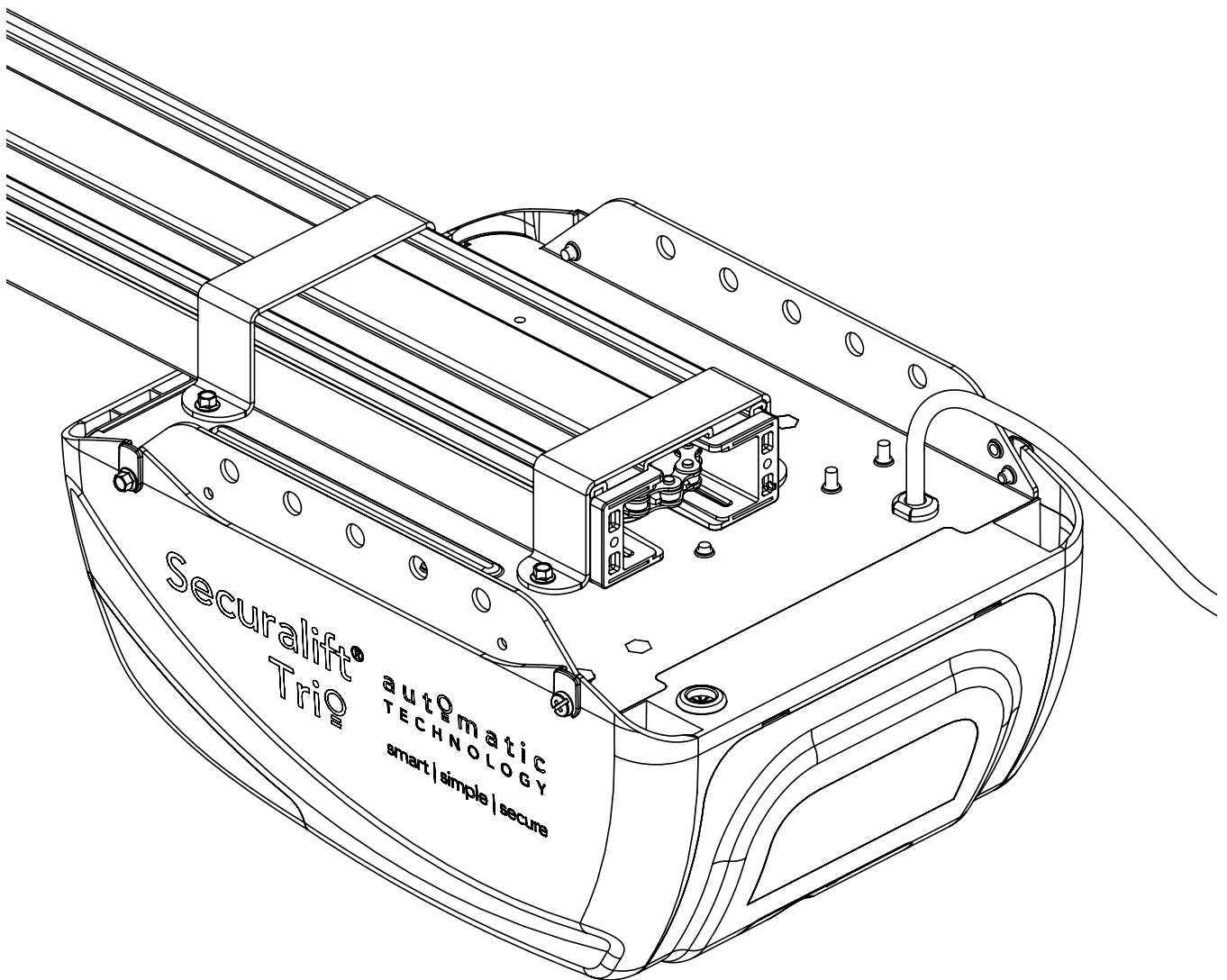




SecuraLift® Trio

DC 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® Trio

Overhead Garage Door Opener

Important Safety Instructions	04		
Features	06		
Operating Controls	08		
Kit Contents	10		
Installation	12		
C-Rail Assembly	12		
Determine Door Type	14		
Mounting on a Track Type Door	15		
Mounting on a Non-Track Type Door	16		
Mounting Door Bracket & Arms	17		
Setting Travel Limits	18		
Testing Safety Obstruction Force	19		
Coding Transmitters	20		
Door	20		
Courtesy Light	20		
Vacation Mode	21		
Auxiliary Output	21		
Pet (Pedestrian) Mode	22		
Erasing Transmitter Codes	22		
Mounting Wall Transmitter	22		
Battery Back Up Installation	23	Troubleshooting Guide	26
Accessories	24	Default Settings & Specifications	27
P.E. Beams	24	Parameters	28
Electric Key Switch	24	Maintenance	30
Remote Aerial	25	Parts List	32
Terminal Block	25	Warranty	34





Important Safety Instructions

WARNING: It is vital for the safety of all persons to follow these 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 a 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® Trio Overhead Garage Door Opener.

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

The SecuraLift® Trio 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.





Important Safety Instructions

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® Trio 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® Trio 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® Trio 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® Trio 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® Trio** 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.

TrioCode™ Code Hopping Technology

Every time a TrioCode™ transmitter is used a new security code is 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 third will communicate with the opener.

ALPS (Automatic Limits Positioning System)

ALPS does away with manual adjustment of the door's limits position using mechanical parts, such as cams and microswitches.

ISS (Intelligent Safety obstruction System)

While the opener is performing a close cycle, should the door 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 automatic door 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® Trio 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® Trio Overhead Garage Door Opener is exceeded an audible beeper will sound to indicate that an overload has occurred.





LED Courtesy Light

The SecuraLift® Trio 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.

Battery Back Up (optional)

The SecuraLift® Trio Overhead Garage Door Opener can be fitted with a battery back up kit, allowing continued operation in the event of a power outage

NOTE: If the garage door is the only entrance to the garage and a Battery Back Up kit is not fitted to the SecuraLift® Trio Overhead Garage Door Opener a keyed cable release should be fitted to the exterior of the garage.

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 long periods of time.

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 unique manual disengaging device. If power to the SecuraLift® Trio 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.





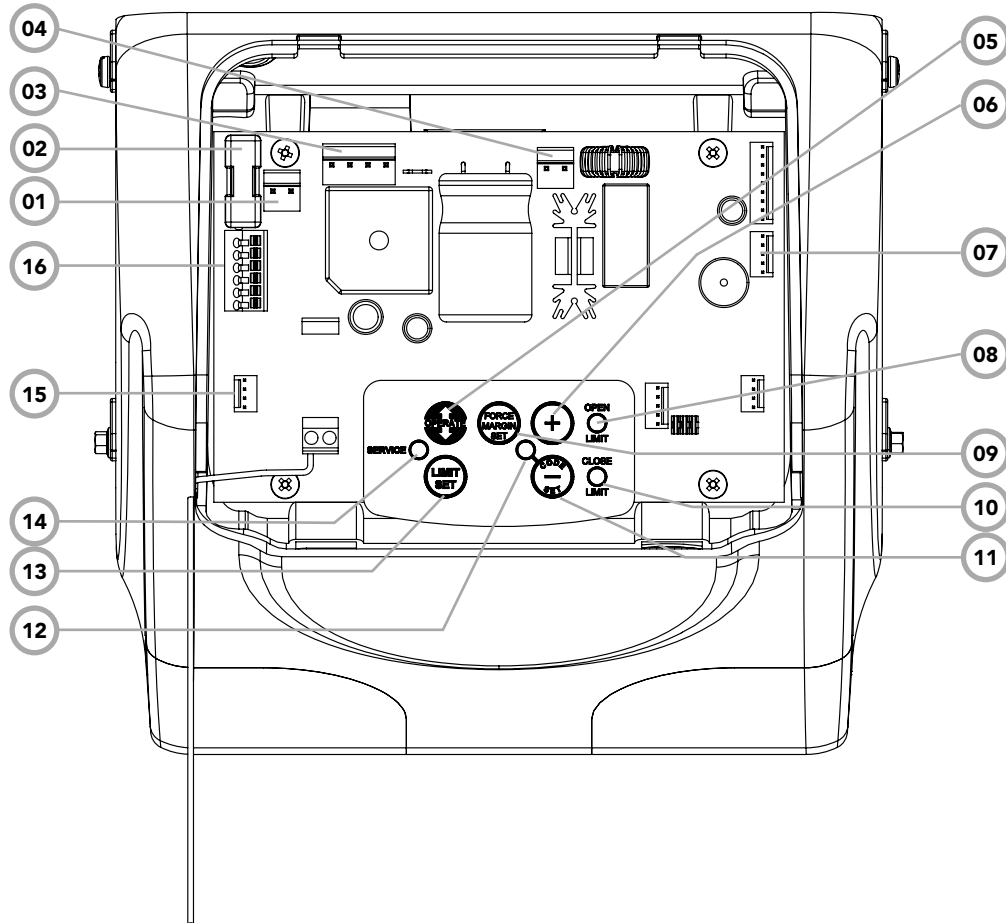
Operating Controls

- 01 **Terminal** is used to connect Va.c. power to the control board.
- 02 **10 Amp fuse** to protect the electronic circuit board.
- 03 **SBY-3 Battery Charger connection** to attach a Battery Back Up kit.
- 04 **24Vd.c. Motor Connection.**
- 05 **OPERATE button (Blue)** is used during installation to test the open, stop and close cycles for the opener. The opener has to be initialised by the LIMIT SET button to make the OPERATE button operable. The OPERATE button also can be used in lieu of a transmitter to activate the opener.
- 06 **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.
- 07 **PROG INPUT** is used to connect the PG-3 Universal Handheld Programmer to edit control and receiver functions.
- 08 **OPEN LIMIT LED (Green)** is used during installation to help 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.
- 09 **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.
- 10 **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.
- 11 **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.
- 12 **CODE SET LED (Red)** flashes when a transmitter button is stored.
- 13 **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.
- 14 **SERVICE LED (Yellow)** indicates when the opener requires service or repairs.
- 15 **Courtesy Light LED Module** connects the 24V LED lighting modules.
- 16 **Terminal Block:**
 - 30V PWR -** Used to power devices such as P.E. Beams and external receiver (100 milliamp max).
 - P.E -** Input to connect to P.E. Beams.
 - P.E 0V -** 0 volt connection for P.E. Beams.
 - GND -** Common -ve ground for accessories
 - OPERATE -** 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 OUT -** This function allows the opener to operate other devices such as external lights, or an alarm system.





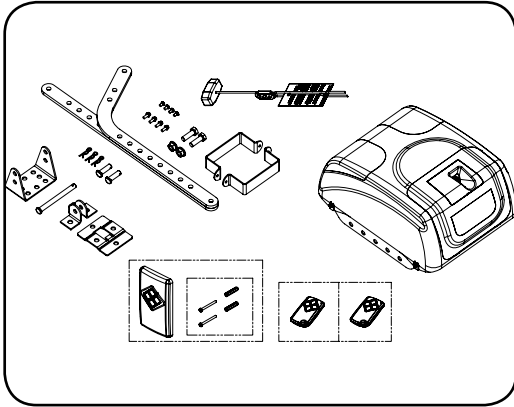
Operating Controls





Kit Contents

fig 01

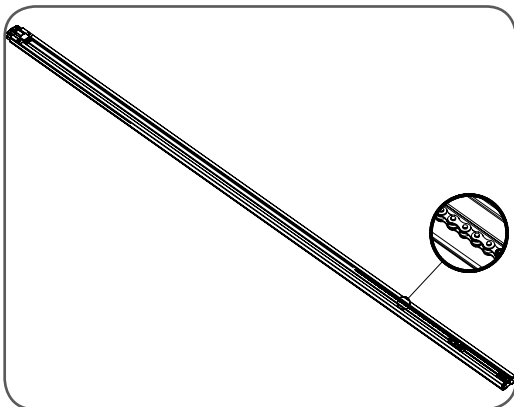


Drive Unit

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

PLUS

fig 02



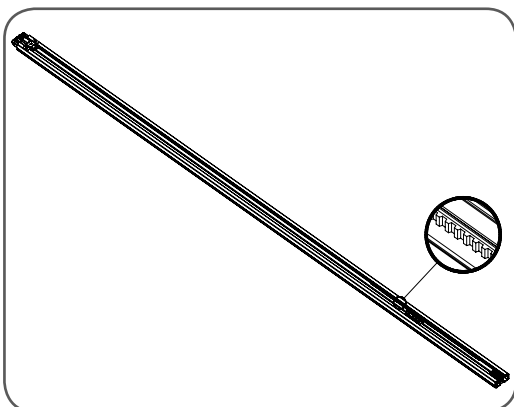
Single Piece Track With Pre-Assembled Chain

NOTE: The 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.

OR

fig 03



Single Piece Track With Pre-Assembled Timing Belt

Note: The timing belt in one piece rail has been tensioned by the factory. Do not adjust the tension of the timing belt.

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

OR





Kit Contents

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.

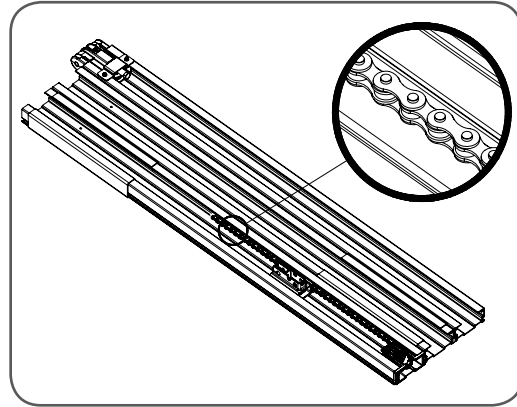


fig 04

OR

Three Piece Knockdown Track With Pre-Assembled Timing Belt

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

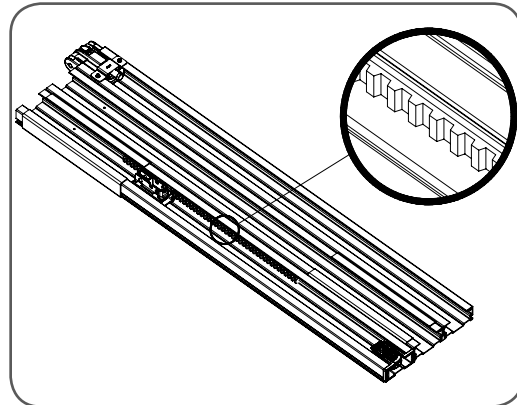


fig 05





Knockdown C-Rail Assembly

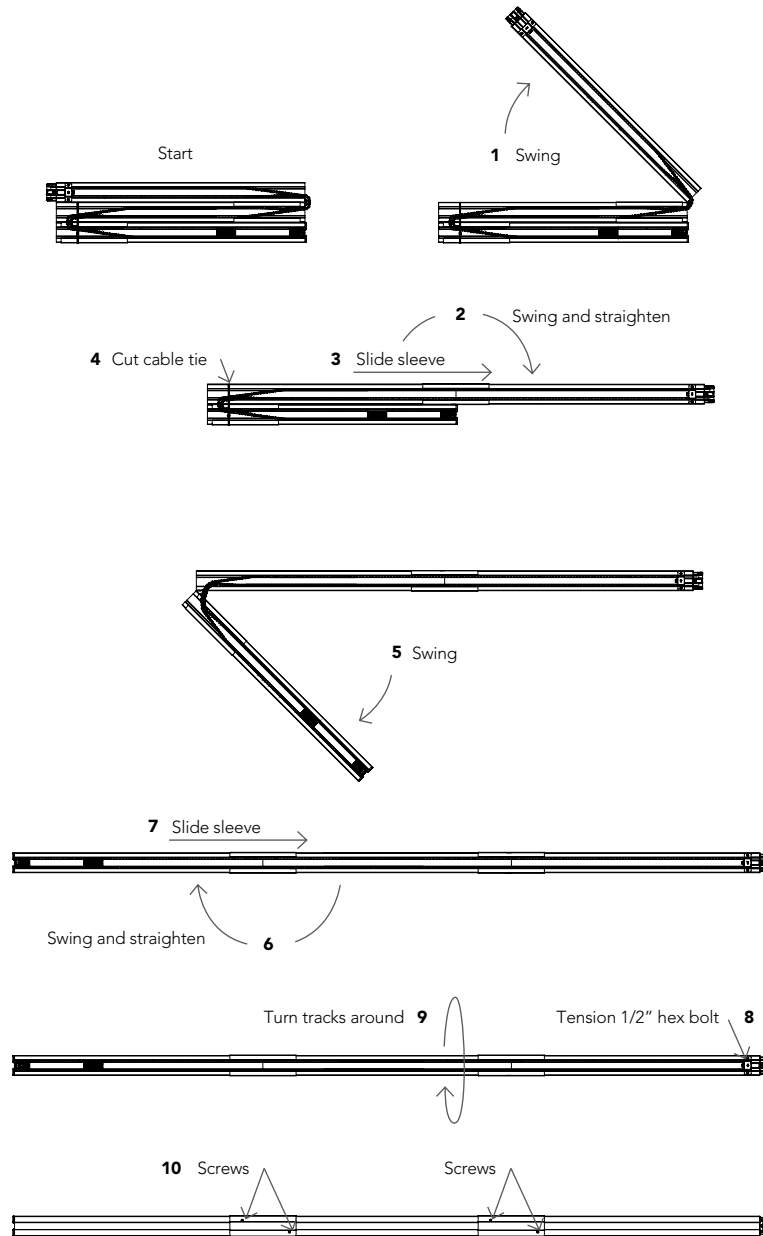


fig 06

To adjust the chain/belt 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.

Step 1 (Knockdown C-Rail units only)

Unpack and assemble the C-Rail as shown (Fig 06).





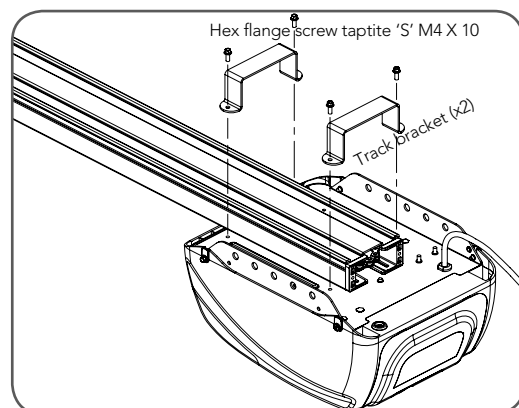
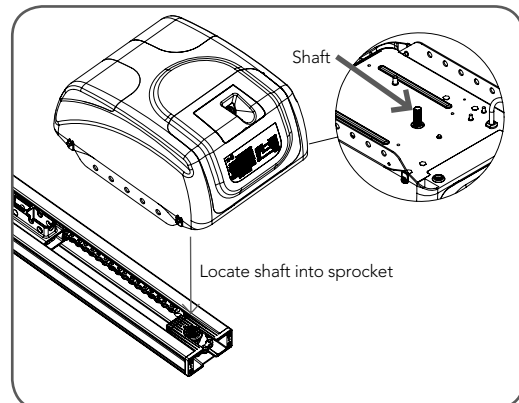
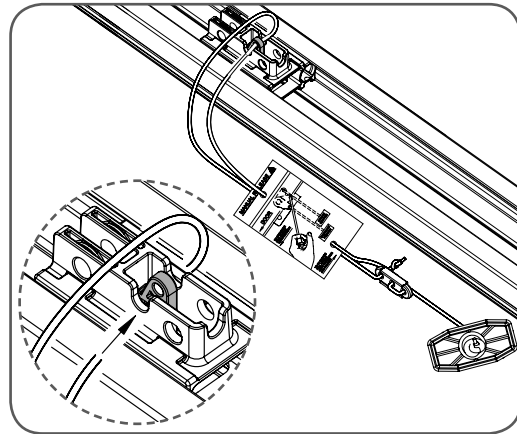
C-Rail Assembly

Step 2 - Attach Manual Disengage Cord

- If not already disengaged, flick the yellow clutch lever up so it sits perpendicular to the rail.
- Thread the loose end of the cord through the hole in the yellow clutch lever (Fig. 07).
- Thread the cord down to red toggle and knot through the spare hole.
- Test if secured properly by pulling back towards sprocket end to engage, and the towards door end to disengage.

Step 3 - Secure C-Rail to Drive Unit

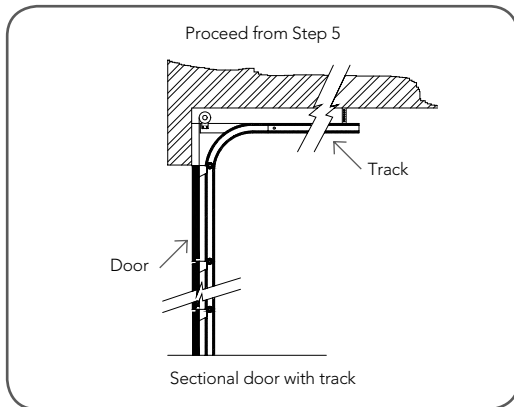
- Locate and insert the shaft of drive unit into the C-Rail's sprocket (Fig. 08).
- Fix the two track brackets with four screws supplied in accessory pack (Fig. 09).





Determine the Door Type

fig 10

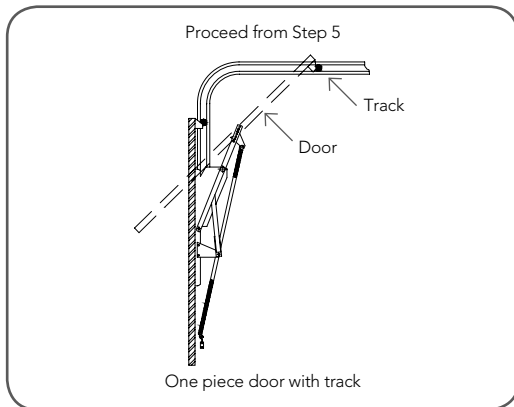


Step 4

Determine which type of garage door you have as illustrated (**Fig. 10 - 12**).

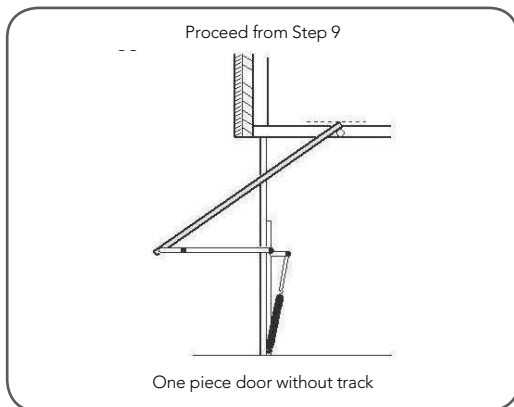
For a sectional (panel) door on tracks (**Fig. 10**) proceed with the installation from **Step 5**.

fig 11



For a one piece door on tracks (**Fig. 11**) proceed with the installation from **Step 5**.

fig 12



For a one piece door without tracks (on springs) (**Fig. 12**) proceed with the installation from **Step 9**.





Mounting on a 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 5 - Determine Bracket Position

- Open the door and find the highest point of travel of the top door panel.
- Using a level, transfer this height to the wall above the door (Fig. 13) and mark a line 60mm above it.
- 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. 14)

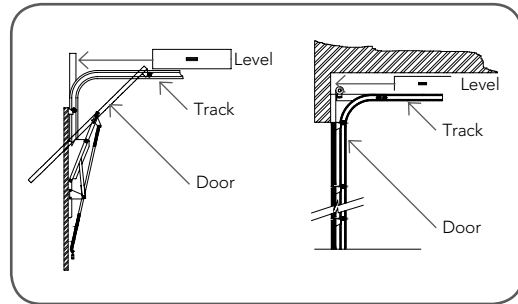


fig 13

Step 6 - Mounting the Wall Bracket

- Centre the bracket over the intersection of these two lines. Mark centres for at least two holes (Fig. 14).

WARNING: Ensure a solid mounting point is behind these holes.

- Drill holes into the wall with an appropriate sized bit.
- 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).

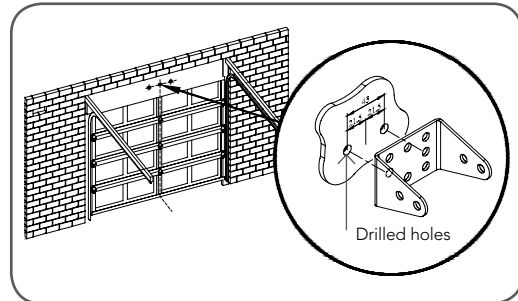


fig 14

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

- Attach the C-Rail assembly to the wall bracket with the 90mm long clevis pin and secure with the supplied snap pin (Fig. 15).
- Leave the drive unit in its packing box for protection during installation.

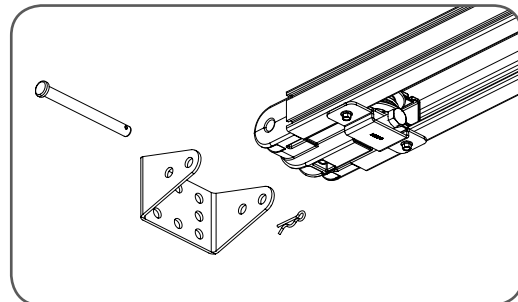


fig 15

Step 8 - Securing the Drive Unit to the Ceiling

- Raise the drive unit from the packing box and support it in the horizontal position with a ladder.
- Open the garage door. Rest the opener on the open door and use a scrap piece of wood to bring it to horizontal level.
- Line up the track perpendicular to the wall.
- 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. 16).
- 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. 16)

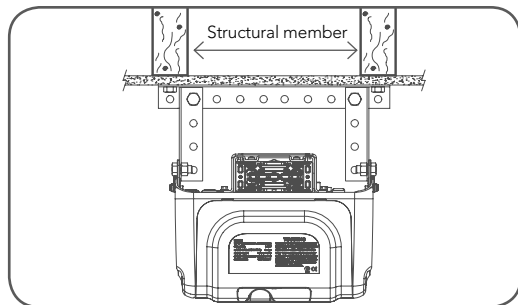


fig 16

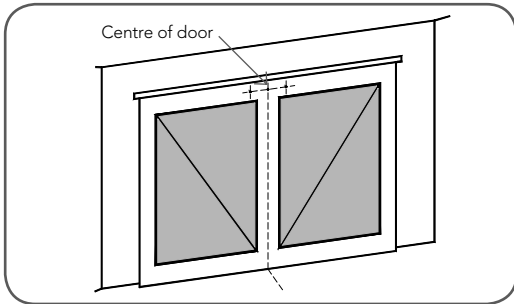
For an alternative mounting option, see Step 12.1





Mounting on a Non-Track Type Door

fig 17



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

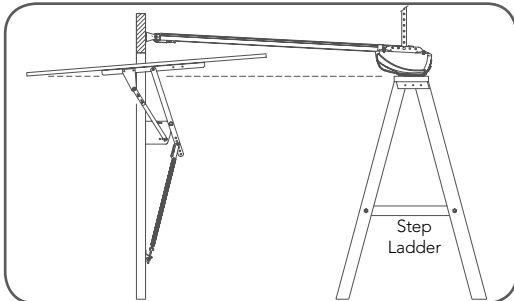
- Find the centre of the door and mark this location both above the door and on top of the door.
- Draw two lines 21.5mm either side of this (Fig. 17).

Step 10 - Prepositioning the Opener

- Raise the door to open position.
- Rest the opener on the top edge of the door with end of the C-Rail against the wall (Fig. 18).
- Support the drive unit level with the lowest point of the open door (Fig. 18).

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

fig 18



Step 11 - Mounting the C-Rail

- Close the door slowly. The C-Rail will be elevated by the top edge of the door as it moves.
- 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. 19).
- Support the C-Rail in this position and close the door.
- The height determined in Step 11(b) will be the height at which to mount the wall bracket.
- Centre the bracket along the lines drawn in Step 9.
- 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.
- 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).
- Attach the wall bracket to the C-Rail with the 90mm long clevis pin (Fig. 15) and secure by a snap pin.

fig 19

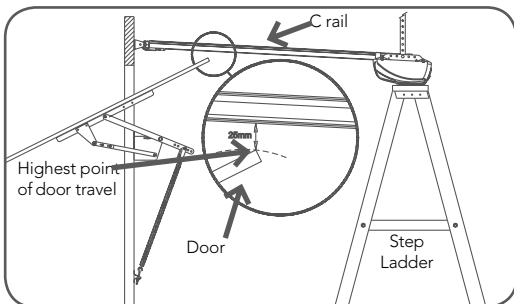
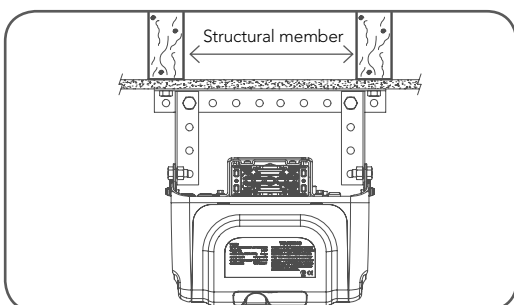


fig 20



Step 12 - Secure the Drive Unit to the Ceiling

- Secure the perforated angle (not supplied) to the ceiling above where drive unit's mounting holes will be. See (Fig. 20) for a representative mounting.
- 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. 20).

For an alternative mounting option, see Step 12.1





Mounting Door Bracket and Arms

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. 21).

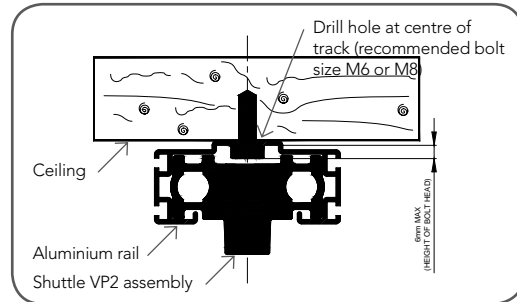


fig 21

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. 22).

- Mount the door bracket, or bracket assembly, on the door's centre line one-third down the top panel (Fig. 22) using M6 or equivalent screws (not supplied),
- STEEL DOORS ONLY: Bracket can be welded on.

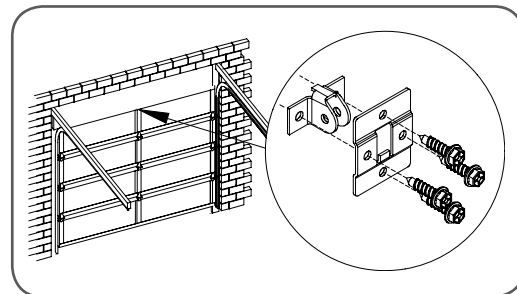


fig 22

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.

Step 14 - Attaching the Arms

FOR TRACK TYPE DOORS

- Assemble the bent and straight arms with bolts and nuts supplied in the accessory pack (Fig. 23). Always use both bent and straight arms.
- Connect the assembled arm to the bracket and the disengaged trolley with clevis and snap pins.

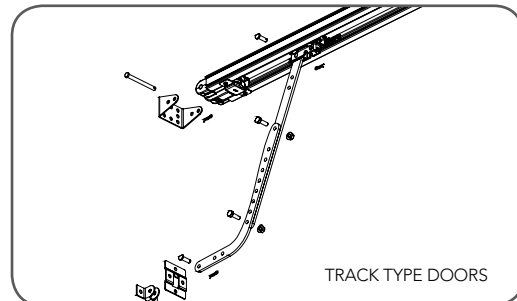


fig 23

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

FOR NON-TRACK TYPE DOORS

- Assemble the bent and straight arms as shown in (Fig. 23) with bolts and nuts supplied in the accessory pack. Always use both the bent and straight arms.
- Connect the assembled arm to the bracket and the disengaged trolley with clevis and snap pins (Fig. 24).
- If installing on a door with a bad wave action, lengthening the arm will reduce this effect.

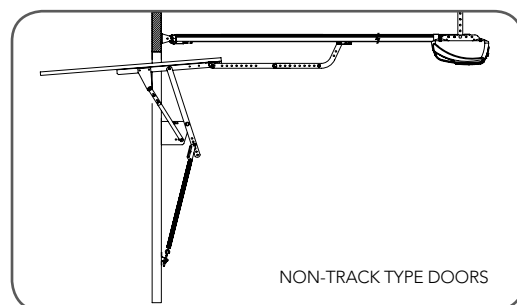


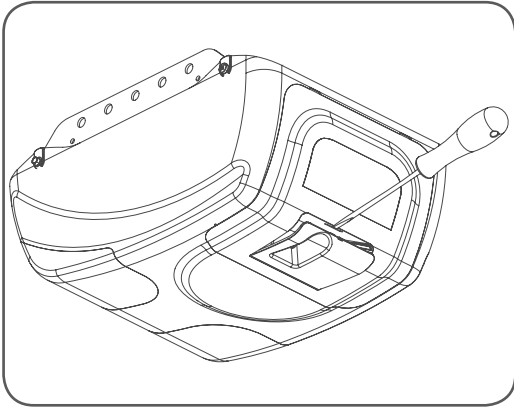
fig 24





Setting Travel Limits

fig 25



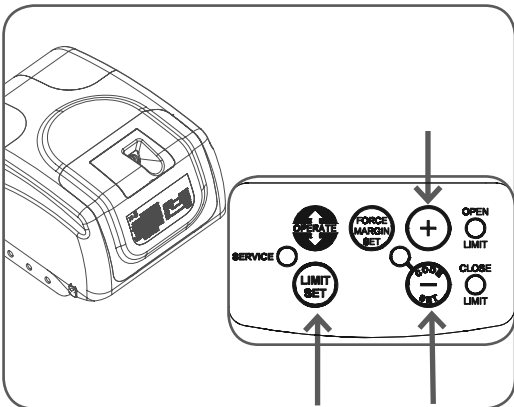
IMPORTANT NOTE: The OPERATE button will not function until the open and close limit positions are set.

NOTE: The door and shuttle must be engaged into the chain index. The door should be open approximately half way.

Step 15.1 - Setting Limits Positions

- Remove the controls cover to access the controls panel as shown in (Fig. 25). Replace it when setup is completed.
- Press and hold the MINUS (-) button to start the door closing. Release the button once you have reached your desired closed limit position (Fig 26).
- Press the LIMIT SET button. This action will store the close limit position into memory.
- Press and hold the PLUS (+) button to start the door opening. Release the button once you have reached your desired open limit position.
- Read the **WARNING** below.

fig 26



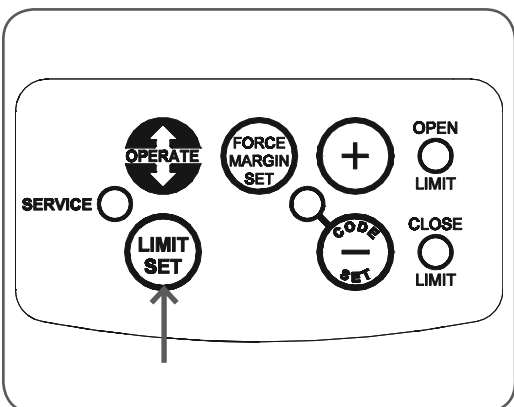
IMPORTANT WARNING: The garage door will automatically close, open and close again once the LIMIT SET button is pressed. Ensure there are no persons or objects in the door's path before pressing the LIMIT SET button.

- Press the LIMIT SET button to store into memory the open limit position. 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 opener can now be operated via the OPERATE button.

fig 27



Step 15.2 - Resetting Door Limit Positions

To enter new limit positions the existing settings must be deleted as follows:

- Press and hold the LIMIT SET button (Fig. 27) for six (6) seconds, until you hear three beeps and the CLOSE LIMIT LED starts to flash.
- Release the button.
- Follow Step 15.1 to set new limit positions.





Testing Safety Obstruction Force

CAUTION: Take care when testing the safety obstruction force. Failure to do so can result in serious personal injury and/or property damage.

16.1 Test the Close Cycle

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

16.2 Testing the Open Cycle

- Press the OPERATE button to close the door (Fig. 28).
- Press OPERATE again to open the door.
- When the door reaches approximately half way, firmly grab the door's bottom rail - the door should stop.

If the door does not reverse readily when closing, or stop when opening, the force may be excessive and need adjustment, 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.

Adjusting Safety Obstruction Force

The safety obstruction force is calculated automatically and normally does not require adjustment. The only time the force may need to be adjusted is due to environmental conditions, such as areas that are windy, dusty or have extreme temperature changes that affect the operability and movement of the door.

Step 16.3 - To Increase Force Pressure

- Press and hold the FORCE MARGIN SET button (Fig 28).
- While holding down the FORCE MARGIN SET button, press the PLUS (+) button.
- Each press will increase the force margin one step. The OPEN LIMIT LED will flash each time the PLUS (+) button is pressed to indicate an increase in force.
- Test the force again as per Steps 16.1 and 16.2.
- If the OPEN LIMIT LED flashes continuously when the PLUS (+) button is being pressed, this indicates that the maximum force setting has been reached.

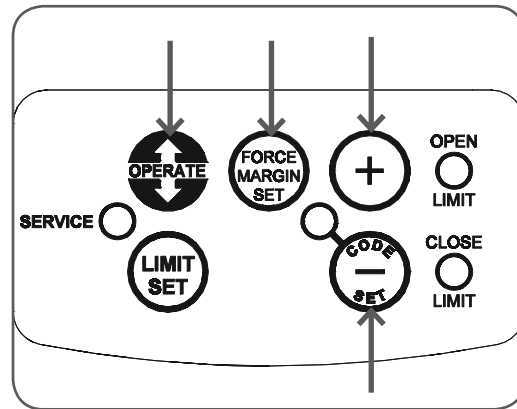


fig 28

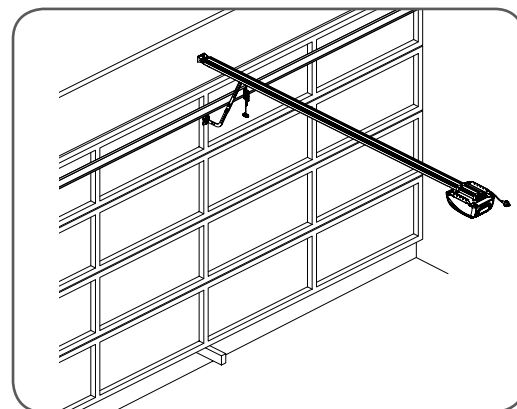


fig 29

Step 16.4 - To Decrease Force Pressure

- Press and hold the FORCE MARGIN SET button (Fig 28).
- While holding down the FORCE MARGIN SET button, press the MINUS (-) button.
- Each press will decrease the force margin one step. The CLOSE LIMIT LED will flash each time the MINUS (-) button is pressed to indicate a decrease in force.
- Test the force again as per Steps 16.1 and 16.2.
- If the CLOSE LIMIT LED flashes continuously when the MINUS (-) button is being pressed, this indicates that the minimum force setting has been reached.

Step 16.5 - To Recall Factory Set Force

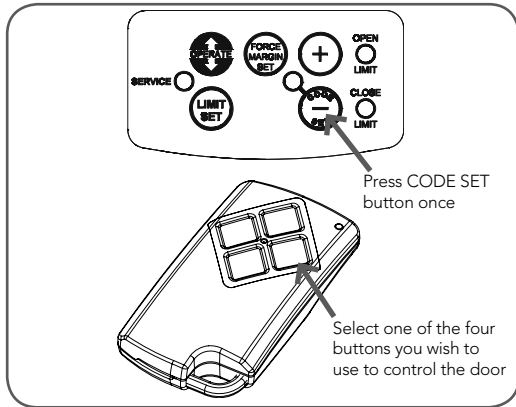
- Hold down the FORCE MARGIN SET button and the LIMIT SET button for two seconds.
- Release both buttons. The default setting should now be recalled.





Coding Transmitters

fig 30

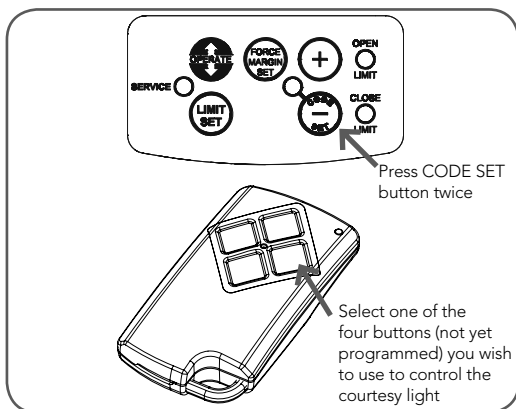


Step 17.1 - Storing the Transmitter Code

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

- Ensure that the battery is inserted into the transmitter.
- 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. 30).
- Press the transmitter button (one of four) that you want to control the door. The CODE SET LED will begin to flash.
- Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out.
- The transmitter is now coded to operate the door - press the button to test.

fig 31



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.

- 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. 31).
- Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
- Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out.
- The transmitter is now coded to operate the light - press the button to test.





Coding Transmitters

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.

- 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. 32)
- Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
- 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. 32).
- 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.
- To exit Vacation Mode press the transmitter button momentarily until the CODE SET LED turns off.

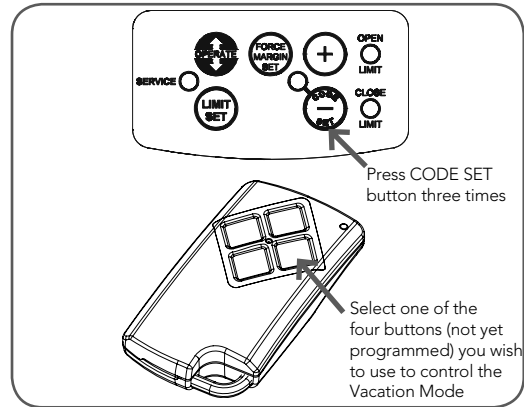


fig 32

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.

- 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 (Fig. 33).
- Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
- 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. 33).

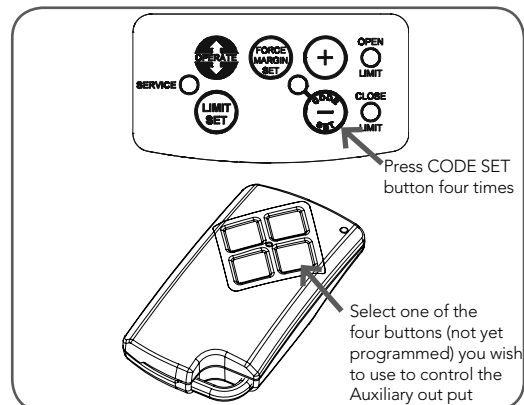


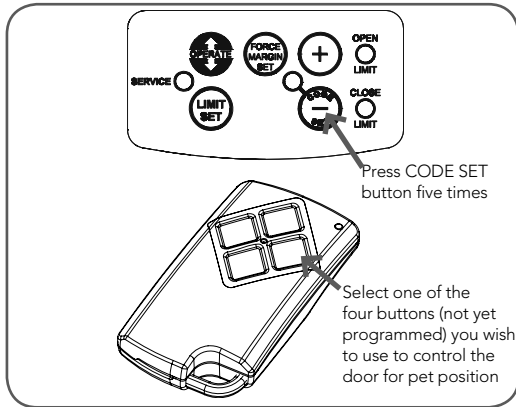
fig 33





Coding Transmitters

fig 34

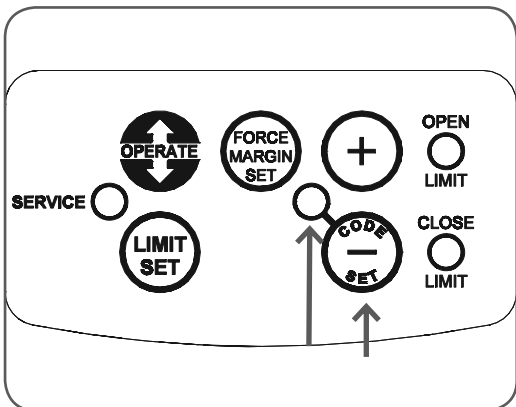


Step 17.5 - Setting the Transmitter to Operate Pet (Pedestrian) Mode

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

- 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. (Fig. 34)
- Choose a transmitter button not already coded into the receiver. Press this button and the CODE SET LED will begin to flash.
- 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. 34).

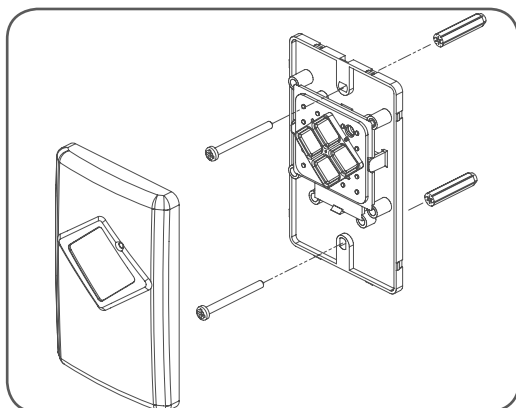
fig 35



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. 35)

fig 36



Step 17.7 - Installation of the Wall Mounted Transmitter

- Mount the transmitter in a convenient location, yet out of reach of children and at least 1.5m off the ground (Fig. 36).
- Make sure the door is visible from this location.
- To set the transmitter codes refer to Steps 17.1 to 17.5.





Battery Back Up Installation

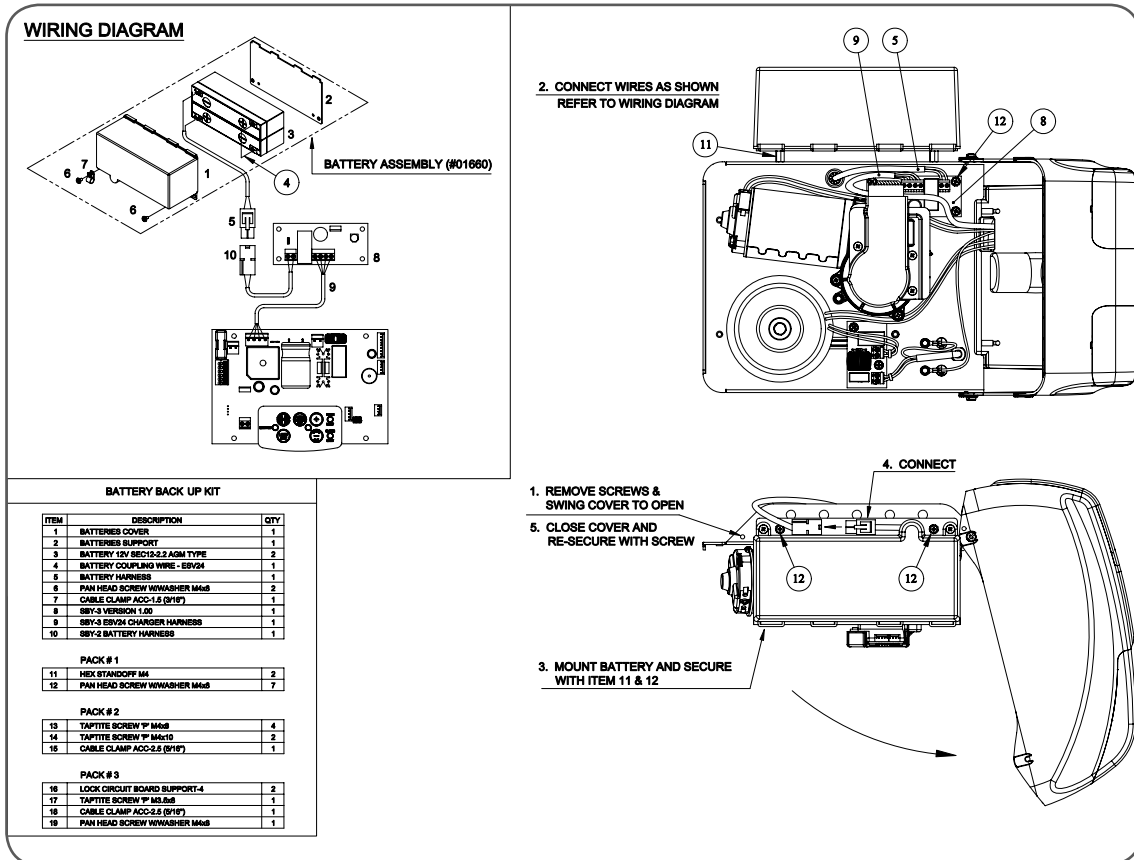


fig 37

Battery Back Up (optional)

The opener has provision for a Battery Back Up kit to allow continued door operation without mains power.

Installation

1. Disconnect power to the opener.
2. Remove screws and swing the cover open (Fig. 37).
3. Mount battery pack and secure with item 11 and 12.
4. Mount the SBY-3 Charger Board on the pre-mounted hex spacers and secure with three (3) M4x8 screws.
5. Feed the 2-wire battery harness through the grommet on the base plate and connect to the SBY-3.
6. Feed the charger harness from SBY-3 to the control board. Plug the 4-pin connector marked "SBY-3" onto the control board.

Warning: After the next step the opener may become active (even when power is off) due to a residual charge in the batteries.

7. Connect item 3 and 7 together (Fig. 37).
8. Reconnect power.

Testing Battery Back Up

1. Press either the OPERATE button or transmitter to activate the opener.
2. Whilst the door is in motion disconnect mains power - the opener should continue to operate.

Note: Wait for the door to complete its travel before proceeding to the next step

3. Press either the OPERATE button or transmitter to activate the opener.
4. Whilst the door is in motion re-connect power. The door should complete the cycle as normal.

Troubleshooting

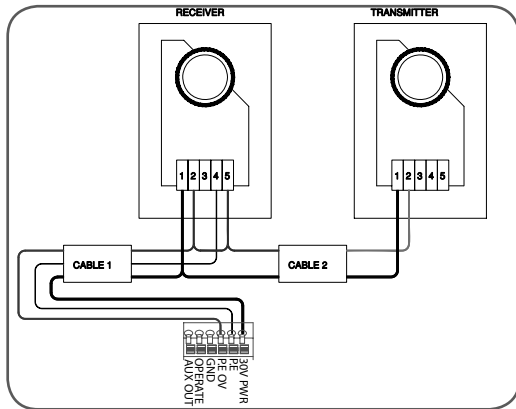
If door stops or moves very slowly under battery power, then the batteries may have little to no charge.

To remedy this connect mains power and leave the batteries to charge. The batteries may take 24 to 48 hours to reach their maximum charge capacity.



Accessories

fig 38



P.E. Beams

For **ADDITIONAL PROTECTION** Automatic Technology **STRONGLY** recommend the fitting of a 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.

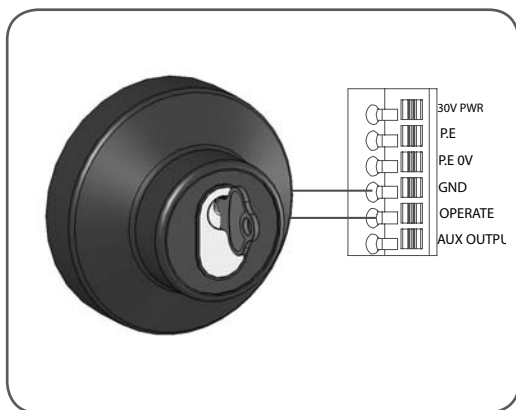
Locate the P.E. Beams in a strategic location within the doorway. It is recommended that it be positioned

- 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. 38).

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 40



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. 40) 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. 40).

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.





Accessories

Terminal Block

A variety of wired accessory items can be connected to the terminal block such as P.E. Beams, electric key switch, door status indicators and more (Fig. 41).

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

Terminal connections from top down are as follows:

1. 30V PWR (+ve)
2. P.E (P.E. Beams input)
3. P.E 0V (0V for P.E. Beams)
4. GND (Common -ve ground for accessories)
5. OPERATE (Open/Stop/Close trigger)
6. AUX OUT (Auxiliary output trigger)

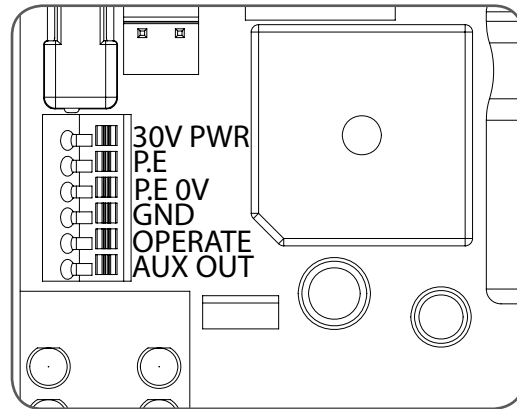


fig 41

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.





Troubleshooting Guide

Symptom	Possible cause	Remedy
Door will not operate	Mains power not switched on	Switch on mains power
	Door is obstructed	Remove obstruction
	Door is locked or motor jammed	Unlock door or remove jam
	Door tracks/hardware damaged	Door requires service/repair by qualified technician
Door starts to close but automatically reverses to open position	Adverse weather conditions (wind or cold) causing door to stiffen and become tight in the tracks	Increase force margin setting. See Step 17.3 on page 21
	Possible obstruction in the doorway	Remove obstruction
Door operates from drive unit's OPERATE button but not from transmitter.* *See note	Transmitter code not stored in memory	Code transmitter into opener's memory. Refer Step 17.1 on page 20
	Flat battery	Replace battery - A23 Alkaline 12V
Door will not close fully	Door limits position need to be reset	Reset limits positions. Refer Step 15.2 on page 18
Door will not open fully	Door limits position need to be reset	Reset limits positions. Refer Step 15.2 on page 18
Courtesy light not working	Faulty LED module	Replace LED module
Auto close not working	P.E. Beam or wiring faulty	Repair P.E. Beam or replace wiring
	P.E. Beam not aligned correctly	Re-align optics. See P.E. instructions
	P.E. Beam is obstructed	Remove obstruction from the path of P.E. Beam
	Door obstructed when closing	Remove obstruction

PLEASE NOTE:

Some areas may be prone to excessive radio interference brought on by devices such as cordless telephones, wireless stereo headphones and baby monitors. It is possible that these devices could cause a degree of interference such as to greatly reduce the range of the transmitter. In such an instance please contact your Automatic Technology dealer for an alternative frequency replacement kit. As this is not a warrantable situation but an environmental issue charges may apply for the changeover.





Default Settings and Specifications

Factory default settings

	Default	Step	Minimum	Maximum
Maximum opener run time	30 seconds	-	-	-
Courtesy light time	4 minutes (approx.)	-	-	-
Obstruction force margin	2	1	0	14
Auto-Close time	30 seconds	-	-	-

Technical specifications

Power supply	230V - 240Va.c. 50Hz	
Transformer rating	24Vd.c.	
Standby power	2.2 Watts	
Motor power	100 Watts	
Motor type	24Vd.c. permanent magnet	
Shuttle travel distance in the C-Rail	2.7m approx. (standard)	
Maximum shuttle travel distance in the C-Rail	3.750 m (with one extension)	
Maximum door opening:	Width: Height: Weight:	5500mm (16.5m ²) 3000mm 100kg
Minimum headroom	30mm	
Short term peak force	1000N (100kg) with Chain 800N (80kg) with Timing Belt	
Lift force	600N (60kg) with Chain 500N (50kg) with Timing Belt	
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	10A 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

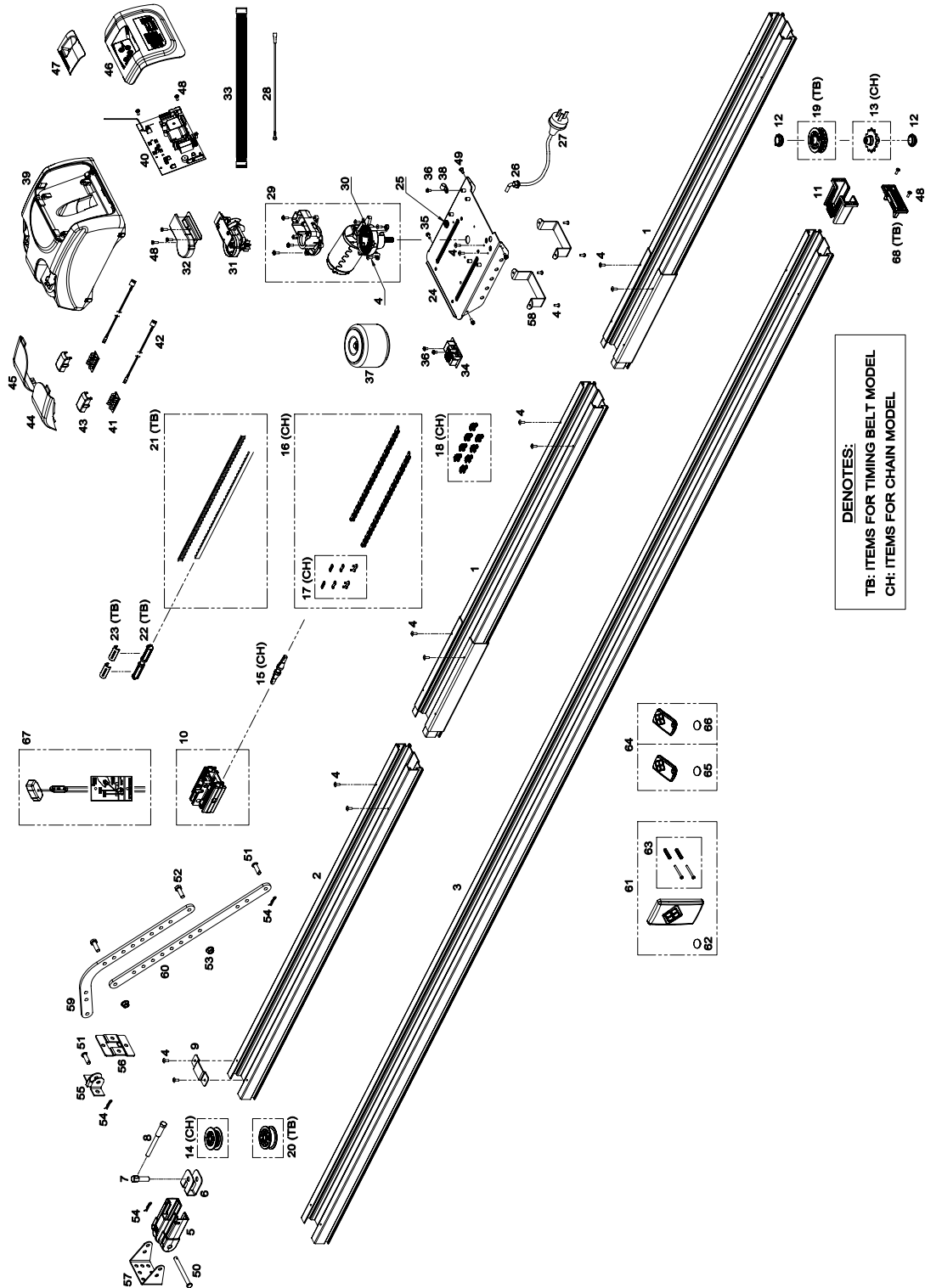
Item	Description	Order Code
35	FLANGE TAPTITE SCREW 'S' M4x10	10497
36	PAN HEAD SCREW W/WASHER M4x8	10320
37	TRANSFORMER TDB-150-08 KIT	02025
38	CABLE CLAMP ACC-2.5 (3/16")	11760
39	MAIN COVER VP2-ATA BK SP S-AY	71460
40	CONTROL BOARD DCB01-1.00-101E	71206
41	LED LIGHT LL1-1.02	71215
42	RIBBON 2 CORD 300mm ASSY	71820
43	LIGHT MODULE DIFFUSER	72313
44	LIGHT DIFFUSER RIGHT VP2	72311
45	LIGHT DIFFUSER LEFT VP2	72310
46	BACK COVER VP2 T/OR ASSY	71411
47	CONTROLS COVER SP VP2 T/CLR	72318
48	TAPTITE SCREW 'P' M4x12	10569
49	SHOULDER SCREW 5-M4x6	10603
50	PIN	05790
51	CLEVIS PIN 0829	02551
52	HEX HEAD SCREW M8x25	10110
53	HEX SERRATION FLANGE NUT M8	10148
54	PIN SNAP SSP ZNU 31080	10720
55	DOOR BRACKET	02511
56	DOOR BRACKET LOCATOR	02515
57	WALL BRACKET	02521
58	TRACK BRACKET VP2	04592
59	BENT ARM	02800
60	STRAIGHT ARM	02790
61	WALL TRANSMITTER WTB-4 WG	70233
62	LITHIUM BATTERY 3V CR2032	13021
63	PLASTIC WALL PLUG PACK	01479
64	TB-4 FOUR BUTTON TRANSMITTER OGPP	70242
65	TRANSMITTER TB-4 OG	71312
66	TRANSMITTER TB-4 PP	71313
67	STRING HANDLE ASSY VP2	71422
68	BELT GUIDE VP2	04598

Item	Description	Order Code
1	C RAIL 1050 VP1 ASSY	01930
2	EXTRUSION 1050 END VP2	72252
3	EXTRUSION 3150 VP2	72250
4	TAPTITE SCREW 'S' ROH M4x10	10504
5	TENSION SUPPORT ASSY	04594
6	TENSION BRACKET	04590
7	HEX SHAFT 10-40	03985
8	SHOULDER SCREW M8x65	10602
9	CLAMPING BRACKET VP1	04591
10	SHUTTLE VP2 ASSY	00274
11	PULLEY SUPPORT	04597
12	FLANGE BUSH 16-10	04313
13	SPROCKET 12T-12.7	04697
14	CHAIN IDLER	02963
15	CHAIN INDEX V3	02941
16	CHAIN 1/2"x1/8" (487 LINKS) W/2CL	03005
17	CHAIN JOINT LINK	02950
18	CHAIN CLIP IM KIT	71643
19	TIMING PULLEY 16T10 ASSY	04025
20	TIMING IDLER	02964
21	TIMING BELT T10-6280	03007
22	TIMING INDEX CLAMP	04593
23	TIMING INDEX SLEEVE	04596
24	METAL CHASSIS VP1 ASSY	02781
25	GROMMET 101422	05603
26	CORD GRIP GROMMET SB5P-2	05606
27	POWER CORD 1.5M W2P+1R	14150
28	WIRE EARTH ASSY 220L	12150
29	GEARED MOTOR ASSY 14-V2	00385
30	HELICAL GEAR 85075-12 CP ASSY	04002
31	TIMING ASSY	01732
32	DUST COVER TOP	03223
33	TIMING HARNESS 350 ASSY	01792
34	EMC FILTER BOARD EMC 3.02	01447





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 16.5m² 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.





smart | simple | secure





© June 2007 Automatic Technology (Australia) Pty Ltd. All rights reserved. TrioCode™ and SecuraLift® Trio are trademarks of Automatic Technology (Australia) Pty Ltd. No part of this document may be reproduced without prior permission. In an ongoing commitment to product quality we reserve the right to change specification without notice. E&OE.

automatic
TECHNOLOGY

smart | simple | secure

an alesco company

Automatic Technology (Australia) Pty Ltd

ABN 11 007 125 368

6-8 Fiveways Boulevard
Keysborough, Victoria, 3173, Australia

P 1300 133 944

+61 2 9722 5666 (International Enquiries Only)

E sales@ata-aust.com.au

www.ata-aust.com.au