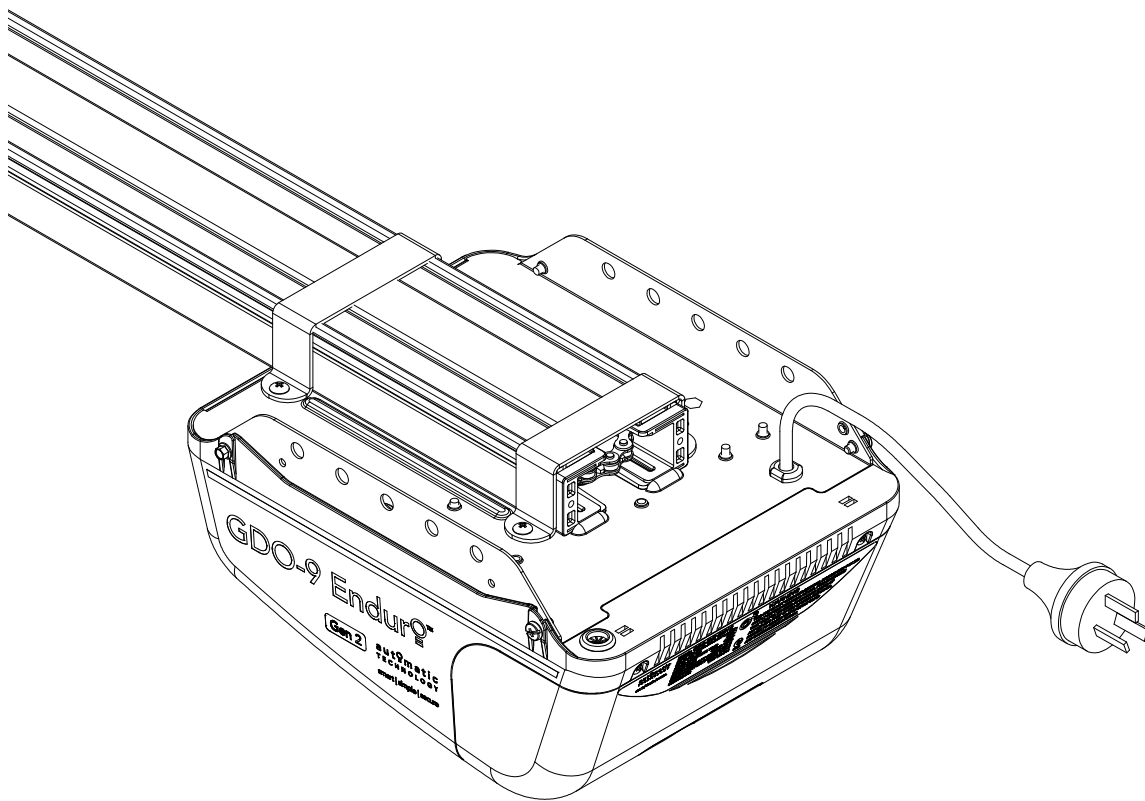




GDO-9v2 Enduro™ Gen 2

Overhead Garage Door Opener



Featuring TrioCode™ Technology

automatic
TECHNOLOGY

smart | simple | secure

Technical Document

Installation Manual

v **1.01**

26 JULY 2012

English

Part # 13289 (Manual)

INSTALLATION INSTRUCTIONS | OWNERS COPY





WARNING: It is vital for the safety of persons to follow all instructions. Failure to comply with the installation instructions and the 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.



GDO-9v2 Enduro™ Gen 2

Overhead Garage Door Opener

Important Safety Instructions	4		
Features	6		
Opener Controls	8		
Kit Contents	10		
Installation	11		
C-Rail Attachment	11		
Determine Door Type	12		
Mounting - Track Type Door	13		
Mounting - Spring Loaded Door	14		
Mounting Door Bracket & Arms	15	Wired Safety Beam Installation	23
Setting Speed and Limits	16	Auto-Close Setup	24
Setting Speed Mode	16	Battery Backup Installation	25
Setting Travel Limits - Control Panel	17	SmartSolar™ Installation	26
Setting Travel Limits - Transmitter	18	Final Setup	27
Safety Obstruction Forces	19	Courtesy Light Time	27
Safety Obstruction Force Test	19	Pet Mode Door Height	27
Adjusting Safety Obstruction Forces	20	Wall Mounted Transmitters	27
Coding Transmitters	21	Reset to Factory Default	27
Door	21	Default Settings & Specifications	28
Vacation Mode	21	Door Status Indicators	29
Auxiliary out put	21	Button Functions	29
Pet Mode	21	Troubleshooting Guide	30
Courtesy Light	22	Maintenance	31
Remotely Coding Transmitters	22	Parts List	32
Erasing Transmitter Codes	22	Important Safety Checks	34
Accessories	23	Warranty	35



Important Safety Instructions

WARNING: It is vital for the safety of persons to follow all instructions. Failure to comply with the following safety instructions 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 case of power failure.

For **ADDITIONAL SAFETY** protection we **STRONGLY** recommend the fitting of a Photo Electric (PE) Beam. In most countries PE Beams are mandatory on all garage doors fitted with automatic openers. For a small additional outlay Automatic Technology recommends that Photo Electric Beams be installed with the automatic opener ensuring additional safety and peace of mind.

DO NOT operate the 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 opener when children/people are near the door. Children must be supervised at all times when the opener is in use. **Serious personal injury** and/or property damage can result from failure to follow this warning.

DO NOT allow children to operate the opener. **Serious personal injury** and/or property damage can result from failure to follow this warning.

Regularly check to make sure that the **Safety Obstruction Force** is working correctly, and is **tested** and set as per **page 21 of this manual**. Failure to follow these instructions could result in **serious personal injury** and/or property damage. This test must be repeated at regular intervals and the necessary adjustments made as required.

Photo Electric beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40kg).

DO NOT disengage the door opener to manual operation with children/people or any other objects including motor vehicles within the doorway.

The door opener is not intended for use by young children or infirm persons without adequate supervision. Children should be supervised to ensure that they do not play with the remote transmitters or the opener.

Keep hands and loose clothing **clear** of the door and door opener at all times.





Important Safety Instructions

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

When using auto close mode, a **Photo Electric 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.

In order for the opener to **sense** an object obstructing the door way, some **force** must be exerted on the object. As a result the object, door and/or person may suffer **damage** or **injury**.

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

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 switch or 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 Automatic Technology **GDO-9v2 Enduro™ Gen 2** 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 some of the many features:

Operation

To open or close the door simply press a button on a TrioCode™ handheld transmitter, a wall mounted 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 button press will reverse the door's direction.

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 different frequencies. Even if two of the three signals are jammed, the system will still work.

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. During installation the hand held transmitter can be programmed to set the door limits positions.

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 by the doors control system 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 monthly.

Auto courtesy light

The courtesy light comes on automatically for three minutes whenever the door is activated. The light can also be operated independently of the door by coding in a dedicated button on a transmitter.

Vacation mode

A hand held transmitter can be programmed to lock and unlock all other transmitters that have been programmed into the openers' memory. The vacation mode can be used when the door is left idle for long periods of time.





SmartSolar™ and Battery Backup Compatibility (optional)

The opener can be fitted with a SmartSolar™ or Battery Backup kit for operation in the event of a power outage, or where mains power access is not available.

NOTE: If the door is the only entrance to the garage, and a battery backup kit is not fitted, a keyed cable release should be fitted externally to the garage.

Pet/Pedestrian mode

The transmitter can be programmed to open the door to an adjustable partial height so that the family pet can enter and exit the garage at any time. You may also wish to open the door to a height suitable only for pedestrian access.

Auto-Close mode

The opener can be programmed to automatically close after an open cycle. The Auto-Close time is adjustable. It is compulsory to install a Photo Electric (PE) Beam if this mode is selected, otherwise the door may cause personal injury or damage to property.

Safety Beam (optional)

The opener has an input to connect a Safety Beam for extra safety and use of the Auto-Close mode. Easy Beam PE 3 kit or Wireless PE Beam kit can be used with this opener.

Safety Beam Failure Emergency Close

When a safety beam prevents movement due to any reason other than a 'real' obstruction, the user can secure their property by pressing and holding a button on the remote control or OSC on the console.

Manual operation

The opener is equipped with a unique manual disengaging device. If the power to the opener is disrupted, the door can be put into manual mode by pulling down on the string handle on an angle towards the door. This allows for manual operation of the door. To re-engage the opener, pull the string handle away from the door.

Service Indicator

The opener has a built in counter with a default setting of 3000 cycles. When the counter expires the opener will beep and flash to indicate a service is required.



Opener Controls

- 01 Terminal Block.**
V+ is used to power devices such as Wireless PE Beam, external receiver etc.
EB1 first Safety Beam input.
0V (Input) is a 0 volt connection for PE Beam, external receiver, osc, aux etc.
EB2 second Safety Beam input.
0V (Input) is a 0 volt connection for PE Beam, external receiver, osc, aux etc.
O/S/C INPUT is 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 output can be used to control another device (such as alarm system etc) via the opener's remote control.
- 02 SET** button (orange) is used during the installation phase together with the OPEN and MINUS (-) buttons to set the door limit positions. The SET button is also used to re-initialize the opener.
- 03 LIGHT CODE** button (white) is used for storing or erasing the transmitter button (code) you wish to use to switch the courtesy light on the opener on or off.
- 04 CODING LED** (red) light flashes when a code is being stored or when a transmitter button is pressed.
- 05 OPERATE** button (yellow) is used during installation to test the open, stop and close cycles for the opener. The opener has to be initialised by the SET button to make the O/S/C button operable.
- 06 DOOR CODE** button (blue) is used for storing or erasing transmitter buttons for door operation
- 07 DOOR STATUS LED** (yellow)
- 08 MINUS** (-) button (red) is used during installation to help 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.
NOTE: The safety obstruction detection is inoperable when the MINUS (-) button is used to move door.
- 09 PLUS** (+) button (green) is used during installation to help set the open limit position. Pressing and holding this button will move the door in the open direction, releasing stops the door.
NOTE: The safety obstruction detection is inoperable when the PLUS (+) button is used to move door.
- 10 CLOSE LIMIT LED** (red) the LED is very helpful during installation. It illuminates and flashes when the door is closing and remains steady on when the close limit position has been reached.
- 11 OPEN LIMIT LED** (green) the LED is very helpful during installation. It illuminates and flashes when the door is opening and remains steady on when the open limit position has been reached.
- 12 AUTO CLOSE TIME** button (white) is used to adjust the auto close time. While holding the AUTO CLOSE TIME button and then pressing the PLUS (+) button the time is increased. Each press will increase the time by 1 second. Pressing the MINUS (-) button will decrease the time.
- 13 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 MARGIN SET BUTTON and pressing PLUS (+) or MINUS (-) buttons will increase or decrease the amount of force. The Force Margin Set should only be used if environmental factors (wind, etc.) affect the door's operation.



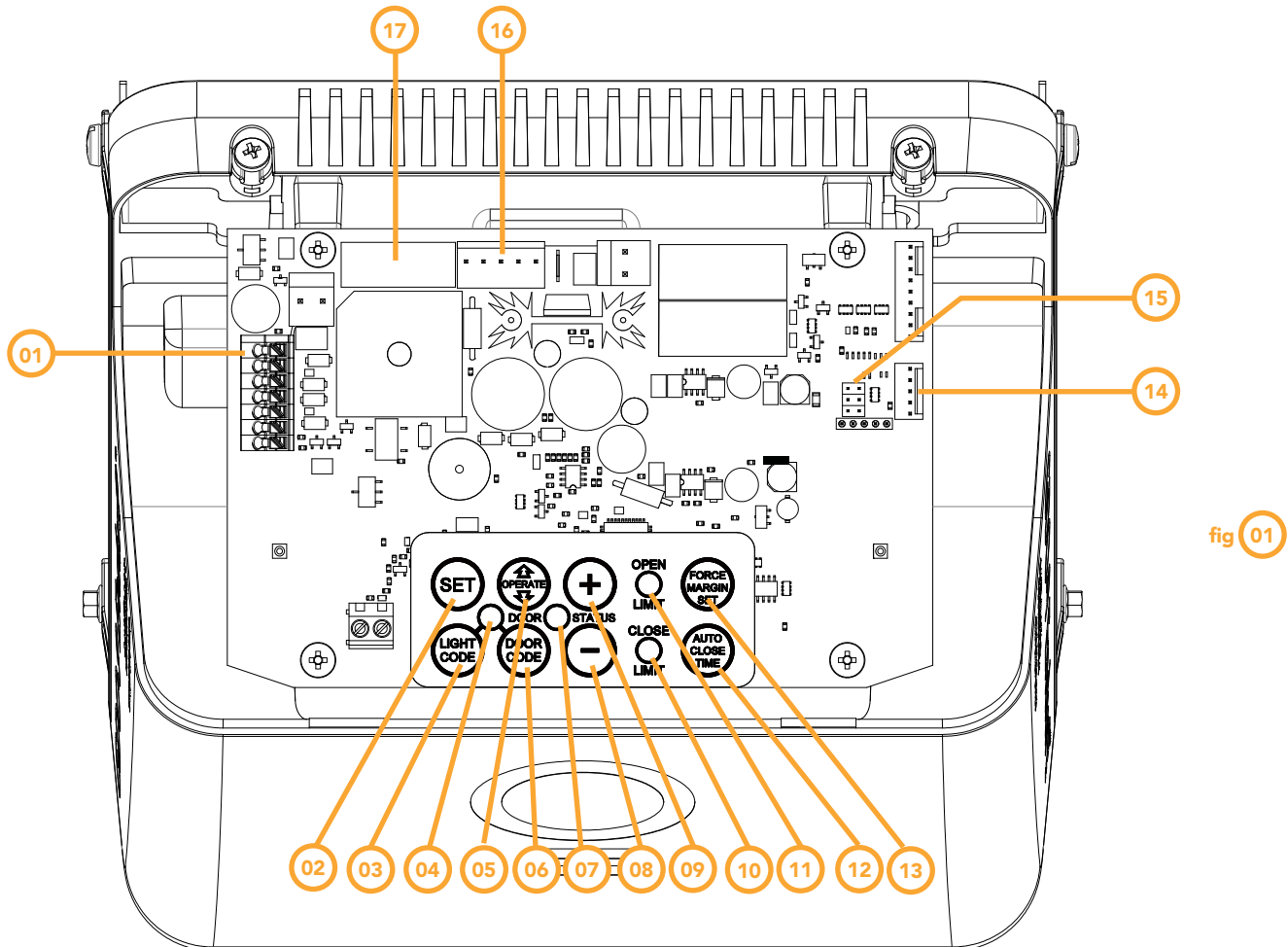


fig 01

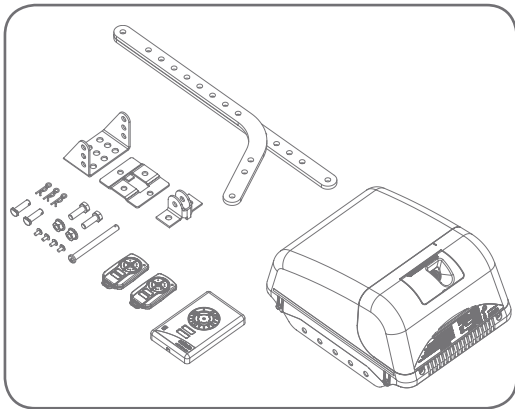
- 14 **PROG INPUT** is used to connect the Automatic Technology Handheld Programmer 'PG-3' for editing control and receiver functions, accessing diagnostic tools, and activating special features and operating modes.
- 15 **JP1 CONNECTOR** the shunt must be fitted for solar operation.
- 16 **SBCO2 J4 STANDBY BATTERY OR SOLAR CHARGER CONNECTOR** the shunt must be plugged if battery or solar charger is not connected.
- 17 **10A Fuse**





Kit Contents

fig 02

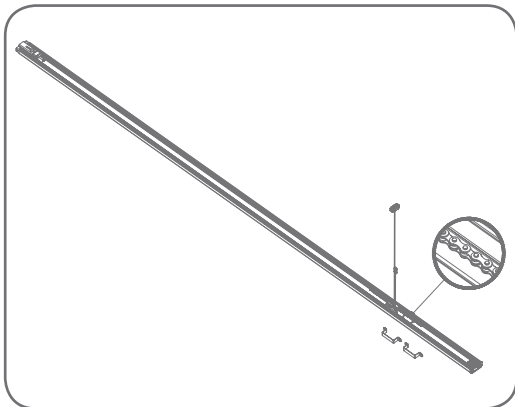


Drive Unit

- 1 x GDO-9v2 Enduro™ Gen 2 drive unit (Fig. 02)
- 1 x TrioCode™ Transmitter pack (Fig. 02)
(Pack includes two keyring transmitters and batteries)
- 1 x Wall mount transmitter with battery (Fig. 02)
- 2 x Door attachment arms (Fig. 02)
- 1 x Accessory and hardware pack (Fig. 02)
- 1 x Installation Manual

PLUS

fig 03



Pre-Assembled Single Piece C-Rail





C-Rail Attachment

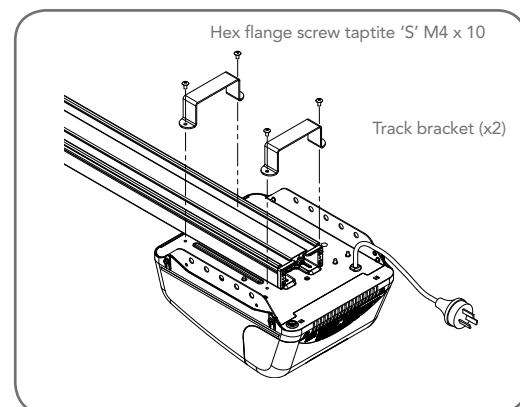
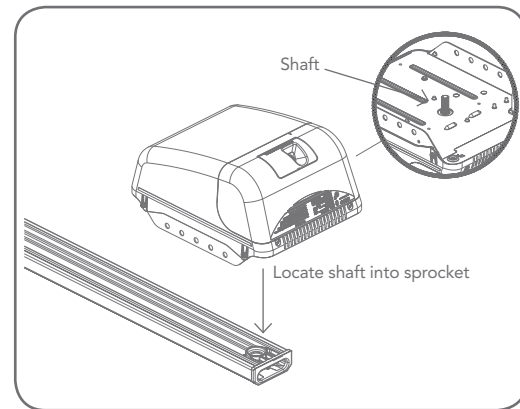
Single piece

C-Rails are pre-tensioned during manufacturing for transport. Some extra tension may be required after installation.

If the C-Rail needs to be shortened or lengthened (using the extension kit) ensure these modifications are made to the drive unit end.

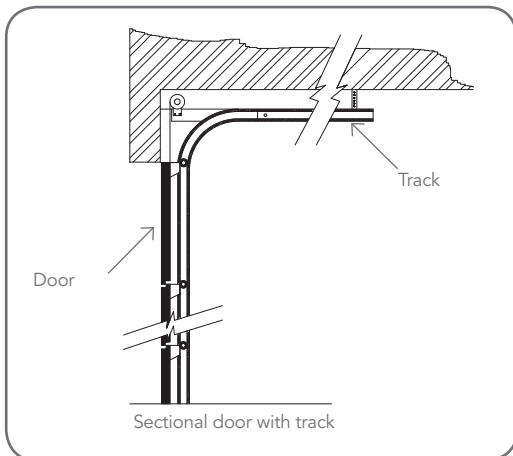
Step 1 - Secure C-Rail to Drive Unit

- Locate and insert the shaft of drive unit into the C-Rail's sprocket (**Fig. 04**).
- Fix the two track brackets with four screws supplied in accessory pack (**Fig. 05**).



Determine the Door Type

fig 06

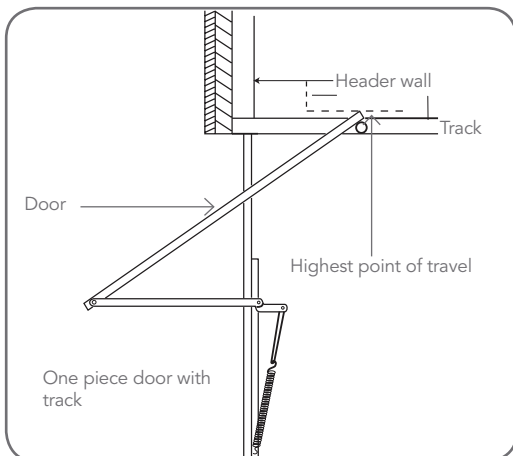


Step 2 - Determine Door Type

Determine which type of garage door you have as illustrated below. (Fig. 06 to Fig. 08) .

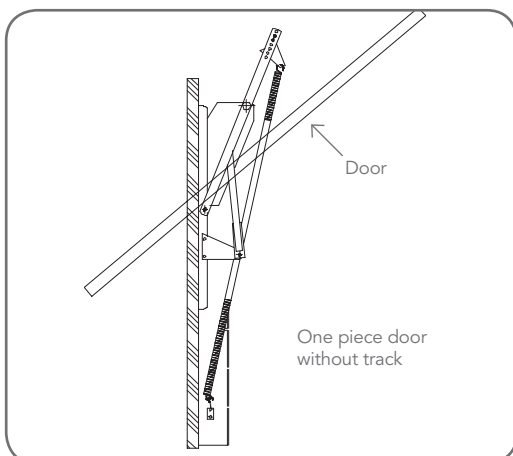
For a sectional (panel) door on tracks (Fig. 06) proceed with the installation from Step 3.

fig 07



For a one-piece door on tracks (Fig. 07) proceed with the installation from Step 3.

fig 08



For a one-piece door without tracks (on springs) (Fig. 08) proceed with the installation from Step 7.

Mounting on a Track Type Door



WARNING: The opener must be securely fastened to structural supports, otherwise opener failure may ensue causing serious personal injury and/or property damage.

Step 3 - 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. 9**) and mark a line 60mm above it.
- Determine the centre point on the wall above and on top of the door. Draw two lines extending 21.5mm from each side of the centre point. (**Fig. 10**)

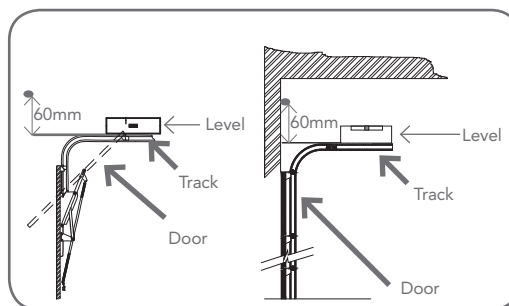


fig 9

Step 4 - Mounting the Wall Bracket

- Centre the bracket over the intersection of these two lines. Mark centres for at least two holes (**Fig. 10**) and ensure it is into a solid mounting point.
- Drill holes into the wall with an appropriate drill bit.
- Secure to the wall using:
IF CONCRETE OR BRICK - 8mm (5/6") loxins/dynabolts.
IF TIMBER - wood screw #20 or similar (min. 50mm).

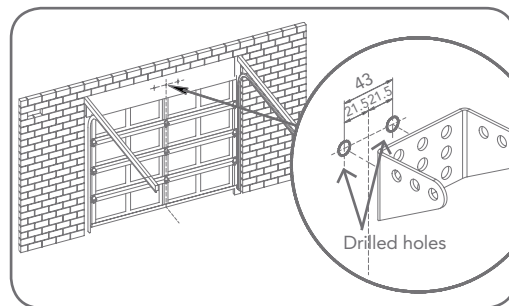


fig 10



WARNING: Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform.

Step 5 - Attach the 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. 11**)
- Leave the drive unit in its packing box for protection during installation.

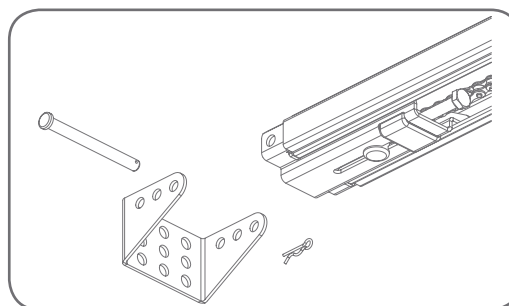


fig 11

Step 6 - Secure the Drive unit to the Ceiling

- Raise the drive unit from the packing box and support it in the horizontal position with a step ladder.
- Open the garage door and 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. 12**)
- 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.
- To prevent moisture on the C-rail running into the powerhead it is recommended a strip of silicon sealant is placed across the top of the C-rail just before the opener.

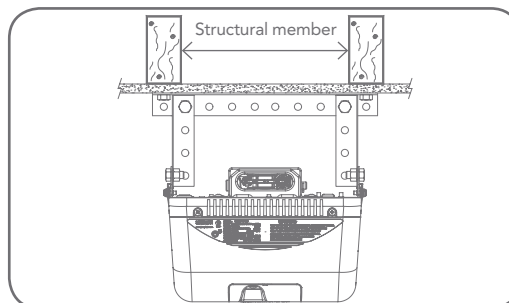
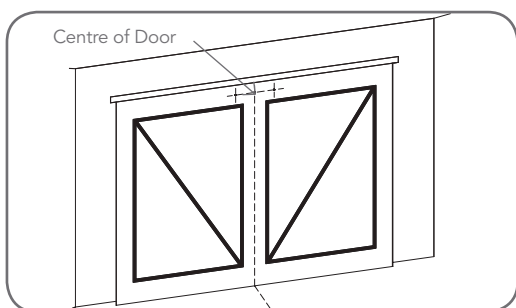


fig 12

Go to Step 11 on page 15

Mounting on a Spring Loaded Door

fig 13



WARNING: The opener must be securely fastened to structural supports, otherwise opener failure may ensue causing serious personal injury and/or property damage.

Step 7 - Determine the Door's Centre

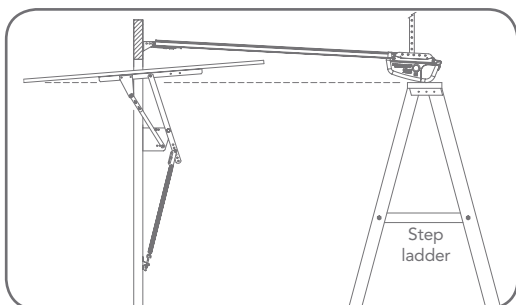
- Find the centre of the door and mark this location both above the door and on top of the door.
- Draw two lines 21.5mm either side of this (Fig. 13).

Step 8 - Prepositioning the Opener

- Raise the door to open position.
- Rest the opener on the top edge of the door with end of the rail against the wall (Fig. 14).
- Support the drive unit level with the lowest point of the open door (Fig. 14).

NOTE: Do not slide rail along the face of the door.

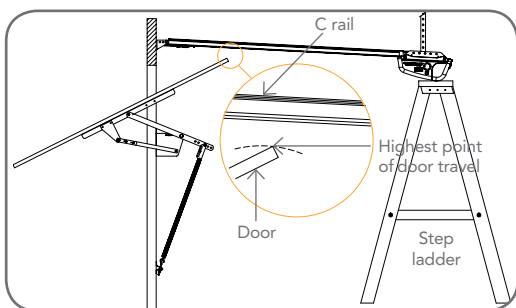
fig 14



Step 9 - Mounting the C-Rail

- Close the door slowly. The 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. 15).
- Support the rail in this position and close the door.
- The height determined in Step 10(b) will be the height at which to mount the wall bracket.
- Centre the bracket along the line determined in Step 8.
- 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 the bracket to the wall using:
 - IF CONCRETE OR BRICK - 8mm (5/16") loxins/dynabolts.
 - IF TIMBER - wood screw #20 or similar (min. 50mm)
- Attach the bracket and C-Rail with supplied pins (Fig. 11).

fig 15

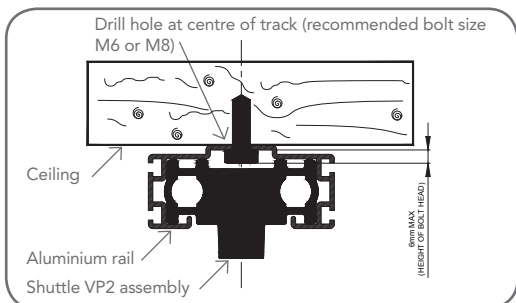


WARNING: Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform.

Step 10 - 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.18) 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's mounting holes (Fig. 12).
- To prevent moisture on the C-rail running into the powerhead it is recommended a strip of silicon sealant is placed across the top of the C-rail just before the opener.

fig 16



Step 10.1 - 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. 16).



Mounting Door Bracket & Arms

Step 11 - 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. 17).

- Mount the door bracket, or bracket assembly, on the door's centre line one-third down the top panel (Fig. 17) using M6 or equivalent screws (not supplied),
- STEEL DOORS ONLY: Bracket can be welded in place.

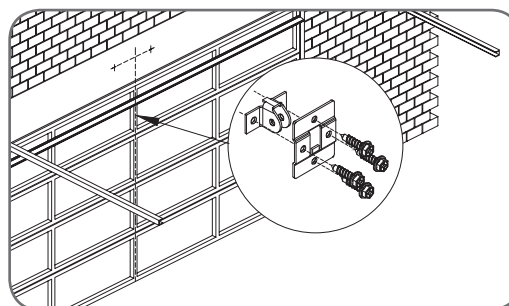


fig 17



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 12 - Attaching the Arms

FOR SECTIONAL AND ONE PIECE DOORS WITH TRACK:

- Assemble the bent arm (connecting to the door) to the right side of the straight arm (connecting to the shuttle) with bolts and nuts supplied in the accessory pack (Fig. 18). Always use both bent and straight arms.
- Connect the assembled arm to the bracket and the disengaged trolley with clevis and snap pins. The angle "A" must be more than 10° (Fig. 19). The bent section must be closest to the door.

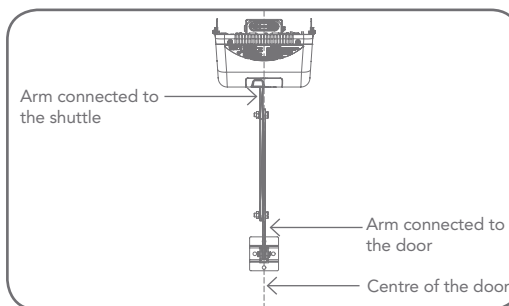


fig 18



WARNING: Connecting the bent arm the other way around may damage the door. The straight arm should not protrude beyond the heel of the bent arm.

FOR ONE PIECE DOORS WITHOUT TRACK

- Assemble the bent and straight arms as shown in (Fig. 20) 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. The bent section must be closest to the C-rail.
- If installing on a door with a bad wave action, lengthening the arm will assist in reducing this effect.

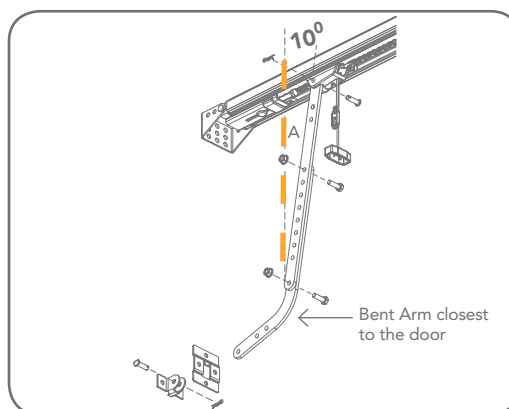


fig 19



IMPORTANT NOTE: Adjust the length of the cord so that its toggle is no more than 1.8m from the ground.

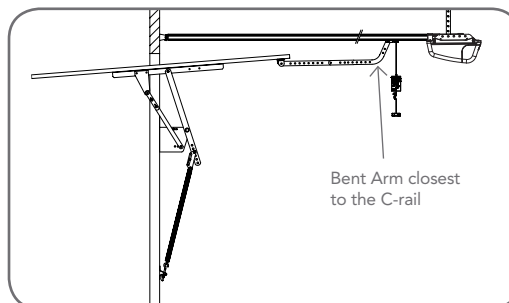
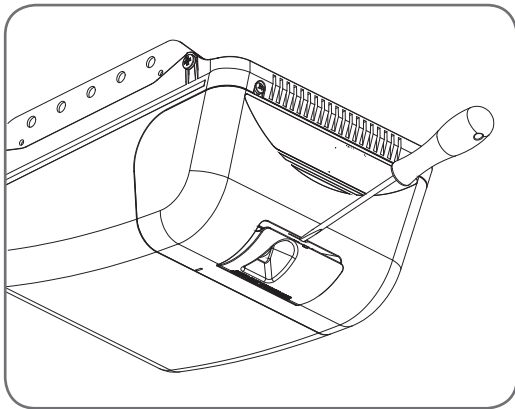


fig 20



Setting Speed and Limits

fig 21



Step 13 - Setting Speed Mode

The default speed of the opener has been set to suit the majority of applications. However, there are three speed modes available if required:-

1. Slow - to suit one piece door without tracks
2. Medium (default) - suits majority of applications
3. Fast - to suit some sectional applications

The speed settings can only be changed before setting the travel limits. If the opener speed needs to be changed please complete the steps below. If medium (default) mode is appropriate skip straight to step 13.1 setting travel limits. Pressing the operate button will cycle through all three speed modes. To change the speed setting:-

- a. Engage the C-Rail's trolley (attached to the door via the arms) with the chain index by moving the door.
- b. If the trolley does not "click" firmly onto the chain index, ensure that the manual release cord is not in the disengaged position by pulling it backwards.
- c. Turn on the power to the opener. The CLOSE LIMIT LED will be flashing.
- d. Remove the button cover with a blade screwdriver (**Fig. 21**).
- e. Press operate button once, twice or three times to select slow, medium or fast speed mode.

Door Opener Speed Mode	OPEN LED (Green)	CLOSE LED (Red)	Beeper
Medium (Default)	On	On	2 beeps
Fast	On	Off	3 beeps
Slow	Off	On	1 beep



Setting Speed and Limits

Setting Travel Limits : Via Control Panel Step 13.1 - Setting Travel Limits

NOTE: If Safety Beams are to be used they must be installed before setting the travel limits.

WARNING! Use caution when operating the manual release with the door open since it may fall rapidly due to weak or broken springs, or an improperly balanced door.

CAUTION! Do not disengage the opener to manual operation with children, persons or any objects including motor vehicles within the doorway.

- Engage the C-Rail's trolley (attached to the door via the arms) with the chain index by moving the door.
- If the trolley does not "click" firmly onto the chain index, ensure that the manual release cord is not in the disengaged position by pulling it backwards.
- Turn on the power to the opener. The CLOSE LIMIT LED will be flashing.
- Remove the button cover with a blade screwdriver (Fig. 22).
- Press and hold the MINUS (-) button - the door will start closing (Fig. 23).
- Release the MINUS (-) button when the door is near the desired closed position. Single presses of the MINUS (-) button will "inch" the door closed.
- If the door overshoots press the PLUS (+) button to move the door in the open direction.
- When the door is at the desired close position, press the SET button to record the close limit position. The OPEN LIMIT LED will now flash.
- Press and hold the PLUS (+) button to open the door (Fig. 24).
- Release the PLUS (+) button when the door is near the desired open position. Single presses of the PLUS (+) button will "inch" the door open.
- If the door overshoots press the MINUS (-) button to move the door in the close direction.

WARNING! Once the next step is performed, the door will automatically close and open to calculate force settings. Keep persons and objects clear of the door until it stops and the opener sounds a beep.

- Press the SET button to store the open limit. **Please read the above warning.**

Step 13.2 - Resetting Travel Limits

To reset the limits, press and hold the MINUS (-) button for 6 seconds until the CLOSE LIMIT LED flashes quickly. If no action is taken within 30 seconds, the opener will return to normal operating mode and restore the original settings.

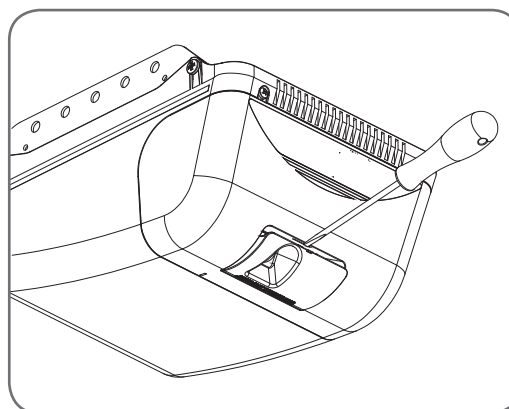


fig 22

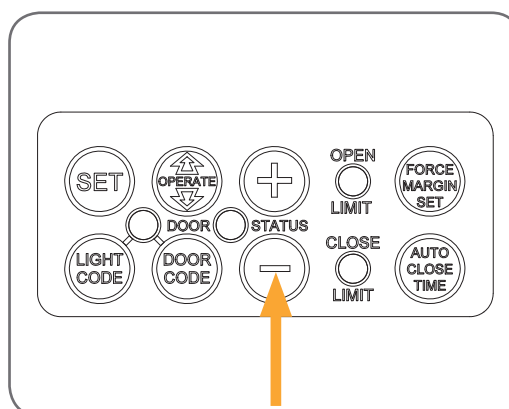


fig 23

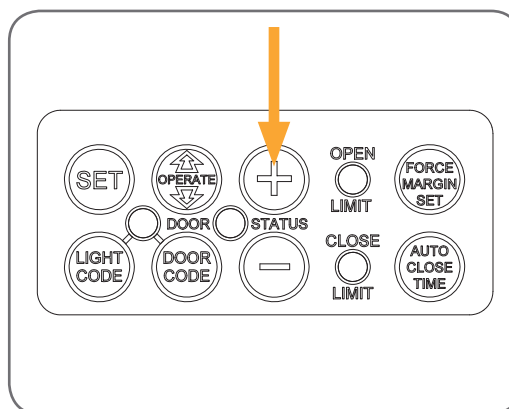
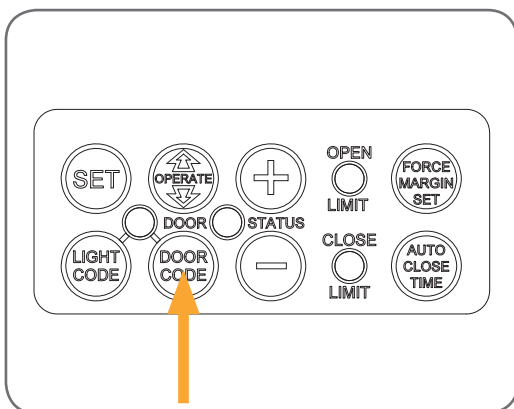


fig 24

Setting Speed and Limits

fig 25



Setting Travel Limits : Via Transmitter

The GDO-9v2 Enduro™ (Gen 2) has the alternate ability to set travel limits using the transmitter, allowing free movement around the garage to better assess the desired limit positions.

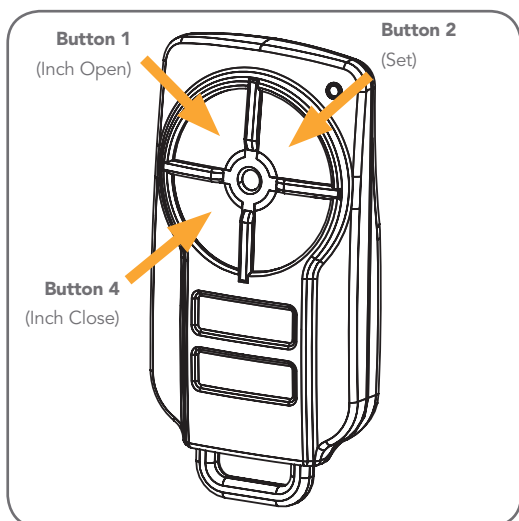
Step 14.1 - Code a Transmitter for Limit Setting

- Ensure the opener is powered up and button cover is removed.
- Press and hold the DOOR CODE button (Fig. 25).
- Press Button 1 on the transmitter for two seconds (Fig. 26). Release and pause for two seconds. Press the Button 1 again for two seconds.
- Release the DOOR CODE button.

Step 14.2 - Setting Limits via Transmitter

- Engage the C-Rail's trolley (attached to the door via the arms) with the chain or belt index by moving the door.
- If the trolley does not "click" firmly onto the chain index, pull the cord backwards until it locks in place, and try again.
- Press and hold Button 4 on the transmitter to close the door. When the door is approx. 20mm from the ground, release Button 4 (Fig. 26).
- Each press of Button 4 will allow you to "inch" the door closed. Keep doing this until the door reaches the desired close limit position.
- If the door overshoots, press Button 1 to "inch" the door towards open.
- When in the correct close limit position, press Button 2 to store this in memory.
- Press and hold Button 1 to open the door. When approx. 20mm from the desired open position, release Button 1.
- Each press of Button 1 will allow you to "inch" the door open. Keep doing this until the door reaches the desired open limit position.
- If the door overshoots, press Button 4 to "inch" the door towards closed.

fig 26



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

- When in the correct open limit position, press Button 2 on the transmitter to store into memory.
- The door will now automatically close, open and close to calculate the safety obstruction settings. After this, the opener can be operated with the OPERATE button.

Step 14.3 - Resetting the Door Limit Positions

Limit positions can be deleted by the following steps:

- Follow Steps 13.2, as outlined previously.
- Repeat Steps 14.1 and 14.2 to set new travel limit positions.
- There is no need to re-code the transmitter (Step 14.1) upon resetting travel limits. The transmitter will still be stored in memory.

Safety Obstruction Forces

Safety Obstruction Force Test



WARNING! Take care when testing or adjusting the Safety Obstruction Force. Excessive force may cause **SERIOUS PERSONAL INJURY** and/or **PROPERTY DAMAGE**.



WARNING! Photo electric beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40kg) force.

Step 15.1 - Testing Close Cycle

- Press the OPERATE button to open the door (**Fig. 27**).
- Place a piece of timber approximately 40mm high on the floor directly under the door (**Fig. 34**).
- Press the OPERATE button to close door. The door should strike the object and start to re-open.

Step 15.2 - Testing Open Cycle

- Press the OPERATE button to close the door (**Fig. 28**).
- 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.
- If the door does not reverse readily when closing, or stop when opening, the force may be excessive and need adjusting, refer below.



DANGER! If the door fails these tests, put the opener into manual mode, only operate the door by hand and call for service.

NOTE: Once the travel limits are set and safety obstruction force tested check the chain or belt tension. As per the sticker on the C-rail the chain or belt should sag slightly, so there is a 5mm gap between the bottom of the C-rail and the chain or belt. The tension can be varied by using a spanner to adjust the bolt at the door end of the C-rail. Be sure not to over-tension the chain or belt as this can cause damage to the C-rail or opener.

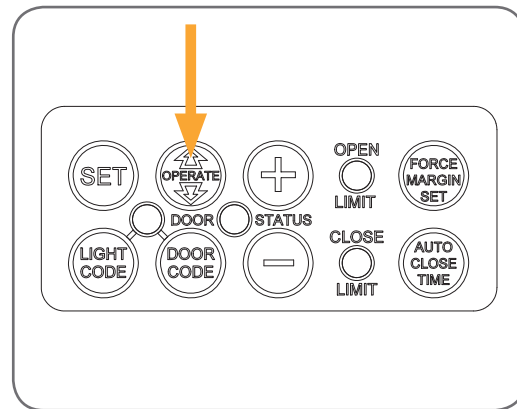


fig 27

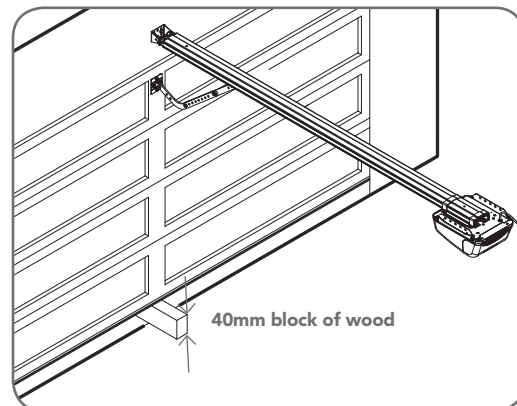
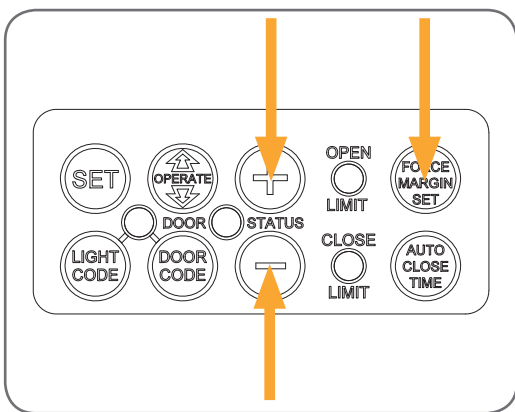


fig 28



Safety Obstruction Forces

fig 29



Adjusting Safety Obstruction Force

The Safety Obstruction Force is calculated automatically during setup. Adjusting this is normally only necessitated by environmental conditions such as windy or dusty areas, and areas with extreme temperature changes.



WARNING! Photo electric beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40kg) force.

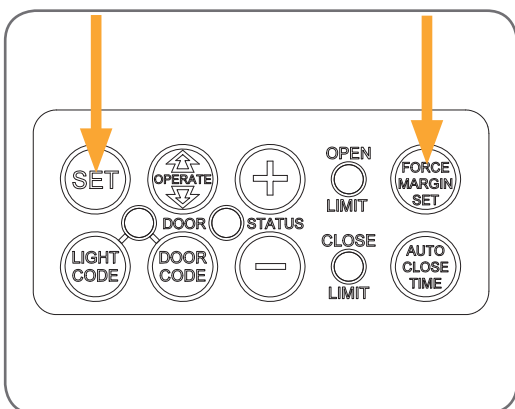
Step 16.1 - To Increase Force Pressure

- Hold down FORCE MARGIN SET button (Fig. 29)
- While holding the FORCE MARGIN SET button, press the PLUS (+) button. Each press increases the force margin (Fig. 29).
- The OPEN LIMIT LED will flash each time the PLUS (+) button is pressed to indicate a force increase
- If the OPEN LIMIT LED is on continuously when pressing the PLUS (+) button, this indicates that the maximum setting has been reached.
- Test the force again as per Steps 15.1 and 15.2

Step 16.2 - To Decrease Force Pressure

- Hold down FORCE MARGIN SET button (Fig. 29)
- While holding the FORCE MARGIN SET button, press the MINUS (-) button. Each press decreases the force margin (Fig. 29).
- The CLOSE LIMIT LED will flash each time the MINUS (-) button is pressed to indicate a force decrease.
- If the CLOSE LIMIT LED is on continuously when pressing the MINUS (-) button this indicates that the maximum setting has been reached.
- Test the force again as per Steps 15.1 and 15.2

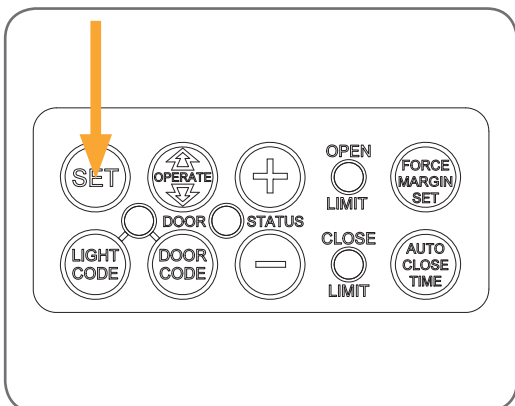
fig 30



Step 16.3 - To Recall Factory Set Force

- While holding down the FORCE MARGIN SET button, press the SET button for two (2) seconds. (Fig. 30)
- Release both buttons. The default setting should now be recalled.

fig 31



Step 16.4 - To Recalculate Force Margins

- Press and hold the SET Button for two (2) seconds, the beeper will sound once (Fig. 31).
- The door will start to move and re-calculate force margins. The door can move between the open and close limit positions up to four (4) times (depending on the position of the door and the power up condition).
- A single beep will be heard once the process is complete.
- Test the force again as per Steps 15.1 and 15.2.

Coding Transmitters

Step 17.1 - Code a Transmitter Button for Door Operation

- Ensure the button cover is removed
- Press and hold the DOOR CODE button (Fig. 32).
- Press one of the four buttons on the transmitter for two (2) seconds, pause for two (2) seconds, then press the same button again for two (2) seconds.
- Release the DOOR CODE BUTTON.
- Press the transmitter button to test.

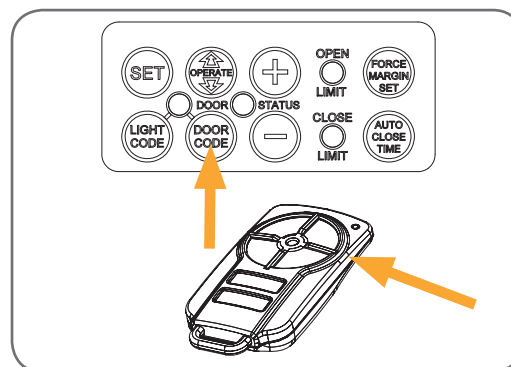


fig 32

Step 17.2 - Code a Transmitter Button to Enable Vacation mode

The opener can be programmed into a "Vacation Mode" where the opener will not respond to any transmitter except the button of the transmitter that was programmed for vacation mode.

- Briefly press the DOOR CODE button once, then press it again and hold (will beep two times on second press (Fig. 33).
- Press one of the four (4) buttons on the transmitter for two (2) seconds, pause for two (2) seconds, then press the same button again for two (2) seconds.
- Release DOOR CODE button.
- Press and hold the transmitter button for six (6) seconds to set Vacation Mode. The door code LED will stay lit while Vacation Mode is active.
- To reset Vacation Mode, press the same button for two seconds.

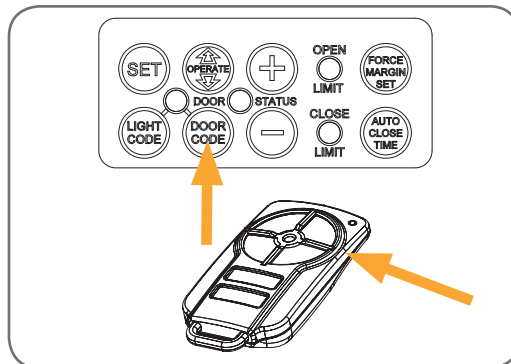


fig 33

Step 17.3 - Code a Transmitter Button to Enable AUX OUTPUT

- Briefly press the DOOR CODE button two (2) times, then press it again and hold (will beep three times on third press (Fig. 34)).
- Press one of the four buttons on the transmitter for two (2) seconds, pause for two (2) seconds, then press the same button again for two (2) second.
- Release the DOOR CODE button.
- Press the transmitter button to test.

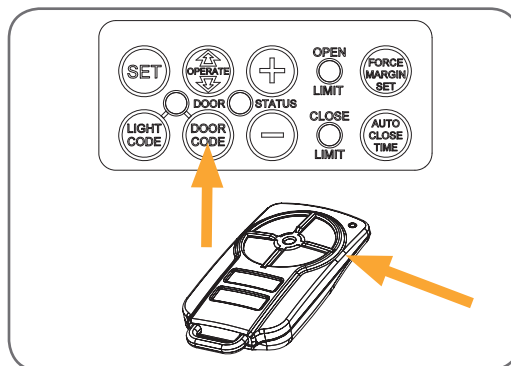


fig 34

Step 17.4 - Code a Transmitter Button for Pet (Pedestrian) Mode

- Briefly press the DOOR CODE button three times, then press it again and hold (will beep four times on fourth press (Fig. 35)).
 - Press one of the four buttons on the transmitter for two (2) seconds, pause for two (2) seconds, then press the same button again for two (2) seconds.
 - Release the DOOR CODE button.
 - Press the transmitter button to test.
- To change the default pet (pedestrian) door opening position, refer Step 24.

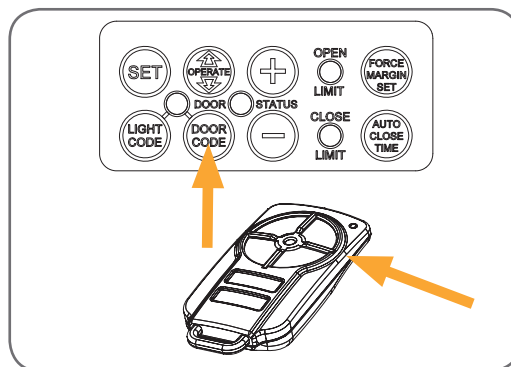


fig 35

Coding Transmitters

fig 36

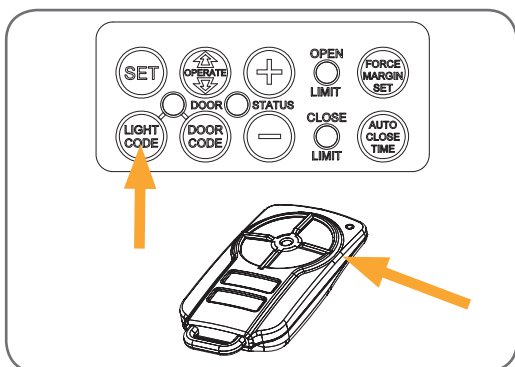


fig 37

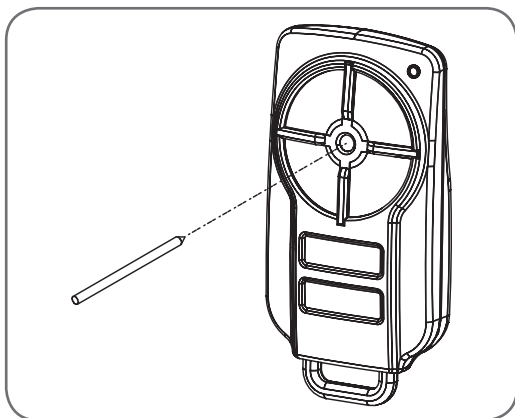
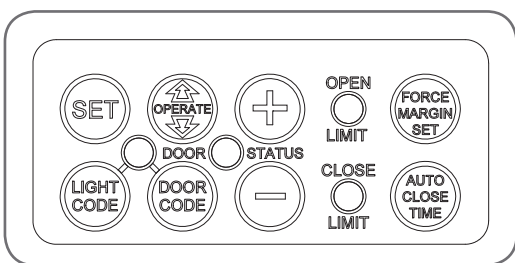


fig 38



Step 17.5 - Coding a Transmitter Button to the Courtesy Light

The transmitter can be programmed to operate the courtesy light on the opener independently of the door moving.

- Press and hold LIGHT CODE button (Fig. 36).
- Press one of the four buttons on the transmitter for two (2) seconds, pause for two (2) seconds, then press the same button again for two (2) seconds.
- Release the LIGHT CODE button.
- Press the transmitter button to test.

Step 18 - Remotely Coding Transmitters

Using this method transmitters can be coded without access to the opener's control panel as long as a pre-coded transmitter is available.



IMPORTANT NOTE: The door or courtesy light must activate when the steps below are performed. This indicates that the pre-coded transmitter is in range of the opener, and the correct button has been pressed.

- Take any pre-coded transmitter. Press the button for the function to be duplicated and release.
- Using a small needle, press and hold firmly for two seconds through the Coding Hole (Fig. 37).
- WITHIN 10 SECONDS take the additional transmitter you wish to code. Decide which button that you want to activate the function to be duplicated (e.g. activate the door, or turn on the courtesy light)
- Hold the new transmitter's button for two seconds, pause for two seconds, hold again for two seconds and then release.
- Wait for 10 seconds and then press the new transmitter's button to test.

Step 18.1 - Erasing a Stored Transmitter Code

- Select the transmitter you want to delete.
- Press and hold the DOOR CODE BUTTON (Fig. 38).
- Press the transmitter button you would like to delete for two seconds, pause for two seconds, press again for two seconds and then release.
- Release the DOOR CODE BUTTON. The code should now be deleted. Confirm this by pressing the transmitter button - the function (e.g. door opening) should not respond.

Step 18.2 - Erasing All Transmitter Codes

- Turn off power to the opener.
- While switched off, press and hold the DOOR CODE BUTTON (Fig. 38). Turn on power to the opener while holding this button.
- The OPEN LIMIT, CLOSE LIMIT and DOOR STATUS LEDs will illuminate for about five seconds. These LEDs will turn off and the CODING LED will illuminate.
- Release the DOOR CODE BUTTON. All stored codes will now be deleted. Confirm this pressing buttons on any previously coded transmitters - the opener should not respond.

Wired Safety Beams Installation

Step 19 - Safety Beams (optional)

Safety Beams extend across the garage door opening. The Safety Beam is designed to detect an obstruction while the door is closing and to send a signal to the garage door opener to reverse or stop the door movement. One or two sets of Safety Beams can be connected to GDO-9v2 Enduro™ Gen 2 opener.

Step 19.1 - Fitting the Safety Beam

- Attach the mounting bracket (4) to the adjustment bracket (3) with the pan head screw (6) (supplied). (Fig. 39)
- Attach the bracket (2) to the Safety Beam transmitter with four taptite screws (m3x5) and attach the other side to the adjustment bracket (3) with the pan head screw (6) . (Fig. 40)
- Repeat steps a and b to assemble the Safety Beam receiver.
- Mount the receiver to one side of the door and transmitter on the other side in line with receiver. The mounting surface should be rigid. ATA recommends the transmitter and receiver are placed in line of sight, with the beam 100mm above ground level (as per AS60335). They should also be placed as close as possible to the door opening. Connect as per the wiring diagram (Fig. 41).

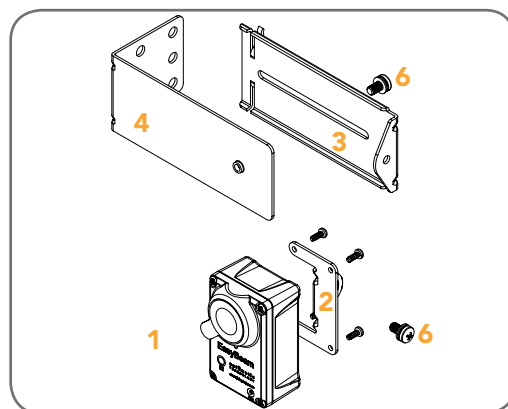


fig 39

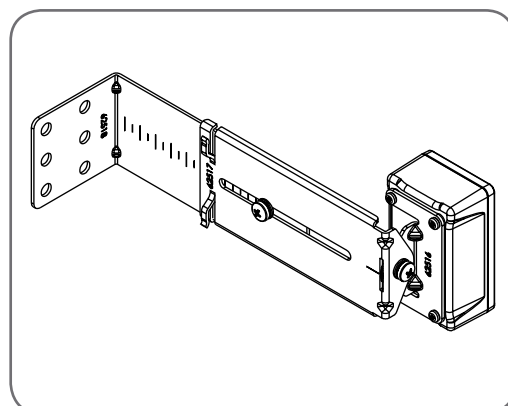


fig 40

Step 19.2 - Alignment

- Power up the opener with the Safety Beam connected. The green LED on the transmitter should turn ON to indicate power is present.
- If the receiver is connected to power and the red LED is flashing while the green LED on the transmitter is on, the transmitter and receiver are not aligned.
- Make horizontal and/or vertical adjustment on the transmitter and/or receiver until the red LED on the receiver turns on, indicating alignment.



NOTE: The sensors need to be 100mm above the floor level, however, the exact position must be chosen in such a manner that it suits the application, the environmental conditions and provides maximum safety protection.



WARNING: Safety Beam must be installed if the closing force as measured at the bottom edge of the door exceeds 400N (40kg).

NOTE: Three wire Safety Beam is not compatible with GDO-9v2 Enduro™ Gen 2 opener.

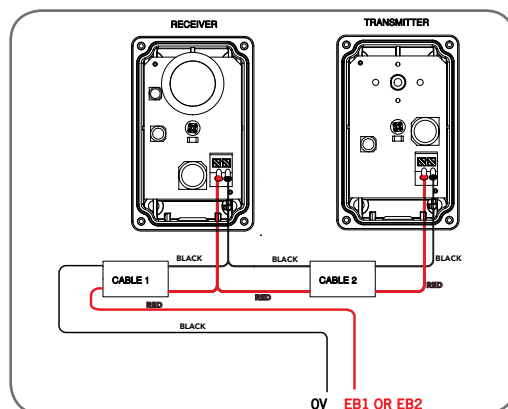


fig 41

GDO-9v2 Enduro™ Gen 2 is compatible with wireless safety beams. Please refer to instructions provided with wireless safety beams for installation details.

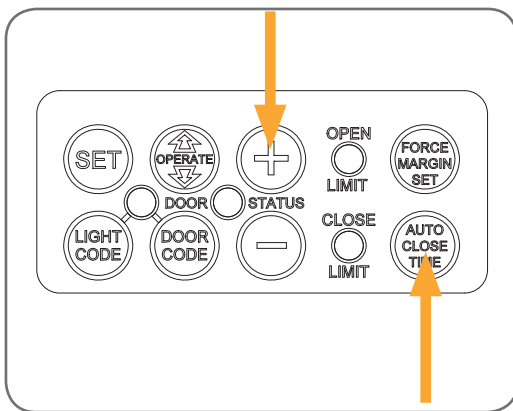
Wired Safety Beams Installation

Step 19.2 - Safety Beam Failure Emergency Close

When the user finds that they are unable to move the door and suspect that it is due to a faulty SAFETY BEAM they can attempt to enter Safety Beam Failure Emergency Close mode by press and holding a pre-coded button on the remote control or OSC button on the console for five seconds.

Auto-close Setup

fig 42



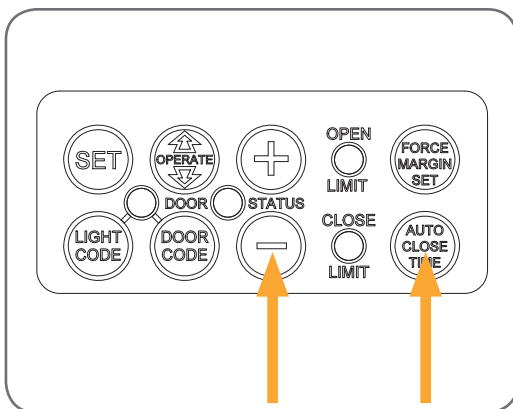
WARNING: It is compulsory to have Safety Beams installed when using Auto-Close mode. When using Auto-Close Mode and Safety Beams, the doorway must be clear of all obstructions and persons at all times.

Step 20 - Setting Up Auto-Close Mode

Auto-Close mode is a function that automatically closes the door a preset time after the PE Beams recognise that a vehicle has left the garage.

The Auto-Close timer only starts after the PE Beam's path is broken the Auto-Close timer has been set. If the PE Beam's path is not broken the door will remain open until the path is broken. If the opener incurs a physical obstruction (i.e. not from the PE Beams) while closing the door, it will re-open and not Auto-Close until the PE Beam's path is broken again.

fig 43



Step 20.1 - Setting Auto-Close Time

- Hold down the AUTO CLOSE TIME button.
- While holding in the AUTO CLOSE TIME button, press the PLUS (+) button, - each press will add one second to the Auto-Close delay (Fig. 42).
- To decrease the delay time follow Step 21.1(a) and press the MINUS (-) button - each press will deduct one second from the Auto-Close delay (Fig. 43).
- Press the OPERATE button or transmitter to open the door.
- Break the Safety Beam's path momentarily to initialise Auto-Close. When the door is fully opened the OPEN LIMIT LED will flash to indicate that Auto-Close mode is operational.
- The door will pause for the set Auto-Close time and then close.

Battery Backup Installation

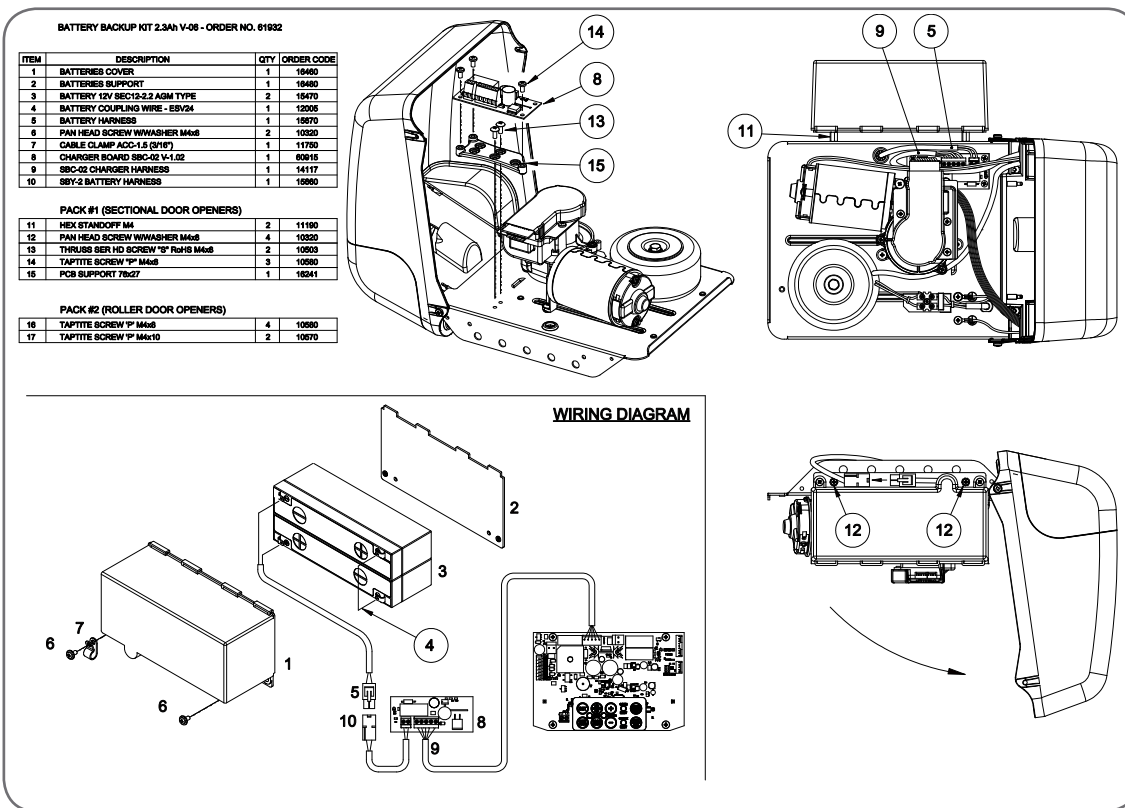


fig 44

Battery Backup Installation

Step 21.1 - Connect the Battery Back Up Kit

- Disconnect power to the opener.
- Remove screws and swing open the cover (Fig 44).
- Mount the PCB support with two screws item # 13. Secure the SBCO-2 Charger Board onto the PCB support with three (3) screws item #14.
- Feed the 2-wire battery harness item # 10 through the grommet on the base plate and connect to SBCO-2 battery charger board.
- Feed charger harness from SBCO-2 battery charger board to the control board and plug onto the 5 pin connector marked "SBCO-2" on the control board.
- Mount Battery Backup and secure with item 11 and 12.



WARNING: After Step 21.1(g) the opener may become active (even when power is off). This is a result of a residual charge in the batteries.

- Connect battery harnesses item 5 and 10 together (Fig 44).
- Reconnect power.

Step 21.2 - Testing Battery Back Up

- Press either the OPERATE button or transmitter to test the opener.
- Whilst door is in motion, disconnect mains power the door should continue to operate as normal.

NOTE: Wait for the door to complete its travel.

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

Step 21.3 - Troubleshooting

If door stops or moves very slowly under battery power, the batteries may be weak or have no charge. Connect mains power and allow the batteries to charge. This may take 24 - 48 hours to reach maximum charge capacity.

SmartSolar™ Installation

Fig 45

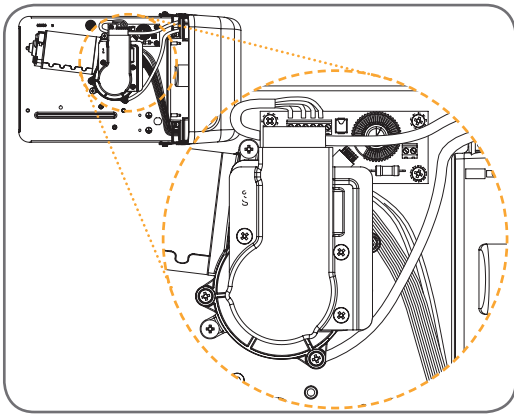


Fig 46

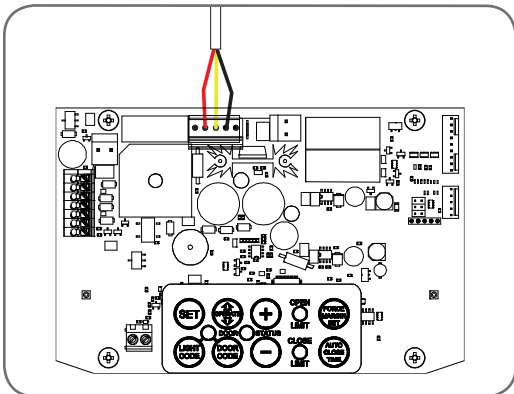


Fig 47

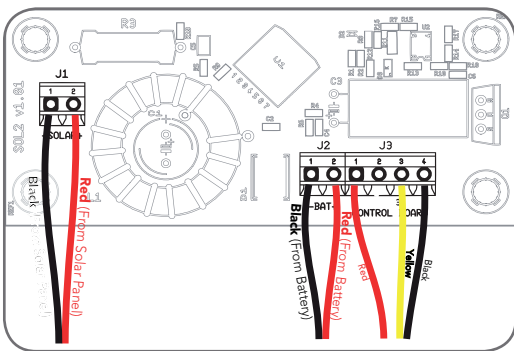
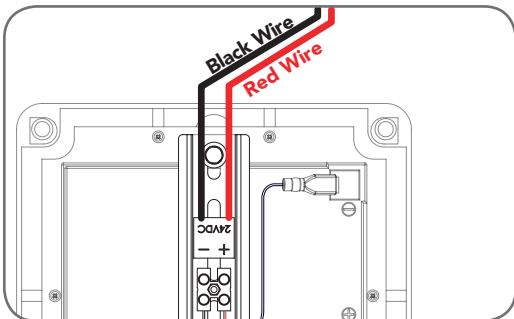


Fig 48



WARNING: Do not connect batteries until Step 22.3

Step 22.1 - Mount the Charger Board

- Unplug the drive unit from mains power.
- Remove the screws, swing open the main cover and remove the light diffuser. Then remove the transformer, EMC board (if fitted) and mains power cable.
- Mount the PCB support with two screws. Secure the SOL charger board on to PCB support with 3 screws. (Fig. 45).
- Unplug the shunt & plug the solar charger Board's three wire harness (red/yellow/black) into the control board's "SBCO-2" connector on the control board (Fig. 46).
- Plug the solar shunt (supplied) onto the control board's "Jp1" connector marked "solar" (Fig. 46)



IMPORTANT WARNING: Do not connect battery or solar panel polarity incorrectly - this will result in serious damage to components.

Step 22.2 - Connect the Solar Panel

- Mount the solar panel as outlined in the SmartSolar™ Installation Manual.
- Feed the Solar Panel's cable through black grommet located on the top of the plastic drive unit cover.
- Connect the **red wire** to the Charger Board's "SOLAR+" connector, and the **black wire** to the "-SOLAR" connector (Fig. 47).



WARNING: During Step 22.3 the opener will become active.

Step 22.3 - Mount & Connect the Battery

- Mount the Battery Box close to the opener.
- Feed the 2-core 18awg gauge cable (supplied) through the Battery Box's grommet.
- Connect the **red wire** to the Battery Box's "+" terminal, and the **black wire** to the "-" terminal (Fig. 48).
- Feed the other end of the battery cable through the drive unit's black grommet.
- Connect the **red wire** to the Charger Board's "BAT+" connector, and the **black wire** to the "-BAT" connector (Fig. 47).
- Refit the light diffuser and main cover.

Step 22.4 - Re-setup and Test the Opener

- Setup travel limits and code transmitters as per the GDO-9v2 Enduro™ (Gen 2) instruction manual.
- Press either the OPERATE button or use a transmitter to operate the opener.



Final Setup

Step 23 - Setting of Courtesy Light Time

The preset courtesy light time is three minutes. This time can only be changed by "PG3" programmer.

Step 24 - Setting the Pet Mode position

The default Pet Mode height can be changed as follows:

- Drive and stop the door at the desired Pet Mode open position by pressing OPERATE button on the console or the transmitter button coded for O/S/C operation.
- Press and hold the OPEN button (Fig 49) for six (6) seconds until the OPEN and CLOSE LED's are lit to record the new pet position.

When activated, Pet Mode drives the door to the preset position from the close position. Pet Mode's active status is indicated by both the OPEN and CLOSE LIMIT LED's being illuminated. If a Pet Mode button is pressed while the door is moving, the door will stop. If a Pet Mode button is pressed when the door is in the Pet position, then the door will close.

Step 25 - Installing the Wall Mounted Transmitter (Optional)

- Remove the faceplate from the transmitter.
- Affix the baseplate in a convenient wall location that is out of reach of children and convenient to the customer (Fig 50). Make sure the door is visible from this location.
- Replace the faceplate.
- To code the transmitter, see Steps 17.1 through 17.5 on page 21 and 22.

Step 26 - Reset all Factory Defaults

- Turn power to opener off.
- Press and hold the SET Button (Fig 51).
- Turn power on while holding the SET button. Continue to hold until all the LED's are off.
- This will not erase transmitter codes stored in memory.

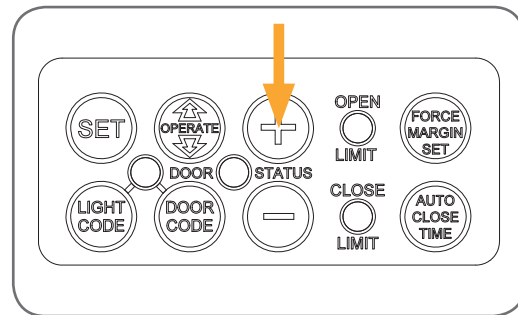


fig 49

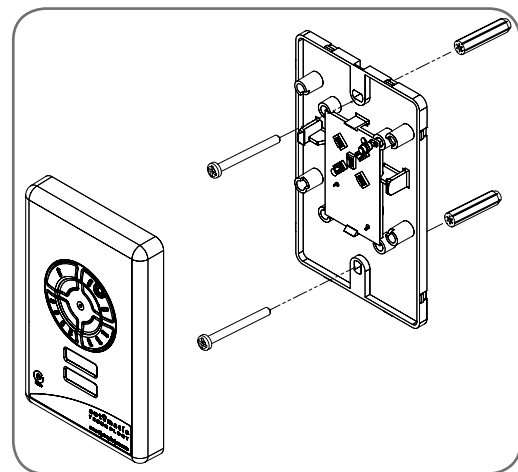


fig 50

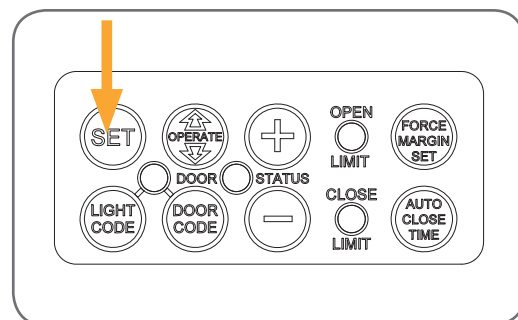


fig 51

Default Settings & Specifications

Factory default settings

	Default	Step	Maximum
Courtesy light time	3 Mins.		4 Mins.
Obstruction force margin	0.7 Amps	0.1 Amps	2.0 Amps
Auto close time	0 Secs	1 Sec.	255 Secs.
Speed Mode	Medium	1	Fast
Maintenance counter	3000 Cycles	-	-

Technical specifications

Power supply	230V - 240V AC 50Hz 220V AC 60Hz Export Model
Transformer rating	24V DC
Standby power	2.2 Watts
Input power	200 Watts
Motor type	24V DC permanent magnet
Shuttle travel distance in the C-Rail	2.8m approx. (standard 3160 mm C-rail)
Maximum shuttle travel distance in the C-Rail	5m (with extended C-Rail)
Maximum door opening: Width x Height Weight:	18m ² 100 kg
Minimum Clearance (Bottom of C-Rail to highest point of door travel)	40 mm
Rated load	500N (50kg)
Nominal force	150N (15kg)
Receiver code storage capacity	64 x 4 button transmitter codes
Transmitter frequency	TrioCode™ type
Coding type	Multi-frequency Code hopping
Number of code combinations	Over 4.29 billion random codes
Code generation	Non-linear encryption algorithm
Transmitter battery	CR 2032, 3 Volts
Courtesy light	Bright LED
Controller fuse	10A slow blow





Door Status Indicators

Door Opener State	OPEN LED (Green)	CLOSE LED (Red)	STATUS LED (Yellow)	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 as door moves
Opener overloaded	Alternating flashes	Alternating flashes		
Door in open position with Auto-Close mode selected	One second flashes			
Pet Mode Engaged	On	On		
Mains power interrupted	Rapid flashes			
Service Due			On	3 Beeps At The Start Of Each Cycle

Button Functions

Buttons	Function
OPERATE	Change speed mode, Opens/Stops/Closes the door, pressing & holding will close the door in the event of safety beam failure.
DOOR CODE	Codes a transmitter button for operate, vocation, auxiliary and pedestrian functions
LIGHT CODE	Codes a transmitter button for light 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) SET	Resets the factory default force margin settings
AUTO CLOSE TIME (then) PLUS (+)	Increases the auto close delay time
AUTO CLOSE TIME (then) MINUS (-)	Decreases the auto close delay time
AUTO CLOSE TIME (then) SET	Resets the factory default auto close delay time
MINUS (-) for 6 secs.	Clears the door limits set positions. Limits then need to be reset
PLUS (+) for 6 secs.	Enters pet (pedestrian) position mode
SET (then power on) & hold until all LED's are off	Deletes control parameters excluding transmitter storage memory
DOOR CODE (then power on) & hold until all LED's are off	Deletes all transmitter storage memory
SET & DOOR CODE (the power on) and hold until all LED's are off	Deletes all control parameters and transmitter storage memory.
SET	Re-initialises the Opener to re-calculate force margin



Troubleshooting Guide

Symptom	Possible cause	Remedy
Door will not operate	Mains power not switched on Door is obstructed Door is locked or motor jammed Door tracks/hardware damaged	Switch on mains power Remove obstruction Unlock door or remove jam 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 Possible obstruction in the doorway	Increase force margin setting. See Step 16 on page 22 Remove obstruction
Door operates from drive unit (operate) button but not from transmitter.	Transmitter code not stored in memory Flat battery	Code transmitter into opener's memory. Refer Step 17.1 on page 23 Replace battery
Door will not close fully	Door limits position need to be reset	Reset limits positions. Refer Step 14.3 on page 20
Door will not open fully	Door limits position need to be reset	Reset limits positions. Refer Step 14.3 on page 20
Courtesy light not working	Faulty light	Replace globe or LED module
Auto close not working	PE Beam or wiring faulty PE Beam is obstructed Door obstructed when closing Auto-close time not set	Repair PE Beam or replace wiring Re-align optics. See PE Beam's instructions Remove obstruction from the path of PE Beam Remove obstruction See Step 20 on page 26
Opener beeps and flashes at the end of each operation	Service is due on the door and opener	Please refer to page 30 or sticker on the back of the door for more information

PLEASE 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 trigger the safety obstruction detection system intermittently.

Safety Beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40 kg) force



Maintenance

Maintenance

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 40mm high object placed on the floor (AS3350).

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

Maintenance counter

GDO-9v2 Enduro™ (Gen 2) has a built in maintenance counter. From factory this is loaded with 3000 cycles. When this counter expires, the service yellow LED will light up. At the start of each door movement the beeper will sound three times. After opening or closing the door the courtesy light will flash and beeper sound five times.

At this time Automatic Technology recommends you contact your door professional to perform an annual door service.

When maintenance counter is active it can be reloaded with 3000 cycles by press and holding the SET button on the console.



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.



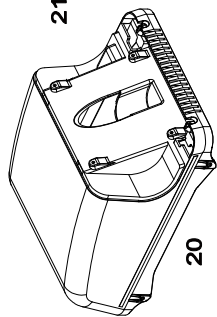
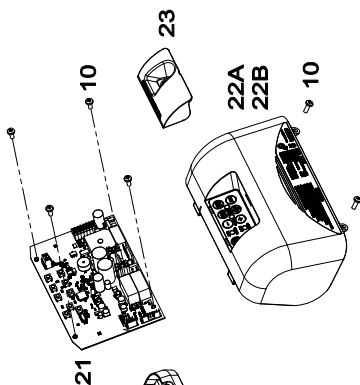
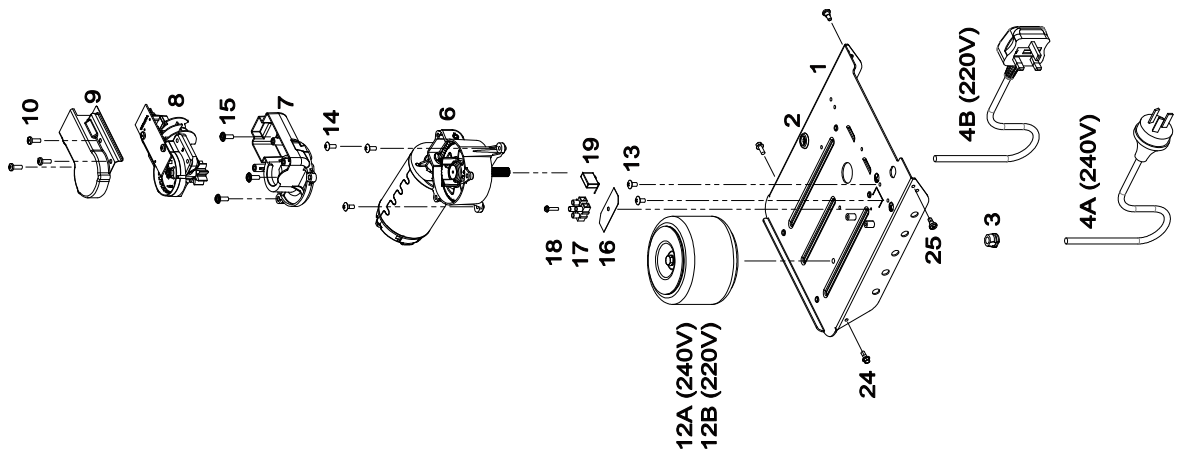
WARNING! Failure to maintain your garage door may void the warranty on your garage door opener.

Service Record

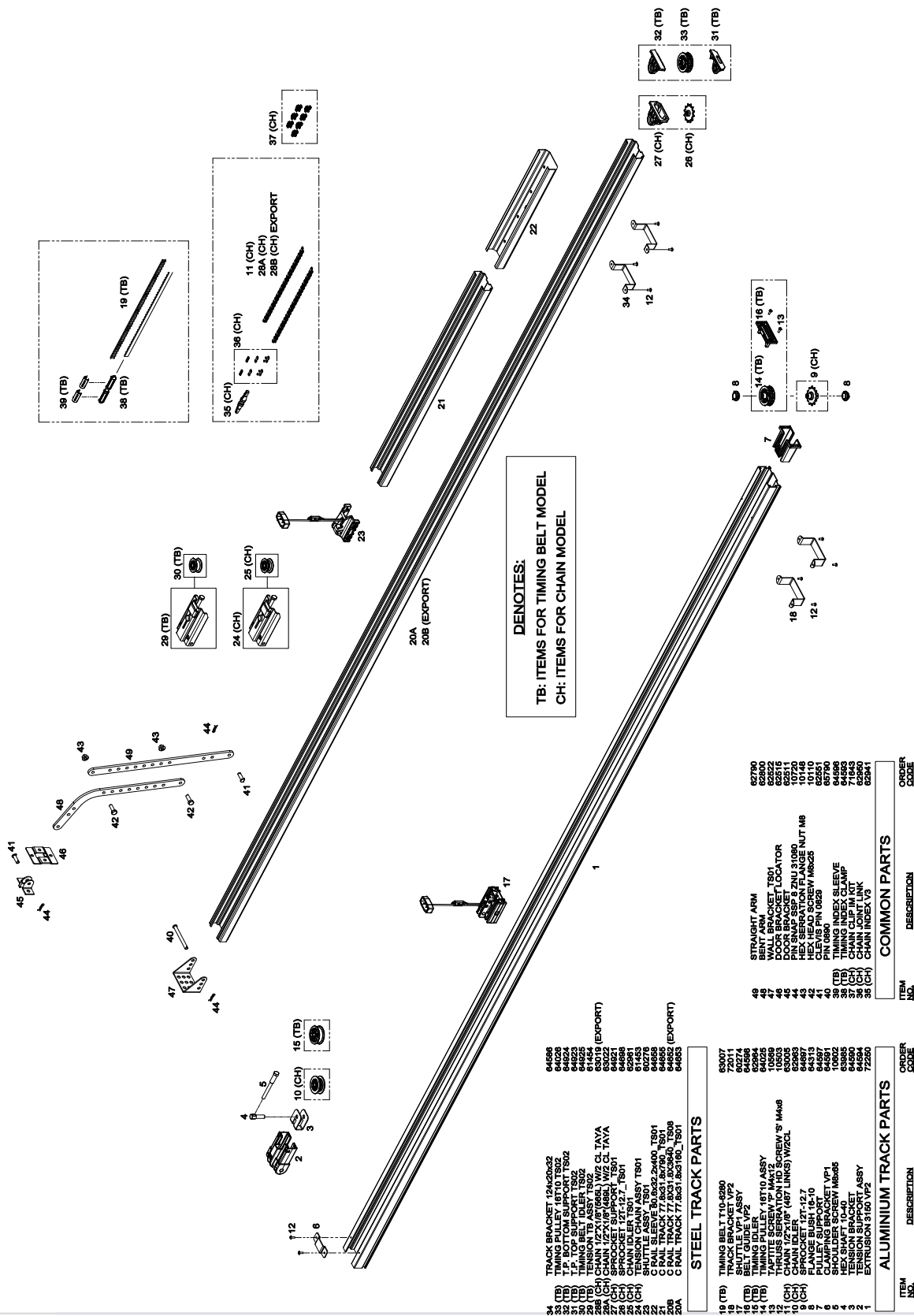
Record any maintenance in the following table to assist in any warranty service.

Date	Service by	Signature	Invoice No.	Amount

Parts List



ITEM NO.	DESCRIPTION	ORDER CODE
25	SHOULDER SCREW 5-M4x6	10603
24	FLANGE TAPTITE SCREW 'S' M4x10	10497
23	CONTROLS COVER SP VP1 TOR	63214
22B	LIGHT DIFFUSER GDO-9V2GEN2 BS AY	65128 (EXPORT)
22A	LIGHT DIFFUSER GDO-9V2GEN2 AY	65139
21	GDO-9V2G2 C.B. DCB08-1.02-520F	60788
20	MAIN COVER 9V2 GEN2 ENDURO SP AY	63252
19	CAP POLYFILM 0.1UF K X2 275VAC	67575
18	PAN HEAD SCREW W/T L WASHER M3x 14	10361
17	TERMINAL BLOCK 500/02DS 2 POS	65421
16	TERMINAL BLOCK SHIELD	14057
15	PAN SERRATION HEAD SCREW M4 x 12	10380
14	THRUS SERRATION HD SCREW 'S' M4x10	10504
13	THRUS SERRATION HD SCREW 'S' M4x8	10503
12B	TRANSFORMER TDB-150-90-220Vac KIT (220V)	62027 (EXPORT)
12A	TRANSFORMER TDB-150-08 KIT (240V)	62025
11	TIMING HARNESS 350 ASSY	61792
10	TAPTITE SCREW 'P' M4x12	10569
9	DUST COVER TOP	63223
8	TIMING ASSY	61732
7	TIMING SUPPORT GMA-18(ALPS)	16233
6	GEARED MOTOR GMA-19-59-Y84	60339
5	WIRE EARTH ASSY 230L	12150
4B	POWER CORD B.S. 1.5m W2PIN+1RING	65677 (EXPORT)
4A	POWER CORD 1.5M W2PIN+1R	14150
3	CORD GRIP GROMMET SB5P-2	65606
2	GROMMET 101422	65603
1	METAL CHASSIS VP1-3 ASSY	62783



STEEL TRACK PARTS

34 (TB)	TRACK BRACKET 12x20x32	64698
35 (TB)	TIMING PULLEY 18T10 T802	64026
31 (TB)	T.P. TOP SUPPORT T802	64823
30 (TB)	TIMING BELT ASSEMBLY T802	64445
28B (CH)	CHAIN 1/2"X(5/16) W/ CL TAVA	65019 (EXPORT)
28A (CH)	SPROCKET 12T-127, T801	64898
27 (CH)	SPROCKET 12T-127, T801	64898
26 (CH)	TENSION CHAIN ASSY T801	611453
24 (CH)	SHUTTLE ASSY T801	60276
23	C RAIL TRACK 77.8x31.8x340, T801	64855
21	C RAIL TRACK 77.8x31.8x340, T801	64855
20B	C RAIL TRACK 77.8x31.8x340, T801	64855 (EXPORT)
20A	C RAIL TRACK 77.8x31.8x340, T801	64855 (EXPORT)

ALUMINIUM TRACK PARTS

18 (TB)	TIMING BELT T10-6280	65007
17	SHUTTLE VPI ASSY	60274
16 (TB)	BELT GUIDE VPI	64596
14 (TB)	TIMING PULLEY 18T10 ASSY	64026
13	TIMING PULLEY 18T10 ASSY	10059
11 (CH)	THRU-BUSH SERRATION M10 SCREW 5" M4x8	65005
10 (CH)	CHAIN 1/2"X(1/8) (48 LINKS) W/CL	64897
9 (CH)	SPROCKET 12T-127	64897
8	FLANGE BUSH 16-10	64319
6	SHOULDER SCREW M8x6	64891
5	CLAMPING BRACKET VPI	10002
4	TENSION BRACKET	64890
3	TENSION SUPPORT ASSY	65004
2	PERISCOPE GUIDE VPI	72294

COMMON PARTS

48	STRAIGHT ARM	62700
47	BENT ARM	62800
46	DOOR BRACKET LOCAL	62512
45	DOOR BRACKET	62511
44	HEX HEAD SCREW M8x25	10148
43	HEX HEAD SCREW M8x25	10110
42	PHI 08x8	85780
40	PHI 08x8	85780
39 (TB)	TIMING INDEX SLEEVE	64896
38 (TB)	CHAIN CLIP IN KIT	64896
37 (CH)	CHAIN JOINT LINK	71843
36 (CH)	CHAIN JOINT LINK	62990
35 (CH)	CHAIN JOINT LINK	62941

DENOTES:
TB: ITEMS FOR TIMING BELT MODEL
CH: ITEMS FOR CHAIN MODEL



Important Safety Checks

Please refer to the risk assessment table below and ensure all the necessary controls are in place.

Installation Risk Assessment

Hazard	Control
Muscular strain from incorrect lifting of opener	<ul style="list-style-type: none"> Practice correct lifting techniques (carton weighs 9 kg)
Muscular strain from incorrect lifting of door	<ul style="list-style-type: none"> Practice correct lifting techniques when required to lift the door as per installation instructions
Entanglement in operating Opener	<ul style="list-style-type: none"> Never plug in and operate prior to installation
Fall from ladder	<ul style="list-style-type: none"> Ensure ladder is the correct type for job Ensure ladder is on flat ground Ensure user has 3 points of contact while on ladder

Testing and Operation Risk Assessment

Hazard	Control
Entrapment under operating door	<ul style="list-style-type: none"> Keep children clear of operating door Ensure the garage door is in good working order Correctly set the Safety Obstruction Force Install Photo Electric Beams (recommended) Do not operate door when persons are near the door
Entanglement in moving door	<ul style="list-style-type: none"> Keep hands and loose clothing clear of door and guides at all times
Entanglement in operating Opener	<ul style="list-style-type: none"> Never plug in and operate prior to installation
Electrocution	<ul style="list-style-type: none"> Place opener in protected area so that it does not get wet Do not spray with water Do not open the protective covers Do not operate opener if cable is damaged



Warranty and Exclusion of Liability

1. This Warranty is given by Automatic Technology (Australia) Pty Ltd (ABN 11 007 125 368) (ATA), 6-8 Fiveways Boulevard, Keysborough 3173, 1300 133 944, sales@ata-aust.com.au
 2. The Competition and Consumer Act 2010 (including the Australian Consumer Law) and other relevant statutes provide a set of statutory consumer guarantees and other legal rights that cannot be excluded, restricted or modified by contract. This Warranty is in addition to and does not affect any of your rights under the Australian Consumer Law and other relevant statutes.
 3. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation of any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
 4. Subject to your non-excludable rights under the Australian Consumer Law, ATA expressly excludes any liability for consequential loss, incidental or indirect damages (including but not limited to damages for loss of business profits, business interruption and loss of business information) due to a defect of the GDO-9v2 Enduro™ (Gen 2) (Product). In particular any loss or damage caused to other equipment or accessories used with the product or any loss resulting from a delay in repair is excluded to extent permitted by law.
 5. Subject to all of the matters set out below, ATA warrants in relation to the Product that:
 - (a) the Product's drive units will be free of any defects in material and workmanship for at least 24 months after the date of purchase (as evidenced by the sales docket receipt), or 5000 cycles, whichever ever occurs first; and
 - (b) the Product's other components and accessories will be free of any defects in material and workmanship for at least 12 months after the date of purchase (as evidenced by the sales docket receipt).
 6. No additional warranty will apply for Products repaired during the relevant warranty period.
 7. For all Products repaired outside the warranty period, a six (6) month warranty that the Product will be free of any defects in material and workmanship will apply from the date of dispatch of the Product to you. ATA may charge you for any repairs undertaken outside the warranty period, and will provide you with a quotation in relation to any such costs for your approval before proceeding with any repairs.
 8. This Warranty applies only where you:
 - (a) immediately notify ATA at the contact details provided in paragraph 1 above or notify the or the retailer that you purchased the Product from of the alleged defect;
 - (b) return the product to the retailer that you purchased the Product from; and
 - (c) present the relevant sales docket and this Warranty document to the retailer to confirm the date of purchase.
 9. Except for this Warranty, ATA gives no warranties of any kind whatsoever (whether express or implied), in relation to the product, and, subject to paragraph 1 above, all warranties of whatsoever kind relating to the product are hereby excluded.
 10. This Warranty excludes damage resulting from:
 - (a) normal wear and tear;
 - (b) accidental damage;
 - (c) incorrect installation of the Product;
 - (d) blown fuses, electrical surges, power surges or power spikes;
 - (e) theft, fire, flood, rain, water, lightning, storms or any other acts of God;
 - (f) any installation, configuration or use of the Product contrary to the instructions supplied with the Product;
 - (g) maximum continuous operating time exceeding 1 minute in 10;
 - (h) the operating force exceeding 15kg* (150 Newton) when moving the door manually to the open or closed position;
 - (i) the door surface area exceeding 18m² for GDO-9v2 Enduro™ (Gen 2)
 - (j) the door used with the Product not being in safe working order and condition;
 - (k) repairs which are not authorised by ATA;
 - (l) any failure to install or maintain the Product in accordance with the instructions supplied with the Product;
 - (m) any use which is not in accordance with the instructions provided with the Product;
 - (n) deliberate or negligent damage to the Product;
 - (o) any unauthorised modification to the Product;
 - (p) faulty or unsuitable wiring in the building in which the Product is installed;
 - (q) damage caused by insects;
 - (r) any cost or expense relating to the recall of the Product;
 - (s) installation of a residential garage door opener in a commercial or industrial premises or in a dwelling other than a single-family dwelling;
 - (t) radio or electrical interference; or
 - (u) acts or omissions of any person (including service providers approved by ATA) other than ATA.
 11. 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.
 12. This Warranty does not extend to cover labour for installation of the Product following repairs, the cost of which must be borne by you.
 13. This Warranty is limited to Return-to-Base (RTB) repair and does not cover labour for on-site attendance, the cost of which must be borne by you.
 14. Except as specified in this Warranty, ATA will not charge you for any repairs or replacements conducted under the Warranty. However, ATA will charge you for any repairs which are not within the scope of this Warranty (or which are not required to be undertaken free of charge pursuant to the Australian Consumer Law).
 15. This Warranty is void if the Product is not returned to the manufacturer in original or suitably secure packaging.
 16. This Warranty is only applicable for repairs to the product carried out within Australia.
 17. This Warranty does not cover consumable items including, without limitation, globes, batteries and fuses.
 18. This Warranty is not transferable.
 19. 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.
 20. Any provision of this Warranty that is prohibited or unenforceable in any jurisdiction is ineffective as to that jurisdiction to the extent of the prohibition or unenforceability. That does not invalidate the remaining provisions of this Warranty nor affect the validity or enforceability of that provision in any other jurisdiction.
 21. Products presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the Product.
- NOTES:
1. One (1) cycle = one (1) open and one (1) close action of the door.
 2. This Warranty is to be read in conjunction with the owner's copy of the installation instruction manual.
 3. * The door that the Product is used with should be balanced in such a way that the user is able to open or close the door manually using a force not greater than 150 Newton (15 kg), other than to initially cause the door to start moving, which may require force in excess of that specified in this paragraph.



© July 2012 Automatic Technology (Australia) Pty Ltd. All rights reserved. TrioCode™ is a 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.automatictechnology.com.au

