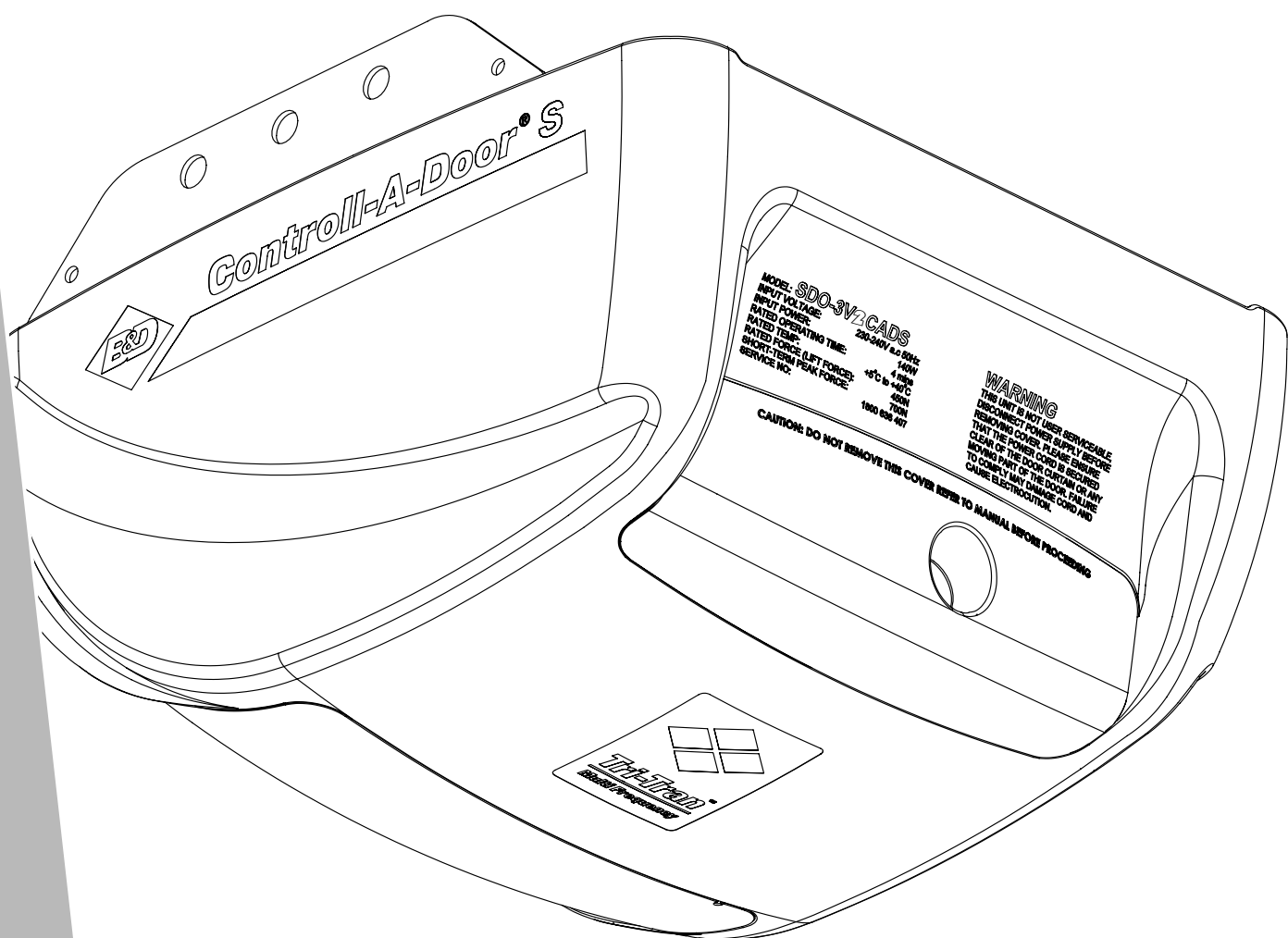




Controll-A-Door® S

Controll-A-Door® S

Sectional Door Opener Instruction Manual



Technical Document

Installation Manual

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English

Part # 79081 (Manual)

B&D Doors is a division of B&D Australia Pty Ltd
ABN 25 010 473 971



Controll-A-Door® S

SDO-3V2 Sectional Door Opener

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Safety Rules

Please read these important safety rules



These safety alert symbols indicate a personal safety or property damage instruction exists. **READ THESE INSTRUCTIONS CAREFULLY.**



This automatic garage door opener is designed and tested to offer safe service provided it is installed and operated in strict accordance with the following safety rules. Failure to comply with the following instructions may result in death, serious personal injury 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.



Position the Garage Door Opener so that the power plug is accessible when inserted into the power outlet (EN 60335-1).



This opener should be installed in accordance with relevant Australian Standards.



Do not allow children to play with door controls.



Keep transmitters away from children.



Watch the moving door and keep people away until the door is completely opened or closed.



Activate the opener only when the garage door is in full view, free of obstructions and with the opener properly adjusted.



Keep the garage door balanced. Sticking or binding doors must be repaired. Garage doors, door springs, brackets and their hardware are under extreme tension and can cause serious personal injury. Do not attempt any garage door adjustment. Do not use if repair or adjustment is needed. Call for professional garage door service.



Install the optional wall transmitter in a location where the garage door is visible, but out of the reach of children at a height of at least 1.5m.



Disconnect electric power to the garage door opener before removing covers.



A Safety Beam must be used if the closing force as measured on the bottom of the door is more than 400N (40kg).



Do not wear rings, watches or loose clothing while installing or servicing a garage door opener.



This opener is not suitable for commercial, industrial or common entry applications.



To avoid serious personal injury from entanglement, remove all unnecessary ropes or chains and disable any equipment such as locks which are not needed for powered operation.



Installation and wiring must be in compliance with your local building and electrical codes. Connect the power cord only to properly earthed mains. If an extension lead must be used, make sure it is a 3-core lead and approved to 7 amp capacity.



If the power cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.



This opener is a plug in domestic appliance and is designed for indoor use only. It must be installed in a dry position that is protected from the weather.



The opener is not intended for use by young children or infirm persons without supervision.



WARNING! It is vital for the safety of persons to follow all instructions. Save these instructions.

B&D Doors 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 a B&D Garage Door Opener. B&D Doors 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 B&D Garage Door Opener in accordance with these installation instructions.

Default Settings & Specifications

Factory default settings

	Default	Step	Minimum	Maximum
Courtesy light time	3 minutes 10 Sec in battery backup mode	-	3 minutes 10 Sec in battery backup mode	3 minutes 10 Sec in battery backup mode
Obstruction force margin	0.7 amps	0.1 amps	0	2.0 amps

Technical specifications

Power supply	230V - 240Va.c. 50Hz
Transformer rating	24V a.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: 5500mm (16.5m ²) Height: 2150mm Weight: 100kg
Minimum headroom	25mm
Short term peak force	700N (70kg)
Lift force	450N (45kg)
Nominal force	150N (15kg)
Receiver type	UHF Multi-frequency FM Receiver
Receiver code storage capacity	8 X 4 button Transmitter Codes
Transmitter frequency	433.47, 433.92, 434.37 MHz
Coding type	Tri-Tran™
Number of code combinations	Over 4.29 billion random codes
Code generation	Non-linear encryption algorithm
Transmitter battery	CR2032 (3 Volts)
Courtesy light	Festoon style lamp 24 volts 15 watt
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.



About Your B&D Opener

Thank you for choosing a Controll-A-Door® S automatic garage door opener, designed and developed in Australia by B&D Doors.

The technically advanced construction of this opener ensures you enjoy the following benefits:

Warranty

Five (5) year/10,000 cycles full parts and labour warranty on motor, electronics and mechanical components of the opener when installed by an Approved B&D Dealer (conditions such as annual garage door servicing apply).

Tri-Tran Frequency Hopping Technology

Every time a transmitter is used, it simultaneously sends a signal over three different frequencies, reducing the chance of interference from other radio frequency sources.

Code Hopping Technology

Every time a transmitter is used a new security code is generated from over 4.29 billion possible code combinations. This greatly enhances the security of the system and makes "code grabbing" a thing of the past!

Multi-Channel Transmitter

Multi-channel transmitters allow you to operate other devices such as an adjoining garage door or automated gate from the same handy unit.

Warranty Expired Indicator

The opener will indicate that the number of cycles covered by the warranty has been reached by flashing the courtesy light 10 times after each operation. This flashing will continue for 20 cycles unless it is reset by pressing the SET button while the courtesy light is flashing.

S-ALPS (Semi Automatic Limits Positioning System)

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

Safety Reversing System

The automatic safety reverse system significantly reduces the risk of death or serious injury if trapped by a closing door. The safety reverse force can be adjusted for environmental conditions such as windy areas.

Courtesy Light

The courtesy light automatically switches on for approximately three (3) minutes when operating the door. This can also be programmed to turn on and off from a transmitter.

Battery Back Up

Optional Battery Back Up or solar power is available.

Memory Retention

In case of a power failure the opener does not lose the transmitter codes or limit settings.

Soft Start/Soft Stop

The opener eases into and out of each cycle making for smoother and quieter operation, as well as reducing wear and tear on the door and opener.

Manual Release

The manual release handle allows the door to be operated by hand in the event of a power failure.

Self Locking

There is no need to manually lock your garage door, as the opener 'positively' locks the door when closed.

Periodic Maintenance Indicator

The SERVICE LED will illuminate to indicate that periodic maintenance is required. Contact your dealer/installer for service.

Service Fault Indicator

Flashing LEDs on the control panel easily identify operational problems or service requirements.

Dynamic Door Profiling

Changing door characteristics are automatically compensated for and "learnt" with each operation of the door.

External Aerial

An external aerial can be connected for sites where radio reception is a problem.

Vacation Mode

A transmitter can be programmed to disable the garage door opener radio receiver. This is ideal if the door is to be left idle for prolonged periods.

Pet (Pedestrian) Mode

A transmitter can be programmed to open the door partially to allow pets access to the garage. The door opening height is adjustable via a handheld programmer.

Auxiliary / OSC

You can program a spare button on your transmitter to operate this output, which can control items that use a momentary close switching mechanism OR a keyswitch can be connected across this terminal to operate the door.

Operating Controls

01. Terminal Block:

V+ is used to power wireless Safety Beam, external receiver etc.

SB1 first Safety Beam input.

OV for Safety Beam

SB2 second Safety Beam input.

OV for Safety Beam

AUX/ OSC can either be used to control another device (such as alarm system etc) via the openers remote control or a wired switch (momentary contact) can be connected to this terminal to open, stop or close the door.

02. **CODING LED** (red) light flashes when a code is being stored or when a transmitter button is pressed.

03. **DOOR CODE** button is used for storing or erasing transmitter buttons for door operation

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

05. **SET** button (Orange) is used during the installation phase together with the PLUS (+) and MINUS (-) buttons to set the door limit positions.

06. **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 OPERATE button operable.

07. **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 should only be used if environmental factors (wind, etc.) affect the door's operation.

08. **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.

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. **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.

12. **DATUM ADJUST SCREW** is used during limits set up to indicate the mid point of the door's travel.

13. **10A FUSE**

14. **PROG INPUT** is used to connect the Handheld "PG-3" Programmer for editing control and receiver functions, accessing diagnostic tools, and activating special features and operating modes.

15. **JP1 SOLAR CONNECTOR** the shunt must be fitted for solar operation.

16. **COURTESY LIGHT** 15 watts 24 volts festoon type globe is used for courtesy light



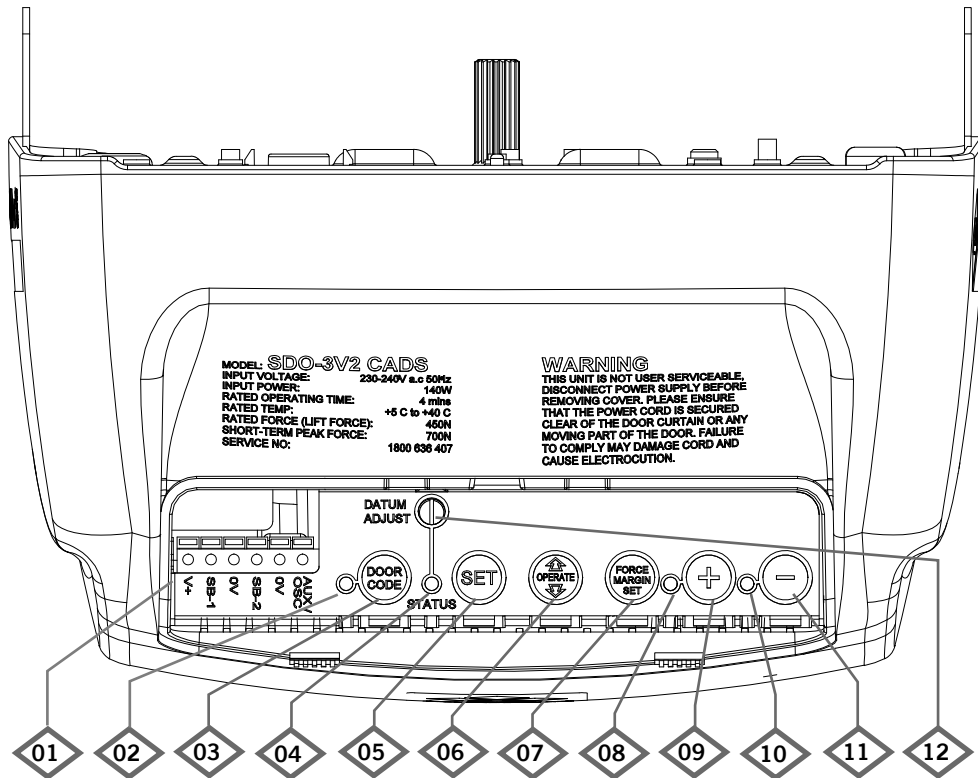


Fig. 01

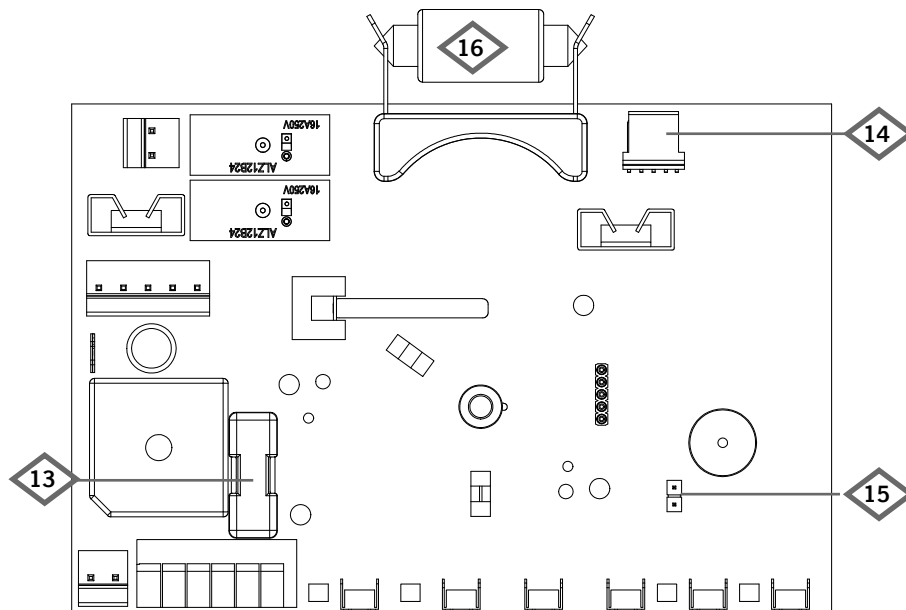
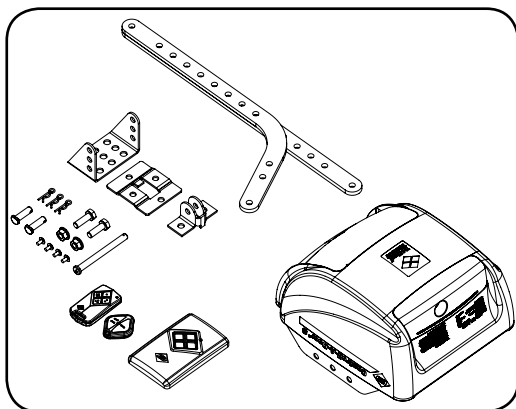


Fig. 02

Kit Contents

Fig. 03

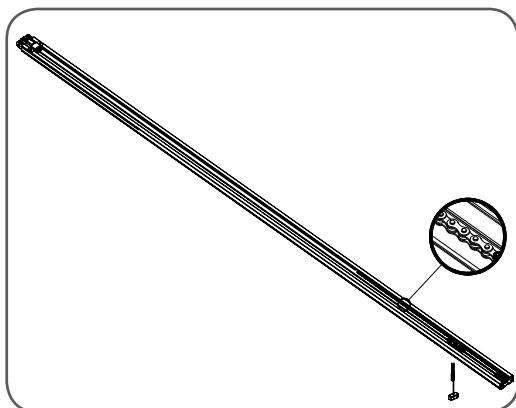


Powerhead Unit (Fig. 03)

- 1 x Controll-A-Door® S powerhead
- 1 x Transmitter pack
(Pack includes one TB-2 and one TB-4 keyring transmitters with batteries)
- 1 x Wall mount transmitter with battery
- 2 x Door attachment arms
- 1 x Accessory and hardware pack
- 1 x Installation Manual

PLUS

Fig. 04



Single Piece C-Rail with Pre-Assembled Chain (Fig. 04)

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

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

Installation

C-Rail Attachment

Step 1 - Attach C-Rail to Powerhead

Locate and insert the powerhead's shaft into the C-Rail's sprocket as shown in (Fig. 05).

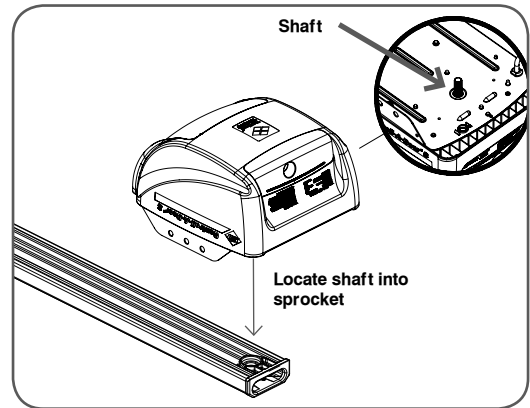


Fig. 05

Step 2 - Secure C-Rail to Powerhead

Fix the two track brackets as shown in (Fig. 06). Fix with the four screws supplied in accessory pack.

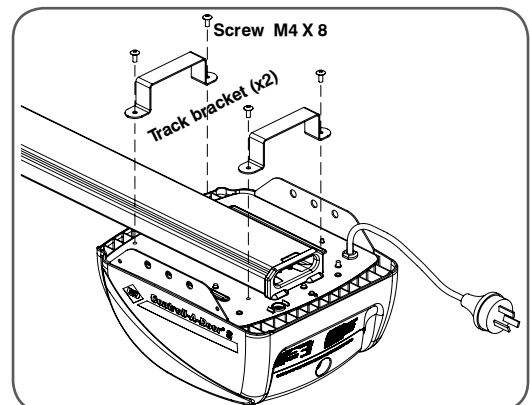
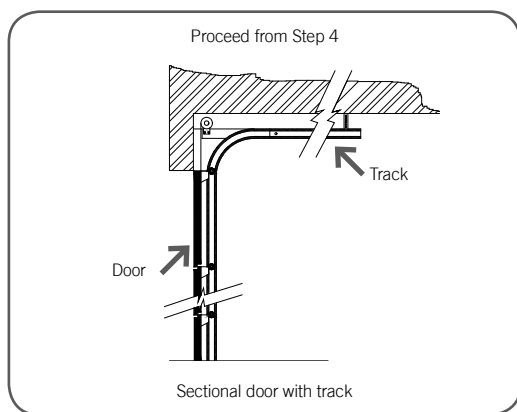


Fig.06

Determine the Door Type

Fig. 7

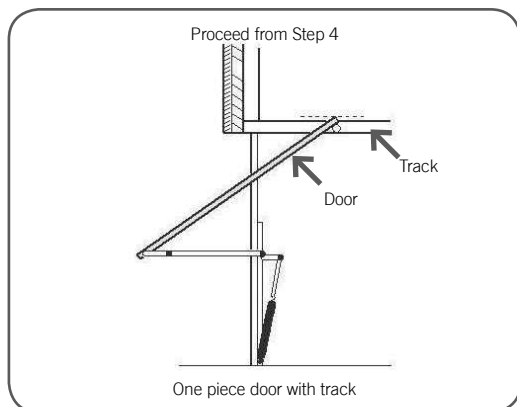


Step 3 - Determine the Door Type

Determine which type of garage door you have as illustrated in (Fig. 7) to (Fig. 9).

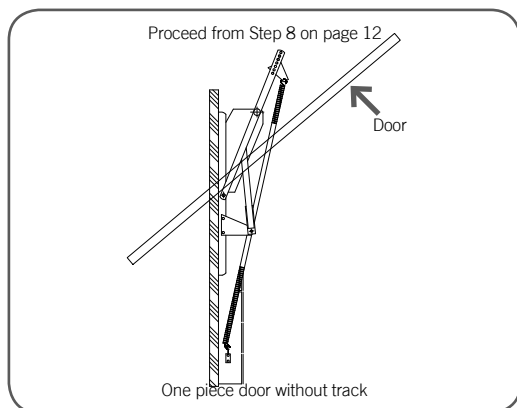
For a sectional (panel) door on tracks (Fig. 7) proceed with the installation from Step 4.

Fig. 8



For a one piece door on tracks (Fig. 8) proceed with the installation from Step 4.

Fig. 9



For a one piece door without tracks (on springs) (Fig. 9) proceed with the installation from Step 8 (page 12).

Mounting - Track Type Door

Step 4 - 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. 10**) 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. 11**)

Step 5 - Mounting the Wall Bracket

- Centre the bracket over the intersection of these two lines. Mark centres for at least two holes (**Fig. 11**).
 - 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 OR BRICK - 8mm or 5/6 loxins or dynabolts.
 - IF TIMBER - wood screw #20 or equivalent (minimum 50mm long).



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

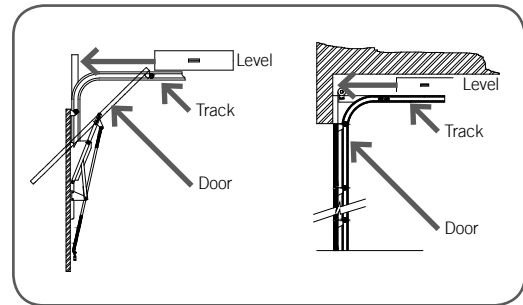


Fig. 10

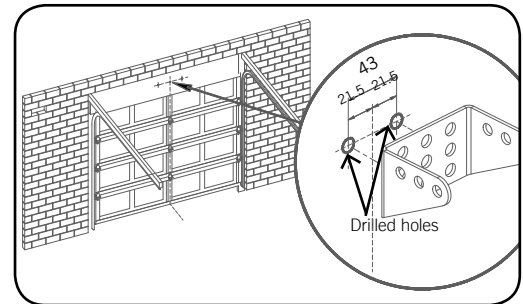


Fig. 11

Step 6 - 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. 12**).
- Leave the powerhead in its packing box for protection during installation.

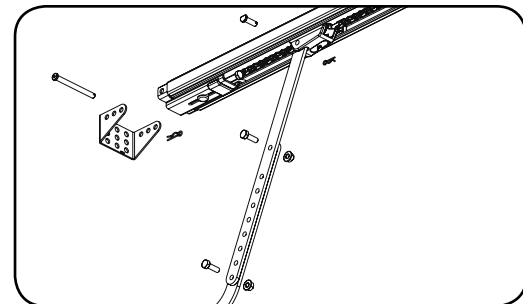


Fig. 12

Step 7 - Securing the Powerhead to the Ceiling

- Raise the powerhead from the packing box and support it in the horizontal position with a step 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 powerhead's mounting holes will be once fully installed. A representative mounting is shown (**Fig. 13**).
- Connect the powerhead to the ceiling mounted perforated angle with M8x20mm screws and nuts. Strips should not extend more than 18mm below centre of powerhead mounting holes (**Fig. 13**).

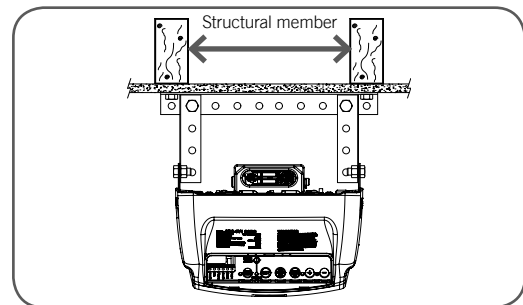


Fig. 13

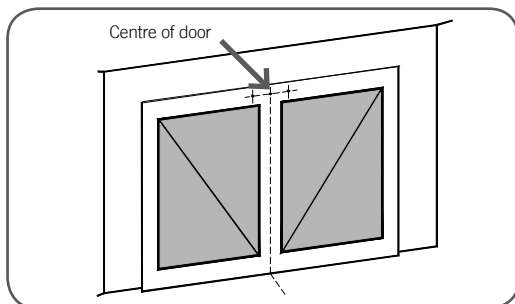
For an alternative mounting option, go to Step 11.1



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

Mounting - Non Track Type Door

Fig. 14



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

Step 8 - 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. 14).

Step 9 - 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 powerhead level with the lowest point of the open door (Fig. 15).

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

Fig. 15

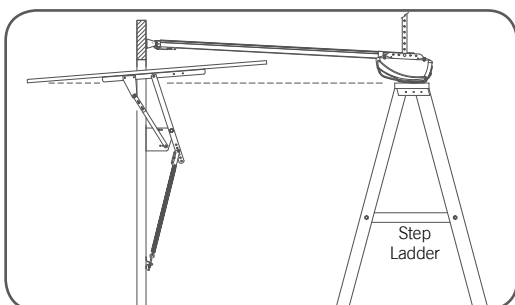


Fig. 16

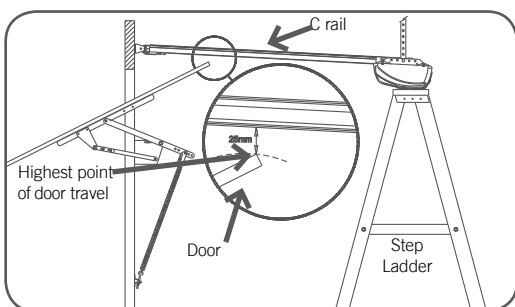
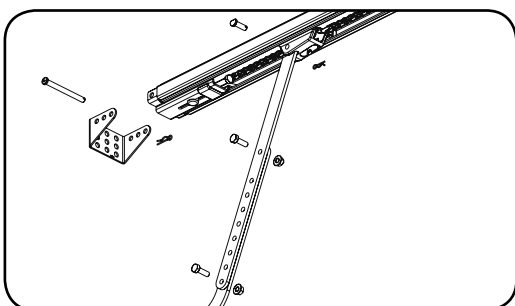


Fig. 17



Step 10 - 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. 16).
- 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 line determined 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 the bracket to the wall using:
IF CONCRETE OR BRICK - 8mm or 5/6 loxins or dynabolts.
IF TIMBER - wood screw #20 or equivalent (minimum 50mm long).
- Attach the wall bracket to the C-Rail with the 90mm long clevis pin (Fig. 17) and secure by a snap pin.

Step 11 - Securing the Powerhead to the Ceiling

- Secure the perforated angle (not supplied) to the ceiling above where powerhead's mounting holes will be. See (Fig.13) for a representative mounting.
- Connect the powerhead to the ceiling mounted perforated angle with M8x20mm screws and nuts. Strips should not extend more than 18mm below centre of powerhead mounting holes (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.

Mounting Door Bracket and Arms

Step 11.1 - 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. 18**).

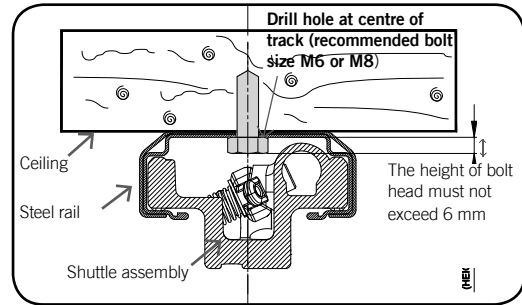


Fig. 18

Step 12 - 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. 19**).

- Mount the door bracket, or bracket assembly, on the door's centre line one-third down the top panel (**Fig. 19**) using M6 or equivalent screws (not supplied),
- STEEL DOORS ONLY: Bracket can be welded in place.

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

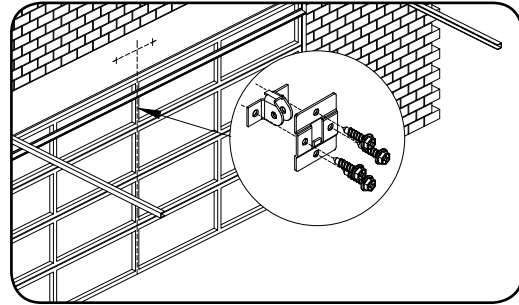


Fig. 19

Step 13 - Attaching the Arms

FOR SECTIONAL AND ONE PIECE DOORS WITH TRACK:

- Assemble the bent and straight arms with bolts and nuts supplied in the accessory pack (**Fig. 20**). 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. 20**).

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

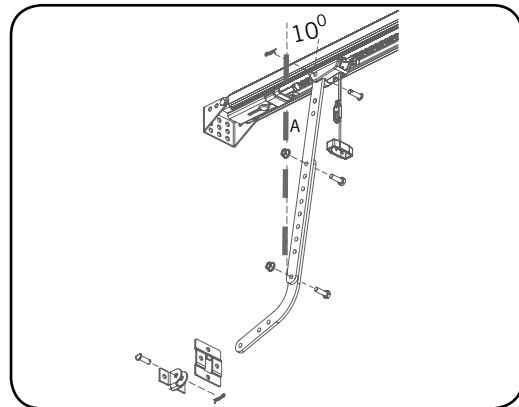


Fig. 20

FOR ONE PIECE DOORS WITHOUT TRACK

- Assemble the bent and straight arms as shown in (**Fig. 21**) 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.
- If installing on a door with a bad wave action, lengthening the arm will assist in reducing this effect.

IMPORTANT NOTE - If the manual release handle is more than 1.8 metres from floor level when the opener is installed, extend the handle to a height less than 1.8 metres.

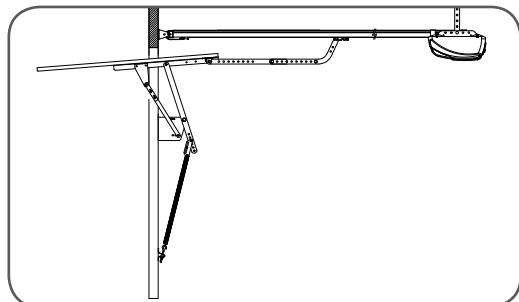
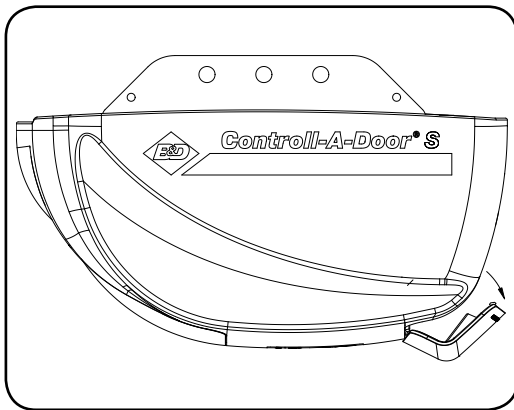


Fig. 21

Setting Travel Limits

Fig. 22



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.



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

Step 14.1 - Setting Limits Positions

Remove the controls cover to access the controls panel as shown in (Fig. 22). Replace it when setup is completed.

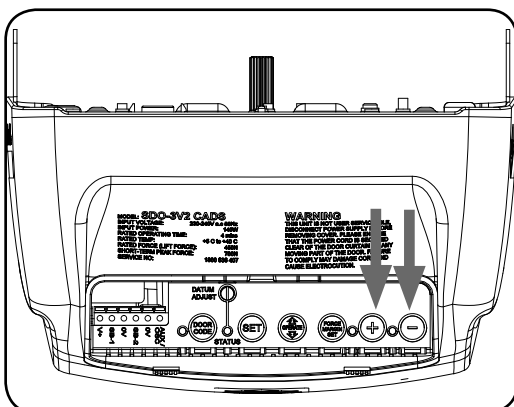
Step 14.2 - Connect Power to the Drive unit

Plug the power cord into a mains point and switch power on. The red CLOSE LIMIT LED will be flashing.



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

Fig. 23



Step 14.3 - Set the Datum Position

- Press and hold the MINUS (-) or PLUS (+) buttons to move the door to the halfway position. Ensure that the door, shuttle and chain index are engaged.
- Using a small screwdriver, turn the DATUM ADJUST screw until the STATUS LED comes on (Fig 23).

Note: If the STATUS LED is already illuminated when the door is halfway up, turn the DATUM ADJUST screw until the light goes off, then turn back one notch to illuminate again.

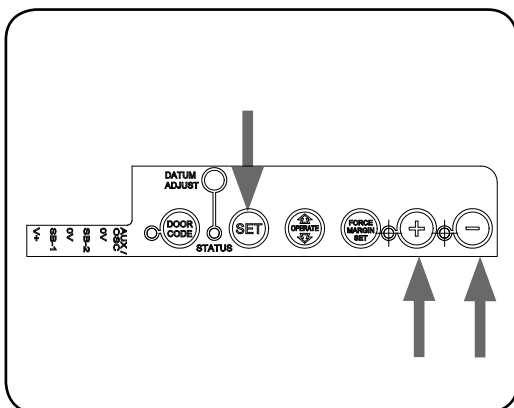
Step 14.4 - Set the Limits Positions

- Press and hold the MINUS (-) button until the door reaches the desired close limit position. Single presses will inch the door closed (Fig 24).
- Press the SET button to store the close position into memory (Fig. 24).
- Press and hold the PLUS (+) button until the door reaches the desired open limit position. Single presses will inch the door open (Fig. 24).



WARNING: The door will automatically close, open and close again once Step 14.4(d) is performed. Ensure that no persons or objects are in the door's path.

Fig. 24



- Press the SET button to store the open position into memory (Fig. 24).
- The door will now automatically close and open to calculate the safety obstruction settings. After this, the opener can be operated with the OPERATE button.

Testing Safety Obstruction Force

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

Step 15.1 Test the Close Cycle

- Press the OPERATE button to open the door (Fig. 25).
- Place a piece of timber approximately 40mm high on the floor directly under the door (Fig 26).
- Press the OPERATE button to close door.
- The door should strike the object and re-open.

Step 15.2 Testing the Open Cycle

- Press the OPERATE button to close the door (Fig. 25).
- Press 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 15.4.

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.

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

Step 15.3 - To Increase Force Pressure

- Press and hold the FORCE MARGIN SET button (Fig 25).
- 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 13.1 and 13.2.
- If the OPEN LIMIT LED flashes continuously when the PLUS (+) button is being pressed, this indicates that the maximum force setting has been reached.

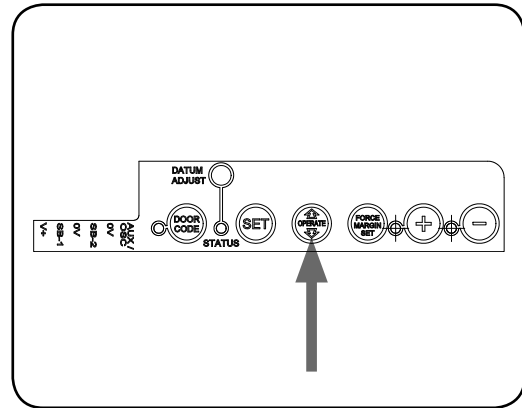


Fig. 25

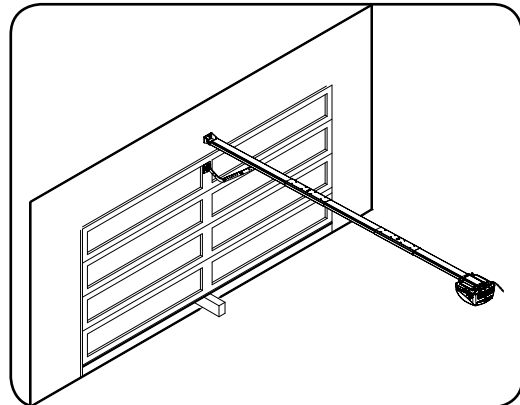


Fig. 26

Step 15.4 - To Decrease Force Pressure

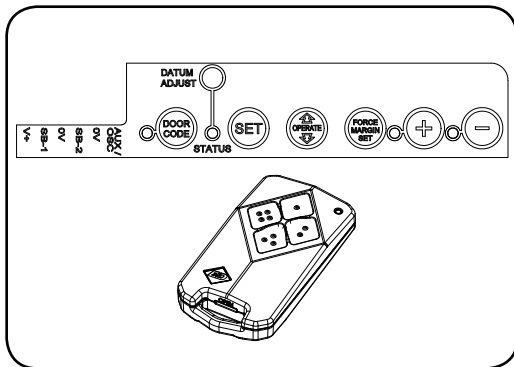
- Press and hold the FORCE MARGIN SET button (Fig 25).
- While holding down the FORCE MARGIN SET button, press the MINUS (-) button.
- Each press will decrease the force margin one step. The CLOSE LIMIT LED will flash each time the MINUS (-) button is pressed to indicate a decrease in force.
- Test the force again as per Steps 13.1 and 13.2.
- 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 15.5 - To Recall Factory Set Force

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

Coding Transmitters

Fig. 27

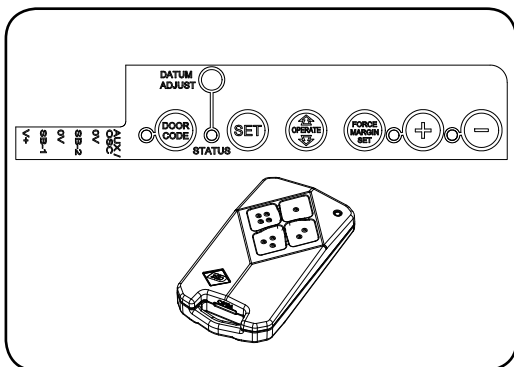


Step 16.1 - Storing the Transmitter Code

The opener can only operate from transmitters that have been programmed into its receiver. The receiver needs to learn the codes of any transmitter that will be used with the operator. Up to eight (8) codes can be stored in the receiver's memory.

- Press the DOOR CODE button and release. The DOOR CODE 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. 27**).
- Press the transmitter button (one of four) that you want to control the door. The DOOR CODE LED will begin to flash.
- Press the same transmitter button again. The DOOR CODE 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. 28



Step 16.2 - 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 DOOR CODE button twice. The DOOR CODE LED will illuminate and the courtesy light will turn on to indicate that the light code learning is active (**Fig. 28**).
- Choose a transmitter button not already coded into the receiver. Press this button and the DOOR CODE LED will begin to flash.
- Press the same transmitter button again. The DOOR CODE 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 16.3 - 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 preprogrammed unit.

- Press DOOR CODE button three times. The DOOR CODE LED will illuminate and the courtesy light will flash slowly (once every two seconds) to indicate Vacation learning mode is active. (Fig. 29)
- Choose a transmitter button not already coded into the receiver. Press this button and the DOOR CODE LED will begin to flash.
- Press the same transmitter button again. The DOOR CODE 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. 29).
- To activate Vacation Mode, close the garage door and press the coded button transmitter for 5 seconds. The DOOR CODE LED will illuminate to indicate that the opener is in Vacation Mode.
- To exit Vacation Mode press the transmitter button momentarily until the DOOR CODE LED turns off.

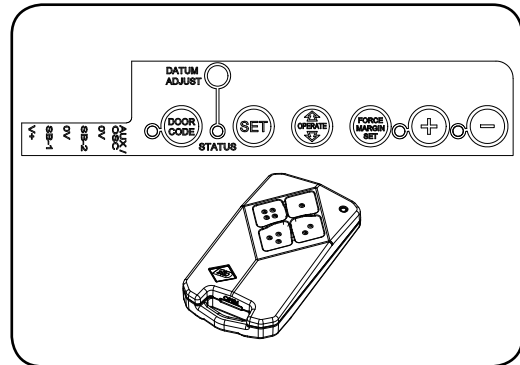


Fig. 29

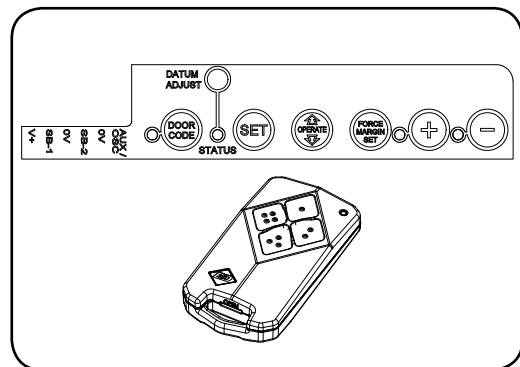


Fig. 30

Step 16.4 - 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 DOOR CODE button four times. The DOOR CODE LED will illuminate and the courtesy light will flash quickly (twice per second) to indicate that learning mode for the Auxiliary Output is active.
- Choose a transmitter button not already coded into the receiver. Press this button and the DOOR CODE LED will begin to flash.
- Press the same transmitter button again. The DOOR CODE 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. 30).

Coding Transmitters

Fig. 31

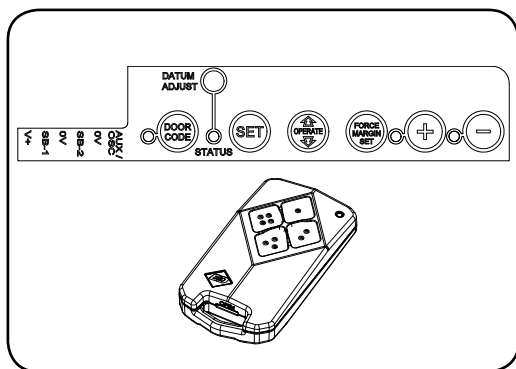


Fig. 32

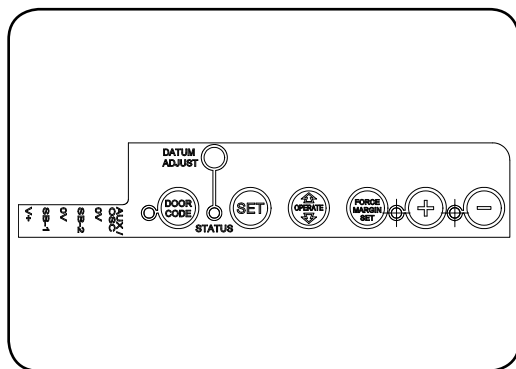
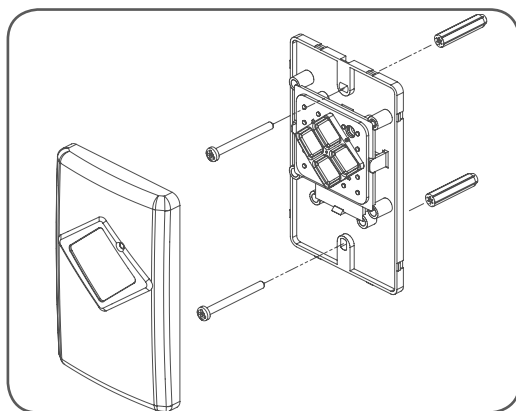


Fig. 33



Step 16.5 - 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 DOOR CODE button five times, the DOOR CODE LED will illuminate and the courtesy light will flash quickly (twice per second) to indicate learning mode for Pet Mode is active.
- Choose a transmitter button not already coded into the receiver. Press this button and the DOOR CODE LED will begin to flash.
- Press the same transmitter button again. The DOOR CODE 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. 31**).
- The opening height of the door for pet position can only be changed with universal programmer.

Step 16.6 - To Erase Programmed Codes

If the DOOR CODE button is pressed and held for 6 seconds the DOOR CODE LED will blink rapidly for one second to indicate that all programmed codes have been erased. (**Fig. 32**)

Step 16.7 - 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. 33**).
- Make sure the door is visible from this location.
- To set the transmitter codes refer to Step 16.1.

Accessories

Step 17.1 - Terminal Block

A variety of wired accessory items can be connected to the terminal block such as Safety Beams, electric key switch, home alarm etc (**Fig. 34**). Auxiliary output can be used to control 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. V+
2. SB-1 (Safety Beam input)
3. 0V (0V for Safety Beam, AUX/OSC)
4. SB-2 (Safety Beam input)
5. 0V (0V for Safety Beam, AUX/OSC)
6. AUX/OSC

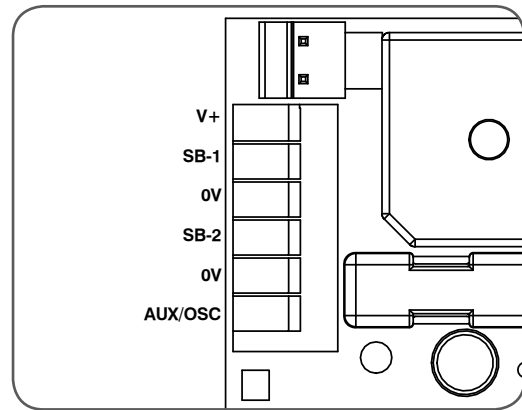


Fig. 34

Step 17.2 - Remote Aerial (Part No 062177)

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.

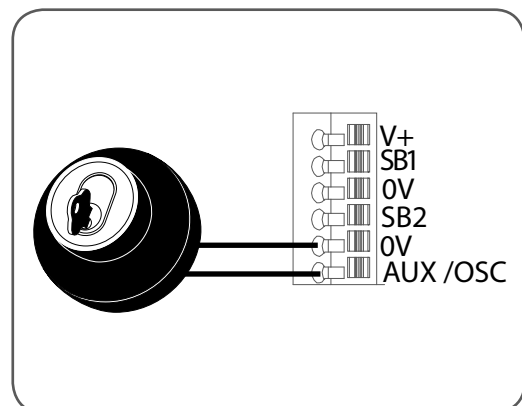


Fig. 35

Step 17.3 - Auxiliary / Electric Key Switch (Part No 062738)

Auxiliary / keyswitch terminal can either be used to connect a key switch or to use as an auxiliary output. An electric key switch provides an alternative to using a transmitter. Each key turn cycles through an open/stop/close function. The electric key switch is also an external release mechanism - ideal for garages only with one entrance. To connect the keyswitch to the opener's terminal block refer to (**Fig. 35**) and for auxiliary output refer to (**Fig. 36**). .

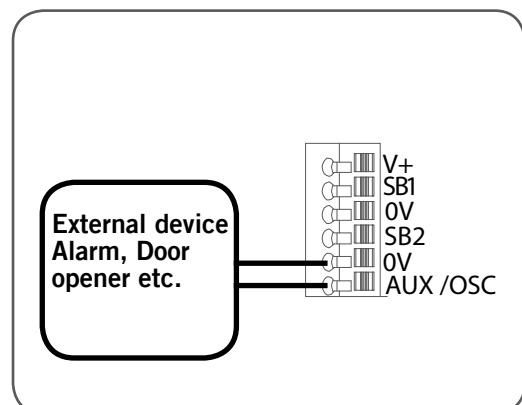


Fig. 36

Accessories

Fig. 37

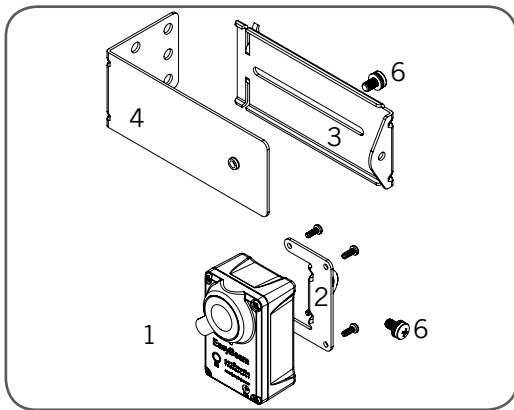


Fig. 38

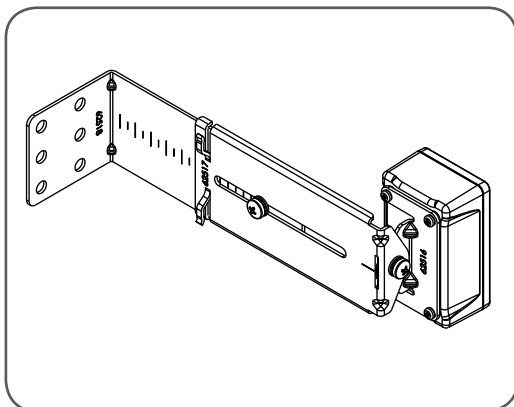
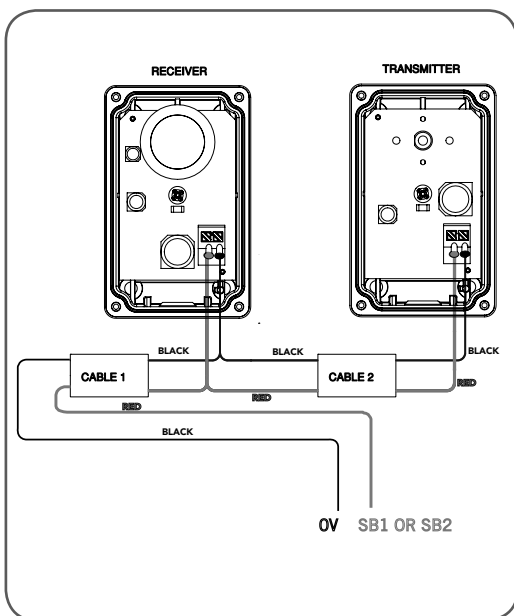


Fig. 39



Step 18 - 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 SDO-3V2 opener.

Step 18.1 - Fitting the Safety Beam

- Attach the mounting bracket (4) to the adjustment bracket (3) with the pan head screw (6) (supplied). (Fig. 37)
- Attach the bracket (2) to the Safety Beam transmitter with four tapite screws (m3x5) and attach the other side to the adjustment bracket (3) with the pan head screw (6). (Fig. 38)
- Repeat steps a. and b. to assemble the Safety Beam receiver.
- Locate the Safety Beam in a strategic location in the doorway. Automatic Technology recommend that the sensor is placed 100mm above the floor level and as close as possible to the door opening. Connect as per the wiring diagram (Fig. 39).

Step 18.2 - Alignment

- Power up SDO-3V2 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.



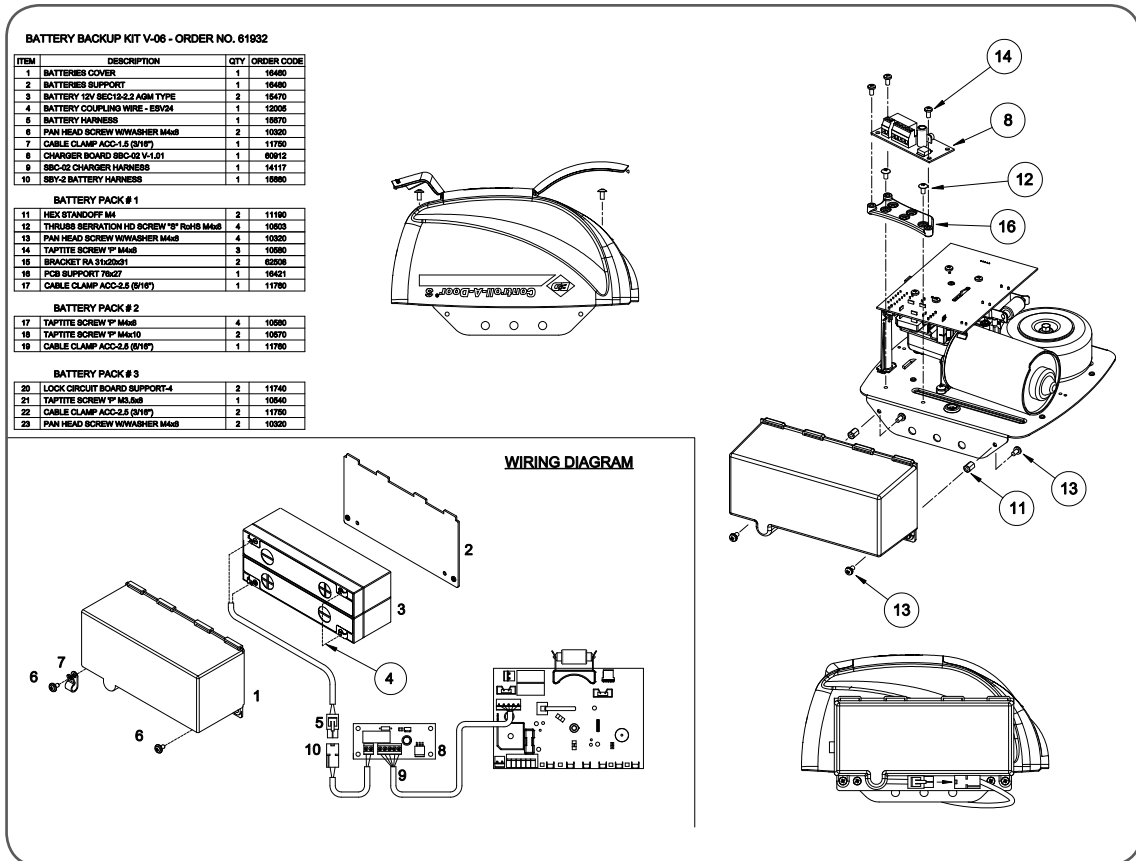
WARNING: Install the Safety Beam as per diagram in (Fig. 39). Tampering with the Safety Beam could result in serious personal injury and/or property damage and will void the warranty.



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 SDO-3V2 opener.

Battery Back Up Installation



Step 19 -Battery Back Up (optional)

The opener has provision for a Battery Back Up kit that allows continued operation of the door in the absence of mains power.

Step 19.1 -Installation

1. Disconnect power to the opener.
2. Remove screws and swing the cover open (Fig. 40).
3. Use battery pack # 1. Mount battery pack and secure with item 11 and 13.
4. Mount the pcb support item 16 on to chassis with item 12 and install the SBC-02 item 8 Charger Board on to the pcb support with item 14 screws.
5. Feed the 2-wire battery harness item 10, through the grommet on the base plate and connect to the SBY-3.
6. Plug the 4-pin connector from the charger board onto connector marked "SBC-02" 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 5 and 10 together (Fig 40).
8. Reconnect the power.

Step 19.2 -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.

Step 19.3 -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. 40

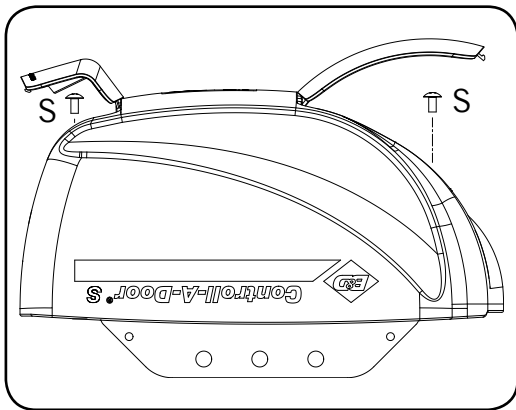


Fig. 41

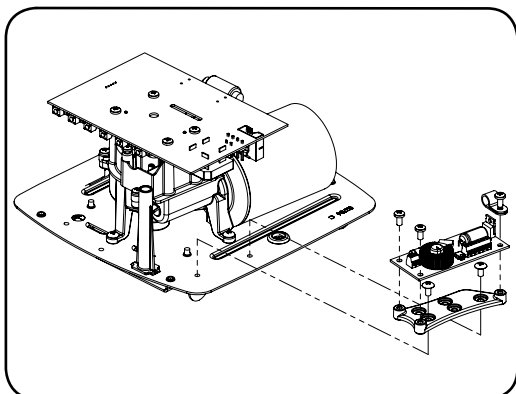


Fig. 42

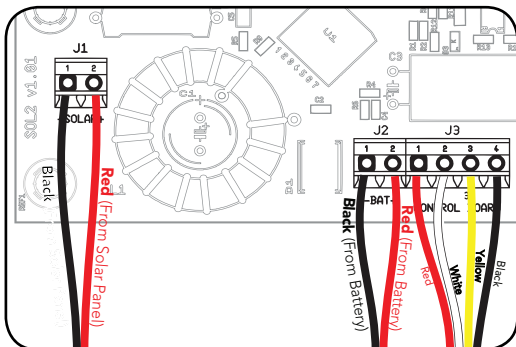
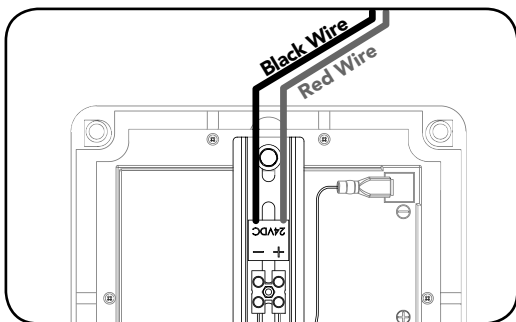


Fig. 43



SmartSolar™ Installation



WARNING: Do not connect batteries until Step 20.3

Step 20.1 - Mount the Charger Board

- Disconnect power to the opener.
- Swing open the light diffuser and controls cover. Remove screws marked "S" **Fig. 40** and lift up the main cover.
- Remove the transformer and mains power cable.
- Mount the PCB support with two screws. Secure the SCG01-200 charger board on to PCB support with 3 screws. (**Fig. 41**).
- Plug the solar charger Board's three wire harness (red/yellow/black) into the control board's "SBY-3" connector on the control board.
- Plug the Charger Board's white one wire harness into the control board's "24vac in" connector.
- Plug the solar shunt (supplied) onto the control board's "JP1" solar connector.



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

Step 20.2 - 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 metal plate.
- Connect the red wire to the Charger Board's "SOLAR+" connector, and the black wire to the "-SOLAR" connector (**Fig. 42**).



Warning: During Step 20.3 the opener will become active.

Step 20.3 - 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. 43**).
- Feed the other end of the battery cable through the Drive unit's black grommet located on the metal plate.
- Connect the red wire to the Charger Board's "BAT+" connector, and the black wire to the "-BAT" connector (**Fig. 42**).
- Refit the light diffuser and main cover.

Step 20.4 - Re-setup and Test the Opener

- Setup travel limits and code transmitters.
- Press either the OPERATE button or use a transmitter to operate the opener.

How to use your opener

For maximum efficiency of your opener, your garage door must be in good operating condition.

An annual service of your garage door by an Approved Dealer is recommended.



CAUTION - Activate the opener only when the door is in full view, free of obstructions and with the opener properly adjusted. No one should enter or leave the garage while the door is in motion. Do not allow children to play with or near the door.



WARNING! This opener is a mains voltage plug-in domestic appliance and there are no user serviceable parts inside this opener.

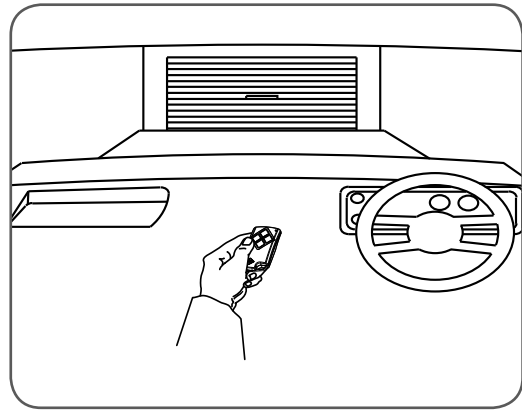


Fig. 44

Transmitter

- To operate the opener, press the programmed transmitter button until your door begins to move (usually 2 seconds). Make sure you can see the door when you use the transmitter.
- If you are in a vehicle you should aim the transmitter through your windscreen (**Fig. 44**).
- Check that the door is fully closed before you drive away.
- If you press the transmitter whilst the door is moving the door will stop. The next press of the transmitter will move the door in the opposite direction.

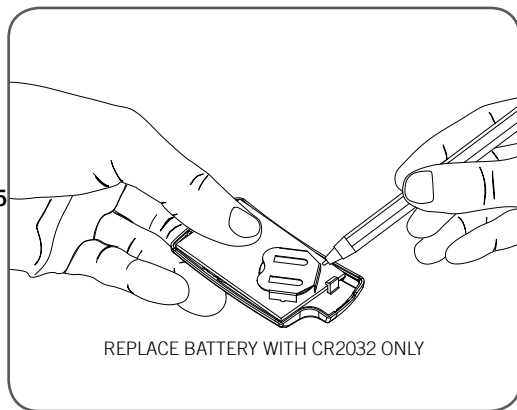
The transmitter may also be programmed to operate the following features (see Pages 16 to 18 for full details):

- to turn the courtesy light on and off without operating the door,
- to activate the Auxiliary Output,
- to put the door into "Pet Mode" where it opens partially to allow pet access to the garage, and/or
- to put the garage door opener into "Vacation Mode" where it will not respond to any transmitters.

NOTE: Additional transmitters may be purchased at any time.

How To Use Your Opener

Fig. 45



Removing the Battery From the Transmitter

(Battery Type: 3V Lithium Battery CR2032).

Use a non-metallic object (e.g. pen) to remove the battery. (Fig. 45)

Inbuilt Locking Facility

DO NOT lock your door when your opener is engaged as it has inbuilt locking facility. With the opener engaged your door will be locked whether the power is on or off.

Manual Door Operation



CAUTION: when operating the manual release while the door is open. The door may fall rapidly due to weak or broken springs, or due to being improperly balanced. (AS3350)



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

To disengage the opener from the door (preferably with the door in the closed position), pull 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 the opener pull the string handle away from the door.



WARNING! When the opener is manually disengaged, the door is no longer locked. To lock the door manually, re-engage the opener after the door is closed.

Power Failure

When there is a power failure, the opener will be unable to automatically open or close your garage door. To use your door whilst there is no power you will need to disengage the opener and use the door manually – see Manual Operation above.

How To Use Your Opener

Safety Beam

A Safety Beam Kit may be fitted to this opener.

- When this option is fitted, the operation of this device is such that if an object (i.e. car, child, etc.) blocks the Safety Beam, then the garage door opener will not close the door automatically.
- If the Safety Beam is fitted but not operating correctly, then the door, once opened automatically, will not close automatically. The door may be closed by reverting to manual operation – see Manual Operation.

Courtesy Light

The Courtesy Light will illuminate for approximately three (3) minutes each time the door is operated automatically.

Spare buttons of a multi-channel transmitters can be programmed to turn the light on and off by remote control.

See Step 16.2 for more information.

Auxiliary / keyswitch

This function allows the opener to operate other devices such as external lights or an alarm system. This terminal can only be used as Auxiliary output or keyswitch input.

To use as Auxiliary output, a spare button of a multi-channel transmitter must be programmed to operate the Auxiliary Output feature. See Step 16.4 for more information.

Vacation Mode

The radio receiver of the garage door opener can be turned off to all but one transmitter via Vacation Mode. Whilst in vacation mode the opener will not respond to any transmitter.

To activate the Vacation Mode facility, see Step 16.3.

NOTE - program only one button to control "Vacation Mode". This will reduce the possibility of accidental activation of this feature.

Pet (Pedestrian) Mode

A transmitter can be programmed to open the door partially to allow pet access to the garage.

To activate Pet Mode press the transmitter button that has been programmed for Pet Mode - the door will open partially.

See Step 16.5 for more information.

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 40mm 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 nearest Approved Dealer.

Yearly

B&D suggests that you contact your nearest Approved Dealer to perform an annual door service.

Service Record

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

Date	Service by	Signature	Invoice No.	Amount



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 SET button while the light is flashing after an operation.

Troubleshooting Guide

Symptom	Possible cause	Remedy
The opener does not work from the transmitter	Garage door in poor condition e.g. springs may be broken	Check the door's operation - see monthly maintenance (Page 26)
	The opener does not have power	Plug a device e.g. a lamp, into the power point and check that it is OK
	The battery in the transmitter is flat	Replace the battery (Page 24)
	The opener has been put into "Vacation Mode"	Turn off "Vacation Mode" (Page 17)
	The transmitter code has not been set	See transmitter & code setting procedure (Page 16)
The motor runs but the door does not move	The opener is disengaged	Re-engage the opener (Page 24)
The transmitter range varies or is restricted	Variations are normal depending on conditions e.g. temperature or external interference	See instructions for correct use of transmitter (Page 23)
	The battery is flat or faulty	Replace the battery (Page 24)
	Position of the transmitter in the motor vehicle	Change the position (Page 23)
	Position of the aerial will not pick up the radio signal	Install an external aerial kit – see Accessories (Page 19)
The light does not work	Faulty Globe	Replace the globe
The door reverses for no apparent reason	This may occur occasionally from weather changes	The opener automatically adjusts to compensate for changes, to adjust the force see (Page 15)

If You Need a Service Call

If the opener needs service please call the dealer who installed the garage door opener (for product assistance contact 13 62 63 within Australia).

BEFORE CALLING you should have the following information to assist in providing the appropriate service:

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

Fault Indicator

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

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

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	
Mains power interrupted	Rapid flashes		

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



Spare Parts List

Item #	Description	B&D Part No.	Item #	Description	B&D Part No.
1	METAL CHASSIS VP4	72005	34	CLEVIS PIN 0829	62551
2	GROMMET 101422	65603	35	HEX HEAD SCREW M8x25	10110
3	CORD GRIP GROMMET SB5P-2	65606	36	HEX SERRATION FLANGE NUT M8	10148
4	POWER CORD 1.5M W2P + IR	14150	37	PIN SNAP SSP 8 ZNU 31080	10720
5	GEARD MOTOR GMA-19-59-Y75	60337	38	DOOR BRACKET	62511
6	HELICAL GEAR 5911_121670	64062	39	DOOR BRACKET LOCATOR	62515
7	TIMING SUPPORT GMA18	16231	40	WALL BRACKET_TS01	62522
8	RATCHET TIMING ASSY VP3-2 AY	61728	41	TRACK BRACKET VP2	64592
9	TAPTITE SCREW "p" M4x10	10570	42	BENT ARM	62800
10	PAN SEPARATION HEAD SCREW M4x12	10380	43	STRAIGHT ARM	62790
11	TAPTITE SCREW "S" RoHS PF THD M4x8	10503			
12	TAPTITE SCREW "S" RoHS PF THD M4x10	10504			
13	WIRE GUIDE VP3	64891			
14	SDO-3V2 C.B. DCB07-1.13	71259			
15	TERMINAL BLOCK SHIELD	14057			
16	TRANSFORMER TDB-100-143 V2 KIT	62022			
17	PAN HEAD SCREW W/T.L.WASHER M3x14	10361			
18	TERMINAL BLOCK 500/02DS	65421			
19	CAP POLYFILM 0.1UF KX2 275VAC	67575			
20	MAIN COVER SDO-3V2 BK CADS SP AY	71418			
21	LIGHT DIFFUSER VP4 B&DSP	72127			
22	CONTROLS COVER VP4 SP TRD	62116			
23	GLOBE 24V/15W 15x44	65440			
24	C RAIL TRACK 77.8x31.8x3160_TS01	64653			
25	SHUTTLE ASSY TS01	60276			
26	TENSION CHAIN ASSY-TS01	61453			
27	SPROCKET 12T-12.7_TS01	64698			
28	SPROKET SUPPORT _TS01	64921			
29	CHAIN INDEX V3	62941			
30	CHAIN 1/2"x1/8"(487 LINKS) W/2CL	63005			
31	CHAIN JOINT LINK	62950			
32	CHAIN CLIP 1M KIT	71643			
33	PIN 0890	65790			



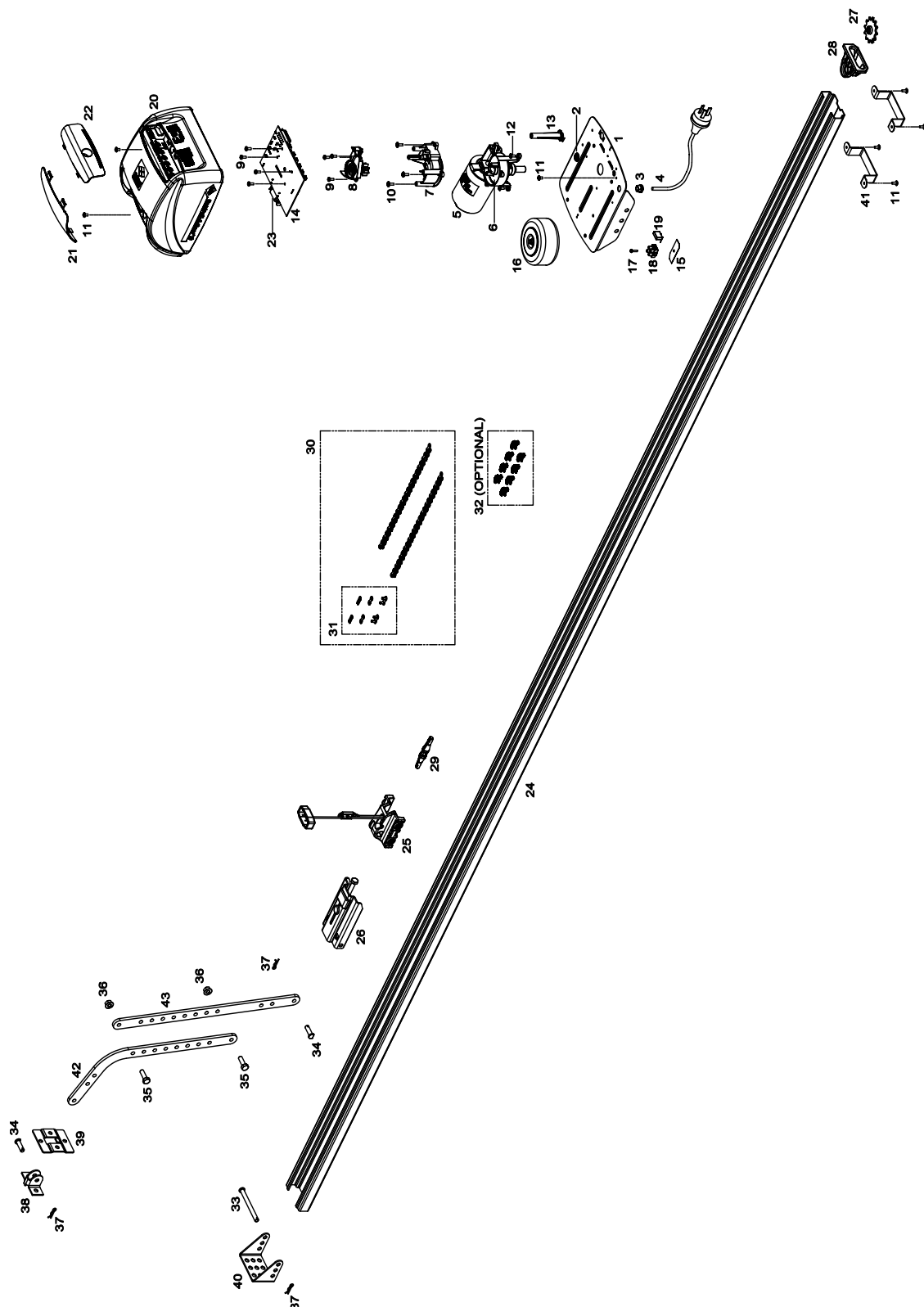


Fig. 46

Warranty

Product: CAD S

Purchased from: _____	Purchaser: _____ (described as "you" below)
Address: _____	Installed by: _____
Installed on (date): _____	Invoice No: _____

1 Making a claim - To make a warranty claim you must:

- (a) produce a copy of the receipt of purchase, together with this warranty certificate with the above details completed; and
- (b) where the Product has been sold by B&D, make all warranty claims directly with B&D by sending it to B&D at the relevant address set out in paragraph 2 below; or
- (c) where the Product has been sold by an approved distributor, make all warranty claims directly with the approved distributor. If you are unsure of the correct address of the approved distributor from which you purchased the product, you can send your claim to B&D with the rest of the above details completed, including the original invoice number, and we will forward it to the distributor.

You are responsible for the expense of making a claim under this warranty.

2 B&D or approved distributors only - This warranty is in addition to any statutory, non-excludable guarantees or warranty rights under Australian or New Zealand laws (as applicable). This warranty applies only to Products sold by B&D or its approved distributor. "B&D" means in Australia - B&D Doors of 34 – 36 Marigold St, Revesby NSW 2212 and in New Zealand - B&D Doors (NZ) Limited of 30C Allens Road, East Tamaki Auckland. "Approved distributor" means an approved reseller of B&D products purchasing on open account, from B&D, for the purpose of supplying those products to end users.

3 What the warranty covers - B&D warrants, subject to paragraph 4, that it will, at its option, either repair or replace (in a manner B&D considers reasonable) any proven defects:

- (a) in installation for a period of one year from the date of installation where the CAD S (Product) has been installed by B&D or its approved distributor;
 - (b) in materials, manufacture or workmanship in the Product, as follows:
 - (i) for all components of the Product that make up the power head (including any track assembly) that is attached to a garage door and that are installed by B&D or an approved distributor, the warranty will be valid for a period of five years or 10,000 cycles, which ever occurs first, provided that the Product is serviced annually by B&D or its approved distributor;
 - (ii) for all components of the Product that make up the power head (including any track assembly) that is attached to a garage door and that are not installed by B&D or an approved distributor, the warranty is valid for a period of one year, provided that all costs of disconnection, reinstallation and return freight are to be borne by you;
 - (iii) for all other components of the Product the warranty is valid for a period of one year; and
- in each case the warranty applies from the later of the date of purchase, delivery or installation by B&D or an approved distributor (as applicable).

4 What the warranty does not cover - This warranty does not cover:

- (a) batteries or globes - B&D will not be liable for any defect or failure in them;
- (b) adjustments - (as described in the Instruction Manual provided with the Product) which are not defects - you will need to pay for any service calls for adjustments;
- (c) model modifications - B&D will not be required to incorporate modifications made to existing/future Product models;
- (d) travel expenses - incurred by B&D or its approved distributor in either travelling to and from or transporting the Product to/from areas outside a capital city metropolitan area - you will need to pay for these expenses; or
- (e) additional access expenses - incurred by B&D or an approved distributor in obtaining access where the Product is not readily accessible - you will need to pay for those additional expenses.

5 What voids the warranty - Subject to paragraph 6, this warranty does not extend to, and B&D will be relieved of, all obligations, responsibilities and liabilities in the event that defects in the Product are directly or indirectly, in the opinion of B&D, due to or resulting from:

- (a) unreasonable use - the Product not being used correctly in accordance with the Instruction Manual or other unreasonable use;



Warranty

- (b) instructions - failure to observe any instructions or directions (including "warning" notifications in the Instruction Manual), provided with the Product or given to you;
- (c) other devices - the Product being fitted to any door or other closing device which is not of the type or condition defined in the Instruction Manual as suitable for installation of the Product;
- (d) installation or adjustment - faulty installation or adjustment of the Product or door to which the Product is connected where such installation or adjustment is not carried out by B&D or its approved distributors;
- (e) unauthorised acts - modifications or repairs made or attempted to be made by you or any unauthorised person;
- (f) service - lack of proper maintenance, service or care of the door and Product;
- (g) outside control - events or acts beyond the reasonable control of B&D;
- (h) settings - use with doors locked or operation of the Product with excessively high opening or closing force settings
- (i) wiring - faulty electrical wiring of structures to which the Product is affixed;
- (j) interference - radio (including citizen band transmissions) or other electronic interference;
- (k) water damage - including effects from rust and corrosion;
- (l) salt - salt corrosion or damage to the surface coatings or base materials due to environmental conditions (such as proximity to the sea-front or similar corrosive conditions).
- (m) continuous operating time - maximum continuous operating time exceeding 1 minute in 10;
- (n) maximum operating force - the operating force exceeding 15kg* (150 Newton) when moving the door manually to the open or closed position;
- (o) door size - the door surface area exceeding 16.5m²;
- (p) modifications - any unauthorised modification to the Product;
- (q) insects damage - damage caused by insects; or
- (r) non-residential use - installation of a residential garage door opener in a commercial or industrial premises or in a dwelling other than a single-family dwelling.

6 Statutory guarantees or warranties – Australia

If you are a consumer under the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This warranty certificate and other statements contained in this document or other B&D documents given to you do not exclude, restrict or modify the application of all or any of the provisions of the Australian Consumer Law.

New Zealand

This warranty certificate and other statements contained in this document or other B&D documents given to you do not exclude, restrict or modify the application of the New Zealand Consumer Guarantees Act (collectively defined as the "Act"); or the exercise of rights conferred by other statutory provisions which cannot be excluded, restricted or modified, provided that to the extent that the Act or other statutory provision permits B&D to limit its liability for a breach of a statutory guarantee or warranty, B&D's liability for such breach is limited to the payment of the cost of replacing the Product or acquiring an equivalent Product or repairing the Product.

In Australia, this warranty is given by B&D Australia Pty Limited (ABN 25 010 473 971) of B&D Doors of 34 – 36 Marigold St, Revesby NSW 2212, phone 13 62 63 and email enquiries@bnd.com.au. In New Zealand, this warranty is given by BD Doors (NZ) Limited of 30C Allens Road, East Tamaki, Auckland, phone 09-273 8600 and email enquiries@bnd.co.nz

This warranty document is not intended to create a contract between B&D and the purchaser.

NOTES:

1. * 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.

Optional Accessories

There is a range of additional accessories for your added convenience and security.

- **Safety Beams** - Part No 062736. Gives additional protection if the door is closing onto your property or person. Simply breaking the beam “stops” the door! Must be fitted if the Auto-Close feature is operational.
- **Keyring Transmitter** - Ideal for personal use when entry into the house may be via the garage.
- **Transmitter Wall Button** - Part No 062733. Allows you to operate the opener within 10 metres of the door. Ideal for mounting inside the house.
- **Combo Access Kit** - Part No 062738. Keyswitch function will open the door without a transmitter. Can be used to manually disengage the opener, and recommended when the garage door is the only access to the garage.
- **Remote Aerial Kit** - Part No 062177. For sites where radio range may be reduced.

Contact your Approved Dealer for installation of these accessory items.



When installing any accessories, always follow the instructions included with the product.



Only B&D accessories purchased from an Approved Dealer offer the highest quality and assure you of trouble free opener operation.



QLD Office:	17 Oasis Court, Clontarf 4019.	Ph: (07) 3883 0200
NSW Office:	34-36 Marigold St, Revesby 2212.	Ph: (02) 9722 5555
VIC/TAS Office:	147-153 Canterbury Road, Kilsyth 3137.	Ph: (03) 9237 7766
SA Office:	23 Frederick Road, Royal Park 5014.	Ph: (08) 8440 4747
WA Office:	96 Mulgul Drive, Malaga 6062. www.bnd.com.au	Ph: (08) 9247 8777
NZ Office:	70 Allens Road, East Tamaki, Auckland. www.bnd.co.nz	Ph: (09) 273 8600

B&D Doors is a division of B&D Australia Pty Limited - ABN 25 010 473 971

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