



S6 Sectional/Tilt Garage Door Opener



User Manual





Important

It is vital for your safety to follow all the instructions and safety warnings in this booklet. Failure to do so could result in serious personal injury, damage to your property or damage to your new garage door opener. Please save these instructions for future reference.

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Features

Locking door during power failure: If power failure occurs while the door is operating, the door can be released by pulling the clutch down, allowing manual opening or closing and locking. To reset the door when the power comes back on, press the button on the remote, the door will open while the clutch moves to closing position. After this, normal operation is resumed.

Rolling Code: The integrated circuitry generates unique rolling codes. This high security feature enables pairing with up to 20 remotes.

Position Memory: The position limits of the door are retained in the memory of the microcomputer chip. You never need to adjust it, even after power failure.

Soft Start & Stop: This lessens impact forces on the door, prolonging service life and decreasing operating noise.

Resistance Adjustment: the opener continually checks and, where necessary, adjusts its force sensitivity. Manual adjustment is unnecessary.

Photo-Beam Protector: This can be connected with the opener to give additional protection. There are three working modes available for the photo-beam:

- OFF
- ON permantly
- ON only when door closing

Auto Closing: If you forget to close the door, it will close automatically after a set time. The time can be set from 1 to 9 minutes. This function is optional.

Fault Checking: The opener will check for faults and show the code on its LED display. This makes adjustment and maintenance easy.

Easy Operation: Settings are shown on the LED display, making operation easy.

Packing List

Door Opener	1
Track Segments	4
Track Joiners	3
Shuttle Components Kit	1
Remotes	2
Visor Remote	1
Visor Remote Bracket	1
Wireless Wall Switch	1
Warning Label	1
Release Cord (with Caution Paper and Cord Pendant)	1
Door Bracket	1
Wall Bracket	1
"U" Bracket	2
Hanging Bracket	2
Bent Arm	1
Straight Arm	1
Fastener Kit	1

Required Tools List

- Electric drill
- Ladder
- Adjustable crescent spanner or ring spanner set
- Tape measure
- Flat head screwdrivers
- Philips head screwdrivers
- Pliers

Important Safety Instructions

WARNING – INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY FOLLOW ALL INSTALLATION INSTRUCTIONS IN THIS MANUAL AND ALWAYS DO THE FOLLOWING:

1. Keep garage doors properly balanced. Have a professional service person make repairs to cables, spring assemblies and other hardware.
2. Watch a moving door until it completely stops moving. Do not cross the path of a door in motion, and never let children play **"beat the door"**. Do not let children play near a garage door when it is opening or closing.
3. Never put fingers between the sections of a garage door, and teach children to keep their hands and fingers clear of section joints, hinges, tracks, springs and other door parts.
4. Do not let children play with the remotes, and keep these items out of reach of children.
5. Test the automatic reversal monthly. The garage door **MUST** reverse on contact with a 40mm high object (or a 50mm by 100mm board laid flat) on the floor. If the garage door does not reverse, adjust either the force or the limit of travel, and re-test the automatic reversal. Be careful when making adjustments because maladjustments can cause serious injury or death.
6. Disconnect the electrical power to the opener before making any repairs or removing the housing cover.
7. If possible, use the emergency release only when the door is closed. Be careful when using the release with the door open because weak or broken springs may allow the door to fall rapidly, which can cause serious injury or death.
8. Do not use the emergency release rope to open or close the door!
9. The Entrapment Warning Label should be attached in a prominent location.
10. Check the function of the opener on a monthly basis!
11. Please take good care of this manual after installation so you can refer to it for regular safety inspections and maintenance.

Installation

Important Installation Instructions

In order to reduce the risk of serious injuries or death, please read and follow all instructions provided.

1. Install only on a properly balanced door. An improperly balanced door has the potential to inflict severe injury or cause damage to your opener. Have a qualified service person make repairs to cables, spring assemblies, and other hardware before installing the opener.
2. Remove all ropes and remove or make inoperative all locks connected to the garage door before installing opener.
3. Where possible, install the opener 2.1 meters or more above the floor.
4. Do not connect the opener to source of power until instructed to do so (see page 11 - Step 6).
5. Locate the wireless wall switch:
 - Within sight of door
 - At a minimum height of 1.5 meters so small children are not able to reach it
 - Away from all moving parts of the door
6. Attach the Entrapment Warning Label next to the control button in a prominent location. Use a staple gun to secure label to surfaces to which the adhesive will not adhere. Attach the Emergency Release label. Attach the label on or next to the emergency release.
7. This opener is to be used only with residential sectional or tilt doors.
8. To avoid damage to the garage door and opener, disable locks before installing and operating the opener.
9. Prior to installation, check for and avoid any damaging of covered electrical, gas or water lines in the walls or ceilings.
10. The garage ceiling must be designed so that a secure fastening of the opener is guaranteed.
11. The installer must ensure that the opener is firmly attached to the garage structure. Do not attach to gypsum or plaster ceilings.
12. The emergency release rope must be installed at an easy to reach height, approx. 1.8 meters above the floor. Check the emergency release to ensure operation with only moderate force required.
13. Do not use the emergency release rope to open or close the door.
14. Check the function of all safety devices (light beam device, emergency release, and automatic reversal).
15. After installing the opener, the door must reverse when it contacts a 40mm high object (or a 50mm by 100mm board laid flat) on the floor.
16. The mechanical limitation device should be installed on the end of each horizontal rail in order to avoid the door panels sliding out of the rail.
17. The installation and wiring must comply with local regulations.

Work safely! Always wear appropriate safety protection when using any tools. For garages without a second access, an additional emergency release is necessary, which prevents a possible lock out.

Before You Start

- 1) Read these instructions carefully.
- 2) Make sure your door structure is solid and suitable to be motor driven.
- 3) Make sure when the door is moving, there are no friction points.
- 4) The door must be properly balanced and must be easily lowered and raised by hand.

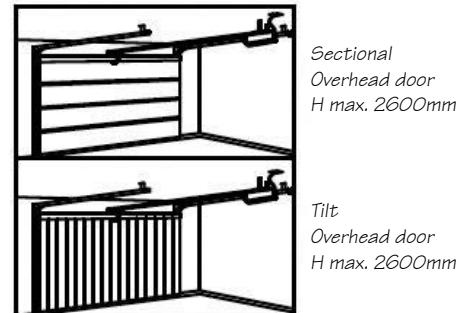


Fig 1

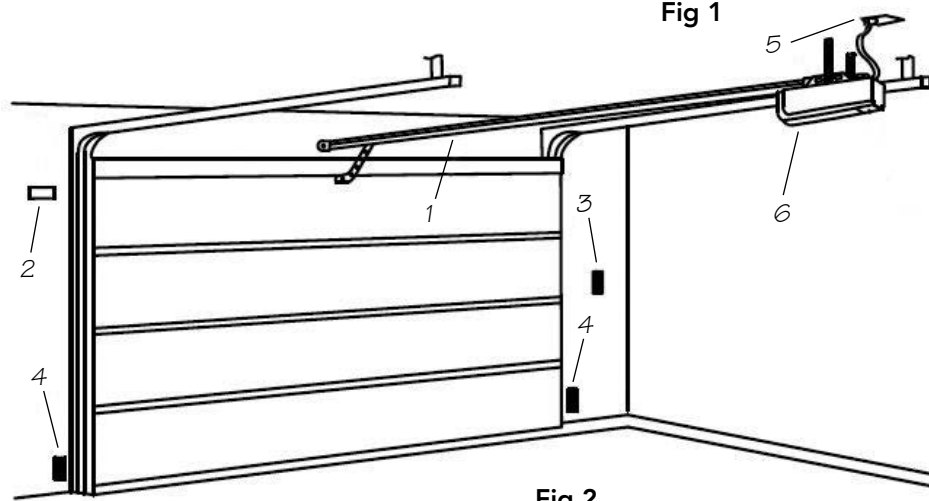


Fig 2

Refer to Fig. 2 for recommended installation.

- 1) Track
- 2) 24V DC flash light (optional)
- 3) Wall switch
- 4) Photo beam (optional)
- 5) Power socket
- 6) Door opener

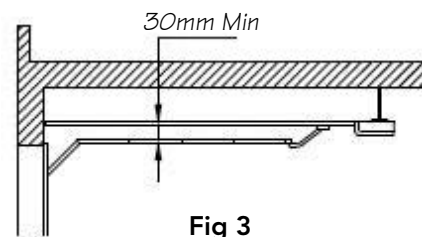


Fig 3

Maintain a minimum gap of 30mm between the top panel and the bottom of rail (Fig 3). Make sure the track is horizontal and vertical to the shaft. Make sure the connection of hanging bracket F and ceiling is firm enough (Fig. 4).

WARNING: Make sure the opener is attached to a solid ceiling and not to plasterboard. Failure to have a safe and secure fixing will lead to opener falling, and cause serious personal and/or property damage.

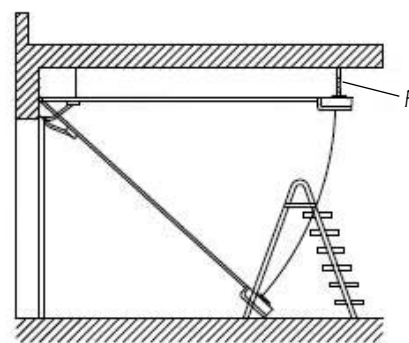
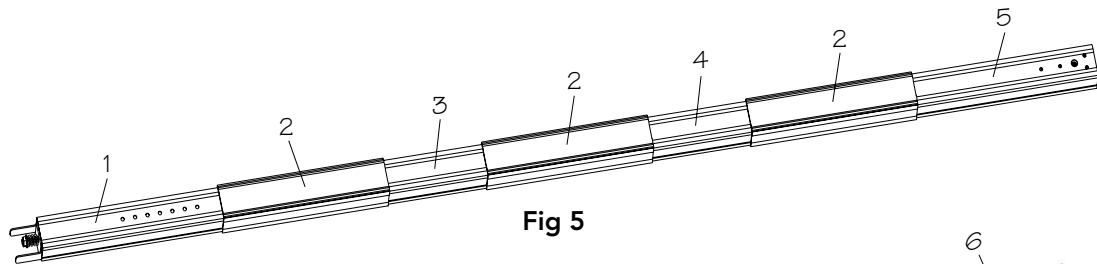


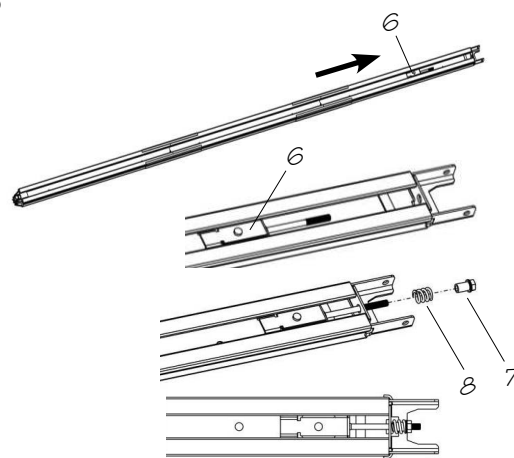
Fig 4

Step 1 - Assemble the Track

Take out the track components and lay them on a clean and flat floor. Connect the four C shape sectional rails (parts 1, 3, 4, 5) with connection sleeves (part 2) (see Fig 5). Centre the sleeves over the rail joins.

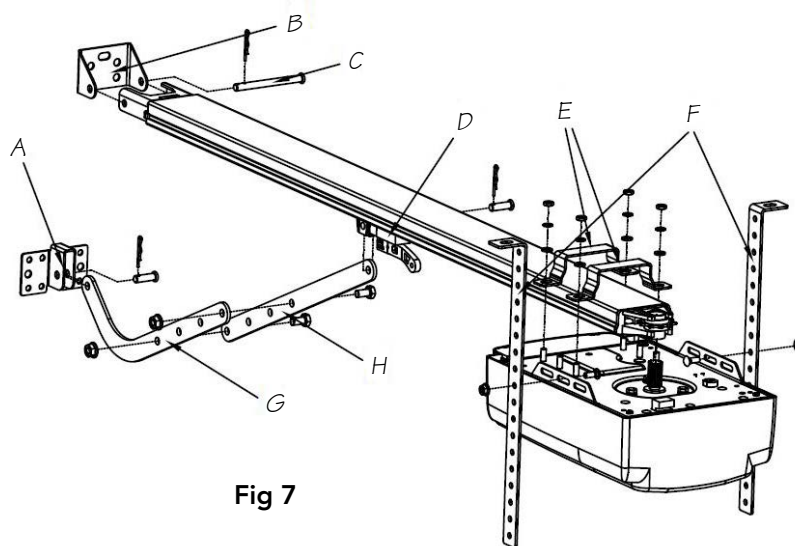


Pull the screw rod (part 6) (Fig 6) along with the belt to the end rail position. Put on spring (part 8) and screw nut (part 7) on loosely. Ensure the belt is stretched tightly by compressing the spring (part 8) and screwing the nut on tightly. It may need to be tightened further later on if belt slipping occurs.



Step 2 - Attach the Motor

- A Door bracket
- B Wall bracket
- C Axis pin $\varnothing 8 \times 90$ and split pin
- D Shuttle
- E U-brackets
- F Hanging bracket
- G Bent arm
- H Straight arm



Remove opener from the package and place it on a clean and smooth working surface. Connect the rail and opener in the correct direction and press them into position. Lock them together using the U-brackets (E) (Fig 7) and tighten using $\varnothing 6$ flat washer, $\varnothing 6$ spring washer and M6 nut.

Install the shuttle (D) to the track using 4pcs of M6x23 screws (Fig 8). Tie the clutch cord and ensure it is stable.

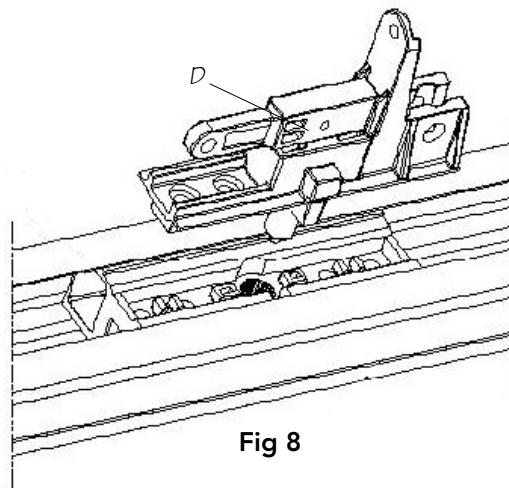


Fig 8

Step 3 - Attach the Front Wall Bracket

Install the front wall bracket (B) on the lintel above the door. The centerline of front bracket should coincide with the lintel center line (Fig 9). The centerline of the two horizontal installation holes must not be lower than the highest point of garage door when operating.

Note: Check that the front bracket mount is strong enough for the job.

Lift the front end of the rail (Fig 9) and attach to the front wall bracket (B) using the bolt and split pins (C).

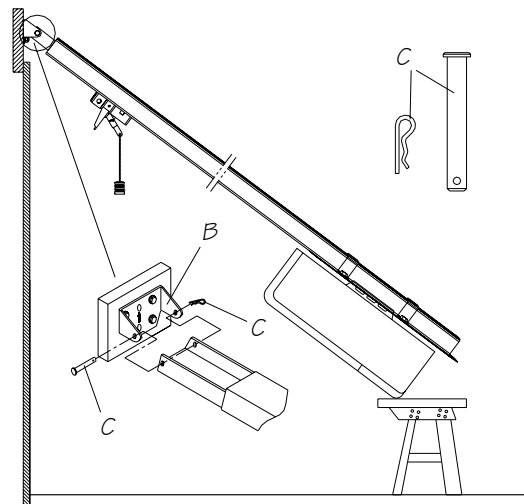


Fig 9

Step 4 - Attach the Roof Bracket

Fix the hanging brackets (F) to the edge of the motor unit (Fig 7) using M6x16 carriage bolt.

Swing the motor up to the roof and note where the hanging brackets will mount to the roof. Drill holes and mount the hanging brackets. The excess hanging bracket protruding below the motor can be cut off.

NOTE: Make sure the track is at right angles to the door and about level. Make sure the ceiling is sturdy enough where the hanging bracket connects.

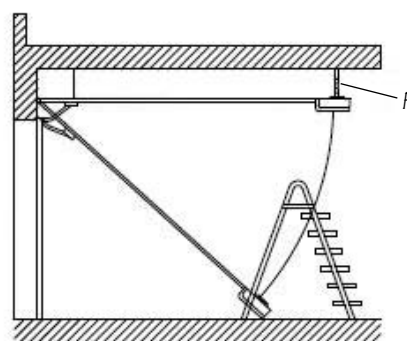


Fig 10

Step 5 - Install the Drawbar

Close the door, pull down the clutch handle (part 1), and move the shuttle close to the door (Fig 11). The horizontal distance between the shuttle and the door should be 300-400mm.

Use one of the $\varnothing 8 \times 25$ pins to attach the straight drawbar (part 2) to the connection hole in the clutch (part 1) and secure using the split pin (part 6). Use the remaining $\varnothing 8 \times 25$ pin to attach the bent drawbar (part 5) to the connection hole of the door bracket (part 7) and secure using the split pin (part 6).

Connect the straight drawbar to the bent drawbar using the two M8x20 bolts (part 3) and lock tightly using the two flange hexagon header nuts M8 (part 4).

Adjust the length of the rope attached to the clutch so the height from the rope handle (part 8) to the ground is not less than 1.8 meters.

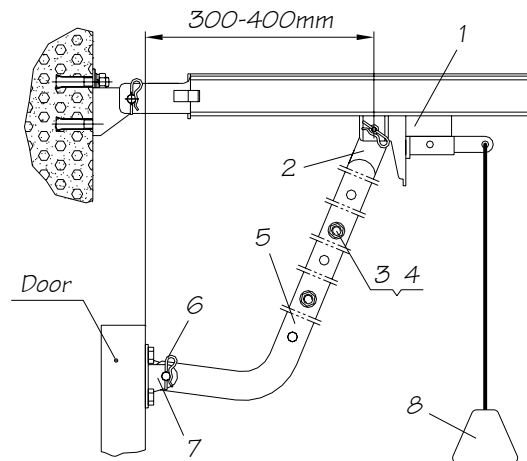


Fig 11

Step 6 - Programming the Unit

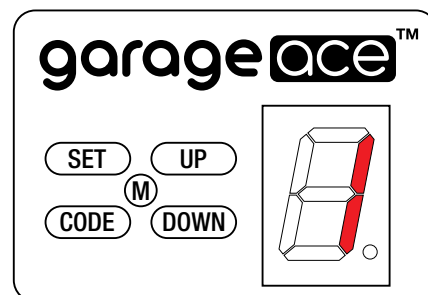
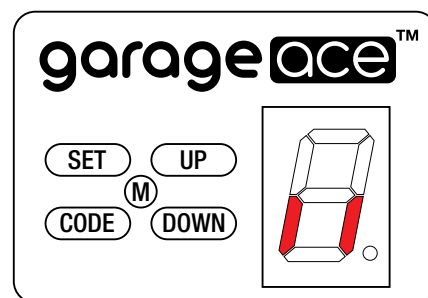
Plug the motor unit into a power outlet and turn on. The LED panel will count down from 9 to 0 and then display 11.

In some cases where the unit has had extra testing in the factory, the display may show a “-”.

Setting the Travel Limits

This operation will set the open position of the door and also the closed position. This always needs to be done for new installations.

Open Position - Press and hold the “SET” button for 3 seconds until the LED flashes “1”. Press “SET” button again for 1 second. “1” should now display steadily (not flashing). Adjust the upper limit by pressing “UP” button until the door is



positioned where you consider it to be fully opened. You can fine-tune the position using the "UP" or "DOWN" buttons. (The LED flashes "n" or "u" during opening or closing.) Then press "SET" button to save the position. The display will change to "2" automatically.

Closed Position - Now adjust the down limit by pressing "DOWN" button until the door is positioned where you consider it to be fully closed. You can fine-tune the position using the "UP" or "DOWN" buttons. (The LED flashes "n" or "u" during opening or closing.) Then press "SET" button to save the position.

The opener will operate a cycle automatically to remember the limit positions and the original opening and closing force, then return to standby mode.

During learning, if the door stops unusually, and flashes either "H", "C", "O" or "L" for 5 seconds, this indicates a problem. If this happens, see the Troubleshooting Guide on page 16.

Coding Remotes & Wall Switch

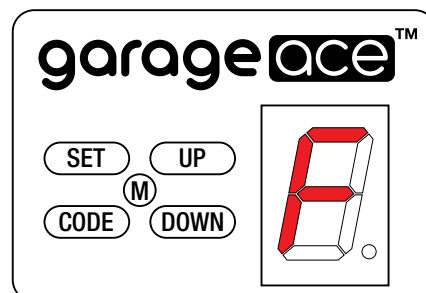
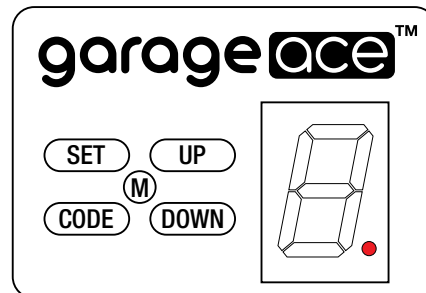
The remotes normally come pre-programmed. You can, however, program the buttons manually.

Press and hold the "Code" button for 1 second until the LED dot comes on. Press the desired remote or wall switch button once. The dot will go off. Press the same remote button again (within 20 seconds) and the dot will flash fast 8 times, then return to standby mode.

The button is now set up to control that particular door. You can set up other buttons on the same remote to control other doors using the same procedure.

The system has the capacity to store up to 20 remotes.

If the LED display flashes "F" and returns



to standby mode (after you have pressed the Code button), this indicates that the memory storage is full (20 remotes). You will need to delete all remotes and start over.

To delete all remotes, press and hold the "CODE" button for more than 8 seconds until the LED flashes "C". All the remotes are now deleted.

Setting the Operating Force

This operation will set the operating force of the door when opening or closing. The default force is 5. This will not normally need adjusting and will only be required if the door is struggling to open or close or is not reacting appropriately to obstructions.

Press and hold the "SET" button for 3 seconds until the LED flashes "1". Press the "UP" or "DOWN" button until the LED flashes "2", then press the "SET" button. The unit is now in force adjustment mode. The LED displays the current set force.

Press "UP" button to increase the force and "DOWN" button to decrease the force. The maximum force is 9 and the minimum is 1. Press the "SET" button to confirm the setting and the opener will return to standby mode.

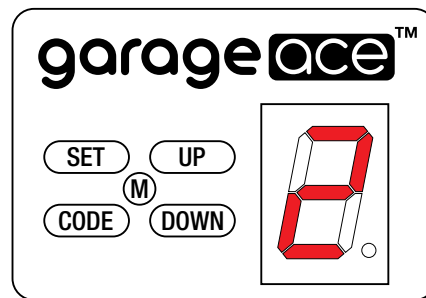
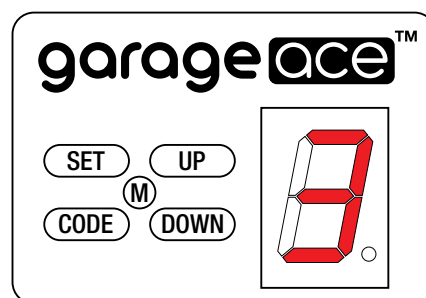


Photo-Beam Setting

This operation is only required if you are setting up a photo-beam sensor which is an accessory available separately. The default setting of photo-beam is "0".

Press and hold the "SET" button for 3 seconds until the LED flashes "1". Press "UP" or "DOWN" button until the LED flashes "3", then press the "SET" button. The unit is now in Photo-Beam setting mode. The LED displays the current setting.

Press the "UP" button until the LED displays "1". The photo-beam function is now active. Press the "DOWN" button until the LED displays "0". The photo-beam function



is now inactive. Press the "SET" button to confirm the setting and the opener will return to standby mode.

Note: Set the photo-beam function to "0" if you aren't using the photo-beam sensors.

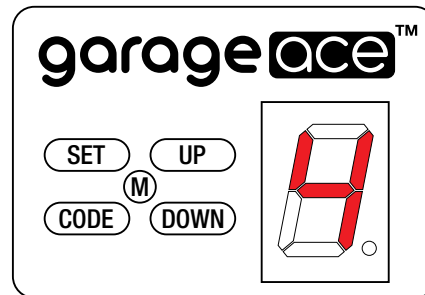
Auto-Close Setting

This option is only available if the door is fully open and a photo beam is installed and operational. The default setting is "0".

Press and hold the "SET" button for 3 seconds until the LED flashes "1". Press the "UP" or "DOWN" button until the LED flashes "4", then press the "SET" button. The unit is now in Auto-Close setting mode. The LED displays the current setting.

Pressing the "UP" button once will increase the auto-close time by 1 minute. The maximum time is 9 minutes.

Pressing the "DOWN" button once will decrease the auto-close time by 1 minute. The auto-close function will be turned off when the LED displays "0". Press the "SET" button to confirm the setting and the opener will return to standby mode.



Opening the Door Manually

The door can be opened manually if required (i.e. in the case of a power outage).

Simply pull down the cord attached to the shuttle mechanism to disengage the shuttle (fig 12) and move door by hand.

To re-engage the door, simply run opener in automatic mode or move the door by hand until the belt catch engages with the shuttle.

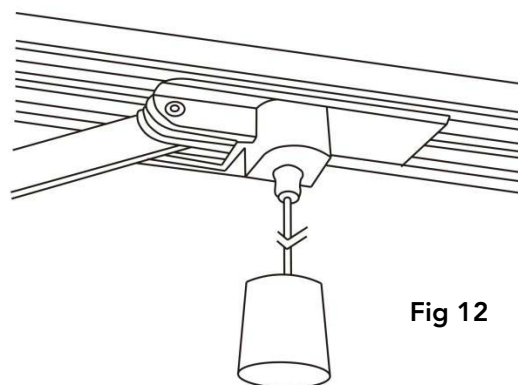


Fig 12

Wall Switch Installation

Wall switches must be installed in a place that can clearly see the operation of the door and must be 1.3m above the ground to prevent children from playing with it.

There are two types of wall switch; wireless and hard wired.

For wireless, please refer to step 6 for programming.

For hard wired, connect the two terminals in the back of the wall switch with the two terminals in the green terminal block on the opener marked "GND" and "PB". The wall switch effectively just bridges the "GND" and "PB" terminals to activate the door.

Battery Backup

This optional accessory will allow your opener to remain powered up and operational during a power cut.

Assemble the battery using battery bracket, washers and nuts supplied (Fig 13).

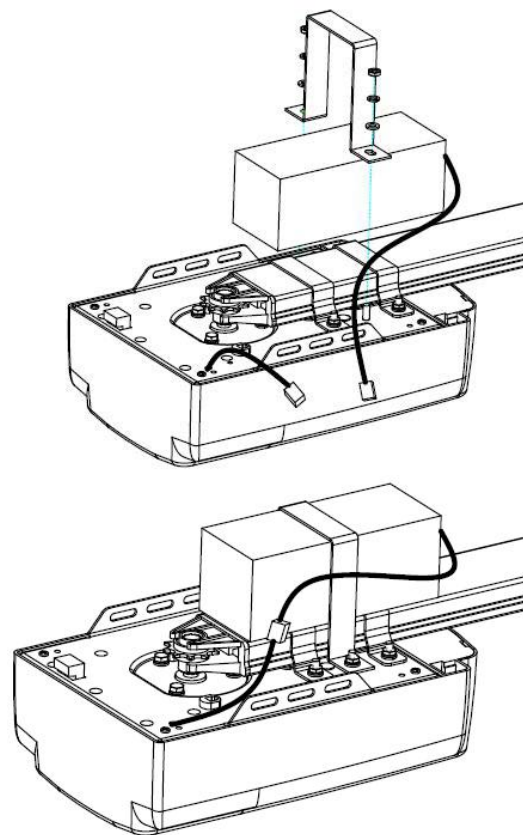


Fig 13

Maintenance

No particular maintenance is required for the logic circuit board.

Check the door at least twice a year if it is properly balanced, and all working parts are in good working condition or not.

Check the reversing sensitivity at least twice a year, and adjust if it is necessary.

Make sure that the safety devices are working effectively (photo beams, etc.)

Check belt drive remains tight at least twice a year.

Note: A badly operating door can affect the life of the automatic opener due to incorrect loads, and will void the warranty.

Technical Specifications

Model:	S6
Rated Door Area:	≤ 15.0 sqm
Rated Lifting Force:	≤ 100 kgs
Rail:	Steel
Drive:	Belt
Motor:	24V / 140W
Input Voltage:	110V - 270V
LED Bulbs:	24V / 14pcs
Transformer:	105°C Temperature detect switch
Radio Frequency:	433.92 MHz
Coding Format:	Rolling code (7.38x10 ¹⁹ combinations)
Standard Remotes:	2 supplied
Visor Remote:	1 supplied
Wireless Wall Switch:	1 supplied
Code Storage Capacity:	20 different codes
Working Temperature:	-40°C - +50°C
Safety Protection:	Soft start & soft stop Optional photo beam

Troubleshooting Guide

Fault	Cause	Solution
Opener not working at all	<ol style="list-style-type: none"> 1. Power supply disconnected 2. Loose wiring 	<ol style="list-style-type: none"> 1. Check the power supply 2. Carefully open the motor cover and check all wiring is connected and there are no loose plugs
LED displays "--" – opener doesn't work	<ol style="list-style-type: none"> 1. Faulty setting of the travel limit 	<ol style="list-style-type: none"> 1. Reset the travel limits (page 11)
The door opens but does not close	<ol style="list-style-type: none"> 1. Photo beam obstruction 2. Photo beam setting is turned on but no photo beam is installed 	<ol style="list-style-type: none"> 1. Remove obstruction 2. Cancel then photo beam setting (see page 13)
Open and close action works in reverse	<ol style="list-style-type: none"> 1. The positive and negative motor wires on the control board are reversed 	<ol style="list-style-type: none"> 1. Unplug the power to the motor, remove the motor cover and reverse the positive and negative wires
Door auto reverses to full open before completely closing	<ol style="list-style-type: none"> 1. There was an obstruction 2. Travel limits may not be set correctly 3. Some older doors have unbalanced springs 	<ol style="list-style-type: none"> 1. Remove obstruction 2. Reset the travel limits (page 11) 3. Increase the operating force (page 12)
Remote doesn't work	<ol style="list-style-type: none"> 1. Flat battery in the remote 2. Motor antenna is loose or not extended 3. Nearby interference 	<ol style="list-style-type: none"> 1. Replace the remote battery 2. Check the antenna and fully extend 3. Get rid of interference
Can't add new remotes	<ol style="list-style-type: none"> 1. Memory is full 2. New remote is from another brand 	<ol style="list-style-type: none"> 1. Check that the memory is full and clear if required (see page 11) 2. Use GarageAce™ remotes only
LED displays "C" – opener doesn't work	<ol style="list-style-type: none"> 1. Motor cord is loose 2. Control board is damaged 	<ol style="list-style-type: none"> 1. Reinsert motor cord 2. Replace control board (refer supplier)
LED displays "H" – opener doesn't work	<ol style="list-style-type: none"> 1. Motor is damaged 	<ol style="list-style-type: none"> 1. Replace motor (refer supplier)
LED displays "H" after opener moves door only centimeters	<ol style="list-style-type: none"> 1. Magnetic position sensor has loose wiring to the control board 2. Magnetic position sensor or control board is damaged 	<ol style="list-style-type: none"> 1. Turn the power off, remove the motor cover and check the sensor wiring 2. Replace the magnetic sensor or control board (refer supplier)
Loud banging noise when door tries to operate	<ol style="list-style-type: none"> 1. Belt drive is too loose 	<ol style="list-style-type: none"> 1. Tighten belt drive

Limited Warranty

Before making any warranty claims or returning the unit to the point of purchase, please firstly contact us on 0800-600-789 and tell us about your problem. Many faults are simple to resolve and this should be checked first before you disassemble your unit.

Newfield Group warrants to the original purchaser ("the buyer") that the GarageAce™ door opener ("the unit") sold under this warranty will be free from defects of materials and workmanship for a period of 12 months from date of purchase. With regard to the motor unit only this warranty applies for 5 years from date of purchase.

Accordingly, if the unit fails due to defects in materials or workmanship within the warranty period, Newfield Group will, provided the defect part or unit is returned to the point of purchase, undertake to repair or, at its option replace, any defective part or unit and return it to the buyer's point of purchase at no cost. Repairs and replacement parts are warranted for the remaining portion of the original warranty period.

Limitations

This warranty expressly excludes malfunctions and/or defects to the unit or its operation due to any of the following:

- a) failure to observe installation, adjustment, maintenance or operating instructions provided with the unit;
- b) incorrect installation, operation or adjustment of the garage door to which the unit is fitted;
- c) connection to any garage door outside the specifications set out in the owner's manual.

This warranty is the only warranty made by Newfield Group. All other warranties, representations and conditions of any kind, express or implied are hereby excluded. Nothing in this warranty is intended to have the effect of contracting out of the provisions of the Consumer Guarantees Act (1993), except to the extent provided by that Act and all provisions of this warranty shall be read and modified to the extent necessary to give effect to that intention.



Warranty & Service Registration Form

Please fill in and return by post or email (smartphone photo) to Newfield Group
Post: PO Box 11303, Christchurch, New Zealand • Email: sales@newfield.co.nz

Contact Name:

Phone: Mobile:

Address:

Model No: Serial Number:

Date of Purchase: Purchased From:

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