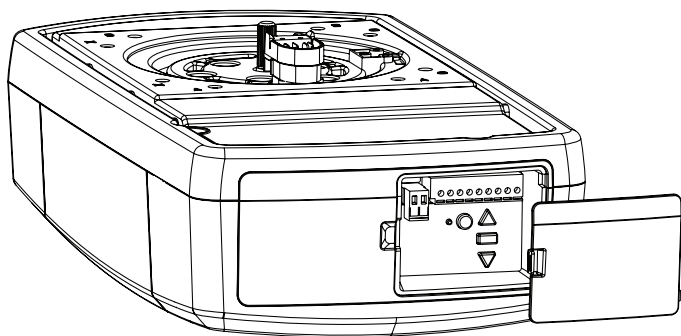


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battery backup
compatible



capable

Commander Extreme MS125MYQ

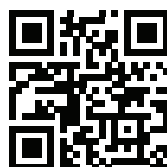
(MS125MYQC25, MS125MYQXPS25,
MS125MYQXPS30)

Sectional Garage Door Opener

Installation and Operating Instructions



Australia



New Zealand

Owners Copy: SAVE THESE INSTRUCTIONS for future reference



This manual contains **IMPORTANT SAFETY** information
DO NOT PROCEED WITH THE INSTALLATION BEFORE READING THOROUGHLY



SAFETY INSTRUCTIONS

WARNING

- Failure to comply with the following instructions may result in serious injury or property damage.
- Read and follow all instructions carefully.
- The garage door opener is designed and tested to offer safe service provided it is installed and operated in strict accordance with the instructions in this manual.



These safety alert symbols mean **WARNING** : A possible risk to personal safety or property damage exists.

- Keep the garage door balanced.** Do not let the garage door opener compensate for a binding or sticking garage door. Sticking, binding or unbalanced doors must be repaired before installing this opener.
- Do not wear rings, watches or loose clothing** while installing or servicing a garage door opener. Wear gloves and suitable protective clothing where appropriate.
- Frequently examine the door installation.** In particular examine cable, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since springs and hardware are under extreme tension and a fault can cause serious personal injury.
- To avoid serious injury from entanglement, **remove all ropes, chains and locks connected to the garage door** before installing the door opener.
- Installation and wiring** must be in compliance with your local building and electrical codes.
- The safety reverse system test is very important.** Your garage door **MUST** reverse on contact with a 40 mm obstacle placed on the floor. Failure to properly adjust the opener may result in serious injury from a closing garage door. **Repeat the test once a month and make any necessary adjustments.**
- This appliance should not be used by children or persons with reduced physical, sensory or mental capabilities, or a lack of experience & knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Automatic Drive** - Keep away from the area of the door as it may operate unexpectedly.
- WARNING!** Product includes wireless transmitters and wall controls that contain coin/button cell batteries. Keep wireless devices and batteries away from children. Battery can cause severe or fatal injuries in 2 hours or less if swallowed or placed inside any part of the body. Seek immediate medical attention if it is suspected that a coin/button cell battery has been swallowed or placed inside any part of the body.
- The opener must not be used on a wicket door (door within a door).**
- The Protector System™ (IR Beams) must be used for all installations where the closing force as measured on the bottom of the door is over 400 N (40 kgf).** Excessive force will interfere with the proper operation of the safety reverse system or damage the garage door. **Installers must ensure that the doors are installed in a compliant manner as per AS/NZS 60335.2.95.**
- After installation, ensure that the parts of the door do not extend over public footpaths or roads.**
- Install the wireless wall control (or any additional wall control) **in a location where the garage door is visible away from moving parts, at a height of at least 1.5 m and out of the reach of children. Do not allow children to operate push buttons or transmitters.** Serious personal injury from a closing garage door may result from misuse of the opener.
- Permanently fasten the warning labels in prominent places,** adjacent to wall controls and manual release mechanisms as a reminder of safe operating procedures.
- Activate opener only when the door is in full view, free of obstructions and the opener is properly adjusted. No one should enter or leave the garage while the door is in motion.**
- Do not allow children to play near the door or with door controls.**
- If the power cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.
- Disconnect electric power to the garage door opener before making repairs or removing covers.**
- This opener should not be installed in a damp or wet space exposed to weather.**

KEEP THESE INSTRUCTIONS

NOTE: If your garage has no service entrance door, we recommend an outside quick release must be installed. This accessory allows manual operation of the garage door from outside in case of power failure.

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INTRODUCTION

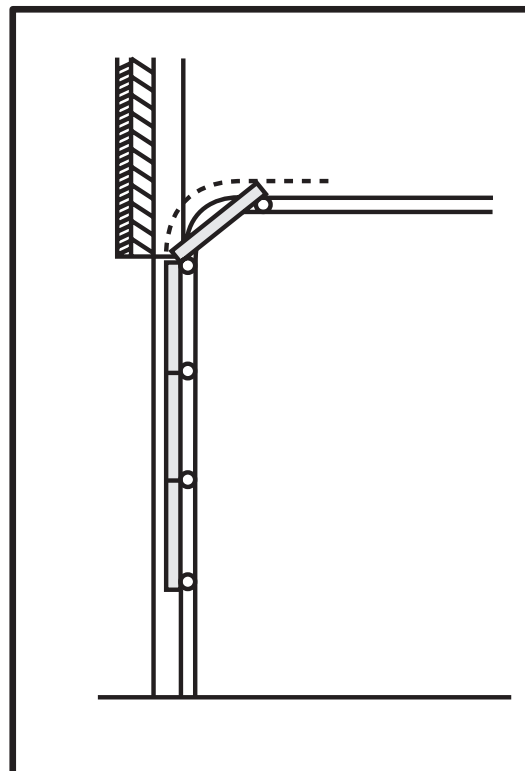
BEFORE YOU BEGIN:

1. Look at the wall and ceiling above the garage door. (The opener and header bracket must be securely fastened to structural supports).
2. Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware (not supplied) may be required.
3. Do you have an access door in addition to the garage door? If not, model E1702M Outside Quick Release Accessory is required. This accessory allows manual operation of the garage door from outside in case of power or mechanical failure.
4. Complete the following test to make sure your garage door is balanced and is not sticking or binding:
 - Lift the door about halfway. Release the door. If balanced, it should stay in place, supported entirely by its springs.
 - Raise and lower the door to see if there is any binding or sticking, 20 kg is the absolute maximum allowable force to raise or lower the door in any position. If your door binds, sticks, or is out of balance, call a trained door technician.

1 DOOR TYPES

A. Sectional Door with curved track

To suit spring balanced Residential Sectional doors up to 20.0 m².



Electrical Connection

A 240 V General Purpose Outlet (GPO) ie. Power Point must be available in close proximity to the powerhead. This fitting is not part of the Opener hardware and must be supplied by the consumer.



In the event of a power outage or the unit being disconnected from the power source, the door **MUST** be operated and supervised so that it completes a full UP and DOWN cycle with no obstructions in place to ensure that the unit automatically checks that the safety force settings are correct.

INTRODUCTION

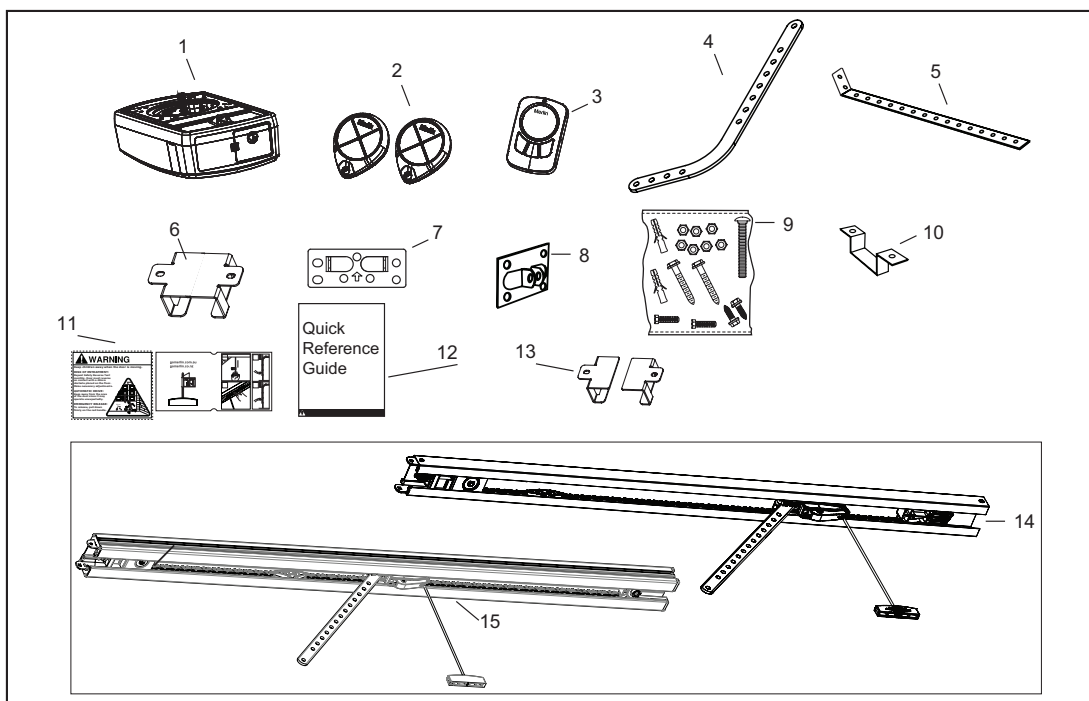
2 CARTON INVENTORY

Your garage door opener and rail are packed in two separate cartons. The Commander Extreme MS125MYQ opener carton contains the opener, its fitting hardware and accessories. The rail carton contains the rail and some hardware.

Rails:

Different length rails are available for different height doors, ensure you have the correct one.

- | | |
|---|--|
| 1. Opener | 9. Hardware bag |
| 2. E970M four button remote control (2) | 10. C-Rail bracket (2) |
| 3. E148M four button wireless wall mount remote control | 11. Warning labels |
| 4. Curved door arm | 12. Quick Reference Guide |
| 5. Hanging bracket (2) | 13. Centrerail brackets (set) |
| 6. Rail bracket | 14. 7025CR5ANZ Rail assembly (separate carton) |
| 7. Header bracket | 15. GLD-R2.5M or GLD-R3.0M Rail assembly (separate carton) |
| 8. Door bracket | |



3 RAIL SIZES AVAILABLE

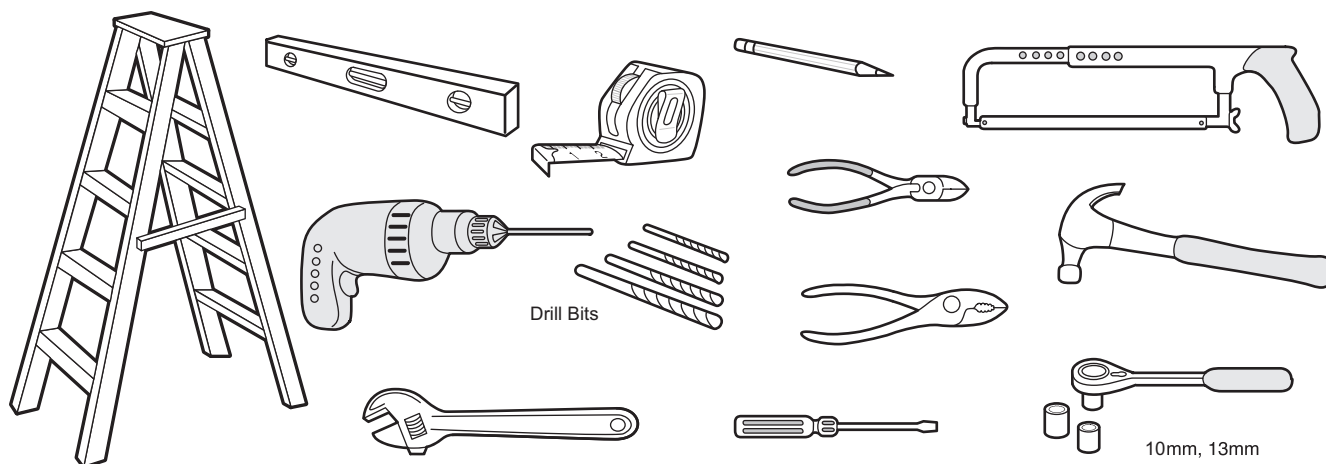
DOOR HEIGHT: Sectional Doors	MODEL CODE:	BELT & RAIL PART NUMBER:	RAIL LENGTH:	CEILING FIXING POINTS (standard):	ALTERNATE FIXING POINT:
Up to 2.5 m	MS125MYQC25	7025CR5ANZ	3300 mm single piece	3140 mm	3250 mm
From 2.5 m - 3.5 m	N/A	740CR5ANZ	1000 mm extension	4140 mm	4250 mm
Up to 2.5 m	MS125MYQXPS25	GLD-R2.5M	3322 mm single piece	Flexible	Flexible
Up to 3.0 m	MS125MYQXPS30	GLD-R3.0M	3822 mm single piece	Flexible	Flexible

NOTE: The Ceiling Fixing Point (Standard) is the position of the hanging bracket measured back from the lintel (see item 1 to 7 of “completed installation”). Also allow 400 mm back from the fixing point for installation of the powerhead (item 7 to 9 of “completed installation”).

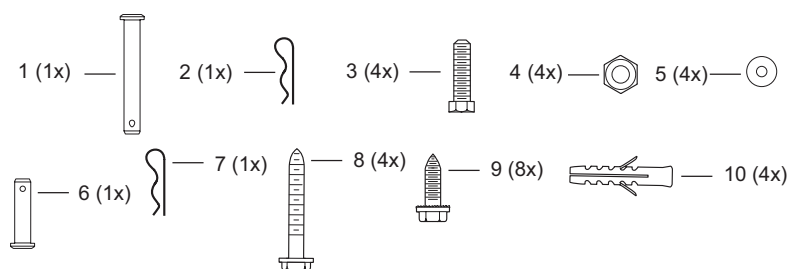
The Alternate Fixing Point will position the hanging bracket between the Powerhead C-Rail brackets, (Item 14 of “completed installation”) and may line up with a structural support more favourably.

INTRODUCTION

4 TOOLS REQUIRED



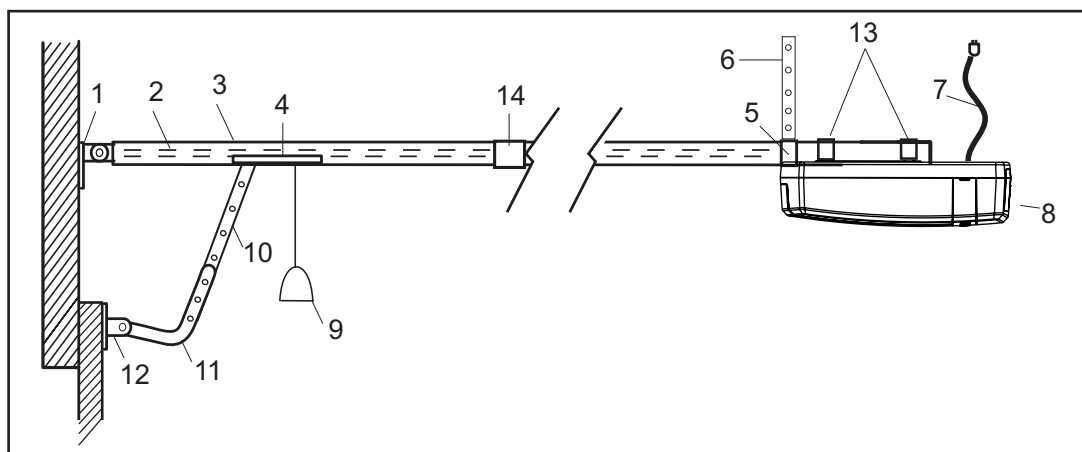
5 HARDWARE PROVIDED



1. Clevis pin 80 mm (**Section 13**)
2. R clip (**Section 13**)
3. Hexagonal head screw (**Sections 15 & 17**)
4. Nut M8 (**Sections 15 & 17**)
5. Flat washer M8 (**Sections 15 & 17**)
6. Clevis Pin (**Section 17**)
7. R clip (**Section 17**)
8. Screw ST6 x 50 mm (**Section 12**)
9. Screw ST6,3 x 18 mm (**Sections 10 & 16**)
10. Wallplug 8mm (**Section 15**)

6 COMPLETED INSTALLATION

As you proceed with the assembly, installation and adjustment procedures in this manual, you may find it helpful to refer back to this illustration of a completed installation.



- | | |
|--------------------|---------------------------------|
| 1. Header bracket | 8. Opener |
| 2. Belt | 9. Manual release rope & handle |
| 3. Rail | 10. Straight door arm |
| 4. Trolley | 11. Curved door arm |
| 5. Rail bracket | 12. Door bracket |
| 6. Hanging bracket | 13. C-Rail brackets |
| 7. Power cord | 14. Centre rail bracket |

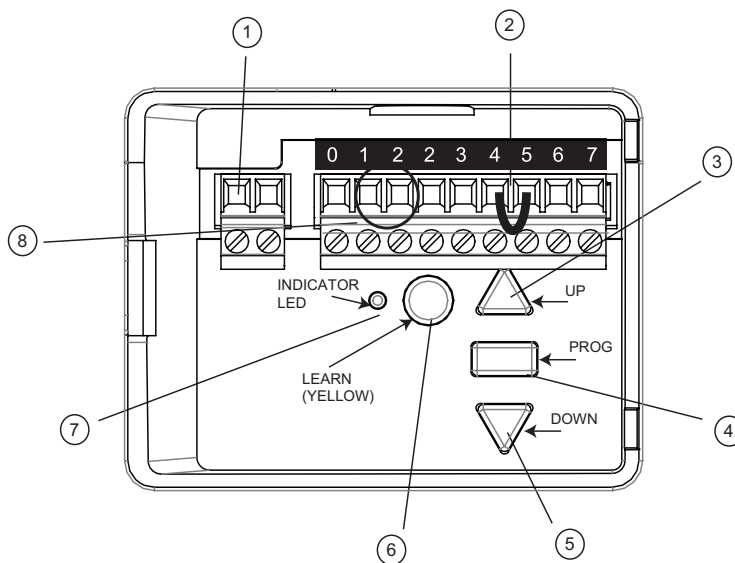
INTRODUCTION

7 CONTROL PANEL (LOCATED UNDER THE COVER AT THE REAR OF THE OPENER)

1. **External Accessory Power:** 30 Vdc 50 mA available for universal receiver.
2. **Terminal Block:** used for external accessories (see chart below).

REF	FUNCTION	COLOUR	POLARITY	COMMENT
0	E-Serial port	Green	+ve	Serial Communication Input
1	Push button	Red	+ve	Dry Contact input for puh button wired wall controls
2	Ground	White	-ve	Common tterminal push button
2	Ground	White	-ve	Common terminal for The Protector System™ (IR Beams)
3	IR Sensor	Grey	+ve	Chamberlain IR Beam The Protector System™ (pulsing type only)
4	Door-in-door	Green	+ve	For Door-in-door dry contact sensor: (see note below)
5	Door-in-door	Green	-ve	Common terminal for Door-in-door dry sensor (4 & 5 are normally linked)
6	Flasher	Black	+ve	Flashing light output: (24 Vdc 150 mA) while door is in motion
7	Flasher	White	-ve	Flashing light output: negative terminal

3. **UP Button:** used for initial programming, to drive the door UP, and for displaying Diagnostic Code - Digit 1.
4. **PROG Button:** used to program door limits, and other features.
5. **DOWN Button:** used for initial programming, to drive the door DOWN, and for displaying Diagnostic Code - Digit 2.
6. **LEARN Button:** used to program transmitters and learn the forces manually.
7. **Indicator LED:** used to indicate various programming modes.
8. **Green Button:** used to activate the door when transmitters are not available. Open - Stop - Close via finger access through the hole in the access cover.



NOTE: Door in Door Connections 4 & 5 (used where built-in pedestrian doors are installed within a garage door). Terminals 4 & 5 are normally linked. If the link is removed the opener will not operate. Remove the link and install a Safety switch to prevent the opener from activating the garage door when the built-in pedestrian door is open.

Terminals are designed for operationg with a dry contact, automatic sensing switch such as model SW02, or similar.

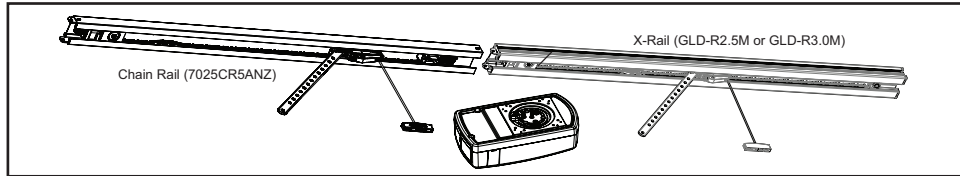
Door safe condition = closed contacts
 Door unsafe condition = open contacts.

ASSEMBLY SECTION

8 ASSEMBLING THE RAIL TO THE OPENER

Your garage door opener and rail are packed in two separate cartons. Remove the Power Head, Rail and all the hardware in preparation for assembly.

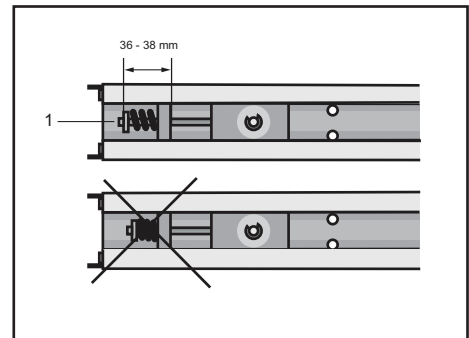
The chain is pretensioned from the factory, however, it is advisable to check the tension and adjust if necessary as outlined in step 9.



9 TIGHTEN THE CHAIN

Note: The spring must be able to compress and bounce during operation. Final tensioning can be performed after installation if necessary. Over tightening the chain may overload the system and cause excessive wear.

1. Tension the chain by adjusting the nut (1), on the pulley assembly, clockwise until the spring is engaged.
2. Continue tightening to compress the spring and remove all the slack in the chain. **DO NOT OVERTIGHTEN** but ensure chain is firm.
3. Adjust the spring to 36-38 mm as indicated in the diagram.

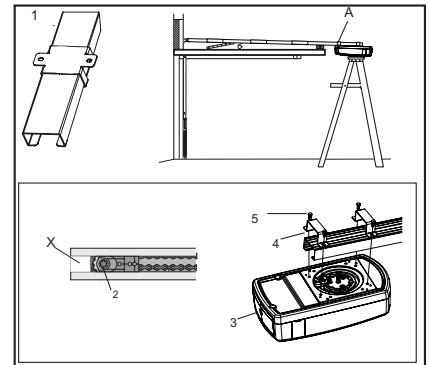


10 FASTEN CHAIN RAIL TO OPENER

Remove the foam transport lock (X)

1. Slide the RAIL BRACKET (1) onto the powerhead end of the rail (A) around 200 mm.
2. Position the rail drive sprocket (2) over the opener motor shaft (3) and push down to install.
3. Secure the rail on the opener with two C-Rail brackets (4) and the screws (5) **Note: Only use 18mm Screws (item 9 in Hardware Provided - Section 5). Secure the rail on the opener with two C-Rail brackets (4) and the screws (5).**

This completes the assembly of the door opener to the rail.

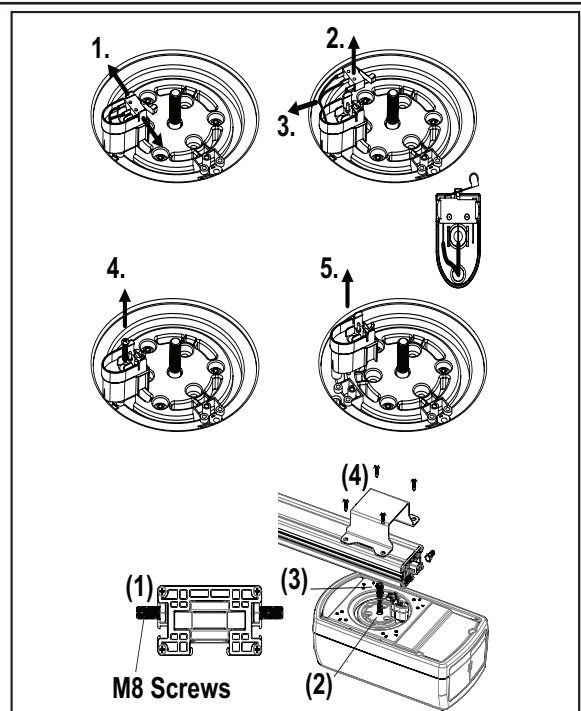


10b FASTEN X-RAIL TO OPENER

These steps need to be followed before fastening the X-rail to the opener:

1. Spread the clips holding the microswitch to the opener
2. Lift the microswitch upward
3. Remove the 2 wires from the microswitch
4. Lift the passpoint housing up over the wires
5. Thread wires through taller pass point housing and repeat steps 1-4 in reverse order, ensure wires are reconnected to the correct micro switch terminals as shown
6. If using the hanging brackets to mount to ceiling, slide 1 x M8 hex head screw into either side of the rail (1). Slide screws 300mm from end of rail.
7. Position the rail drive sprocket (inside the rail) over the operator motor shaft (2) and push down to install. Ensure motor shaft adaptor (3) is in place.
8. Secure the rail on the operator with the Opener Mounting Bracket (4) using ST6,3 x 18 mm screws.

This completes the assembly of the door opener to the rail.



INSTALLATION



Wear protective goggles when working overhead to protect your eyes from injury. Disengage all existing garage door locks to avoid damage to the garage door. To avoid serious personal injury from entanglement, remove all ropes connected to the garage door before installing the opener.

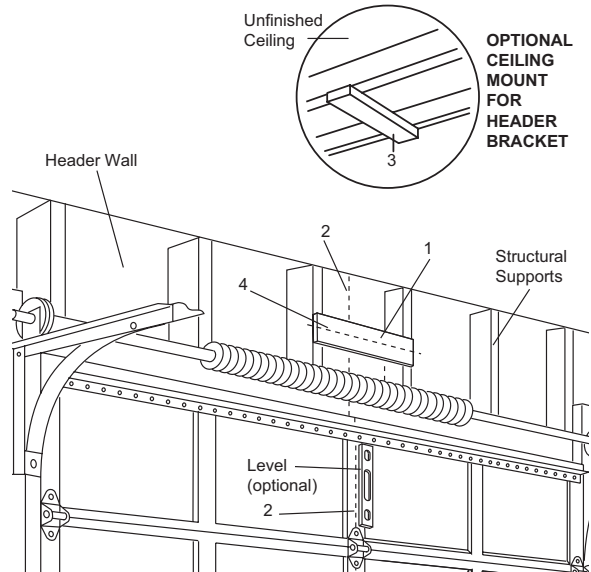
11 HEADER BRACKET POSITIONING

The header bracket must be rigidly fastened to a structural support of the garage. Reinforce the wall or ceiling with a 40 mm (1-1/2") board if necessary. Failure to comply may result in improper operation of safety reverse system.

You can attach the header bracket either to the header wall (1) or to the ceiling (3). Follow the instructions which will work best for your particular requirements.

With the door closed, mark the vertical centre line (2) of the garage door. Extend line onto header wall above the door.

Open door to highest point of travel. Draw an intersecting horizontal line (4) on header wall at least 50 mm above high point to provide travel clearance for top edge of door.

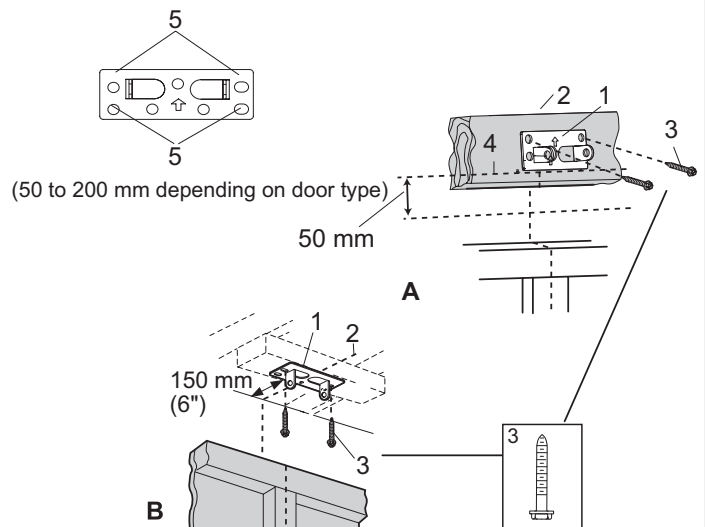


12 INSTALL THE HEADER BRACKET

NOTE: Refer to vertical centre and horizontal lines created in the previous section for proper placement of header bracket.

A. Wall mount: centre the header bracket (1) on the vertical centre line (2) with the bottom edge of the header bracket on the horizontal line (4) (with the arrow pointing toward the ceiling). Drill and secure the Header Bracket using the most suitable variation of holes (5). If using the wood screws provided (3) (item 8 in the Hardware Provided - Section 5), use a 4.5 mm pilot drill. If securing to a metal fixture, self tapping "tek" screws may be more suitable.

B. Ceiling mount: extend vertical centre line (2) onto the ceiling. Centre the header bracket (1) on the vertical mark no more than 150 mm (6") from the wall. Make sure the arrow is pointing toward the opener. Drill and secure the Header Bracket using the most suitable variation of holes (5). If using the wood screws provided, use a 4.5 mm pilot drill. If securing to a metal fixture, self tapping "tek" screws may be more suitable. For concrete ceiling fixtures, 8 mm wall plugs are provided.



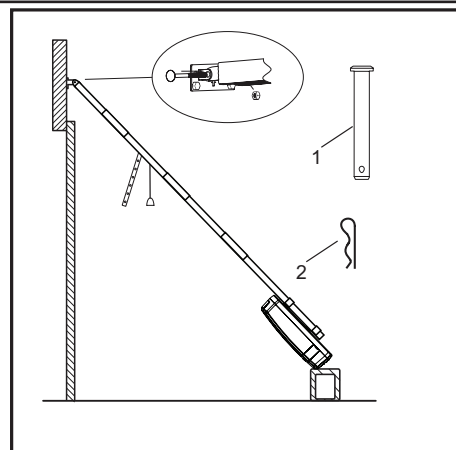
13 ATTACH RAIL TO HEADER BRACKET

Attach the Rail to the Header Bracket

- Position the assembled opener on the garage floor below the header bracket. Use foam packing material as a protective base.

NOTE: If the door spring is in the way you'll need help. Have someone hold the opener securely on a temporary support to allow the rail to clear the spring.

- Position the rail bracket against the header bracket.
- Align the bracket holes and secure with the 80 mm clevis pin and "R" clip (1) item 1 in the Hardware Provided - Section (5) and (2) (item 2 in the Hardware Provided - Section 5).



INSTALLATION

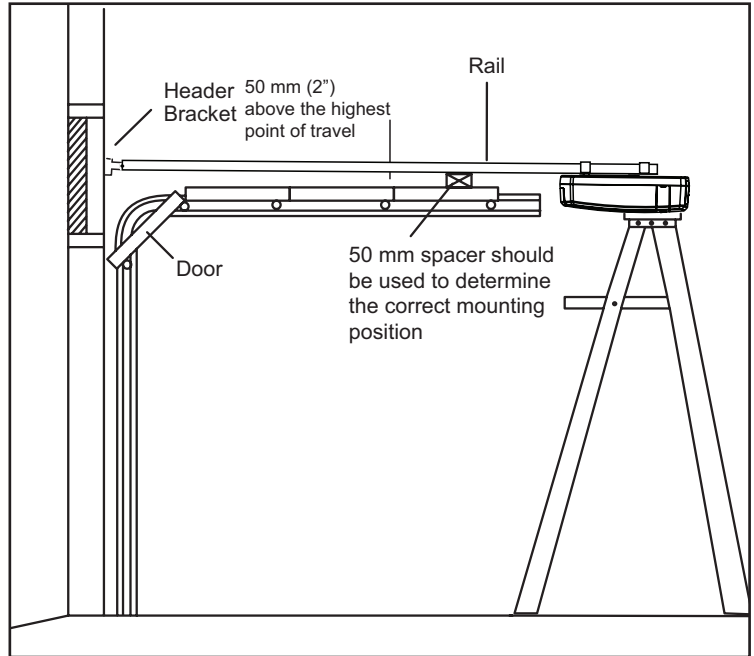
14 POSITION THE OPENER

Disengage the trolley mechanism (see section "Operating the manual release") and slide it back towards the powerhead. Secure the hanging push arm up into the rail assembly temporarily using tape or rope, to avoid a hazard.

SECTIONAL DOOR

You will need a 50 mm piece of timber or similar spacer to gauge the distance between door and rail.

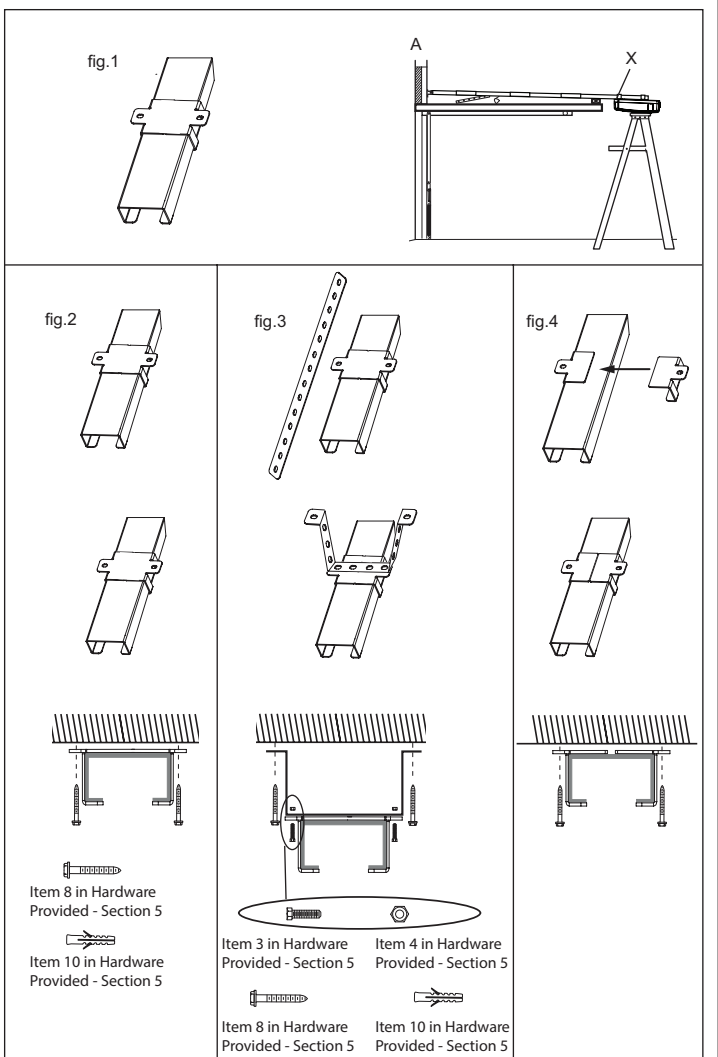
1. Raise the opener onto support.
2. Open the door completely, place a 50 mm spacer between the door and the rail (as shown).
3. The final positioning of the rail should be relatively parallel to the horizontal door panels.



15a HANG THE OPENER - CHAIN RAIL

The opener must be securely fastened to a sound structural support above the opener.

1. Position the opener as in the previous step. Check the rail is centred over the door. Ensure the rail brackets (fig.1) is on the Powerhead end of the rail in a position as close to the opener as possible (X).
2. If mounting directly onto the ceiling, (fig.2) screw the bracket directly into a structural support on the ceiling.
3. If hanging the opener below the ceiling, (fig.3) bend the hanging brackets provided, and secure to both the ceiling and the rail bracket.
4. **The centre rail bracket is recommended on large doors.** Install the centre rail bracket in the mid position of the rail. Simply slip both halves over the top of the rail (fig.4), and secure to the ceiling, either directly or with hanging strips.
5. Check the opener is securely centred over the door. Remove the 50 mm spacer, and any other assembly tools. Operate the door manually and check for unrestricted operation.

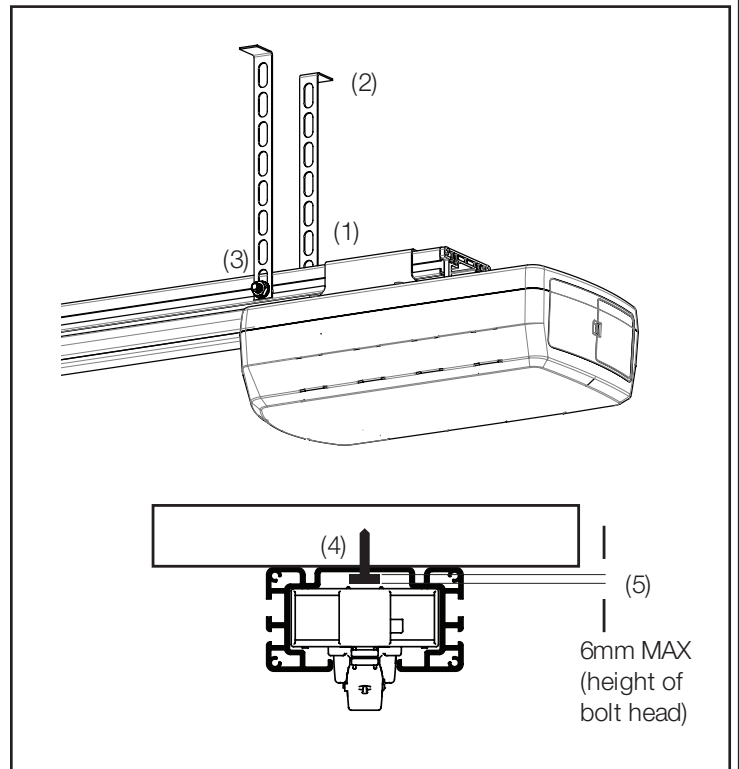


INSTALLATION

15b HANG THE OPENER - X-RAIL

The opener must be securely fastened to a sound structural support above the opener.

1. Position the operator as in the previous step. Check the rail is centred over the door. Ensure the hanging brackets are on the opener end of the rail in a position as close to the operator as possible (1).
2. If hanging the opener below the ceiling, bend the hanging brackets provided, and secure to both the ceiling (2) and the rail mounting screws (3).
3. If mounting directly onto the ceiling, drill appropriate holes through the top of the rail. Use a minimum of 2 screws to fix to the ceiling. Screw the rail directly into a structural support on the ceiling (4). Ensure screw head height does not exceed 6mm (5) to avoid the screw head interfering with the trolley movement.
4. Check the opener is securely centred over the door. Remove the 50 mm spacer, and any other assembly tools. Operate the door manually and check for unrestricted operation.

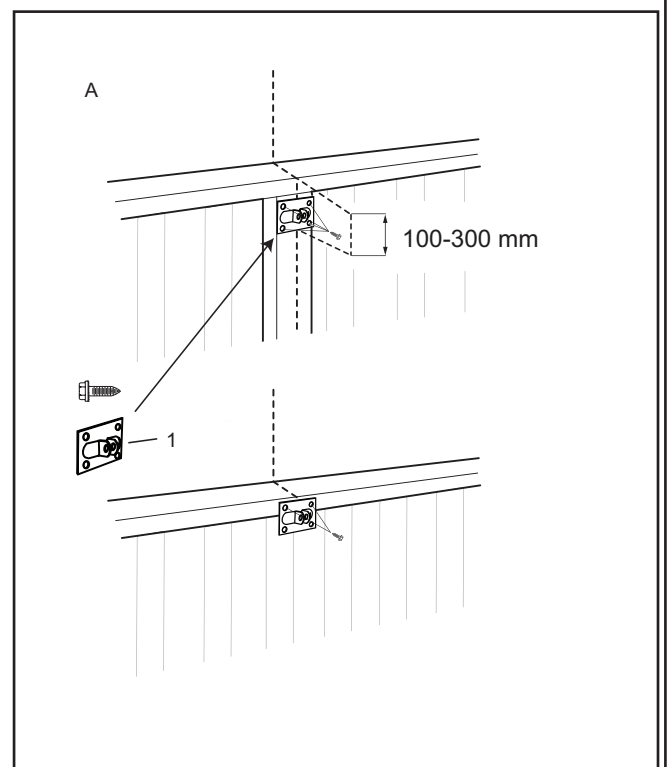


16 FASTEN DOOR TO BRACKET

The door bracket must be securely fastened to the frame or a structural support on the door.

Mounting position for Sectional Doors

1. Align the bracket on the centre line, measure down 100-300 mm from the door top edge.
2. Secure the bracket in this position, using the most suitable variation of holes available.



INSTALLATION

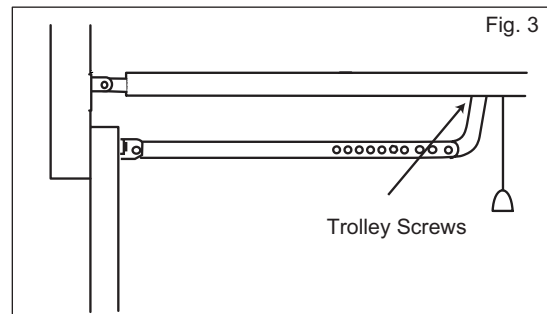
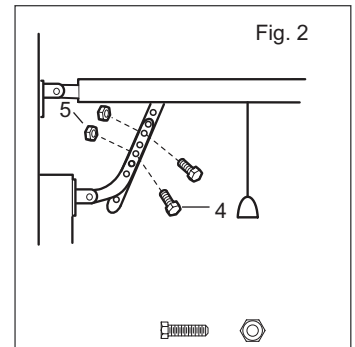
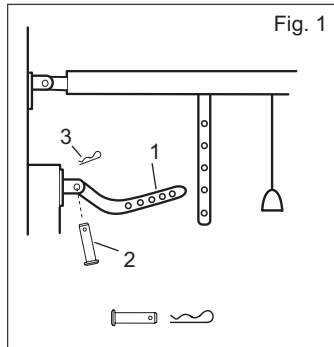
17 ATTACH DOOR ARM TO TROLLEY

Make sure the garage door is fully closed. Pull the manual release cord to disengage the trolley. Slide the trolley to around 300 mm from the header bracket.

1. The straight door arm is already preassembled to the trolley.
2. Install the curved arm onto the door bracket using the Clevis pin (2) (*item 6 in the Hardware Provided - Section 5*) and R-Clip. (3) (*item 7 in the Hardware Provided - Section 5*) supplied.
3. Move the straight and curved arms together and secure using two bolts and nuts provided (4) (*items 3 & 4 in the Hardware Provided - Section 5*).

Ensure the angle of the straight arm is around 20 degrees from vertical, when the door is fully closed.

Alternate Arm Configuration: The curved arm can be assembled directly to the trolley assembly if required (see figure 3). Unscrew the front two screws in the trolley assembly. Remove the straight arm pivot and reassemble with the curved arm bracket.



18 OPERATING THE MANUAL RELEASE



DO NOT DISENGAGE THE OPENER TO MANUAL OPERATION WITH CHILDREN, PERSONS OR OTHER OBJECTS INCLUDING MOTOR VEHICLES WITHIN THE DOORWAY: (The door is under significant tension and if the door has developed a fault or incorrect tension, it may be unsafe and may fall rapidly).

The manual release mechanism enables the door to be manually operated during power outages or in an emergency.

The RED Manual Release cord is preassembled to the trolley. When the opener is installed the handle should be no higher than 1.8 metres from the floor. The cord may need to be extended.

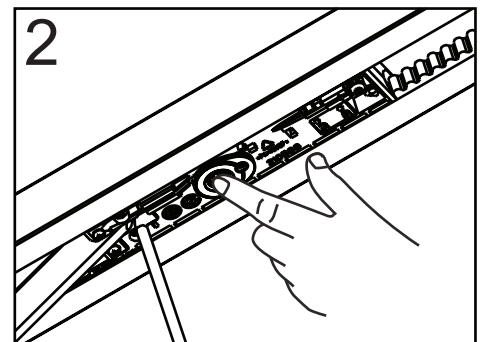
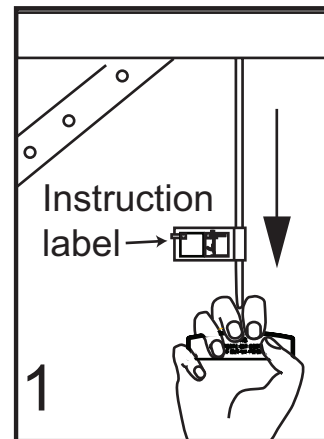
Attach the manual release Instruction Label to the cord as indicated in fig 1.

DO NOT USE THE RED HANDLE TO OPEN AND CLOSE THE DOOR.

To operate the Manual Release:

The door should be fully closed if possible.

1. **Disengage:** Pull the manual release rope and handle down once to disconnect. This will disengage the trolley, allowing the door to be moved by hand, UP and DOWN as many times as needed.
2. **Re-engage:** Press the "GREEN" button in the centre of the trolley assembly. This will re-engage the trolley, and when the door passes the trolley position it will automatically re-engage the opener.



Connect Electric Power

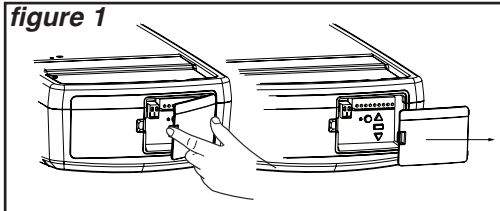
TO AVOID INSTALLATION DIFFICULTIES, DO NOT RUN THE GARAGE DOOR OPENER UNTIL INSTRUCTED TO DO SO. Connect to properly fused and earthed power outlet.

- Ensure all ropes and installation tools have been removed from the door.
- When the opener is switched ON, the operator light flashes a number of times and then remains ON.

ADJUSTMENT SECTION

19 PROGRAM THE TRAVEL LIMITS AND FORCE SETTINGS

Travel limits regulate the points at which the door will stop when moving UP or DOWN. The travel limit buttons are located under the access cover on the rear panel (figure 1).



NOTE: This opener uses a POSITION TAB attached to the belt which activates a mechanical passpoint during the door travel. The indicator LED will blink when this occurs. If the passpoint is not activated during the door travel process, the travel limits cannot be programmed.

TO PROGRAM THE TRAVEL LIMITS:

1. Ensure the door is engaged to the opener trolley before setting the limits, otherwise the yellow trolley may move independently and jam into the powerhead assembly. Press the **PROG** Button until the **UP** Arrow Button and indicator LED begin to flash (figure 2).
2. Press and hold the **UP** Arrow Button until the door is in the desired UP position (figure 3).

NOTE: The UP and DOWN Arrow Buttons can be used to move the door up and down as needed.

3. Once the door is in the desired UP position press and release the **PROG** Button. The **DOWN** Arrow Button will begin to flash (figure 4).
4. Press and hold the **DOWN** Arrow Button until the door is in the desired DOWN position (figure 5).

NOTE: The UP and DOWN Arrow Buttons can be used to move the door up and down as needed.

5. Once the door is in the desired DOWN position press and release the **PROG** Button. The **UP** Arrow Button will begin to flash (figure 2).

SETTING THE FORCE (AUTO):

6. Press and release the **UP** Arrow Button to test the UP limit. When the door has travelled to the programmed UP limit, the **DOWN** Arrow Button will begin to flash.
7. Press and release the **DOWN** Arrow Button to test the DOWN limit. The door will travel to the programmed DOWN limit. The indicator LED will stop flashing. The travel limits and force setting has now been set. Proceed to test safety reverse system.

SETTING THE FORCE (MANUAL LEARN IF REQUIRED):

1. Open the rear access panel. Locate the yellow Learn button.
2. Push the yellow Learn button twice to enter unit into force adjustment mode. The LED (indicator light) will flash quickly.
3. Push the programmed transmitter or push the **UP/DOWN** arrow at the programming display bar. The door will travel to the DOWN (close) position. Push the transmitter again, the door will travel to the UP (open) position.
4. Press and release the **DOWN** Arrow Button to test the DOWN limit. The door will travel to the programmed DOWN limit.

The LED (indicator light) will stop flashing when the force has been set. The door must travel through a complete cycle, UP and DOWN, in order for the force to be set properly. If the unit cannot open and close your door fully, inspect your door to insure that it is not sticking or binding.



*Without a properly installed safety reversal system, persons (particularly small children) could be **SERIOUSLY INJURED** or **KILLED** by a closing door.*

- *Incorrect adjustment of garage door travel limits will interfere with proper operation of safety reversal system.*
- *NEVER use force adjustments to compensate for a binding or sticking garage door.*
- *After ANY adjustments are made, the safety reversal system **MUST** be tested. Door **MUST** reverse on contact with 40 mm high object laid flat on floor.*

CAUTION

To prevent damage to vehicles, be sure fully open door provides adequate clearance.

figure 2

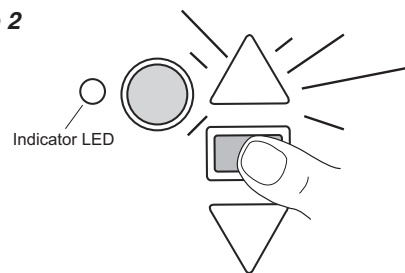


figure 3

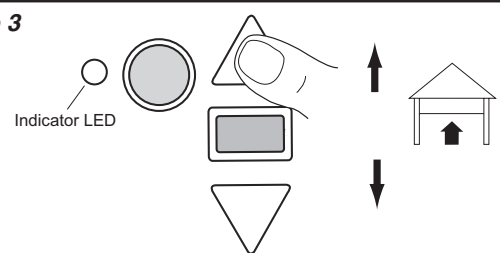


figure 4

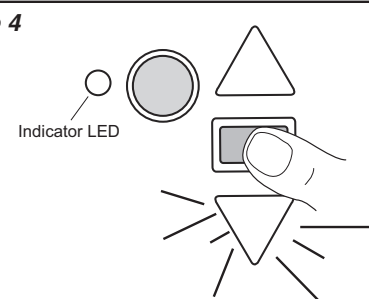
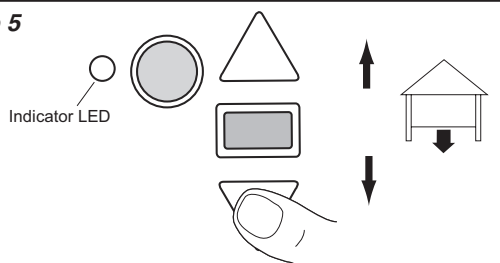


figure 5



ADJUSTMENT SECTION

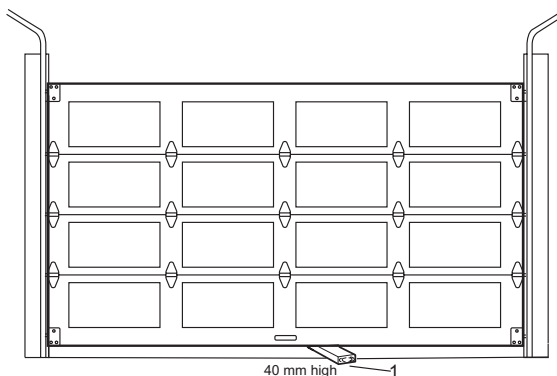
20 TEST THE SAFETY REVERSE SYSTEM



The safety reverse system test is important. Garage door must reverse on contact with a 40 mm obstacle laid flat on the floor. Failure to properly adjust opener may result in serious personal injury from a closing garage door. Repeat test once a month and adjust as needed.

Procedure: With door opened place a 40 mm obstacle (1) laid flat on the floor under the garage door. Operate the door in the down direction. The door must reverse off the obstacle. If the door stops on the obstacle, remove obstacle and repeat Program the Limits and Force Steps, then repeat safety reverse test.

When the door reverses off the 40 mm obstacle, remove the obstacle and run the opener through a complete travel cycle. Door must not reverse in closed position. If it does, repeat Program the Limits and Force then repeat safety reverse test.



21 PROGRAM THE TRAVEL SPEED (OPTIONAL)

TRAVEL SPEED: Automatically selected:

There are two travel speeds available for this opener.

The speed is a function of door travel distance and is automatically set during the door travel limit setting process.

- For doors less than 150kg the opener can be set to REGULAR or SLOW speed and safety beams are not required. (provided that the force at the closing limit is less than 400N)
- For doors over 150kg set the opener to SLOW speed and install safety beams.

TRAVEL SPEED: Manually selected:

The speed can be set manually if required, once the travel limits have been set, using the following method.

To activate the alternate speed:

PRESS and HOLD both the UP and DOWN arrows for 3 seconds. The courtesy lamp will flash once to confirm SLOW speed and twice to confirm REGULAR speed.

To deactivate the selected speed: Repeat the process above (toggle between the two settings).

22 THE PROTECTOR SYSTEM™ (IR BEAMS) (OPTIONAL)

NOTE: This accessory must be used for all installations where the closing force as measured on the bottom of the door is over 400 N (40 kgf).

NOTE: IR Beams are required on heavy door applications (150kg-350kg).

SPECIAL NOTE: Merlin strongly recommends that The Protector System™ (IR Beams) be installed on all garage door openers.

IR BEAMS: By installing IR Beams, an open door is prevented from closing if a person or object is located in the beam area. If the door is already closing, it will return to the open position. A closed door is not prevented from opening.

If the Protector System™ (IR Beams) is installed and needs to be removed, the opener will need to be reprogrammed (refer to paragraph 4 of the troubleshooting section).



To prevent entrapment, install The Protector System™ (IR Beams) no higher than 100 mm above the floor. Disconnect power to the garage door opener before installing The Protector System™ (IR Beams)



SAFETY FIRST!



Whilst Merlin have engineered safety features into your garage door opener, we urge you to consider fitting The Protector System™ (IR Beams) to your new garage door opener. In many countries these devices are compulsory to assist in preventing serious injury or property damage. For your own peace of mind and the safety of others please install this inexpensive safety device.

PROGRAMMING

23 PROGRAM TRANSMITTERS TO THE OPENER LIGHT

To Program your transmitters to operate your garage door opener light follow the below steps:

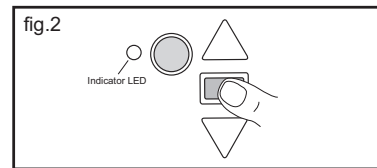
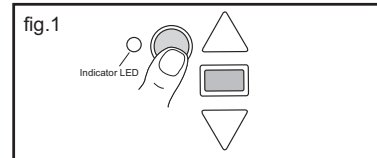
1. Press and release the "LEARN" button, and the "courtesy light" will flash twice (fig.1).
2. Press and release the "PROG" button and the garage door opener will go into courtesy light learn mode for 30 seconds (fig.2).
3. Press any transmitter button (fig.3) to learn this button to the garage door opener courtesy light, the garage door opener "courtesy light" will flash twice.

NOTE: Do not use the same transmitter button that has been previously learned to the garage door opener for operation.

The transmitter is now learnt to the garage door opener courtesy light.

To Erase all Transmitter Codes

1. Press and hold the "LEARN" button on the opener until the courtesy light flashes twice, and continue holding for approximately 8 seconds, until the courtesy light flashes twice again.
2. Release the button, all codes are now erased.



24 ADJUSTABLE COURTESY LIGHT TIME CHANGE

This feature will allow you to adjust the garage door opener light "ON" time as desired. The courtesy light "ON" time is factory default set to 3 minutes.

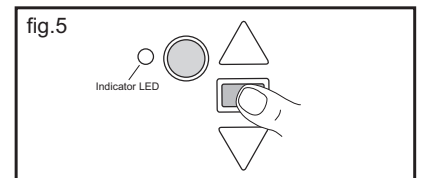
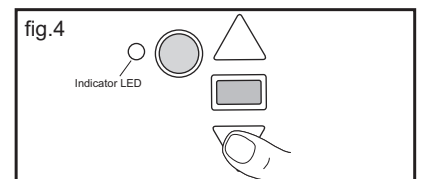
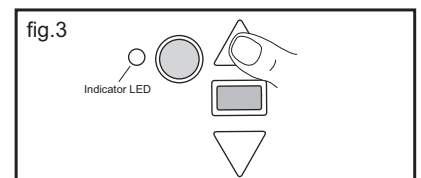
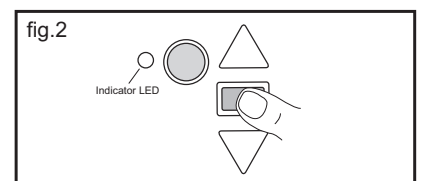
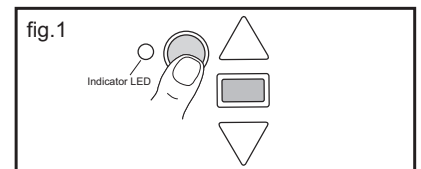
NOTE: Every time you enter into program mode the unit will start at the default time of 3 minutes.

1. Press and release the "LEARN" button (fig.1), and the indicator LED will turn on solid.
2. Press and release the "PROG" button twice (fig. 2). The courtesy light will flash once. The garage door opener is now in courtesy light "time selection mode" for 30 seconds*.
3. Press the "UP" arrow button (fig. 3) to increase the courtesy light "ON" time:
 - 1 press of the "UP" arrow button will change the courtesy light "ON" to 5 minutes.
 - 2 presses of the "UP" arrow button will change the courtesy light "ON" time to 10 minutes.
4. Press the "DOWN" arrow button (fig.4) to decrease the courtesy light "ON" time:
 - 1 press of the "DOWN" arrow button will change the courtesy light "ON" to 1.5 minutes.
 - 2 presses of the "DOWN" arrow button will change the courtesy light "ON" time to 30 seconds.

NOTE: The courtesy light will flash once each time the "UP" or "DOWN" arrow button is pressed.

5. Press "PROG" button (fig.5) on the opener to save the settings. The courtesy light flashes twice.

* NOTE: If after 30 seconds no button is pressed, the garage door opener will exit from program mode and the courtesy light will flash 5 times. No settings will have been saved.



PROGRAMMING

25 TIMER TO CLOSE FEATURE (TTC)



Door may operate unexpectedly, therefore do not allow anything to stay in the path of the door.

The Timer to Close feature requires The Protector System™ (IR Beams) to be installed.

Operation:

This feature allows the door to automatically close from a fully open position after a specified time. The delay can be set from 10 to 180 seconds in 10 second increments, by using the opener control buttons. If the door encounters an obstruction while closing, the door will stop and return to the UP position. The Courtesy lamp will then flash 10 times.

To Activate TTC, or change a preset time:

1. Start with the door fully **CLOSED**.
2. Enter into TTC Activation mode by pressing both **PROG** and **DOWN** buttons together for 3 seconds (figure 2). Release when the courtesy light flashes twice.
3. Press the **UP** button once for each 10 second increment required of TTC (figure 3. eg. twice for 20 seconds). Press the **DOWN** arrow to reduce, if needed.
4. Press and release the **PROG** button to save this time (figure 4), courtesy light will flash once. TTC is now activated.

TEST: Operate the door to the UP position. Keep clear of the IR Beams and check the door closes after the preset time.

To Deactivate TTC:

1. Enter into TTC Activation mode by pressing both **PROG** and **DOWN** buttons together for 3 seconds (figure 2). Release when the courtesy light flashes twice.
2. Press and release the **PROG** button to save (figure 4), courtesy light will flash once. TTC is now deactivated.

figure 1

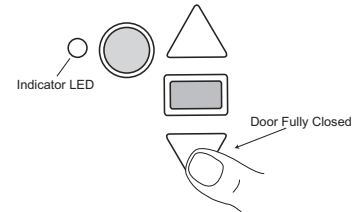


figure 2

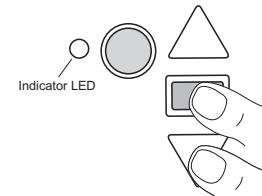


figure 3

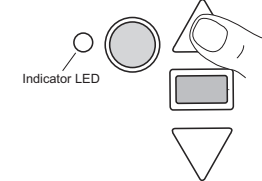


figure 4

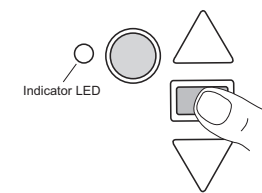
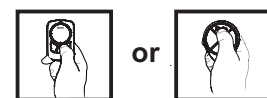


figure 5



26 INSTALLING YOUR E148M FOUR BUTTON WIRELESS WALL MOUNT REMOTE CONTROL

NOTE: The wall control supplied with your opener should be pre-programmed by the factory. If adding a new wall control, program into the opener before mounting the unit as detailed in Wireless Programming.



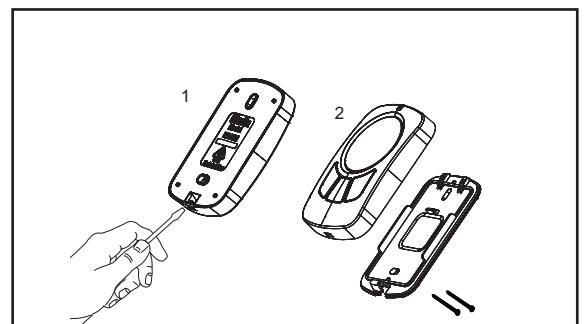
Disconnect power to the opener before installing this accessory to prevent accidental activation. Locate minimum 1.5 m above the floor.

To install:

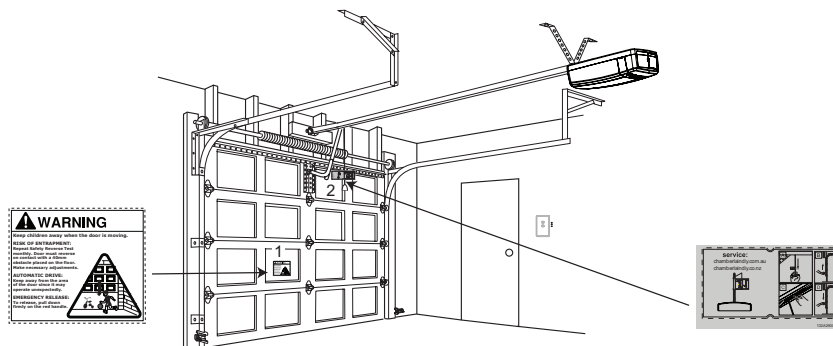
- Carefully pry open the E148M and locate the two screws for mounting.
- Attach to the wall using the two screws provided. If mounting to a plaster wall, wall plugs may be required.

NOTE: Do not overtighten screws.

- Replace the front cover plate.



27 INSTALL WARNING LABELS



Three warning labels are provided with this opener: attach as indicated in the fig 1 to a clean and suitable surface.

1. Warning and Risk of entrapment: (1).
2. EMERGENCY Release/Service label: - place on the Manual Release cord (2).

28 PARTIAL OPENING FEATURE (PET)

This is an adjustable, second stop position suitable for ventilation, pedestrian or pet access, programmed to the transmitter.

To Activate this feature:

1. Start with the door fully **CLOSED** (figure 1). Drive the opener UP (figure 2) and stop at the position required for **PET** access.
2. Enter PET activation mode by pressing the **PROG** and **UP** buttons together for 3 seconds (figure 3). Release when the courtesy light flashes once.
3. Press the transmitter button that you have allocated for this feature (figure 4). Do not use the button already allocated for normal operation. The courtesy light will flash once when the code is accepted.

TEST: Press the transmitter once, and door will close, press again, and door will return to the preset position.
If the door is above the preset position, when the button is pressed, it will fully close.

To Deactivate this feature:

1. Start with the door fully **CLOSED**.
2. Enter PET deactivation mode by pressing the **PROG** and **UP** buttons together for 3 seconds (figure 3). The courtesy light will flash twice, indicating the deactivation has occurred.

NOTE: Erasing all transmitter codes, as in the **Wireless programming section**, will also delete this feature.

figure 1

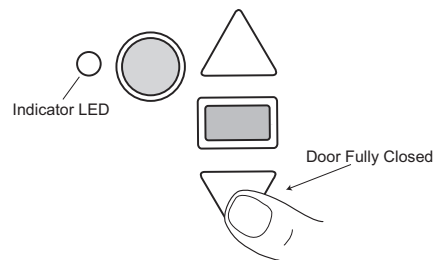


figure 2

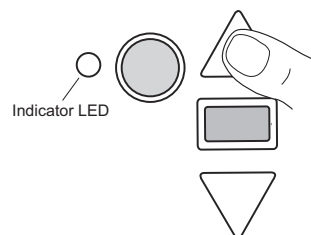


figure 3

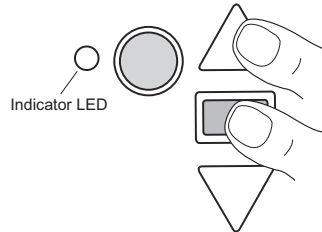
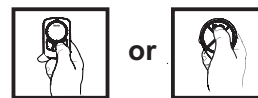


figure 4



WIRELESS PROGRAMMING

29 WIRELESS PROGRAMMING (OPTIONAL ACCESSORIES)



Activate the opener only when door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage while door is in motion. Do not allow children to operate push button(s) or transmitter(s). Do not allow children to play near the door.

NOTE: The transmitter(s) and wireless wall button supplied with your opener are preprogrammed by the factory.

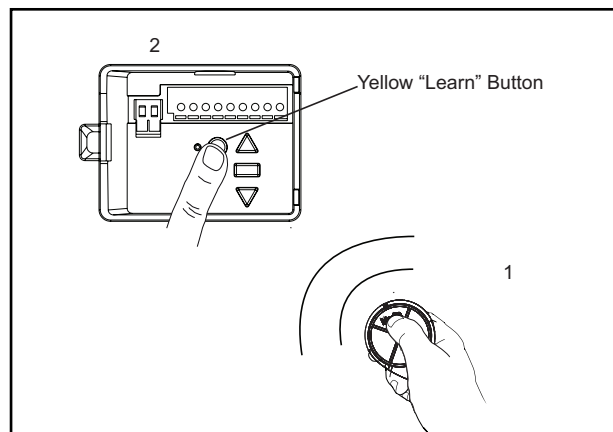
If you purchase additional transmitters, the garage door opener must be programmed to accept the new transmitter code.

Program the Receiver to Match Additional Transmitter Codes:

Using the yellow "LEARN" Button

1. Press and Hold the button on the hand-held transmitter that you wish to use (1).
2. Press and release the yellow "LEARN" button on the opener (2).
3. Release the transmitter button when the opener light flashes. It has learnt the code. If you release the transmitter button before the opener light flashes, the opener has not learned the code.

Now the opener will operate when the transmitter button is pressed.



To Erase all Transmitter Codes

1. Press and Hold the yellow "LEARN" button on the opener until the indicator LED goes ON, and continue holding for approx. 6 seconds, until the indicator LED goes out.
2. Release the button, all codes are now erased.

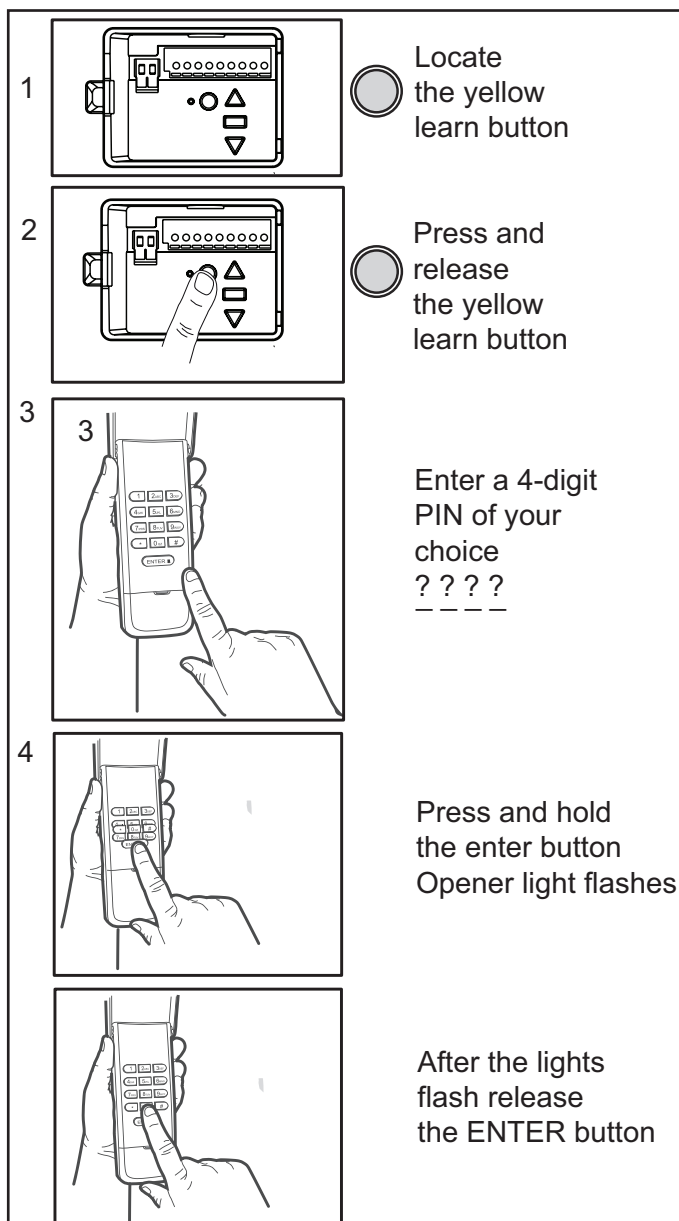
Wireless Keypad E840M

To set the keyless entry PIN:

1. Locate the yellow "LEARN" button on the garage door opener.
2. Press and release the yellow "LEARN" button. The LED indicator light will glow steadily.
3. Enter a 4-digit personal identification number (PIN) of your choice on the keypad.
4. Press and hold the ENTER button. Check to see if the opener light flashes. Release the ENTER button after the light flashes.

To change an existing keyless entry PIN:

1. Enter the existing programmed PIN that you want to change.
2. Press and hold the # button until the courtesy light flashes twice.
3. Enter the new 4-digit PIN of your choice, then press the ENTER button. The light will flash once.
4. To test, enter the new PIN, then press the ENTER button. The garage door opener will activate.



MAINTAINENCE AND CARE OF YOUR OPENER

30 USING YOUR OPENER

1. Your opener can be activated by any of the following devices:
 - Opener control panel: Up and Down Buttons and Green O.S.C.
 - The Outside Keyswitch or Keyless Entry System (if you have installed either of these accessories).
 - The Transmitter. Hold the push button down until the door starts to move.
2. **Opening the Door Manually: Door should be fully closed if possible. Weak or broken springs could allow an open door to fall rapidly. Property damage or serious personal injury could result.**

NOTE: For full instructions on how to operate the door manually refer to section 17.

The door can be opened manually by pulling the release handle down. To reconnect the door, press the Green button in the centre of the trolley assembly.

Do not use the manual release handle to pull the door open or closed.

3. When the Opener is Activated by Transmitter:

- If open, the door will close. If closed, the door will open.
 - If closing, the door will stop.
 - If opening, the door will stop (allowing space for entry and exit of pets and for fresh air).
 - If the door has been stopped in a partially open or closed position, it will reverse direction.
 - If an obstruction is encountered while closing, the door will reverse to the UP limit.
 - If an obstruction is encountered while opening, the door will stop and briefly reverse.
 - The optional Protector System™ (IR Beams) uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing. It is **STRONGLY RECOMMENDED** for homeowners with young children.
4. **The opener lights will turn on under the following conditions:** When the opener is initially plugged in; when power is restored after interruption or when the opener is activated.
Lights will turn off automatically after 2-1/2 minutes.

31 CARE OF YOUR OPENER

Once a Month

- Manually operate door. If it is unbalanced or binding, call a qualified door technician.
- Check to be sure door opens & closes fully. Adjust limits and/or force if necessary.
- Repeat the safety reverse test. Make any necessary adjustments.

Once a Year

- Lightly grease the belt and inside the rail assembly where the trolley slides.
- Internally the opener does not require additional lubrication.
- Lightly grease the belt and inside the rail assembly where the trolley slides. Be careful to use gloves around any sharp metal edge or the rail.

32 REPLACE BATTERIES IN TRANSMITTERS

Battery of the transmitter:

The batteries in the transmitter have an extremely long life. If the transmission range decreases, the batteries must be replaced. Batteries are not covered by the warranty.



WARNING! The wireless transmitters contain button/coin cell batteries.

- The battery is hazardous.
- Keep new and used batteries away from children.
- Do not ingest battery. Chemical burn hazard.
- If the coin cell battery is swallowed or placed inside any part of the body, it can cause severe or fatal injuries in 2 hours or less.

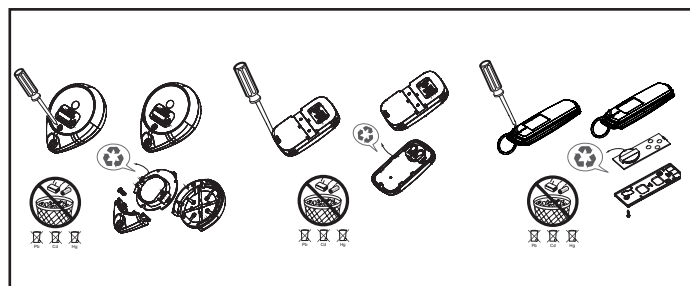


- If the battery compartment does not close securely, stop using the product and keep away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, call the 24-hour Poisons Information Centre on 13 11 26 in Australia, or the 24-hour National Poisons Centre on 0800 764 766 in New Zealand, or seek immediate medical attention.
- Dispose of used coin/button cell batteries immediately and safely. Flat batteries can still be dangerous.

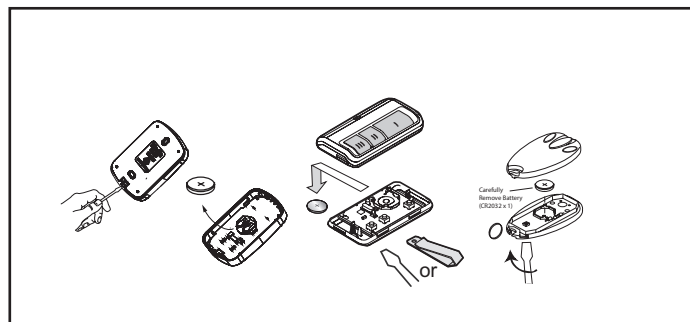
Replacing battery (CR2032):

To replace battery for E970M, E980M, E964M & E960M, turn transmitter around and open the case with a screwdriver. Lift cover and lift control board below. Slide battery to one side and remove. Observe polarity of battery!

Assemble again in reverse direction.



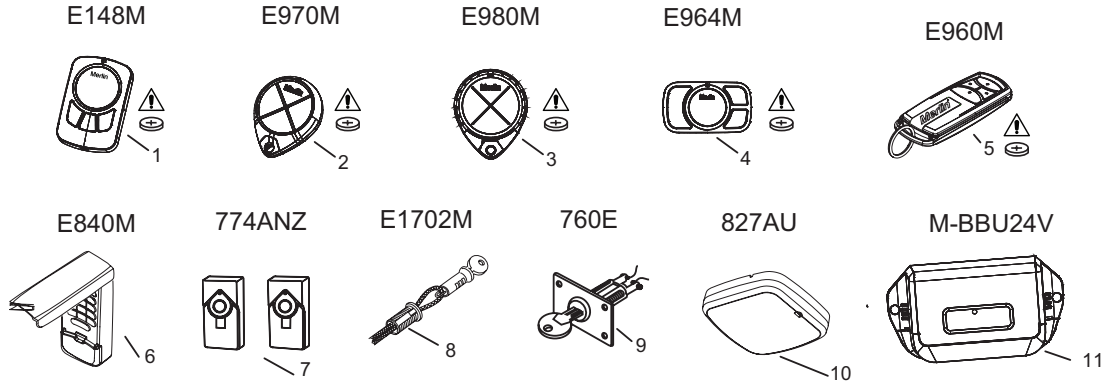
To replace battery for optional transmitters - E148M, E943M, E940M & E945M, use a screwdriver blade to pry open the case as shown. Insert battery positive side up.



ACCESSORIES

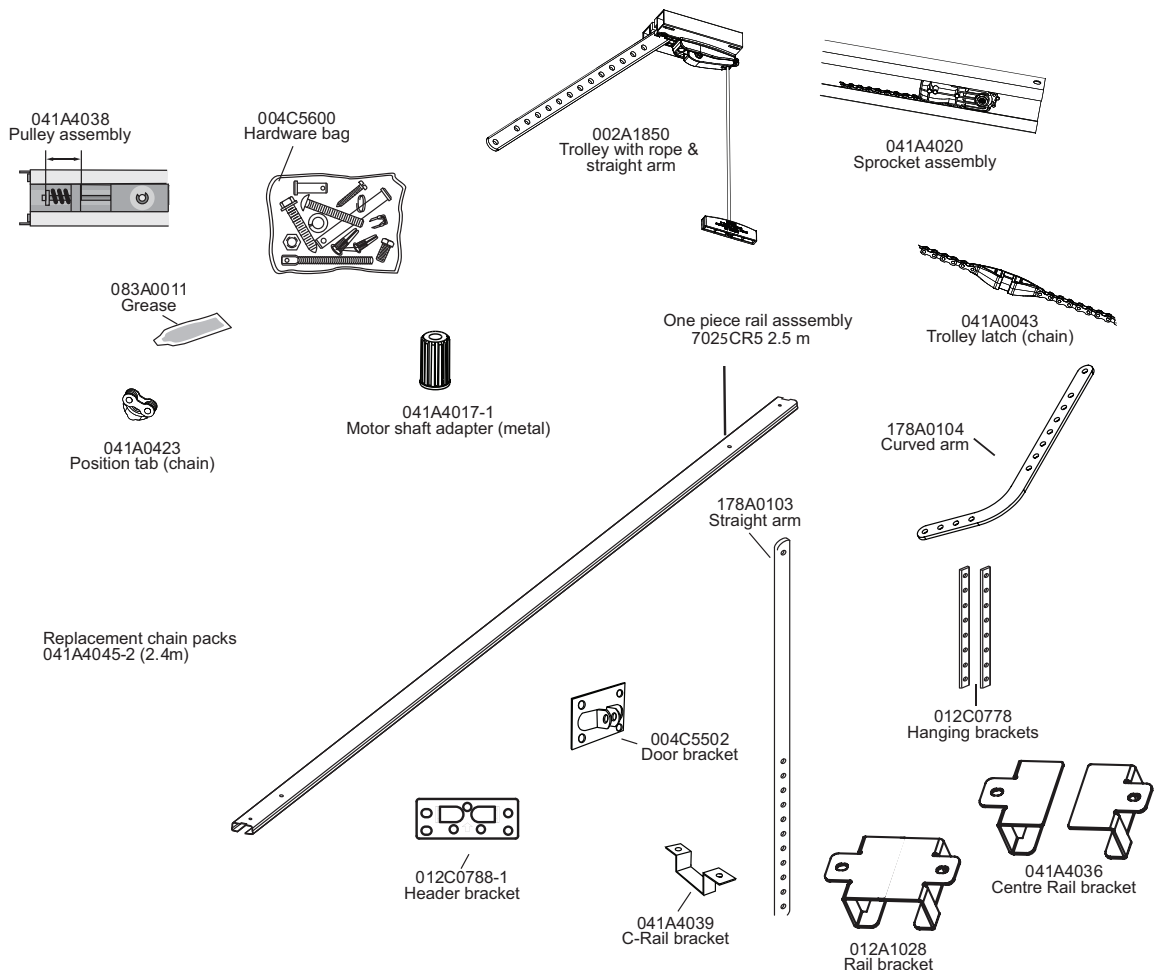
33 ACCESSORIES

- | | | | |
|----------------|--------------------------------|---------------------|-----------------------|
| 1. Model E148M | 4 Channel wireless wall button | 7. Model 774ANZ | The Protector System™ |
| 2. Model E970M | 4 Channel transmitter | 8. Model E1702M | Quick release lock |
| 3. Model E980M | 4 Channel transmitter | 9. Model 760E | Outside keyswitch |
| 4. Model E964M | 4 Channel transmitter | 10. Model 827AU myQ | Remote LED Light |
| 5. Model E960M | 4 Channel transmitter | 11. Model M-BBU24V | Battery Backup |
| 6. Model E840M | Keyless entry system | | |




NOTE: Use of any Chamberlain Group accessories are approved to use with this opener. This includes genuine Merlin accessories. Generic compatible accessories are NOT approved for use with this opener.

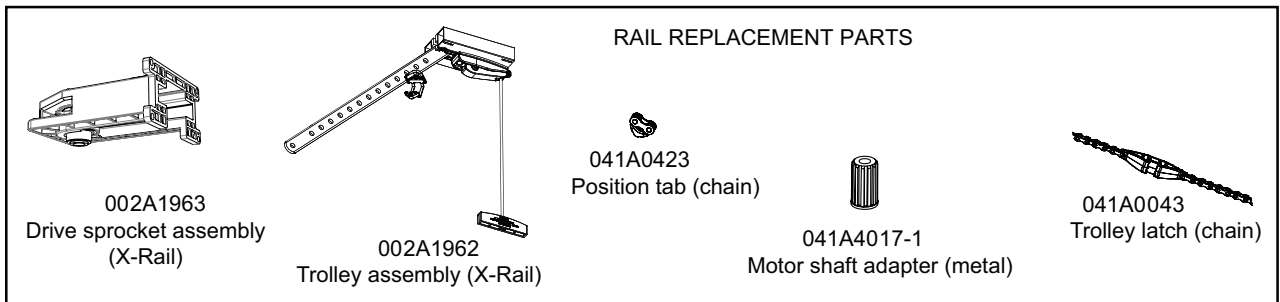
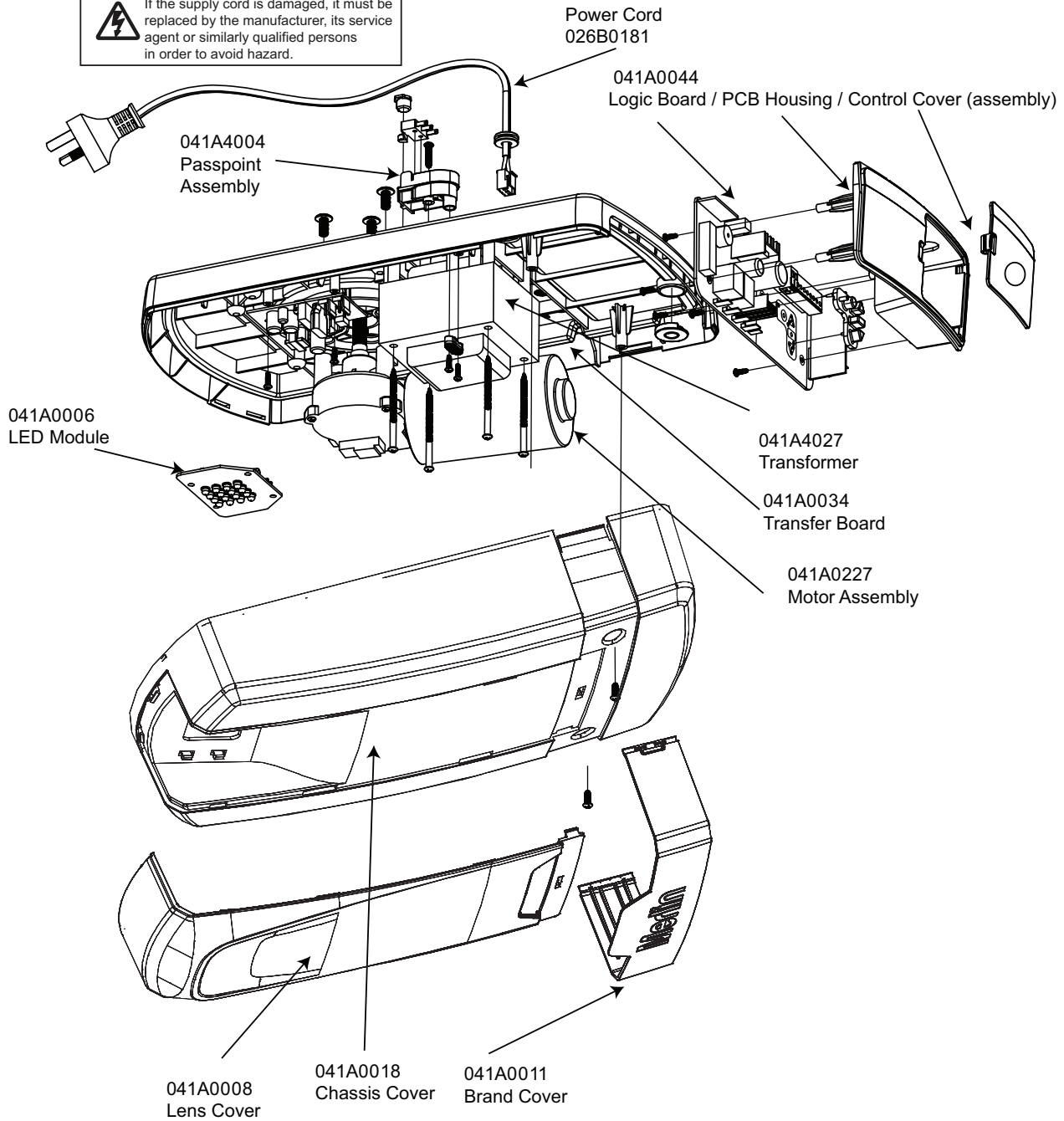
34 RAIL HARDWARE



REPLACEMENT PARTS

35 REPLACEMENT PARTS

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



36 TROUBLE SHOOTING

1. Opener doesn't operate from either door control or transmitter:

- Does the opener have electric power? Plug lamp into outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)
- Have you disengaged all door locks? Review installation instruction warnings on page 2.
- Is there a build-up of ice or snow under door? The door may be frozen to ground. Remove any obstruction.
- The garage door spring may be broken. Have it replaced.

2. Door operates from door control but not from transmitter:

- Replace batteries in the transmitter if necessary.
- If you have two or more transmitters and only one operates, review Program Your Opener, Transmitter and Keyless Entry.

3. Transmitter has short range:

- Check the battery in the transmitter is fully charged.
- Change the location of the transmitter in the car.
- A metal garage door, foil-backed insulation or metal siding will reduce the transmission range.

4. Door reverses for no apparent reason and opener light flashes 10 times:

Check The Protector System™ (IR Beams) (if you have installed this accessory). If the light is flashing, correct alignment.

If the Protector System™ (IR Beams) is installed and needs to be removed, the Opener will need to be reprogrammed as follows:

- Remove the IR Beam wiring from the Opener.
- Turn the power OFF for 5 seconds.
- Turn the power ON for 5 seconds.
- Again turn the power OFF for 5 seconds.
- Turn the power back on and test the opener for normal operation.

5. The garage door opens and closes by itself:

Make sure transmitter button is not stuck "on".

6. Door stops but doesn't close completely:

Repeat Programming the Travel Limits.

Repeat safety reverse test after any adjustment of door arm length, close force or down limit adjustments.

7. Door opens but won't close:

- Check The Protector System™ (IR Beams) (if you have installed this accessory). If the light on The Protector System™ (IR Beams) are flashing, correct the alignment.
- If opener light does not flash and it is a new installation, repeat Programming the Travel Limits.

Repeat the safety reverse test after the adjustment is complete.

8. Opener strains:

Door may be unbalanced or springs are broken. Close door and use manual release rope and handle to disconnect trolley. Open and close door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, call for professional garage door service to correct the problem.

9. Opener hums briefly, then won't work:

- Garage door springs are broken. SEE ABOVE.
- If problem occurs on first operation of opener, door is locked. Disable door lock.

Repeat safety reverse test after adjustment is complete.

10. Opener won't activate due to power failure:

- Pull manual release rope and handle down once to disconnect trolley. Door can be opened and closed manually. When the power is restored, press the "GREEN" button in the centre of the trolley assembly. The next time the opener is activated, the trolley will re-connect.
- The Outside Quick Release accessory (if fitted) disconnects the trolley from outside the garage in case of power failure.

11. The opener runs, but the carriage does not move:

- Check the carriage is not disengaged from the opener. Operate the manual release to re-engage the opener.
- In a new installation, the preassembled Motor Shaft Adapter may have fallen out of the belt sprocket assembly. This adapter is installed during the manufacturing process and may have dislodged.
- In older installations, especially on excessively heavy doors, check the Motor Shaft Adapter has not stripped.

12. The Up and DOWN arrows on the control panel are flashing in sequence:

Check the diagnostic code on next page.

DIAGNOSTICS

37 DIAGNOSTIC CHART

Your garage door opener is programmed with self-diagnostic capabilities. The UP and DOWN arrows on the garage opener flash the diagnostic codes.

DIAGNOSTIC CODE		SYMPTOM	POSSIBLE RESOLUTION
UP Arrow Flash(es)	DOWN Arrow Flash(es)		
1	1	The garage door opener will not close and the courtesy light flashes.	The Protector System™ (IR Beams) are not installed, connected or wires may be cut. Inspect The Protector System™ (IR Beams) wires for a disconnected or cut wire.
1	2	The garage door opener will not close and the courtesy light flashes.	There is a short or reversed wire for the The Protector System™ (IR Beams). Inspect safety sensor wire at all staple points and connection points and replace wire or correct as needed.
1	3	The door control will not function.	The wires for the door control are shorted or the door control is faulty. Inspect The the wire at all staple points and connection points and replace wire or correct as needed.
1	4	The garage door opener will not close and the courtesy light flashes.	The Protector System™ (IR Beams) are misaligned or were momentarily obstructed. Realign both sensors to ensure both LEDs are steady and not flickering. Make sure nothing is hanging or mounted on the door that would interrupt the sensors path while closing.
1	5	There is no door movement or motor accelerates before stopping suddenly..	No RPM pulses have been detected. Check the door manually for balance, binding or obstructions. Internally the possible cause may be the motor, logic board or RPM sensor. Try resetting door travel limits. Contact service centre.
1	6	Door continues to move after the motor stops.	RPM pulses have been detected after motor has turned off. Possible broken spring. Check the door is correctly balanced and not creeping up or down. Contact a door service centre.
2	1-5	Opener fails to operate.	Possible logic board failure. Reboot opener by turning the mains power OFF and then ON after 15 seconds. Reprogram the door travel limits and force settings. Contact service centre.
2	6	Unable to set travel limit down direction. Passpoint has not been recognised during programming.	Check the passpoint module has been activated by the chain Position Tab, during the door travel. Reset the travel limits.
3	2	Unable to set the travel or retain position	Check travel module for proper assembly, replace if necessary.
3	3	The battery status LED* is constantly flashing green.	Battery backup charging circuit error, replace logic board *(if applicable).
4	1-4	Door is moving stops and or reverses.	Manually open and close the door. Check for binding or obstructions, such as a broken spring or door lock. If the door is binding or sticking contact a trained door systems technician. If door is not binding or sticking attempt to reprogram travel (refer to "Program the Travel Limits and Force" section).
4	5	Opener runs approximately 150 mm to 200 mm, stops and reverses.	Communication error to travel module. Check travel module connections, replace module if necessary.
5	1-4	Door fails to operate or operates erratically. External accessory wiring failure.	Check the external wiring to the control panel terminal is wired correctly. Turn off power, remove all external wiring, and retest door operation.
5	5	Door opener fails to operate.	Low internal voltage on the logic board, possible power transformer or logic board failure. Service required, call a trained service specialist.

SPECIFICATIONS

38 SPECIFICATIONS - COMMANDER EXTREME - MS125MYQ

Input Voltage.	220-240 Vac, 50 - 60 Hz
Max. Pull Force.	1200 N
Power.	225 Watt
Normal Torque.	8 Nm
Max. door weight.	150kg to 286kg with beams and set to SLOW speed mode use rail 7025CR5ANZ. For doors over 286kg up to 350kg with beams and set to SLOW speed mode use rails GLD-R2.5M or GLD-R3.0M
Max. lift under spring tension.	20 kg
Max. door area.	Residential Sectional doors 20.0m ²
Motor	
Type.	DC gearmotor permanent lubrication
Noise level.	54 db at 1 metre
Speed	2 speed programmable (NORMAL or SLOW).
Drive Mechanism	
Drive.	Belt with one-piece trolley on steel rail
Length of Travel.	Adjustable to 3.0 m
LED light.	25 Watt equivalent
Door Linkage.	Adjustable door arm. Pull cord trolley release
Safety	
Personal.	Push button stop in UP and DOWN direction. Automatic safety reverse in both UP and DOWN direction
Electronic.	Automatic force adjustment
Electrical.	Transformer overload protector and low voltage push button wiring
Limit Device.	Mechanical Passpoint/RPM sensor
Limit Adjustment.	Electronic
Soft-start/Soft-stop	
Dimensions	
Length (Overall).	3.24 m
Headroom Required.	30 mm
Hanging Weight.	12.5 kg
Receiver	
Memory Registers.	64 handset codes. 4 keypad devices - 1 code each
Operating Frequency.	433.30/433.92/434.54 MHz

DON'T FORGET Warranty Registration

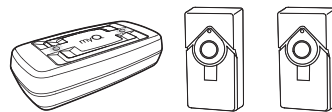
To validate your warranty you must
complete the registration form online at:

gomerlin.com.au/warranty
or
gomerlin.co.nz/warranty

Merlin[®]
Powering Garage Doors

Get Connected with

Additional purchase of the myQ Connectivity Kit is required
to enable myQ functionality.



Visit www.gomerlin.com.au or
www.gomerlin.co.nz
for more details.

