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EntryLift

MT50EVO

Sectional Garage Door Opener

Installation and Operating Instructions

Owners Copy: **SAVE THESE INSTRUCTIONS** for future reference



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



WARNING!

START BY READING THESE IMPORTANT SAFETY INSTRUCTIONS

- Failure to comply with the following instructions may result in serious personal 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 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, safety goggles and suitable protective clothing where appropriate.



Frequently examine the door installation, in particular 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 personal 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 personal injury from a closing garage door. **Repeat the test once a month and make any necessary adjustments.**



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.



Use the **Manual Release** only for the separation of the carriage from the drive and - if possible - **ONLY** with the door closed. Do not use the red handle to push the door up or pull it down. Operation of the emergency release can lead to uncontrolled movements of the door, if springs are weak or broken or if the door is unbalanced. Mount the release handle of the emergency release at a height less than 1.8 m from the floor.



The Protector System™ 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.

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



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, at a height of at least 1.5 m and out of the reach of children. Do not allow children to operate push button(s) or transmitter(s).** 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 on manual release mechanism 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.



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



Do not allow children to play near the door, or with door controls. Keep remotes away from children.



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



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.



This opener should not be installed in a damp or wet space exposed to weather.



To avoid damage to very light doors (such as fibreglass, aluminium or steel doors), an appropriate reinforcement should be added. To do so, contact the door manufacturer.

SAVE THESE INSTRUCTIONS

Warning: If your garage has no service entrance door, a E1702M 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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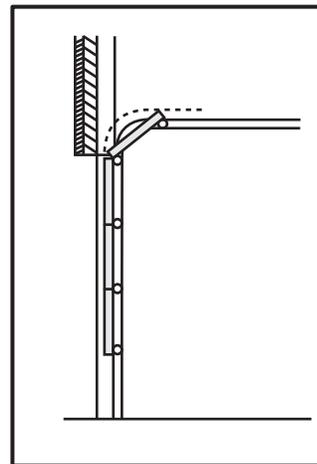
BEFORE YOU BEGIN:

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 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 kgf 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 13.0 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.*

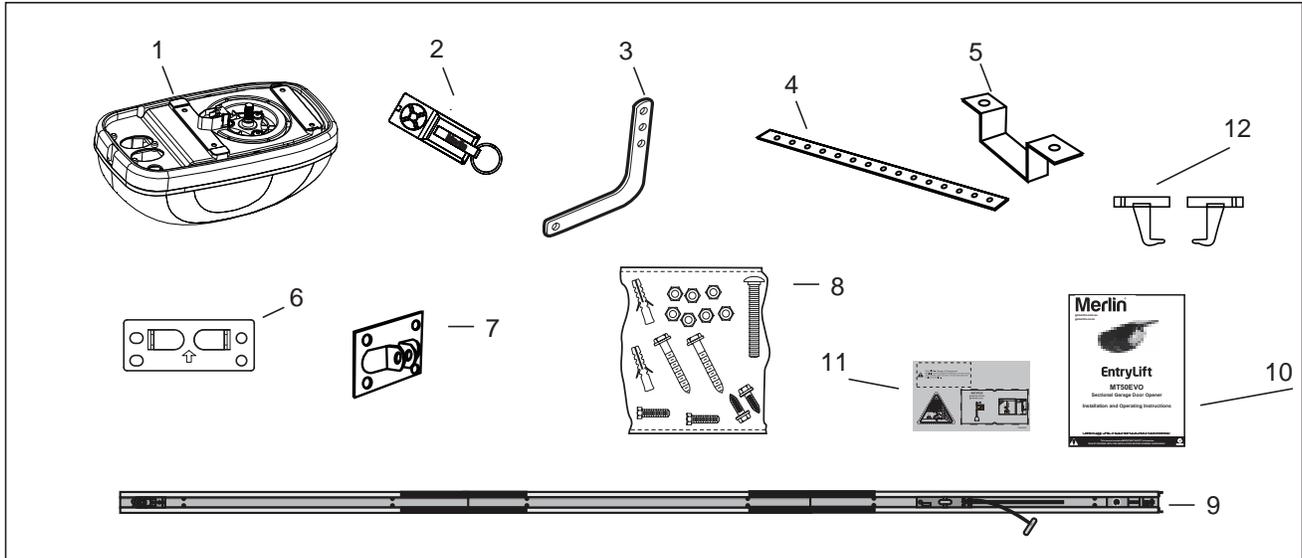


*In the event of a power outage or the unit being disconnected from the power source, the door **MUST** be operated and supervised so that it completes a full UP and DOWN cycle with no obstructions in place to ensure that the unit automatically checks that the safety force settings are correct.*

2 CARTON INVENTORY

Your garage door opener, rail and hardware are packed in a single carton.

- | | |
|-------------------------------|--------------------------|
| (1) Opener | (7) Door bracket |
| (2) Hand held transmitter (2) | (8) Hardware bag |
| (3) Curved door arm | (9) Rail assembly |
| (4) Hanging bracket (2) | (10) Manual |
| (5) Rail brackets (3) | (11) Warning Labels |
| (6) Header bracket | (12) Rail centre bracket |

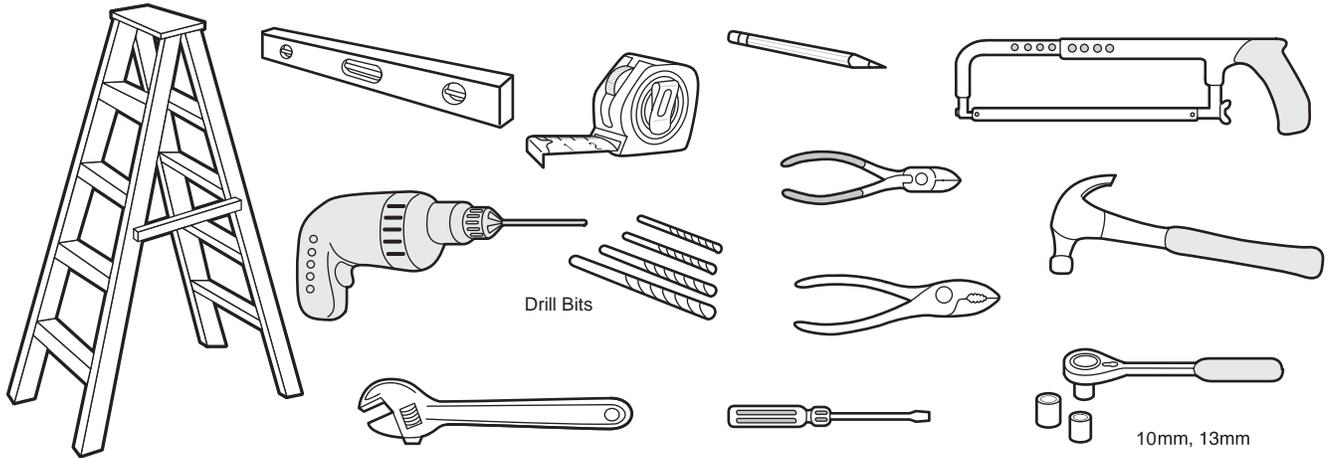


3 RAIL SIZES AVAILABLE

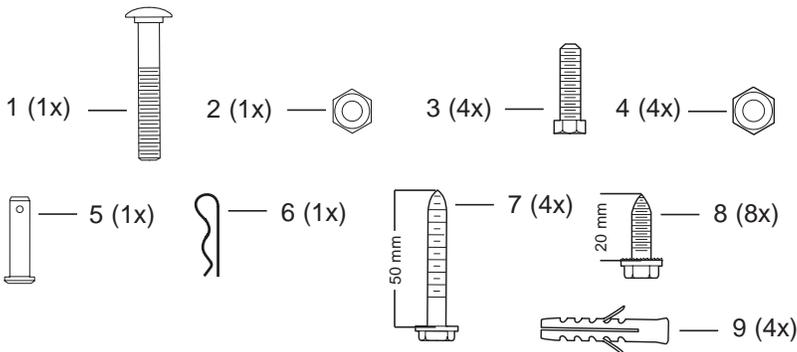
DOOR HEIGHT: Sectional Doors	RAIL LENGTH:	CEILING FIXING POINT:	OVERALL LENGTH:
Up to 2.5 m	3300 mm segmented	3150 mm	3450 mm

NOTE: The Ceiling Fixing Point is measured back from the lintel (see item 1 to 7 of “completed installation”). Also allow 300 mm back from the fixing point for installation of the powerhead (item 7 to 9 of “completed installation”).

4 TOOLS REQUIRED



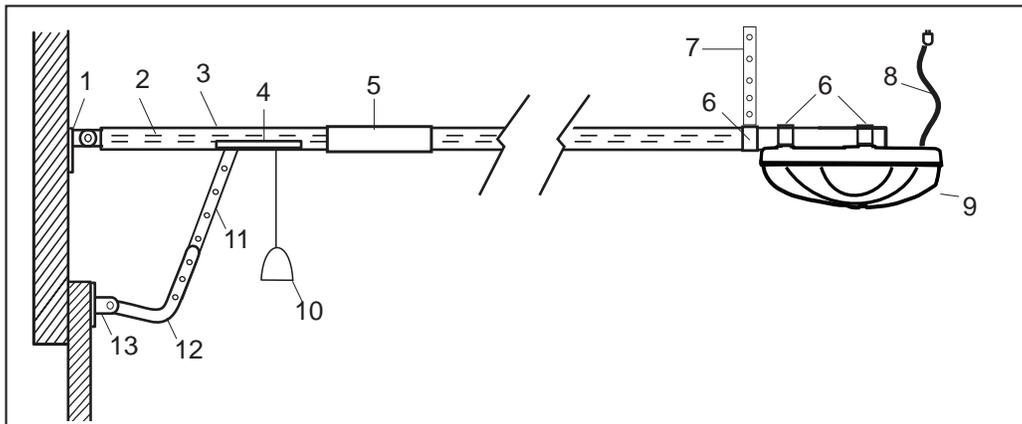
5 HARDWARE PROVIDED



- (1) Truss head screw 6 mm x 80 mm
- (2) Lock nut M6
- (3) Hexagonal head screw
- (4) Nut M6
- (5) Clevis Pin
- (6) R clip
- (7) Screw ST6 x 50 mm
- (8) Screw ST6,3 x 18 mm
- (9) Wallplug

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
- (2) Chain
- (3) Rail
- (4) Trolley
- (5) Rail connecting piece
- (6) Rail bracket
- (7) Hanging bracket
- (8) Power cord
- (9) Opener
- (10) Manual release rope & handle
- (11) Straight door arm
- (12) Curved door arm
- (13) Door bracket

7 CONTROL PANEL (located under the lens cover)

1. **Terminal Block:** used for external accessories (see chart below).

No	Function	Polarity	Comment
1	Push button	+ve	Dry contact input for push button wired wall controls:
2	Common	-ve	Common terminal for push button and IR Beams:
2	Common	-ve	Common terminal for push button and IR Beams:
3	IR Sensor	+ve	Merlin IR Beam Input: (pulsing type only)

2. **S Button:** used to "SAVE" the REMOTE CONTROLS.

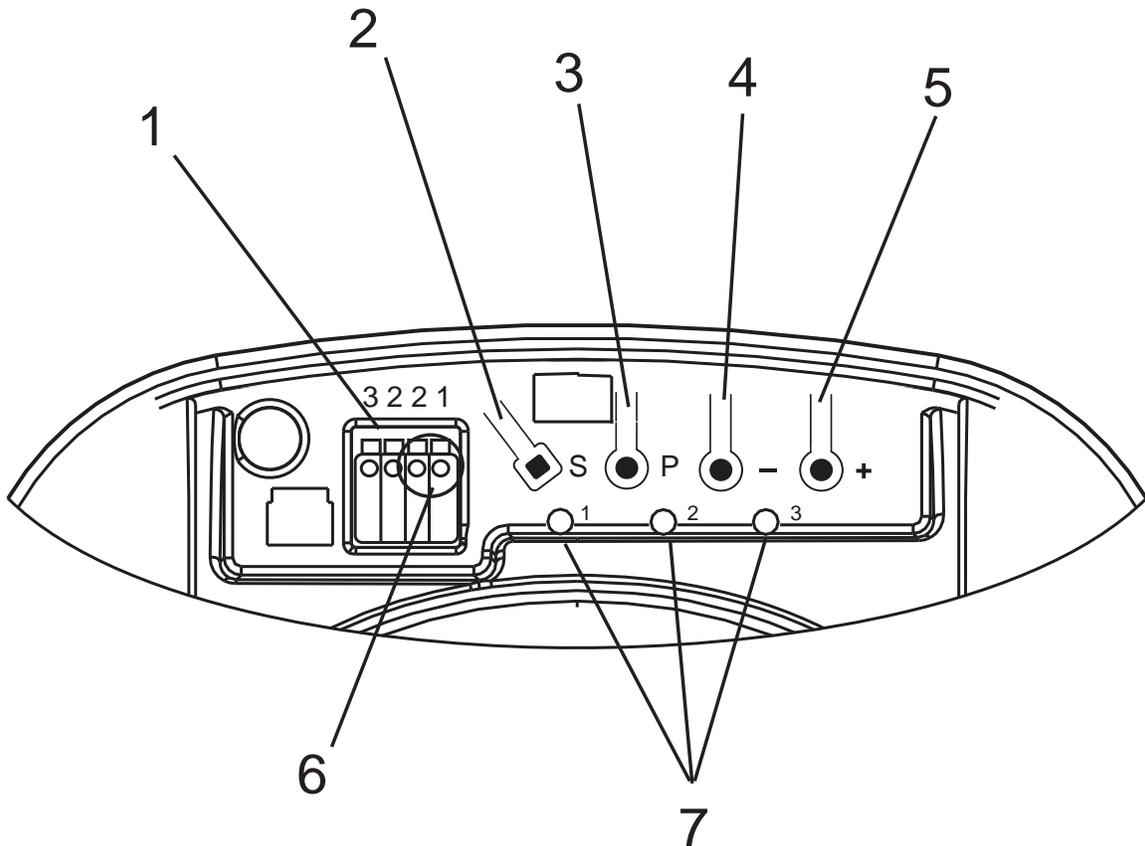
3. **P Button:** used to "PROGRAM" the DOOR LIMITS.

4. **- Button:** used to drive door DOWN.

5. **+ Button:** used to drive door UP.

6. **Green Button:** used to activate the door when remote controls are not available. Open - Stop - Close.

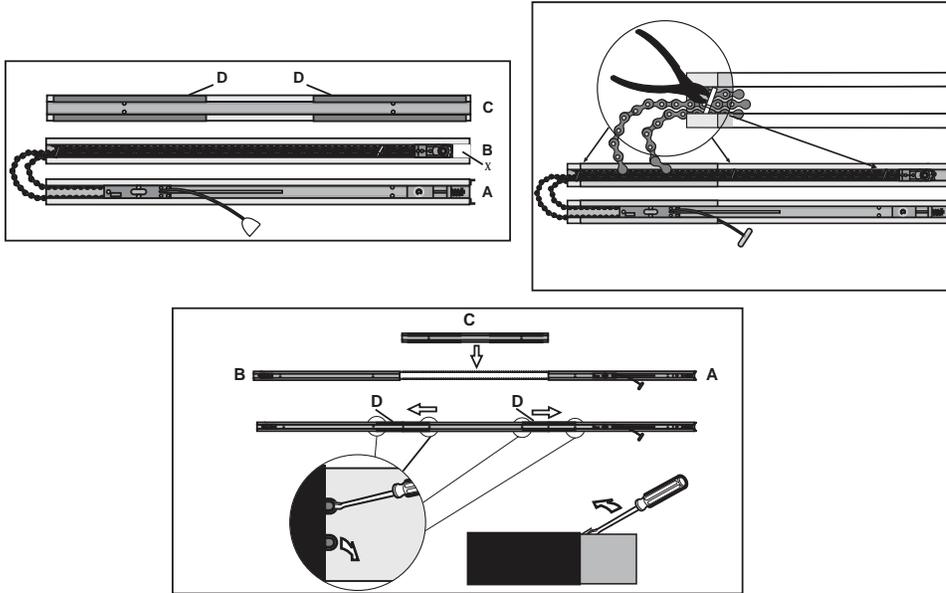
7. **LEDs:** 1. Remote Control Indicator
 2. Program DOWN indicator, Door Operating & Passpoint indicator
 3. Program UP indicator



8 ASSEMBLING THE 3 PIECE SEGMENTED RAIL

The segmented rail is largely preassembled and consists of 3 parts. The carriage, push rod, release handle, the guide pulley and the lintel bracket with chain tensioner are in the front part (A). The seating for the drive shaft and the sprocket are in the rear part (B). Hardware items are placed in the rails during transportation - remove these. Lay the front and rear rail sections one behind the other.

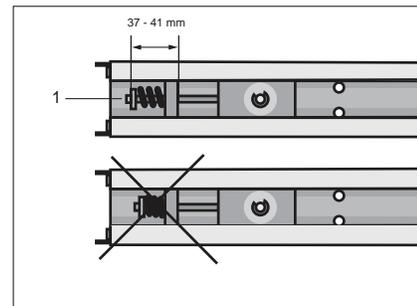
1. Remove cable ties that secure chain. Leave the transport lock (X) still in position.
2. Pull apart the two rail sections completely in order to create a gap for the middle section (C). This rail is designed in such a way so as to easily add the middle section. Slide the 2 connecting pieces (D) over the seams of the rail sections up to the markings. To secure the connecting pieces, bend the sheet metal lugs outwards with a suitable tool. The assembly of the rail is complete.



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.

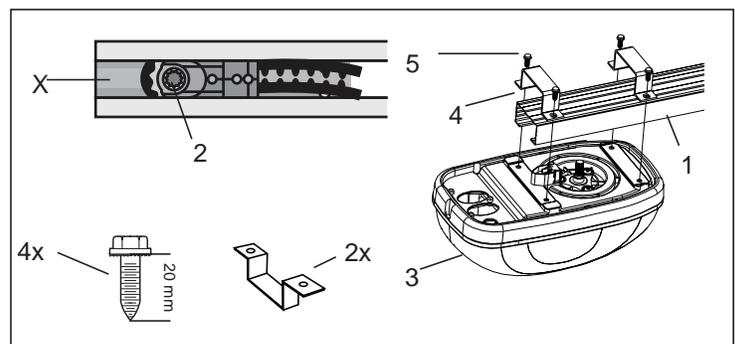
1. Tension the chain by adjusting the nut (1), on the pulley assembly, clockwise until the spring is engaged.
2. Continue tightening to compress the spring and remove all the slack in the chain. **DO NOT OVERTIGHTEN** but ensure chain is firm.
3. 37-41 mm as indicated in the diagram is normal.



10 FASTEN RAIL TO OPENER

1. Remove transport lock (X). Check if the chain is seated on the gearwheel. If it has slipped off during assembly, relax the spring and tighten again.
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).

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



INSTALLATION SECTION



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.

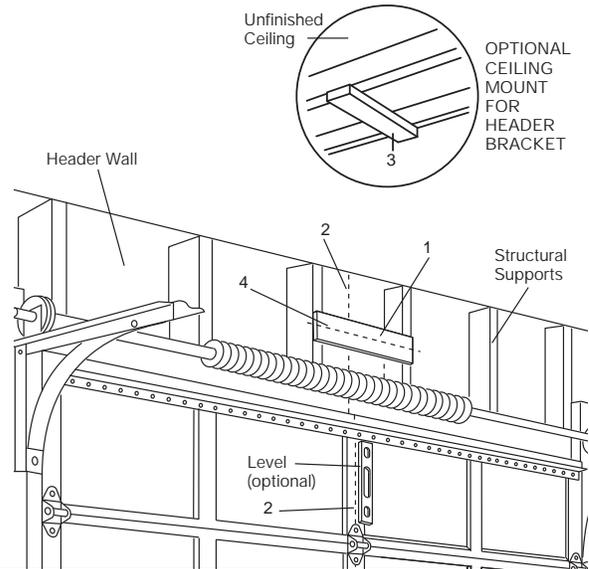
11 HEADER BRACKET POSITIONING

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.

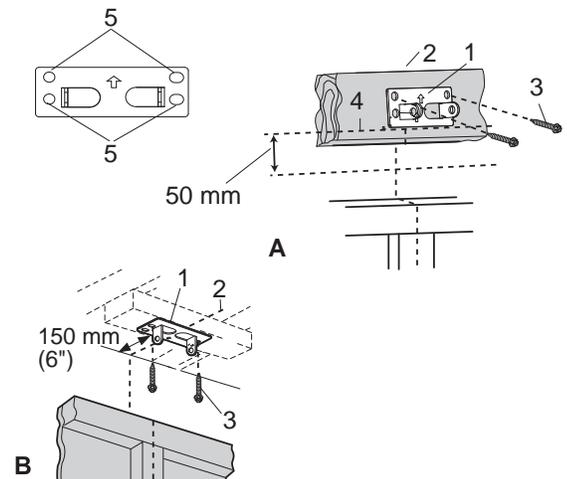


12 INSTALL THE HEADER BRACKET

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). Mark all of the header bracket holes (5). Drill 4.5 mm (3/16") pilot holes and fasten the header bracket with wood screws (3).

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. Mark all of the header bracket holes (5). Drill 4.5 mm (3/16") pilot holes and fasten the header bracket with wood screws (3). For concrete ceiling mount, use concrete anchors provided.



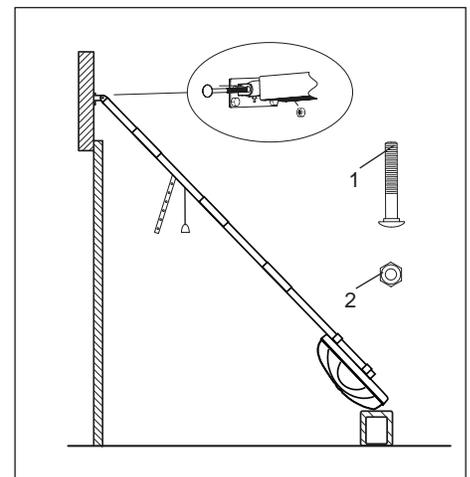
13 ATTACH RAIL TO HEADER BRACKET

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 trusshead screw and locknut (1) and (2).



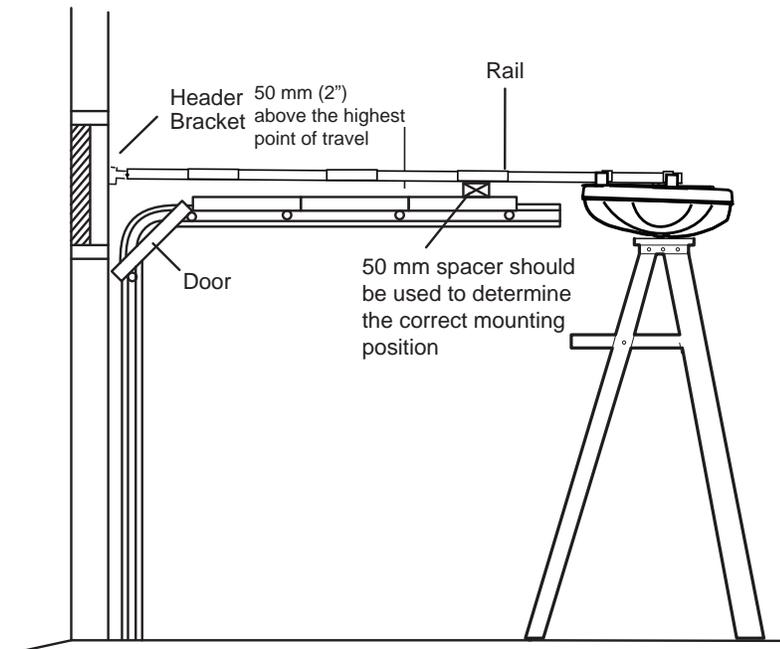
14 POSITION THE OPENER

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.

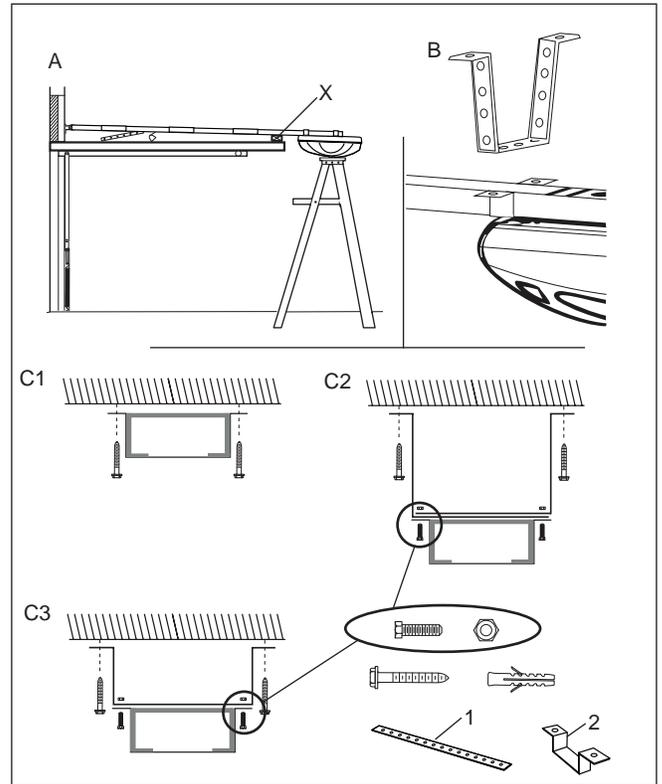
1. Raise the opener onto support.
2. Open the door completely, place a 50 mm spacer between the door and the rail (as shown).
3. The final positioning of the rail should be relatively parallel to the horizontal door panels.



15 HANG THE OPENER

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 (fig. A).
2. The mounting bracket must be mounted so far back that the carriage is not obstructed. The carriage can not pass through the bracket. Mounting at the very back (fig. B) is ideal.
3. Bend ceiling fixtures (1) in such a way that they lie flat against the ceiling. Depending on how large the distance to the ceiling is, none, one or two of the support brackets are to be mounted (fig C1, C2 and C3).
4. Secure the hanging brackets to the ceiling using appropriate screws.
5. Place mounting bracket (2) around the rail, then align to the ceiling fixture and bolt them together.
6. Centre Rail Support Brackets (kit contents item 12) can be installed along the centre of the rail if required. This will reduce flex in the rail that may occur with segmented rails or rail extensions.
7. 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.

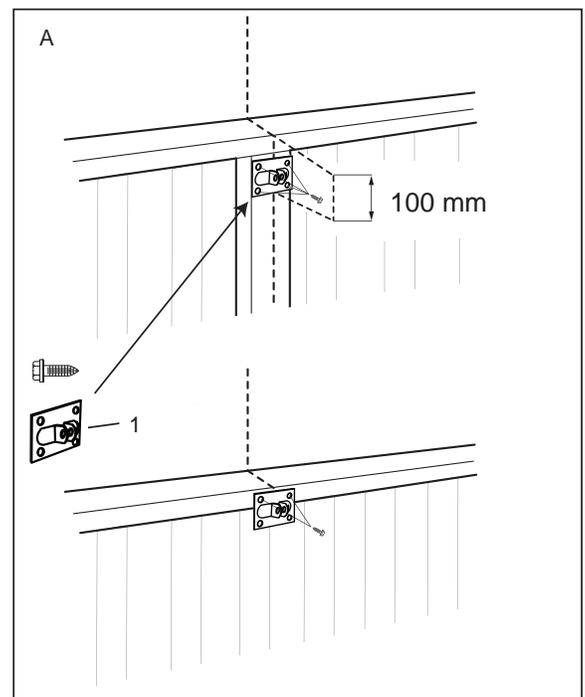


16 FASTEN DOOR BRACKET

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

Mounting position for Sectional Doors

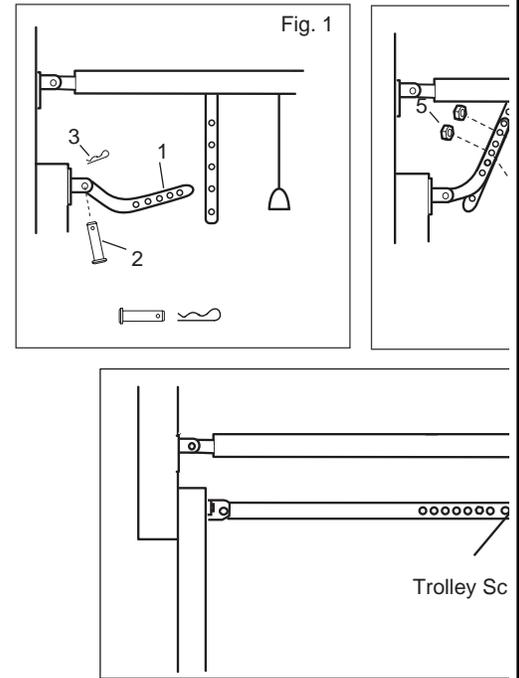
1. Align the bracket on the centre line, measure down 100 mm from the door top edge.
2. Secure the bracket in this position on a structural support of the door, using the most suitable variation of holes available.



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) and R-Clip (3) supplied.
3. Move the straight and curved arms together and secure using two bolts and nuts provided (4). Ensure the angle of the straight arm is around 20 degrees from vertical, when the door is fully closed.



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.

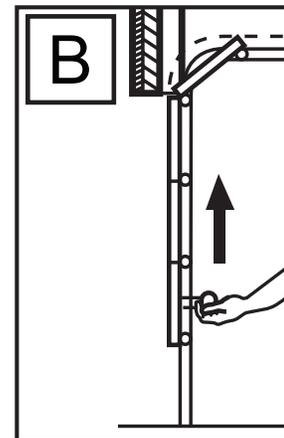
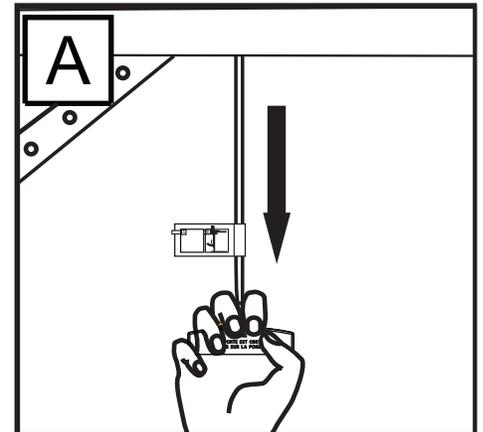
DO NOT USE THE RED HANDLE TO OPEN AND CLOSE THE DOOR.

To operate the Manual Release:

1. The door should be fully closed if possible.
2. Pull and hold the manual release rope down, (fig A) at the same time lift the door slightly. This will disengage the door from the trolley (fig B).
3. Release the rope and the door can now be opened by hand.

To Re-engage the Door:

1. Operate the opener with the remote control. When the trolley passes the door position it will automatically re-engage the opener and move the door.





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 light cover (figure 1).

NOTE: The opener will MOVE AUTOMATICALLY after setting the DOWN limit at step 6. A complete UP DOWN cycle is performed in order to "Set the Force" automatically. If the door is interrupted during this process, the force will not be set and the process will have to be repeated.

REFER TO THE DIAGRAMS:

1. Turn the Power ON and open the light cover. (The courtesy LEDs will be on during this operation, and you may need to cover these in order to see the program buttons clearly).
2. Press the "P" button until LED 3 starts flashing.
3. Press and hold the "+" button until the door moves to the desired UP position. The "+" and "-" buttons can be used to move the door UP and DOWN if required.
4. Press the "P" button to set the UP limit. LED 2 starts flashing.
5. Press and hold the "-" button until the door moves to the desired DOWN position. The "+" and "-" buttons can be used to move the door UP and DOWN if required.
6. Press and release the "P" button to set the DOWN limit. At this point the opener will operate AUTOMATICALLY a complete cycle. This will set the force of the motor, all LED indicators will stop after this operation.

LIMITS AND FORCE ARE NOW SET.

SETTING THE FORCE (MANUAL LEARN IF REQUIRED):

If the limits are already set, the force can be set manually if required.

1. Start with the door closed.
2. Disconnect the mains power from the opener for approx. 10 seconds.
3. Using the remote control, Open and Close the door one complete cycle.

The Force Setting has now been set manually.

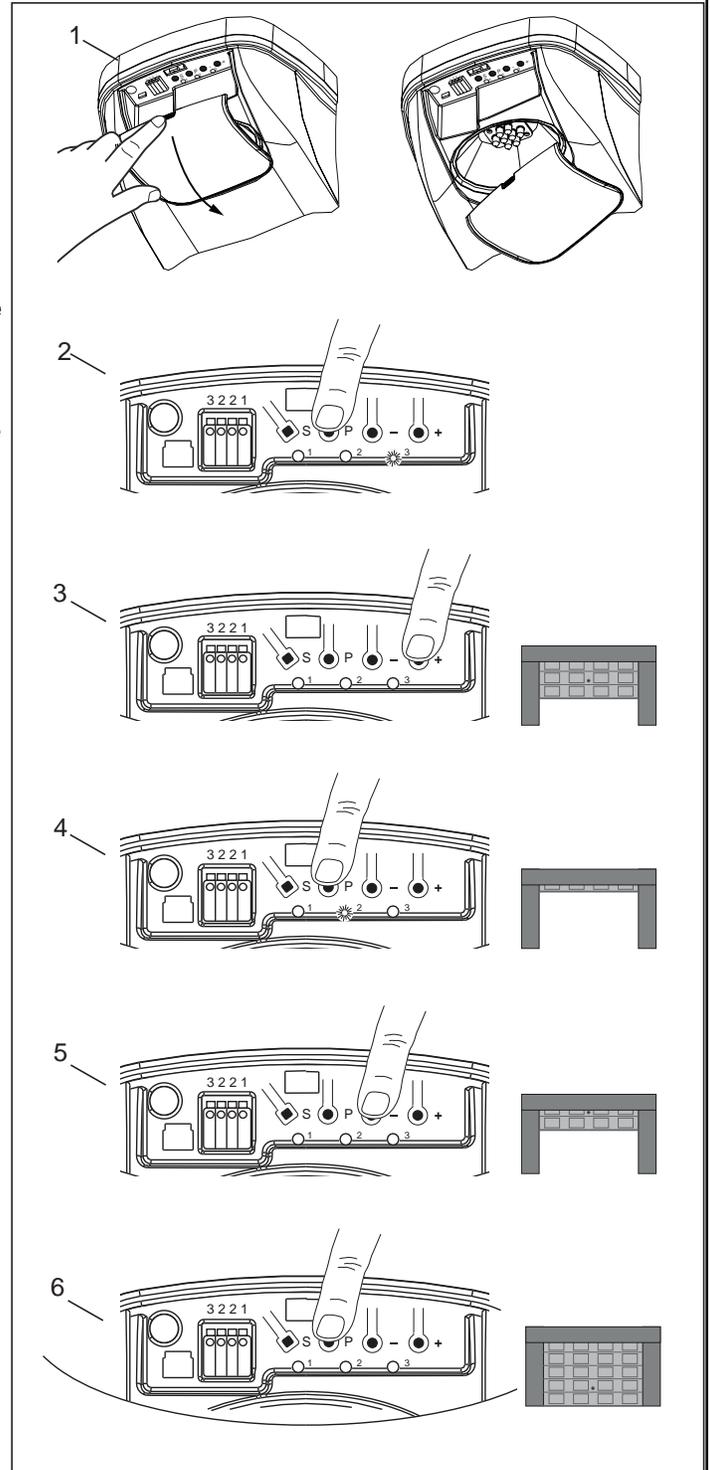


Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a closing door.

- 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.



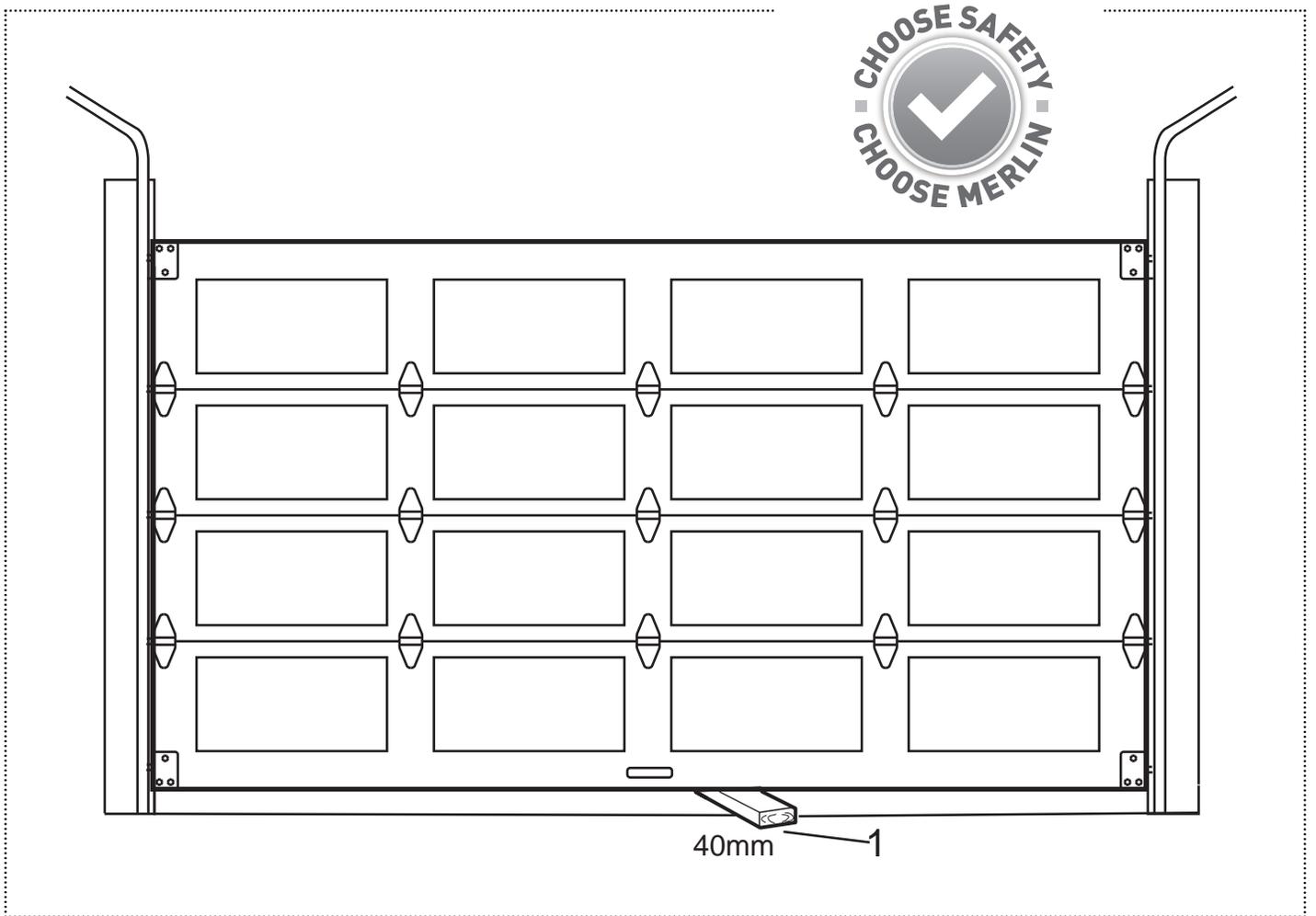
20 TEST THE SAFETY REVERSE SYSTEM



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 INSTALL THE PROTECTOR SYSTEM™ (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).

SPECIAL NOTE: Merlin strongly recommends that The Protector System™ 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™ is installed and needs to be removed, the opener will need to be reprogrammed (refer to paragraph 4 of the troubleshooting section).

NOTE: A complete set of installation and setup instructions are supplied with the accessory item.

Figures 1, 2 and 3 show recommended assembly of bracket(s) and "C" wrap based on the *wall* installation of the sensors on each side of the door shown above, or on the *door tracks* themselves. Figure 4 shows variations which may fit your installation requirements better. **Make sure the wraps and brackets are aligned so the sensors will face each other across the door.**

- Connect each assembly to a slotted bracket, using the hardware shown. **Note alignment of brackets for left and right sides of the door.** Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill two (4.8 mm) diameter pilot holes on both sides of the door so that the beam mounting height is no greater than 100 mm above the floor.
- Attach bracket assemblies with carriage bolts as shown.
- Adjust right and left side bracket assemblies to the same distance out from mounting surface. Make sure all door hardware obstructions are cleared. Tighten the lock nuts.
- Centre each sensor unit in a "C" wrap with lenses pointing toward each other across the door.
- Secure sensors with the hardware provided. Finger tighten the wing nut on the receiving eye to allow for final adjustment. Securely tighten the sending eye wing nut.
- Run wires from both sensors to the opener and connect the two white only wires to terminal (2) and the black/white wires to terminal (3) on your opener.

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

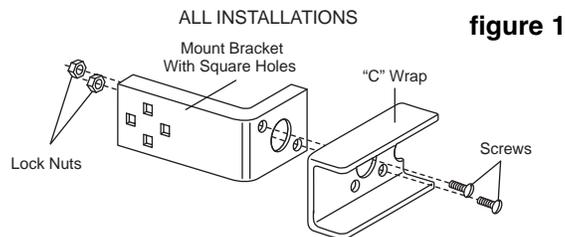


figure 1

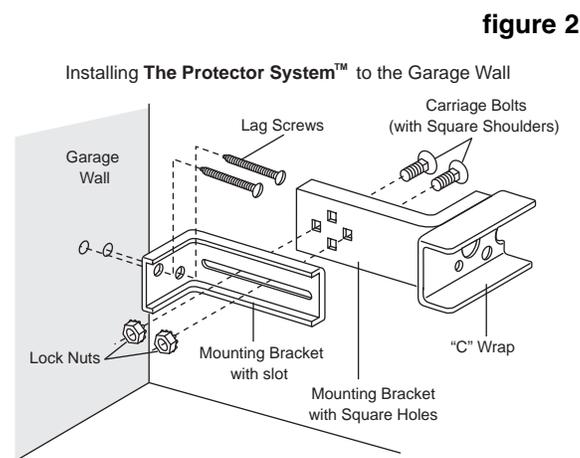


figure 2

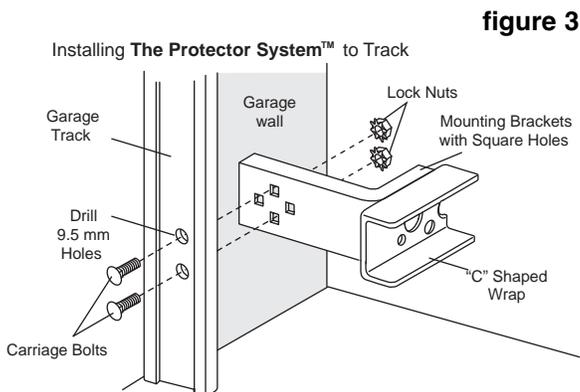


figure 3

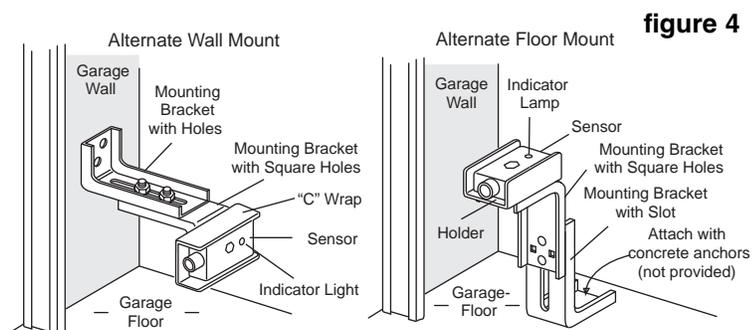


figure 4

22 INSTALLING YOUR E138M WIRELESS WALL BUTTON (OPTIONAL)

NOTE: If adding a wireless wall control, program into the opener before mounting the unit as detailed in Wireless Programming.



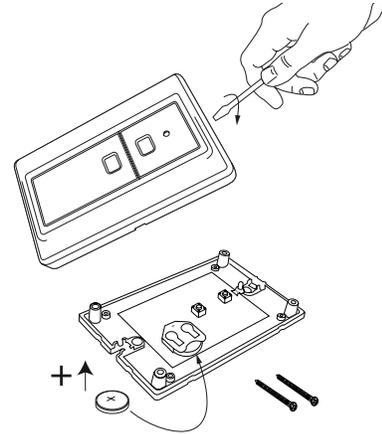
Disconnect power to the opener before installing this accessory to prevent accidental activation. Locate minimum 1.5 m above the floor.

To install:

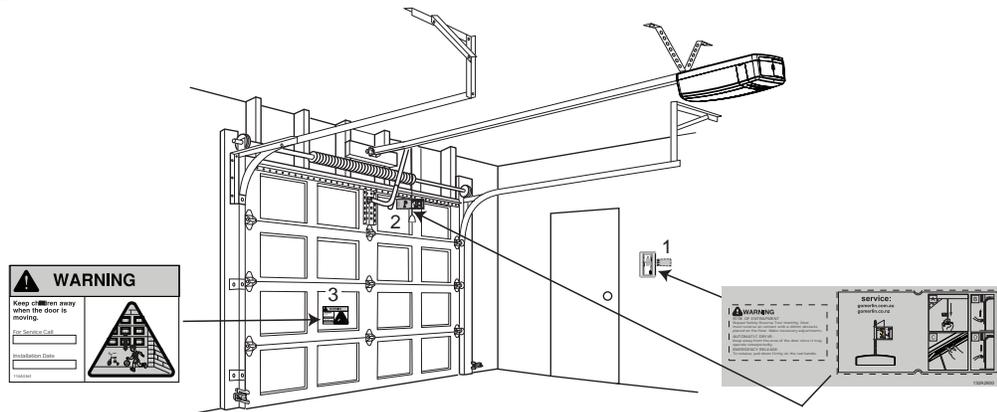
- Carefully pry open the E138M and locate the two screws for mounting.
- Attach to the wall using the two screws provided. If mounting to a plaster wall, wall plugs may be required.

NOTE: Do not overtighten screws.

- Replace the front cover plate.



23 INSTALL WARNING LABELS



Three warning labels are provided with this opener: attach as indicated in the fig 1.

- Danger of entrapment: place close to a fixed Wall Control(1).
- Service label: - place on the Manual Release cord (2).
- Caution Child Entrapment: (triangle label) - place on a low inside panel of the door (3).

24 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 remote(s). Do not allow children to play near the door.

NOTE: The transmitter(s) 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 remote code.

Program the Receiver to Match Additional Transmitter Codes:

Using the “S” SAVE Button

1. Press and Hold the button on the hand-held remote or wall button that you wish to use (1).
2. Press and release the “S” button on the opener (2).
3. Release the remote button when the opener light flashes. It has learnt the code. If you release the remote control push button before the opener light flashes, the opener has not learned the code.

Now the opener will operate when the remote control push button is pressed.

To Erase all Remote Control Codes

1. Press and Hold the “S” button on the opener until the indicator LED goes ON, and continue holding for approx. 8 seconds, until the indicator LED goes out.
2. Release the button, all codes are now erased.

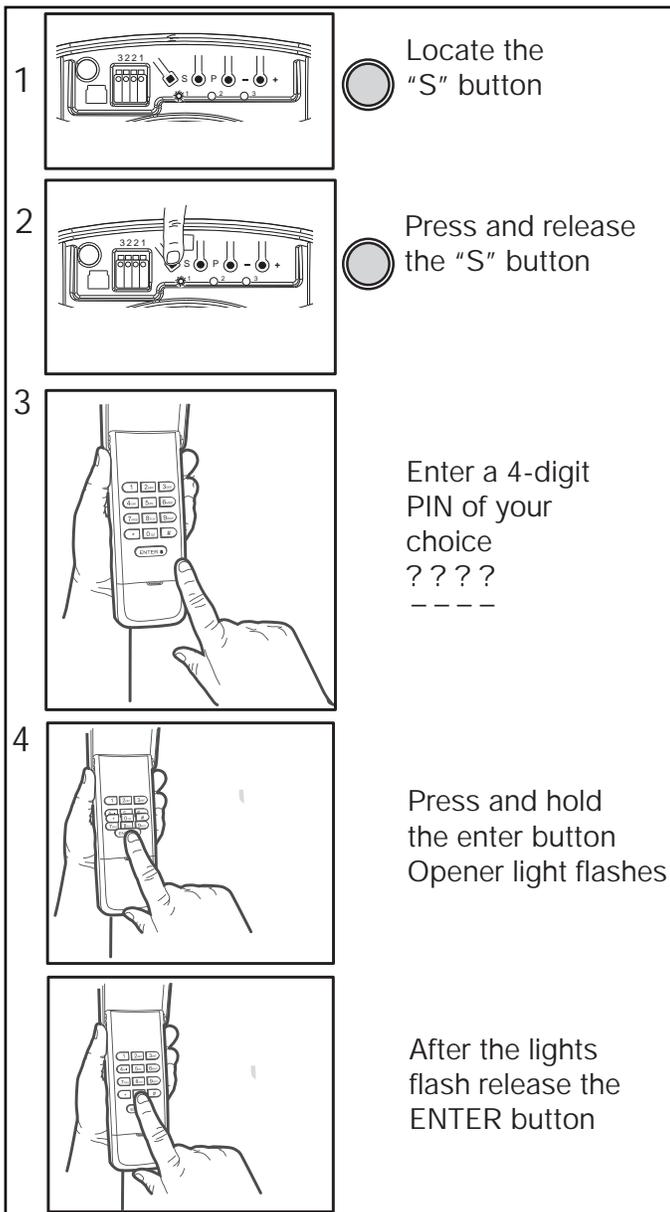
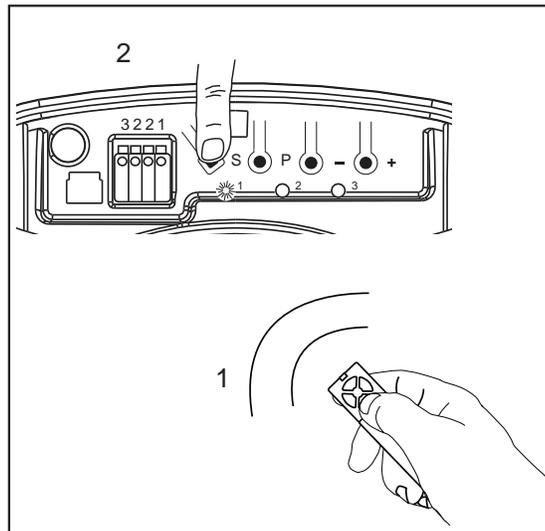
Wireless Keypad E840M

To set the keyless entry PIN:

1. Locate the “S” button on the garage door opener.
2. Press and release the “S” button. The LED 1 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 once.
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.



25 USING YOUR OPENER

- 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 Remote Control 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 18.

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

3. When the Opener is Activated by Remote Control:

- 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 reverse and stop.
- The optional Protector System™ 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 3 minutes.

26 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 chain and inside the rail assembly where the trolley slides.
- Internally the opener does not require additional lubrication.

27 REPLACE BATTERIES IN REMOTES

Battery of the remote control:

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



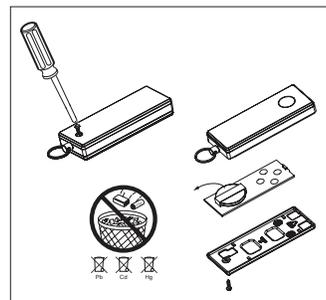
To prevent SERIOUS INJURY OR DEATH: observe the following instructions for the battery

- NEVER allow small children near batteries.
- If battery is swallowed, immediately notify doctor.
- Danger of explosion if battery is replaced improperly.
- Replacement only by identical or equivalent type.
- Dispose of old battery properly. Batteries should not be treated as household waste. All consumers are required by law to dispose of batteries properly at the designated collection points.
- Never recharge batteries that are not meant to be recharged.
- Do not short-circuit batteries or take them apart.
- If necessary, clean contacts on batteries and contacts before loading.
- Never expose batteries to excessive heat such as sunshine, fire or the like!

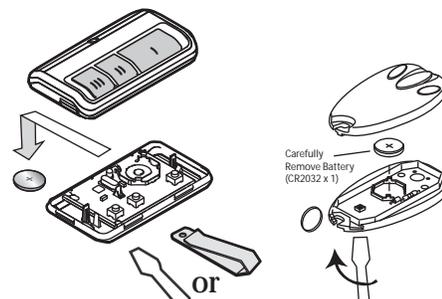
Replacing battery (CR2032):

To replace battery, turn remote control 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.



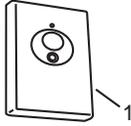
To replace battery for optional remote control transmitters - E943M, E940M & E945M, use a screwdriver blade to pry open the case as shown. Insert battery positive side up.



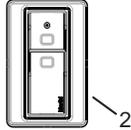
28 ACCESSORIES

(1) Model E128M	Wireless wall button	(6) Model E943M	3 Channel visor remote control
(2) Model E138M	Wireless wall button	(7) Model E945M	3 Channel mini remote control
(3) Model E952M	2 Channel remote control	(8) Model E840M	Keyless entry system
(4) Model E950M	4 Channel remote control	(9) Model C77	The Protector System™
(5) Model E940M	1 Channel visor remote control	(10) Model E1702M	Quick release lock

E128M



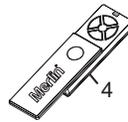
E138M



E952M



E950M



E940M



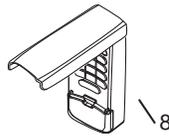
E943M



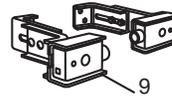
E945M



E840M



C77

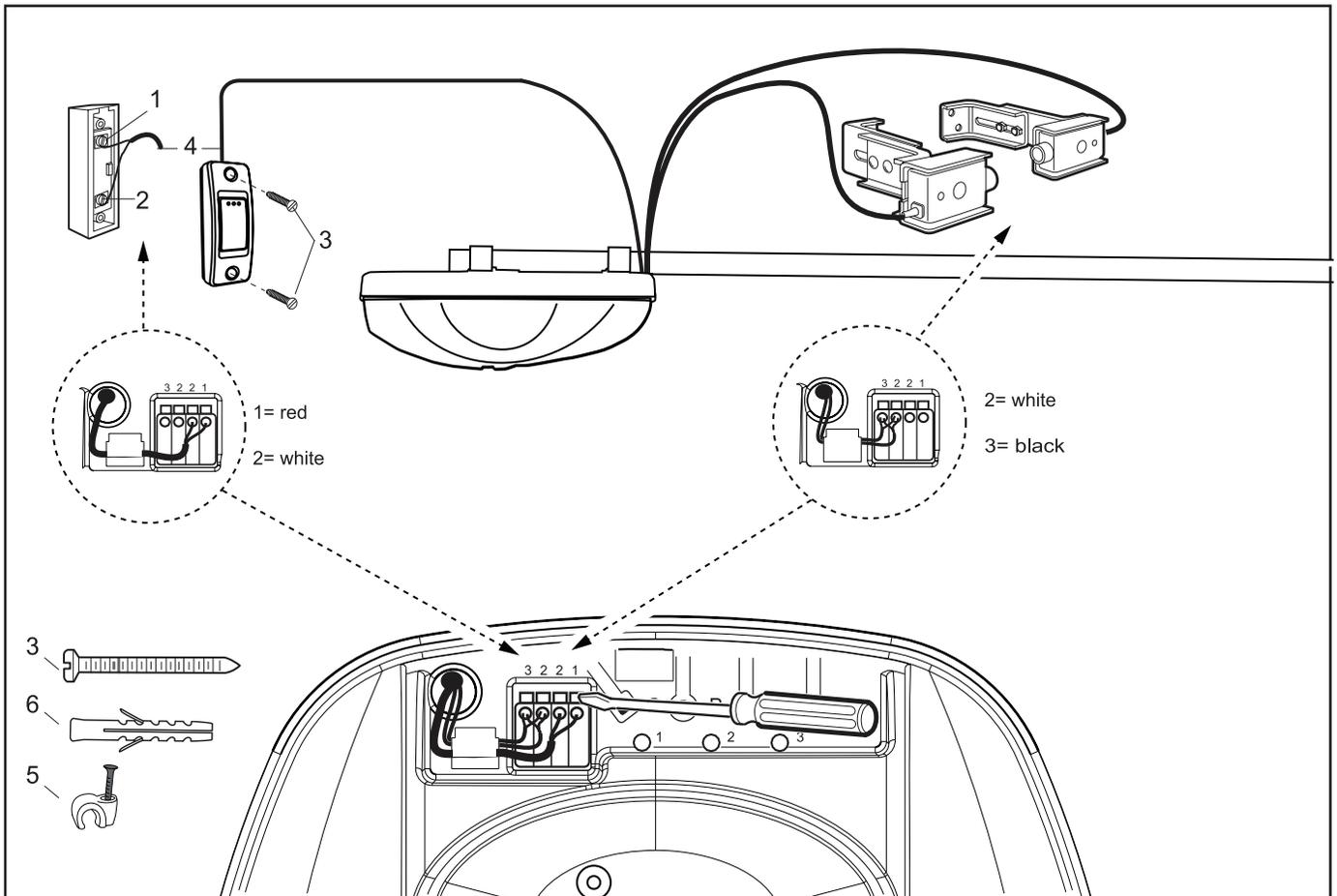


E1702M

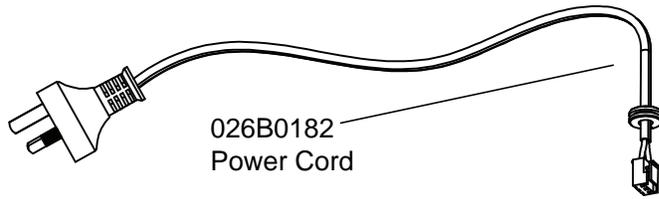


NOTE: Only genuine Merlin accessories are approved for use with this opener. Generic compatible accessories are **NOT** approved for use with this opener.

29 ACCESSORY WIRING DIAGRAM



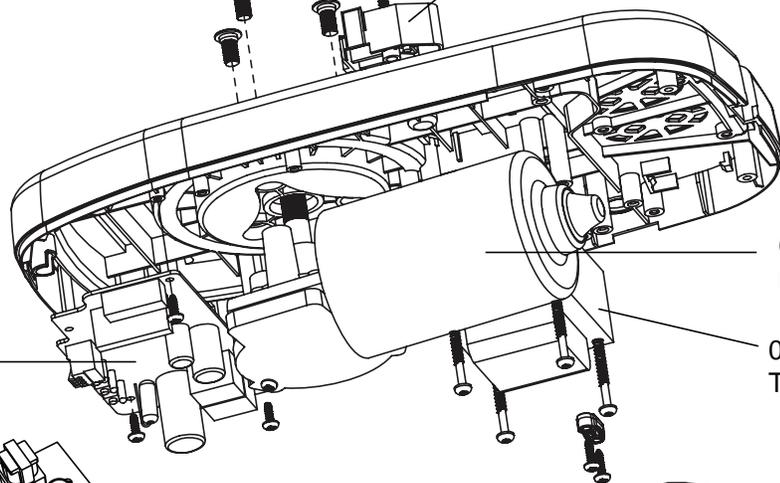
30 REPLACEMENT PARTS



026B0182
Power Cord

 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.

041A4004
Passpoint Assembly

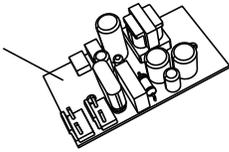


041A4033
Motor Assembly

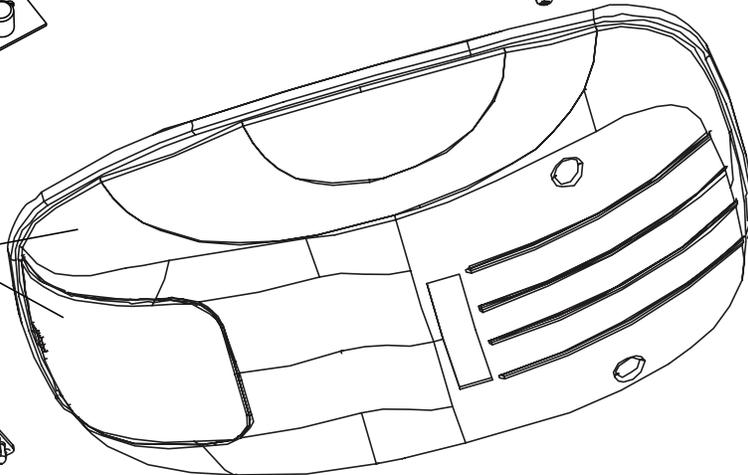
041A4024
Transformer

041A4001EV
Logic Board

041A4023
Power Board



041A4006
Cover & Lens Assembly



041A4002
Led Light



RAIL REPLACEMENT PARTS



041A4017
Motor shaft adapter (PVC)



041A4021
Trolley latch (chain)



041A4016
Position tab (chain)

31 TROUBLE SHOOTING

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

- 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 1.
- 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 remote:

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

3. Remote has short range:

- Check the battery in the remote is fully charged.
- Change the location of the remote control 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™ (if you have installed this accessory). If the light is flashing, correct alignment.

If the Protector System™ 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 remote push button is not stuck "on".
- Delete transmitter codes to eliminate possible faulty remotes.

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™ (if you have installed this accessory). If the light on the 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, 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 opener to reengage the trolley.
- In a new installation, the preassembled Motor Shaft Adapter may have fallen out of the chain sprocket assembly. This adapter is installed during the manufacturing process and may have dislodged.

32 SPECIFICATIONS - EntryLift - MT50EVO

Input Voltage.....230-240 Vac, 50 Hz
Max. Pull Force500 N
Power80 Watt
Standby Power0.8 Watt (door fully closed)
Normal Torque4 Nm
Max door weight.....60 kgs Spring balanced
Max door area.....Sectional door 13.0 m²

Motor

Type.....DC gearmotor permanent lubrication
Noise level.....55 db at 1 metre

Drive Mechanism

DriveChain with one-piece trolley on
steel rail.
Length of Travel.....2.5 m
Courtesy light.....8 LEDs
Light on Time.....3 min

Door LinkageAdjustable door arm. Pull cord trolley release.

Safety

PersonalPush button stop in **UP and DOWN** direction. Automatic safety reverse in both **UP and DOWN** direction.
Electronic.....Automatic force adjustment
ElectricalTransformer overload protector and low voltage push button wiring.
Limit DeviceMechanical Passpoint/RPM sensor
Limit AdjustmentElectronic
Soft-start/Soft-stop

Dimensions

Length (Overall).....3.45 m
Headroom Required 32 mm
Hanging Weight10 kg

Receiver

Memory Registers ...16 handset codes
1 keypad code

Operating
Frequency.....433.30/433.92/434.54 MHz

CHAMBERLAIN LIMITED WARRANTY Merlin® Professional EntryLift™ MT50EVO Sectional Garage Door Opener

Chamberlain Australia Pty Limited / Chamberlain New Zealand Limited (**Chamberlain**), the manufacturer of Merlin® automatic garage door openers, is committed to manufacturing and supplying high quality goods. As part of this commitment, we seek to provide reliable service and support for our goods and are pleased to provide you, the original purchaser, with this Chamberlain Limited Warranty.

The benefits given to you under this Chamberlain Limited Warranty are in addition to any rights and remedies that you may have under Australian or New Zealand consumer protection laws. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law, or New Zealand Consumer Guarantees Act 1993. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Chamberlain's warranty

What is covered

Chamberlain warrants to the original purchaser of the Merlin EntryLift MT50EVO Sectional Door Opener (Unit) that all parts of the Unit, other than remote controlled transmitters and accessories, globes and batteries, are free from defects in materials and workmanship for a period of 24 months or 5,000 cycles (each opening & closing of the garage door equals 1 cycle) whichever comes first, from the date of purchase when installed by a Professional Dealer appointed or authorised by Chamberlain in a residential premise with a residential specified garage door that is designed for the sole purpose of a single-family dwelling.

Chamberlain warrants that remote controlled transmitters and accessories included with the Unit are free from defects in materials and workmanship for a period of 12 months from the date of purchase.

What is not covered

Batteries and globes are not covered under the Chamberlain Limited Warranty.

Travel costs incurred by Chamberlain or the Professional Dealer in either travelling to or from areas outside a capital city metropolitan area. These costs will be at the purchaser's expense.

Additional access costs incurred by a Professional Dealer or Chamberlain in obtaining access where the Unit is not readily accessible. These cost will be at the purchaser's expense.

Warranty Conditions

It is a condition of this Chamberlain Limited Warranty that the Unit is sold, installed and serviced by a Professional Dealer appointed or authorised by Chamberlain. A Merlin branded garage door opener purchased over the internet and installed by a person other than a Professional Dealer will not be covered by this Chamberlain Limited Warranty.

It is also a condition of this Chamberlain Limited Warranty that for the operating life of the Unit:

- 1 the garage door is spring balanced, is operable by hand and opens and closes with no more than a maximum of 20 kgs of lifting weight;
- 2 the garage door and the Unit is professionally maintained and serviced by a Professional Dealer during the Chamberlain Limited Warranty period such that the spring balanced door operates according to manufacturer specifications. If your door binds, sticks, or is out of balance, then it must not be used until serviced by a trained door technician or Professional Dealer. The garage door service fee will be at the purchaser's expense;
- 3 the warranty is registered by completing the online form at www.gomerlin.com.au or www.gomerlin.co.nz; and
- 4 you retain your sales docket or invoice as proof of purchase, and attach it to this manual to enable you to establish the date of purchase in the unlikely event of a warranty service being required.

Making a claim

During the applicable Chamberlain Limited Warranty period, if you are concerned that the Unit may be defective, call the Professional Dealer that sold/installed the opener, or our service centre on the toll free number below and a Chamberlain technician will diagnose the problem and arrange for this to be rectified. Once the problem has been diagnosed, subject to your rights under the applicable Australian and New Zealand consumer protection laws with respect to major failures, Chamberlain or its Professional Dealer will provide you with either, repairs to the Unit or a replacement Unit.

Repairs and replacement parts provided under this Chamberlain Limited Warranty are provided free of charge and are warranted for the remaining portion of the original warranty period.

This Chamberlain Limited Warranty provides benefits which are in addition to your other rights and remedies as a consumer.

Exclusions - what voids the warranty

If our service centre determines that a warranty claim has been made in respect of a failure or defect arising under or out of any exclusion detailed below such that the claim is not covered under this Chamberlain Limited Warranty, we may, subject to your other rights and remedies as a consumer, charge you a fee to repair, replace and/or return the Unit to you.

This Chamberlain Limited Warranty does not cover any failure of, or defect in, the Unit due to:

- 1 non-compliance with the instructions regarding specifications, installation, operation, maintenance and testing of the Unit or of any product with which the Unit is used;
- 2 any attempt by a person other than a Professional Dealer to repair, dismantle, reinstall or move the Unit to another location once it has been installed;
- 3 tampering, neglect, abuse, wear and tear, accident, electrical storm, excessive use or conditions other than normal domestic use;
- 4 problems with, or relating to, the garage door or garage door hardware, including but not limited to the door springs, door rollers, door alignment or hinges;
- 5 problems caused by electrical faults or replacement of batteries or light bulbs, blown fuses, electrical surges, power surges or power strikes, fire, flood, rain, water, lightning or storms;
- 6 water or moisture ingress that causes corrosion or electrical malfunction;
- 7 corrosion caused by sea air if located near a waterway, beach etc;
- 8 fitment to a commercial door or in a commercial operating application, installation of a residential garage door opener in a commercial or industrial premises other than a single-family dwelling.
- 9 lack of proper maintenance, service or care of the door and Unit;
- 10 any unauthorised modification to the Unit; or
- 11 damage caused by insects, pests or other after sale damage caused by events or accidents outside Chamberlain's reasonable control and not arising under normal and standard operating conditions.

NB: A General Purpose Outlet (GPO) ie: power point must be supplied by the consumer as this electrical fitting does not form a part of the Unit (opener).

If this Chamberlain Limited Warranty does not apply, you may have rights available to you under the Australian and New Zealand consumer protection laws.

Liability – Australia only

Except as set out in the Australian Consumer Law (being Schedule 2 of the *Competition and Consumer Act 2010*) (as amended, consolidated or replaced):

- 1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
- 2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

Liability – New Zealand only

Except as set out in the *Fair Trading Act 1986 and the Consumer Guarantees Act 1993* (as amended, consolidated or replaced):

- 1 all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that Chamberlain can lawfully exclude them; and
- 2 under no circumstances will Chamberlain be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

Note

Chamberlain reserves the right to change the design and specifications of the Unit without prior notification. Some features or accessories of the Unit may not be available in certain markets or areas. Please check with your distributor.

Chamberlain service centre contact details

Australia

Phone toll free 1800 638 234
Fax toll free 1800 888 121
Email: customerservice@chamberlainanz.com
Website: gomerlin.com.au

Chamberlain Australia Pty. Ltd.

Unit1, 75 Epping Road
North Ryde NSW 2113
(PO BOX 1446, Lane Cove NSW 1595)

New Zealand

Auckland phone 09 477 2823
Phone toll free 0800 653 667
Fax toll free 0800 653 663
Website: gomerlin.co.nz
Email: customerservice@chamberlainanz.com

Warranty Registration

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

gomerlin.com.au/warranty

or

gomerlin.co.nz/warranty

Merlin[®]

the automatic choice