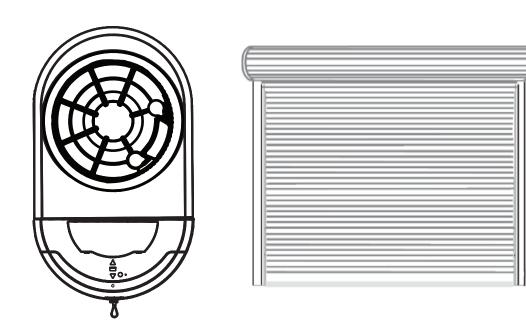
# Merlin



gomerlin.com.au gomerlin.co.nz



## **OVERDRIVE**<sup>TM</sup>

with Security 2.0

# MRC950EVO Light Commercial Rolling Door Opener

**Installation and Operating Instructions** 

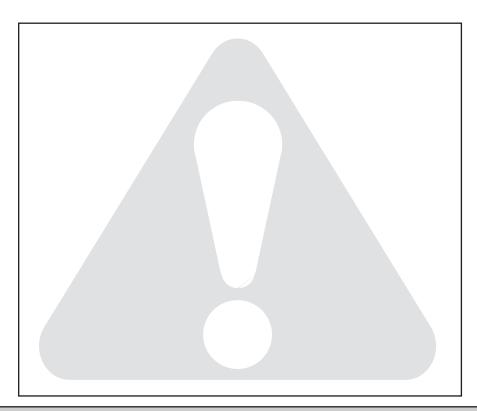
Owners Copy: Please keep these instructions for future reference





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### **IMPORTANT**

- \* Chain reduction assemblies that may interfere with the safe and proper operation of the OVERDRIVE™ (MRC950EVO) must be removed.
- \* All hand chains must be removed prior to fitting the OVERDRIVE™ (MRC950EVO).
- \* DO NOT use Extension Poles with the OVERDRIVE™ (MRC950EVO).
- \* The OVERDRIVE™ (MRC950EVO) can be used on windlocked doors based on the following conditions:
  - door is professionally installed, correctly sprung and maintained to manufacturer s instruction
  - door size up to 18 m<sup>2</sup>
  - product is only operated in normal conditions, not during adverse wind conditions.

### START BY READING THESE IMPORTANT SAFETY INSTRUCTIONS

### **WARNING**

- 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 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.



**Automatic Drive** - Keep away from the area of the door as it may operate unexpectedly.



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



The opener must not be used on a wicket door (door within a door).



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.



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



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

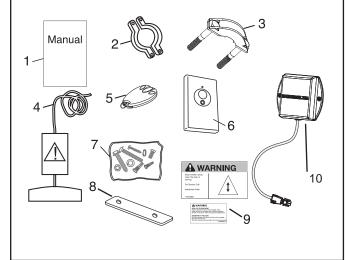
### **KEEP THESE INSTRUCTIONS**

NOTE: If your garage has no service entrance door, a CM1702 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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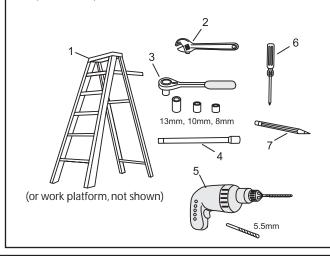
### 1 CARTON INVENTORY

- 1. Instruction manual (this document)
- 2. Stop collar
- 3. Clamp bracket
- 4. Release handle, cord and risk of entrapment card
- 5. Transmitters (2)
- 6. Wireless wall button
- 7. Hardware bag
- 8. Clamp plate
- 9. Warning label and risk of entrapment label
- 10. Battery back up



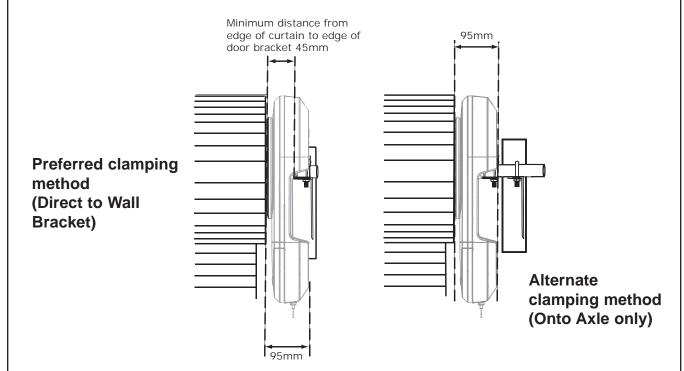
### 2 TOOLS REQUIRED

- 1. Ladder or work platform (not shown)
- 2. Adjustable wrench for U-bolts already installed on the door
- 3. 8mm socket, 10mm socket and 13mm extended socket and socket wrench
- 4. 300mm socket extension (for minimum side-room installations)
- 5. Drill and 5.5mm drill bit
- 6. Philips-head screwdriver
- 7. Marker pen
- 8. Hoist or similar device to safely lift & support door (not shown)



### **3 DOOR REQUIREMENTS**

The maximum allowable door height is 5.5m (light commercial door) with a maximum curtain area of 25m² (door height in metres multiplied by the width in metres). The door must be of continuous corrugated sheet construction, spring balanced & of a mass not exceeding 250kg. Door axle diameter must not exceed 35mm.

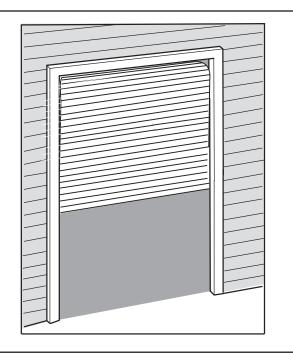


Ensure that there is at least 45 mm from the edge of the curtain to the edge of the bracket. If the roller door drum is on the edge of the curtain or is a smaller diameter, additional clearance may be required. (Ensure there is a power point near the opener.)

### 4 TESTING THE DOOR

Complete the following test to ensure your door is well balanced, and not sticking or binding:

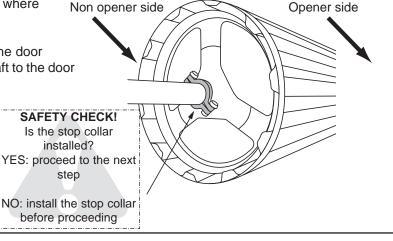
- Disable all locks and remove any ropes connected to the door.
- Lift the door to about halfway and then release it. The door should remain spring balanced.
- Raise and lower the door to determine if there are any sticking or binding points (15 kgf is the absolute maximum allowable to raise or lower the door in any position).
- If your door does not hold in place or the door binds, sticks or requires excessive force to move, call a qualified door technician before installing the opener.



### 5 INSTALLING THE STOP COLLAR

• Install the stop collar on the opposite end to where the opener is to be installed.

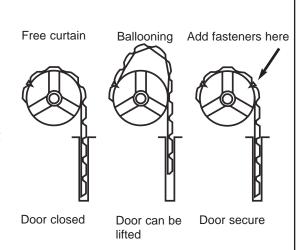
• Fit the stop collar hard against the boss of the door drum. Ensure the U-bolt holding the door shaft to the door bracket is tightly secured.



### 6 PINNING THE DOOR

Note: A ballooning door may delay the safety reversal response and can compromise door security.

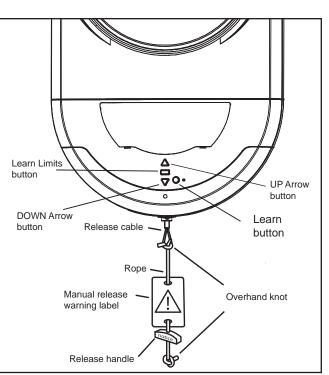
- To remedy any ballooning place self tapping metal screws or rivets where the curtain leaves the roll. Secure these through the curtain into the drum wheel at each end of the roll.
- After determining the correct fastener location as shown, lift the door approximately half a turn from the closed position to allow access for drilling.



### 7 THE RELEASE HANDLE & CORD

- Thread one end of the rope through the hole in the top of the red release handle so that "NOTICE" reads right side up as shown.
- Secure with an overhand knot at least 25mm from the end of the rope to prevent slipping.
- Thread the other end of the rope through the loop of the manual release cable.
- Adjust rope length so the handle (when installed) will be no higher than 1.8 m above the floor. Secure with an overhand knot.

NOTE: Final adjustment of handle height should be completed after the opener is installed. If it is necessary to cut the rope, heat seal the cut end to prevent unravelling (refer section 13).



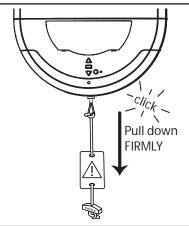
### 8 OPERATING THE MANUAL RELEASE

### To disengage the opener

Pull the release cord down firmly, (opener will make a clicking noise).

### To re-engage the opener

Pull the release cord down firmly, (opener will make a clicking noise).



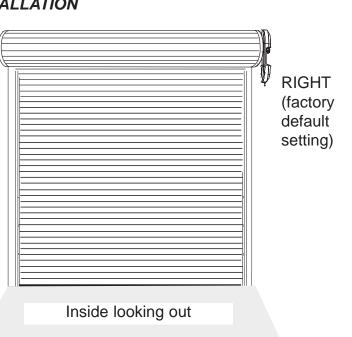


Disable all locks and remove any ropes connected to the door.

Take care when operating the manual release as an open door may fall rapidly due to weak or broken springs, or being out of balance.

### 9 LEFT / RIGHT HAND INSTALLATION

LEFT (handing must be changed during limit setting, section 11)



### 10 INSTALLATION PROCEDURE



Do not allow people to walk under or around the door during the installation process as serious injury can occur.

NOTE: The opener can be installed on either side of the door. The following instructions are for RIGHT HAND INSTALLATIONS (as illustrated i.e. inside the garage looking out). For left hand installations, reverse the instruction terminology (eg LEFT for RIGHT etc).

### **Preparation:**

- Place the opener in manual release mode (refer section 8).
- Open the roller door fully. For safety, tie a rope around the door.
- Ensure the door axle U-BOLT and door mounting bracket on the left hand side (non opener side) are securely fastened.
- Support the door with a door stand or similar device to safely support the door.
- Mark the position of the door shaft on the right hand door bracket (for reassembly purposes).
- While the door is supported, remove the right hand axle U-Bolt and door mounting bracket from the wall.

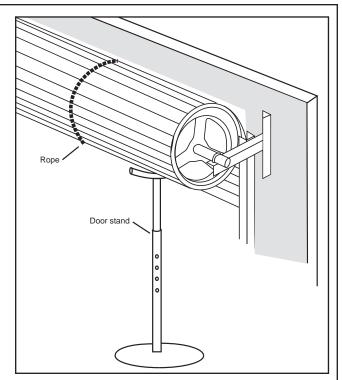
### Install the opener:

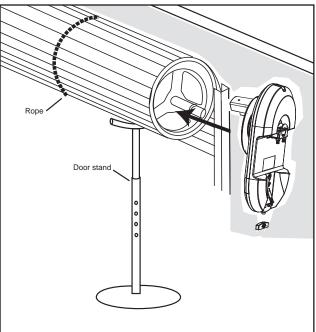
- Slide the opener over the door axle and engage the drive legs into the door drum wheel, either side of a spoke.
- Refit the door mounting bracket to the wall. If the door bracket needs to be relocated due to opener width, refer section 3.
- Clamp the opener on the door axle and door bracket in the marked position using the clamp assembly supplied (tighten to 25 – 28 Nm).
- If side room exceeds 95mm clamp independently to the door axle as illustrated in section 3.
- Remove all ropes and the support stand.
- Check the operation of the door in manual mode by raising and lowering by hand. It should operate smoothly without sticking or binding. The disengage handle should already be attached less than 1.8 m above the floor (refer section 7).

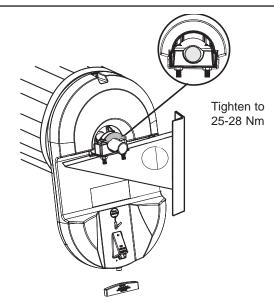


### Connect the power:

- Position the power cable away from the door curtain and any moving parts.
- Plug the opener into a nearby power point and turn ON.
- The opener courtesy LEDs should turn ON.
- The opener must now be programmed for:-
- DOOR TRAVEL LIMITS (Section 11)
- RIGHT OR LEFT HAND OPERATION (Section 11)
- FORCE SETTING (Section 11)







### 11 SETTING THE LIMITS FOR RIGHT OR LEFT HAND OPERATION AND FORCE

Travel limits set how far your door goes up and down. Your opener must be configured correctly for right or left hand installation to operate correctly, if not the door will rotate in the reverse direction.

NOTE: The OVERDRIVE™ (MRC950EVO) opener is factory configured for right hand installation.



The opener will operate during this procedure. Make sure the door is clear of obstruction. Ensure your hands are away from any moving parts before activating the door.

### Setting right or left hand operation:

- Ensure the door is positioned halfway and the opener is engaged.
- Turn the power ON. After 2 seconds the Courtesy LEDs will turn on.
- Press and hold the black (Limit) button until the orange indicator LED starts flashing, and then release. Either right or left courtesy LEDs will light up.
- For right hand installations, the right side bank of LEDs must light up, and for left hand installations, the left hand bank must light up.
- If the incorrect bank of LEDs is illuminated, simply press the Yellow learn button until the opposite bank lights up.
- Press and release the Black limit set button to accept hand. UP button will flash.

### Setting the open (UP) limit:

- Press and hold the "UP" button, until the door reaches the desired open position, and then release.
   You can adjust the door by using the DOWN button and UP button to adjust as necessary. Make sure there is enough room for your vehicle to pass under.
- Press and release the Black limit set button to acknowledge the Up position.
- Courtesy light flashes twice and DOWN button will flash.

### Setting the bottom (DOWN) limit:

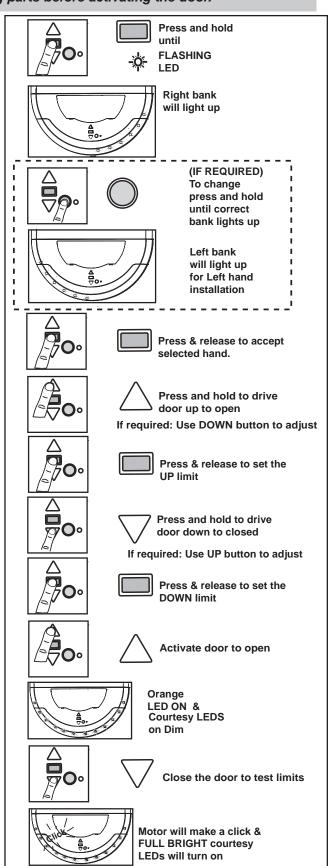
- Press and hold the "DOWN" button until the door reaches the desired closed position. If the door closes too hard against the floor, use the UP and DOWN button to adjust.
- Press and release the Black limit set button to acknowledge the down position.
- Courtesy light flashes twice and UP button will flash.

### **Setting the FORCE:**

- Press and release the UP button. The door will travel to the UP limit and the DOWN button will flash.
- Press and release the DOWN button. The door will travel to the DOWN limit.
- The indicator LED will stop flashing indicating the force has been learned.

### NOTE: The courtesy LEDs will go out after 2.5 min.

 The door must travel through a complete cycle, UP and DOWN, in order for the force to be set properly.
 If the opener cannot open and close your door fully, inspect your door to ensure that it is balanced properly and is not sticking or binding.

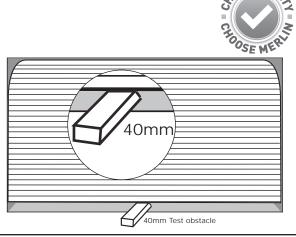


### 12 TESTING THE SAFETY REVERSE SYSTEM

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

Operate the door in the down direction. The door must reverse upon contact with the obstacle. If the door stops on the obstacle, remove obstacle and repeat limit and force setting (refer section 11).

Repeat test of the safety reverse system.



### 13 FIXING WARNING LABELS

Once you have completed your installation and successfully carried out the safety reverse system test (outlined above), install the warning labels provided with your opener as shown.

The **risk of entrapment label** must be installed adjacent to the release handle at a height of less than 1.8 m from the floor.

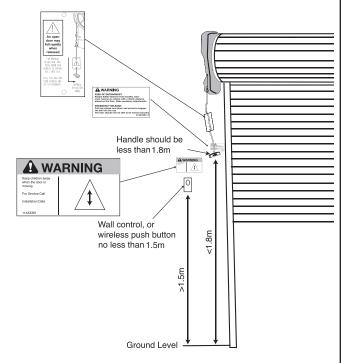
If required, use an eye bolt or hook (not included) to guide the release handle rope.

The **WARNING** label must be installed in a prominent place near any fixed control.

Any fixed wall control or wireless door control must be mounted at a height of no less than 1.5 m out of the reach of children.

Ensure the manual release instruction card is attached to the rope as detailed in section 7.

Read the safety instructions (page 1) for further details concerning safety.



### STANDARD INSTALLATION COMPLETE

### 14 INSTALL THE PROTECTOR SYSTEM™ (IR BEAMS) OPTIONAL ACCESSORY

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).

After the opener has been installed and adjusted, the **Protector System™** accessory can be installed. Instructions are included with this accessory.

The Protector System™ provides an additional measure of safety against a small child or animal being trapped under a garage door. It uses an infrared beam, which when broken by an obstruction, causes a closing door to open and prevents an open door from closing and is strongly recommended for homeowners with young children.



### **ENABLING THE PROTECTOR SYSTEM:** (Factory default – IR beams are not enabled.)

With the Protector System installed, enabled the IR Beams using the following process.

- TURN OFF the mains power and ensure any battery backup is also disconnected.
- PRESS and HOLD both the UP and DOWN arrow buttons.
- TURN ON the mains power to the operator.
- HOLD both arrows until the courtesy lamp flashes TWICE and remains ON.

The Protector System is now activated. Checks IRs operate correctly.

### SAFETY FIRST!



Whilst Chamberlain have engineered safety features into your garage door opener, we urge you to consider fitting 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.



### Timer to close feature (TTC)



Auto close is NOT recommended for households with young children.

**The Timer-to-close feature** allows the door to automatically close after a specified time period. Prior to the door closing, the garage door opener lights flash for 8 seconds before the door begins to close.

If the door encounters an obstruction while closing, the opener will make a second attempt to close the door. If an obstruction occurs on the second attempt, the garage door opener will open, stop and **WILL NOT** close until the obstruction has been cleared and the opener has been operated again.

### NOTE: The Protector System™ MUST be installed and operating for 5 minutes to enable this feature. Installing and adjusting:

- Turn the opener off
- Install the *Protector System™* using the brackets, wires and instructions provided with the product. Twist the two white (only) wires together and terminate them into the white (2) terminal. Twist the two white/black wires together and terminate them into the grey (3) terminal.
- Turn the opener on

With the door at the down limit, press and hold DOWN arrow until orange LED starts blinking.

Yellow LEARN button is used to cycle through the TTC settings:

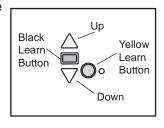
1 x long blink = TTC OFF

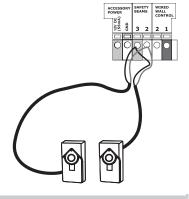
 $1 \times \text{short blink} = TTC 1 \text{ min}$ 

 $2 \times \text{short blink} = TTC 5 \text{ min}$ 

3 x short blink = TTC 10 min

Press black rectangle button to set and exit.







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

### 15 INSTALLING YOUR E128M WIRELESS WALL BUTTON

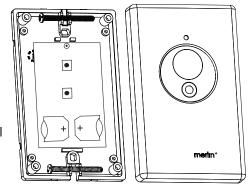


Disconnect power to the opener whilst installing this accessory to prevent accidental activation. Locate minimum 1.5 m above the floor.

### To install:

- Carefully pry open the E128M and locate the two screws for mounting.
- Attach to the wall using the two screws and wall anchors provided if mounting to a plaster wall. If using a recessed wall box do not use anchors.

NOTE: Do not overtighten screws.



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 section 16.

### 16 WIRELESS PROGRAMING (OPTIONAL ACCESSORIES)

NOTE: Transmitter(s) and wall button supplied with your opener are factory programmed.



Activate the opener only when the door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage whilst the 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.



Fix any wall control at a height of at least 1.5 m and within sight of the door but away from any moving parts.

NOTE: If adding an installed wall control (E128M) you will need a second person to press and hold the desired button. If not installed, program the wall button into the opener before mounting.

### ADDING transmitters using the LRN "LEARN" button

- Press and hold down the button you wish to program to the opener.
- The orange LED on the opener will flash to indicate it is receiving signal from the transmitter.
- Press and release the "LRN" button.
- The courtesy LEDs will flash once.
- Ensure the door is clear of obstruction, then test the transmitter.

### **Deleting ALL transmitter codes**

### NOTE: This deletes all transmitters and codes

• Press and hold the LRN learn button until the orange indicator light goes out (approximately 9 sec).

TO ADD Transmitters / Wireless wall button



or



Press and hold down the desired



**-O-** LED will FLASH





**Press LEARN** 



Release LRN button when Courtesy LEDs flashes once



TO DELETE ALL REMOTES



Press LEARN for 9 seconds



LED on WILL TURN ON

After 9 seconds all remotes are deleted and LED will go out.

### 17 KEYLESS DEVICE PROGRAMMING (OPTIONAL ACCESSORIES)



Activate the opener only when the door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage whilst the 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.

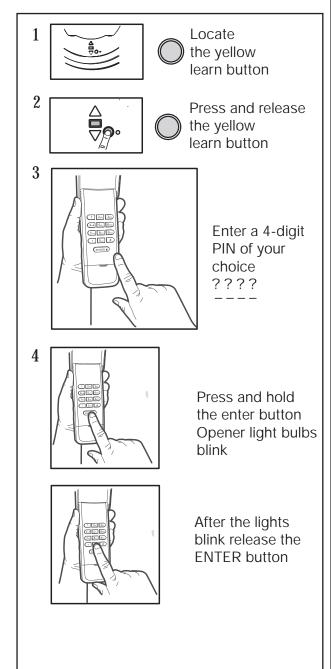
### Wireless Keypad E840M

### To set the keyless entry PIN:

- Locate the Yellow Learn button on the garage door opener.
- 2.Press and release the Yellow Learn button on the garage door opener. The LED will light.
- 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 blinks. Release the ENTER button after the light bulb blinks.

### To change an existing keyless entry PIN:

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



### 18 BATTERY BACKUP UNIT E475M12V



1. Installation instructions for mounting the BBU.

After the opener has been installed, position the BBU next to the opener on a structural support (joist) within BBU s cord length.

Attach the BBU to the support by using the wall or ceiling mount holes on either side of the BBU and the 1" (25mm) screws (provided).

2. Connect the BBU to the Opener.

Disconnect the opener from the electrical outlet.

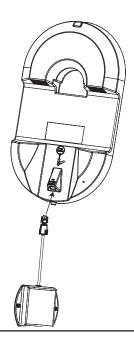
Connect the BBU cord into the connector on the bottom of the opener (see picture below). Connect the opener into the electrical outlet.

Turn the power ON. After 2 seconds the Courtesy LEDs will flash 5 times.

After 20 seconds, the green diagnostic LED (see picture next page) will begin to flash indicating the BBU is charging.

**IMPORTANT NOTE:** Installation of the BBU when permanent electrical power is not available (such as a new construction and the electricity is not installed) may damage the battery.

Unplug the BBU after testing to prevent damage.





To prevent possible SERIOUS INJURY DEATH electrocution, from disconnect ALL electric and battery power BEFORE performing ANY service or maintenance.

### **OPERATING INSTRUCTIONS**

### 1. Test the installed BBU with the opener.

To test the BBU, disconnect the opener power cord from the electrical power outlet.

A solid orange LED indicates the BBU is operating on battery power.

A flashing orange LED indicates the BBU is operating on battery power and that the battery charge is low.

To test the BBU is functioning properly, open and close the garage door.

Re-connect the opener power cord back into the electrical outlet.

Verify that the green LED is flashing on the opener (indicates that the BBU is now charging).

Test completed.

### 2. Charge the battery.

Allow the battery 24 to 48 hours to fully charge before using the BBU system.

A fully charged BBU supplies 12V DC to the opener for one to two days of normal operation during an electrical power outage. If the battery voltage drops too low, the battery will disconnect and the opener will no longer operate under battery power.

After the electrical power has been restored, the battery will recharge within 48 hours. Under normal usage the battery will last 3 to 5 years.

To obtain maximum battery life and prevent damage, disconnect the battery backup when the opener is not in use for an extended period of time.

NOTE: Door operation may be limited until the battery is fully charged.

### 19 BATTERY BACKUP UNIT E475M12V - CONTINUED

### **Battery Backup Unit (BBU) Diagnostics**

### **GREEN LED:**

All systems are normal.

- A solid LED light indicates the battery is fully charged.
- A solid LED light indicates the battery is fully charged.

**NOTE:** Battery does not have to be fully charged to operate the motor unit.

### **ORANGE LED:**

The motor unit has lost power and is operating off the BBU.

- A solid LED indicates the opener is activating the door and is operating off the BBU.
- A flashing LED indicates the battery is low.
- Once the power is restored the BBU will recharge. is indicated by a flashing green LED.

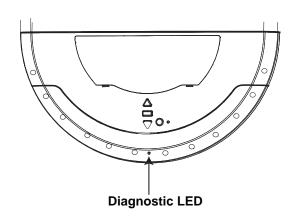
### **RED LED:**

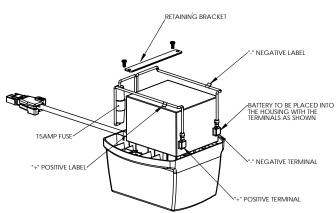
An error has been detected and the BBU will automatically shut off. The BBU will attempt to restart by reconnecting to the battery. If the error is still present it will shut itself off again. This process will repeat every 5 minutes or until the error has been resolved. This is used to prevent further draining of the battery.

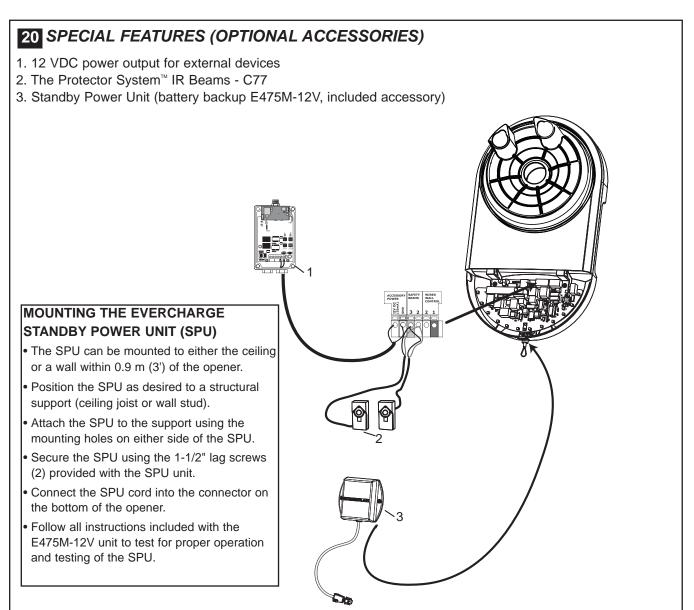
• If a red LED remains on when the power is restored please call for service.

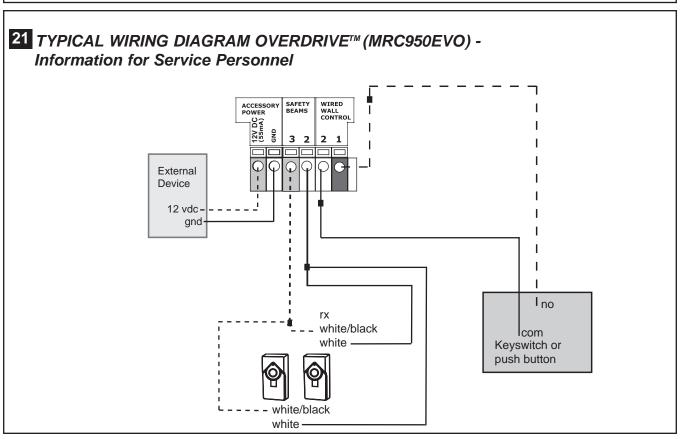
### **Replace Battery**

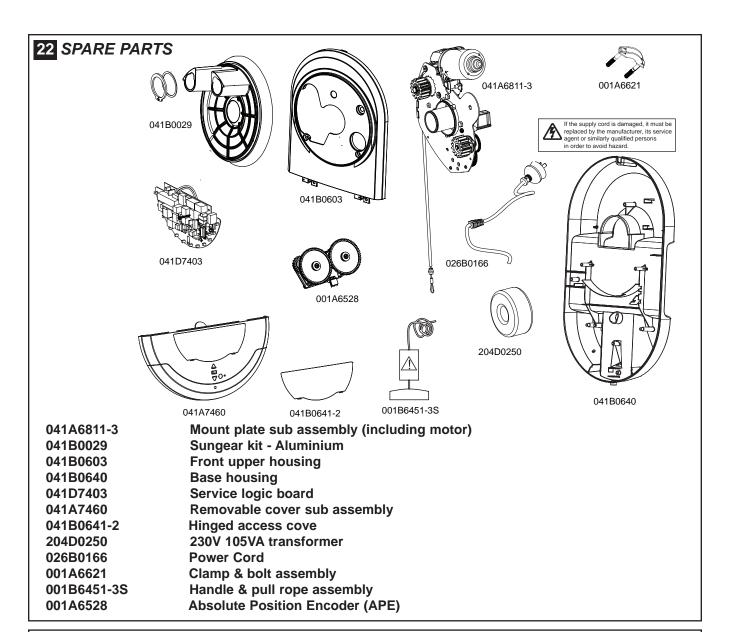
- Unplug the BBU from the opener and remove the screws holding the BBU to the wall.
- Remove the battery retaining bracket.
- Withdraw the battery from the housing and disconnect the terminals.
- Reinstall the new battery in the reverse process, taking care to connect the positive and negative terminals correctly.
- Reconnect the BBU to the opener as in step 2 of the previous page.







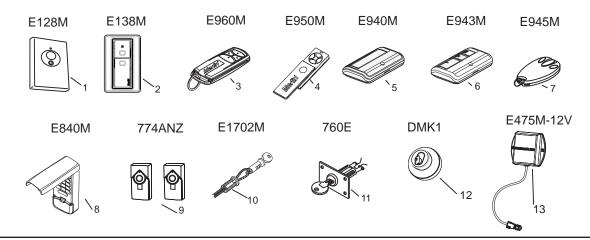




### ACCESSORIES

| _   |             |                                |      |                  |                                      |
|-----|-------------|--------------------------------|------|------------------|--------------------------------------|
| (1) | Model E128M | Wireless wall button           | (8)  | Model E840M      | Keyless entry system                 |
| (2) | Model E138M | Wireless wall button           | (9)  | Model 774ANZ     | The Protector System™                |
| (3) | Model E960M | 4 Channel remote control       | (10) | Model E1702M     | Quick release lock                   |
| (4) | Model E950M | 4 Channel remote control       | (11) | Model 760E       | Outside keyswitch                    |
| (5) | Model E940M | 1 Channel visor remote control | (12) | Model DMK1       | Outside quick release (brick fix)    |
| (6) | Model E943M | 3 Channel visor remote control | (13) | Model E475M-12 V | Standby Power Unit (battery back up) |
| (7) | Model E945M | 3 Channel mini remote control  |      |                  |                                      |
|     |             |                                |      |                  |                                      |
|     |             |                                |      |                  |                                      |

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



# DIAGNOSTIC CHART

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

| DIAGNOSTIC UP<br>CODE AR | : UP<br>ARROW | DOWN<br>ARROW | SYMPTOM   | POSSIBLE CAUSE   | POSSIBLE RESOLUTON   |
|--------------------------|---------------|---------------|---|--|--|
| 1-1                      | 1 FLASH       | 1 FLASH       | The garage door opener will<br>not close and the lights will<br>flash | The Protector System is not installed, connected, or wires may be cut    | Check the Protector System <sup>TM</sup> is installed and aligned correctly, both LEDs are ON with no obstruction between the beams. |
| 1-2                      | 1 FLASH       | 2 FLASHES     | The garage door opener will<br>not close and the lights will<br>flash | The Protector System wire shorted or reversed                            | Check the Protector System is installed and aligned correctly, both LEDs are ON with no obstruction between the beams.               |
| 1-3                      | 1 FLASH       | 3 FLASHES     | Wall mounted door control will not function                           | The wires for the door control are shorted or the door control is faulty | Check the door control wiring is correct   |
| 4-1                      | 1 FLASH       | 4 FLASHES     | The garage door opener will not close the door and the lights flash   | Misaligned or obstructed<br>Protector System™                            | Check the Protector System™ is installed and aligned correctly, both LEDs are ON with no obstruction between the beams.              |
| 1-5                      | 1 FLASH       | 5 FLASHES     | The garage door opener clicks but no movement                         | Internal fault   | Contact service centre   |
|                          |               |               | The opener runs approximately 150-200 mm and stops and/or reverses    | Communication error to travel module                                     | Contact service centre   |
| 2-1                      | 2 FLASHES     | 1 FLASH       | The garage door opener will not operate                               | PCB memory corrupt   | Reset opener by turning the mains<br>OFF for 20 seconds<br>Retest Opener   |
| 2-2                      | 2 FLASHES     | 2 FLASHES     | The garage door opener will not operate                               | PCB Voltage test failure   | Reset opener by turning the mains<br>OFF for 20 seconds<br>Retest Opener   |
| 2-3                      | 2 FLASHES     | 3 FLASHES     | The garage door opener will not<br>operate in battery mode            | Battery failure - if fitted  | Recharge battery Reset opener by turning the mains OFF for 20 seconds Contact customer service                                       |

| DIAGNOSTIC UP | UP<br>ARROW | DOWN<br>ARROW | SYMPTOM  | POSSIBLE CAUSE  | POSSIBLE RESOLUTON  |
|---------------|-------------|---------------|--|---|---|
| 2-4           | 2 FLASHES   | 4 FLASHES     | The garage door opener will not operate by remote controls                               | PCB radio receiver failure  | Reset opener by turning mains OFF for 20 seconds, recode transmitters |
| 2-5           | 2 FLASHES   | 5 FLASHES     | The garage door opener will not operate  | PCB possible internal failure   | Reset opener by turning mains OFF for 20 seconds, retest opener.      |
| 3-3           | 3 FLASHES   | 3 FLASHES     | The garage door opener fails to operate and the battery LED is constantly flashing green | Battery LED flashing green,<br>charging circuit stops and starts<br>to drain causing battery charging<br>status | Recharge Battery, contact<br>service centre.                          |
| 1-4           | 4 FLASHES   | 1 FLASH       | Door is closing, stops and reverses  | Obstruction, binding or sticking door   | Remove obstruction, service door.                                     |
| 4-2           | 4 FLASHES   | 2 FLASHES     | The door stops while opening for no apparent reason                                      | Obstruction, binding or sticking door   | Remove obstruction, service door.                                     |
| 4-3           | 4 FLASHES   | 3 FLASHES     | The door reverses for no<br>apparent reason or after touching<br>the floor               | Obstruction, binding or sticking door   | Reset limits & force, service door.                                   |
| 4-4           | 4 FLASHES   | 4 FLASHES     | The door reverses for no apparent reason or after touching the floor                     | Obstruction, binding or sticking door   | Reset limits & force, service door.                                   |
| 4-5           | 4 FLASHES   | 5 FLASHES     | The opener runs approximately<br>150-200 mm and stops and/or<br>reverses                 | Communication error to travel module  | Reset limits & force contact service centre                           |
| 4-6           | 4 FLASHES   | 6 FLASHES     | 4-6 4 FLASHES 6 FLASHES The door reverses for no apparent Safres of travelling down obs  | Safety sensors were temporarily obstructed or misaligned  | Remove obstruction, or realign<br>sensors                             |

These are additional troubleshooting issues that will not show up in the diagnostic codes:

# My remote control will not activate the door:

- \* Reprogram the remote control.
- \* If the remote control will still not activate the door check the diagnostic codes to ensure the garage door opener is working properly.
- \* Ensure the antenna wire is hanging down from the garage door opener.

# My garage door opener light(s) will not turn off when the door is open:

The garage door opener is equipped with a feature that turns the light on when the safety reversing sensors have been obstructed. If staying on continually - Contact Customer Service Centre.

# My neighbour's remote control opens my garage door:

Erase the memory from your garage door opener and reprogram the remote control(s).

### TROUBLESHOOTING

- 1. The opener will not operate from either the **ACTIVATION** arrows or the transmitters:
- the outlet. If it does not work, check the fuse box.
- Have you disabled all door locks? Review installation instruction warnings on page 1.
- door may be frozen to the ground. Remove any restriction.
- The garage door spring may be broken. Have it replaced.
- 2. Opener operates from the transmitter, but not from the wired wall control terminals:
- Are the wiring connections correct?
- 3. The door operates from the ACTIVATION arrows but not from the wireless wall control or transmitter:
- Program the opener to match the transmitter code (Refer to section 16). Repeat with all transmitters.
- 4. The transmitter has short range:
- Change the location of the transmitter in your car.
- Check to be sure the antenna on the bottom of the opener extends fully downward.
- Some installations may have shorter range due to a metal door, foil backed insulation, or metal garage sidina.
- 5. The garage door opens and closes by itself:
- Be sure that all transmitter push buttons are off.
- If the wired wall control terminals are installed, remove the bell wire from the wired wall control terminals and operate from the ACTIVATION button or transmitter . If this solves the problem, the wired wall control is faulty • If a Battery Back up Unit is connected, the opener (replace), or there is an intermittent short on the wire between the wired wall control and the opener.
- Clear memory and re-program all wireless wall controls and transmitters.
- 6. The door reverses and stops before opening completely:
- Is something obstructing the door? Is it out of balance. or are the springs broken? Remove the obstruction or repair the door.
- 7. The door reverses for no apparent reason and opener lights blink 10 times after reversing:
- Check the Protector System™ (IR Beams), if installed. If the red light on the beam is flashing, the alignment is incorrect.

### **DISABLING THE PROTECTOR SYSTEM:**

If the Protector System is no longer required, it is necessary to deactivate the opener so that normal operation can occur.

### With the IR beams REMOVED.

- TURN OFF the mains power and ensure any battery backup is also disconnected.
- PRESS and HOLD both the UP and DOWN arrow
- TURN ON the mains power to the operator.
- HOLD both arrows until the courtesy lamp flashes 3 times and remains ON.

The Protector System is now deactivated. The door should operate normally.

### 8. The door opens but will not close or reverses while closing:

- Does the opener have electric power? Plug a lamp into Is something obstructing the door? Pull the manual release handle. Operate the door manually. If it is unbalanced or binding, call a trained door systems technician.
- Is there a build-up of ice or snow under the door? The Clear any ice or snow from the garage floor area where the door closes.
  - Repeat the limit and force setting in section 11. Repeat safety reverse test after adjustments.

### 9. The opener strains to operate door:

 The door may be out of balance or the springs may be broken. Close the door and use the manual release to disconnect the door. Open and close the door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, disconnect the opener and call a trained door systems technician.

### 10. The opener motor hums briefly, then will not

- Check that the door is not in manual release mode (refer section 8).
- The garage door springs may be broken. See above.
- If the problem occurs on the first operation of the opener, door may be locked. Disable any door locks.

### 11. The opener will not operate due to power failure:

- Use the manual release handle to disconnect the door. The door can be opened and closed manually. When power is restored, re-engage the opener (refer
- should be able to operate up to 20 times without

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

Check the diagnostic code on previous page

### 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.



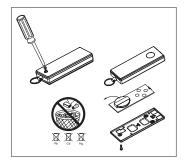
To prevent SERIOUS INJURY OR DEATH: observe the following instructions for the battery

- 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!

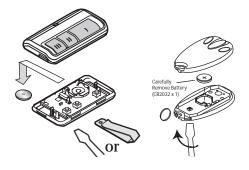
### Replacing battery (CR2032):

To replace battery for optional remote control transmitter E950M, 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 with a new battery in reverse process.



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



### OPERATION OF YOUR OPENER

Your opener can be activated by any of the following devices:

### The Up and Down arrow

Press the button until door starts to move.

- The outside keyswitch or keyless entry system (if you have installed any of these accessories).
- The Transmitter or Wireless Wall Control (E128M)
   Hold the push button down until the door starts to move.

### When the opener is activated by transmitter, Up or Down buttons:

- 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.

### Obstruction behaviour:

- If an obstruction is encountered while closing, the door will reverse.
- If an obstruction is encountered while opening, the door will reverse and stop.
- The optional Protector System<sup>™</sup> 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 applications where young children may be present.



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.

### Opening the door manually:

The door can be opened manually by pulling the release cord down firmly.

To re-engage the door, pull the release cord down firmly.

### The opener light will turn on:

- when opener is initially plugged in;
- when the power is briefly interrupted;
- when the opener is activated.

(the light turns off automatically after 2-1/2 minutes.)

### CARE OF YOUR OPENER

When properly installed, your opener will operate with minimal maintenance. The opener does not require additional lubrication.

Limit and Force Settings: These settings must be checked and properly set when the opener is installed. Weather conditions may cause some minor changes in the door operation, requiring some readjustments, particularly during the first year of operation. Refer to limit and force setting in, section 11.

### Follow the instructions carefully and repeat the safety reverse test after any adjustment.

Transmitter: Additional transmitters can be purchased at any time. Refer to Accessories. Any new transmitters must be programmed into the opener.

Transmitterbattery: If transmission range decreases, replace the battery.

### MAINTENANCE OF YOUR OPENER

### Once a Month:

- Manually operate door. If it is unbalanced or binding, call for professional door service.
- Check to be sure door opens and closes fully.
   Set limits and/or force if necessary.
- Repeat the Safety Reverse test. Make any necessary adjustments.
- Every 6 months retension the opener clamp bolts, refer to Section 10.

### SPECIFICATIONS OVERDRIVE™ (MRC950EVO)

Input Voltage: 230-240 VAC, 50 Hz, 110 W

Rated Load: 40 Nm

Max.Pull Force: 1300 N @ Q300 mm

Max. door weight 250 kg
Max lift under spring tension 15 kg
Max. door area: 25.0 m<sup>2</sup>

Max. door area for

windlocked doors: 18.0 m<sup>2</sup>

Standby Power: < 1 Watt

Drive: DC gearmotor permanent

lubrication

Max. Drum Rotations: 4<sup>1/2</sup>
Memory Registers: 64

Operating Frequency: 433.30/433.92/434.54 MHz

### **CHAMBERLAIN LIMITED WARRANTY**

### Merlin® Professional OverDrive™ MRC950EVO

### Roller Garage Door Opener

Chamberlain Australia Pty Limited / Chamberlain New Zealand Limited (**Chamberlain**), the manufacturer of Merlin<sup>®</sup> 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 Guarantess 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 OverDrive MRC950EVO Roller Door Opener (Unit) that all parts of the Unit, other than remote controlled transmitters, battery back up units 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 or a light commercial premise fitted with a continuous sheet roller door.

The 2 year warranty on the Merlin OVERDRIVE™ (MRC950EVO) now covers wind lock applications. The warrranty is valid for Merlin OVERDRIVE™ (MRC950EVO) openers installed on new wind locked doors and based on the below conditions;

- Door is professionally installed, correctly sprung and maintained to manufacture's instructions (evidence of professional maintenance must be provided in the event of a warranty claim)
- Door size up to 18 m<sup>2</sup>
- Product is only operated in normal conditions, not during adverse wind conditions.

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 15 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 Profesional Dealer. The garage door service fee will be at the purchaser's expense;
- 3 the warranty is registered by completing the online form at <a href="https://www.gomerlin.com.au">www.gomerlin.com.au</a> or <a href="https://www.gomerlin.co.nz">www.gomerlin.co.nz</a>; 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 use of sungear extension poles;
- 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 Website: gomerlin.com.au

### 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



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