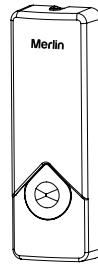
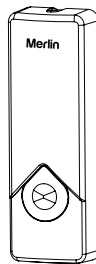
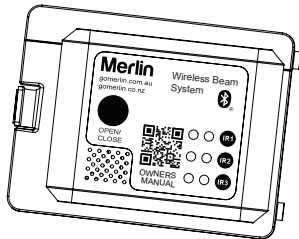


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WBKIT-M

WIRELESS SAFETY BEAM SYSTEM

Installation and Operating Instructions manual

Owners Copy: SAVE THESE INSTRUCTIONS for future reference



WARNING!

Review all safety warnings outlined in your Garage door operator owner's manual. Ensure that the door and all its fixtures and fittings are in good condition.

To protect small children, install the Wireless Safety Beam System at a maximum height of 100mm above the floor.

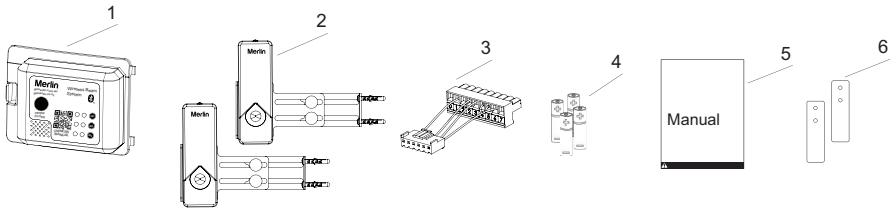
Disconnect power to the door opener before installing the Wireless Safety Beam System.

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Included in the carton

1. Base Station x1
2. Pair of Wireless IR Beams (TX / RX) pre-installed on brackets x1
3. Pre-terminated wiring harness & terminal block x1
4. Battery x4
5. Installation Instructions
6. Template x2



OVERVIEW

The Wireless Safety Beam System (IR Beams) is a set of send and receive infra-red photoelectric beams, paired to a base station providing monitored Entrapment Protection for use with compatible Merlin® door openers.

The Wireless Safety Beam System is designed to increase the safety and functionality of your garage door opener. The system uses an invisible beam across the garage door opening. If an obstruction breaks the light beam while the door is closing, the door will stop and reverse to full open position.

If an obstruction breaks the light beam while the door is opening, the door will continue to the full open position.

Note: The Wireless Safety Beam System is only compatible with the Merlin® products listed below. Use with ANY other product voids warranty.

Commander Extreme II - MS127MYQ
Commander Platinum II - MS137MYQ

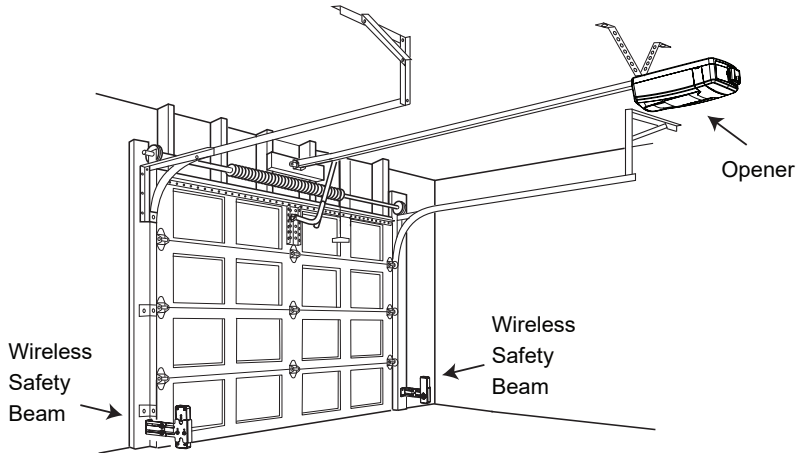
PLANNING

Identify the type and dimensions of your residential garage door.

The Entrapment Protection System required for your installation will be determined by the functional requirements of the door.

Check the following:

- **Maximum distance between the transmitter (Tx) and receiver (Rx) 8.0m.**
- The brackets must be installed securely to a solid surface such as the wall or floor.
- The IR Beam set must be installed so that they face each other across the entrapment zone without any obstructions.
- No part of the door (or tracks, springs, hinges, rollers or other hardware) can obstruct the beam while the door is closing.
- There is clearance either side of the door for the mounting brackets to be installed without any obstructions.
- Any environmental issue that may impede the operation of the IR Beams. (e.g. condensation, direct sunlight, etc.)
- Any reflective surface on vehicles or surroundings that may affect the operation of the IR Beams.
- When installing multiple IR Beam sets, ensure they are installed so that they function independently of each other, and the IR Beams do not align with the other set.
- Up to three (3) sets of IR beams can be installed.



ENTRAPMENT PROTECTION

To ensure the installation meets these requirements, refer to AS/NZS 60335.2.95.

When using the Wireless Safety Beam System as part of the Entrapment Protection System, ensure it is installed to detect a 100mm high obstruction, ie; approximately 80mm from the floor.

Consideration should be given to the detection of vehicles or other similar equipment. To provide adequate Entrapment Protection, additional Entrapment Protection System devices may be required to be installed at a site specific height.

Make sure the brackets are aligned so that the IR Beams will face each other across the entrapment zone as illustrated.

INSTALLATION

CAUTION

Door opener programming should be completed prior to installation of your Wireless Safety Beams.

STEP 1: CONNECTING THE BASE STATION

NOTE: The base station unit is attached to the back of the opener replacing the existing control panel cover.

1. Turn power off to the Garage Door Opener and remove Battery Backup.
2. If already installed, remove existing cover (figure 1) and terminal block (please store in a safe place as they may be required in the future).
3. Connect the pre-wired wiring harness to the opener terminal block socket making sure the green terminal block is fully seated (figure 2).
4. Plug the pre-wired 6 pin connector into the back of the Base Station (figure 3).
5. Plug the pre-installed 2 pin connector from the opener to the Base Station (figure 3).
6. Insert the right hand tabs of the Base Station to the opener and click into place.
7. Reinstall the Battery Backup connector and power up the opener.

The Base Station will beep and green LED will flash until the batteries in the IR Beams are connected. See Step 2.

Figure 1

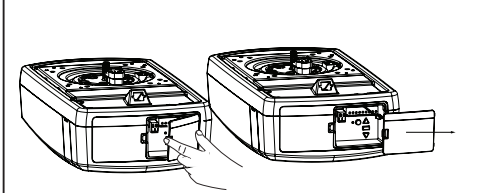


Figure 2

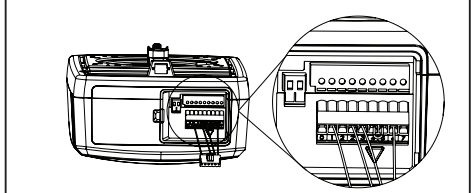
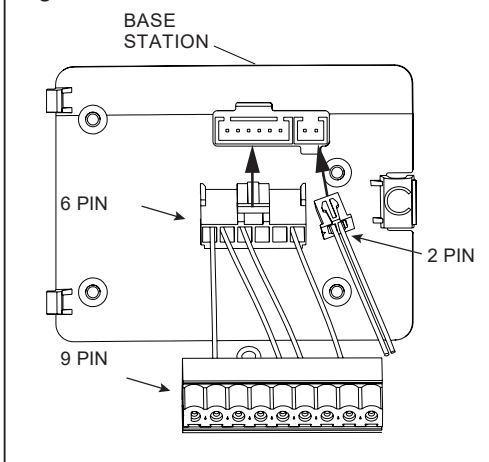
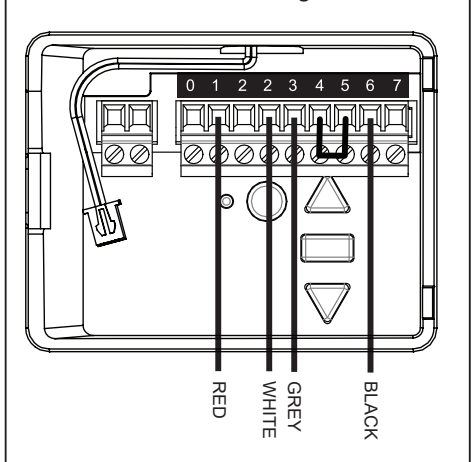


Figure 3



Schematics Diagram



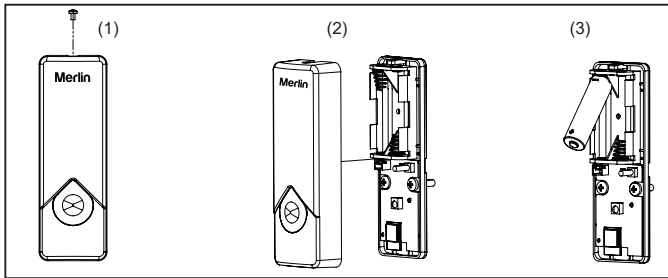
INSTALLATION

STEP 2: BATTERY INSTALLATION / REPLACEMENT

NOTE: The Wireless Safety Beam System (IR Beams) is supplied with 4 x Energizer L91 Lithium batteries (Chamberlain strongly recommends the use of L91 lithium cells in order to maintain maximum battery life).

To access the battery compartment:

1. Remove the M3 screw (1) at the top of the IR beam housing.
2. Remove the front housing (2) to expose the battery compartment
3. Install AA batteries being careful that the polarity of each cell is correct (3). The IR Beams are now powered up.
4. Replace the front housing and re-install the M3 screw.



The Base Station will now connect to the IR beams. The Base Station will beep and the green LED will flash while pairing. Once the connection is made, the Base Station green LED will remain solid. If they do not connect automatically, please see IR Learning procedure on page 7.

CAUTION

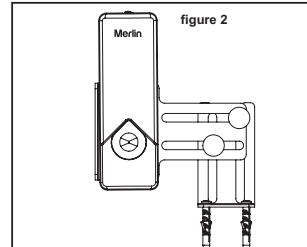
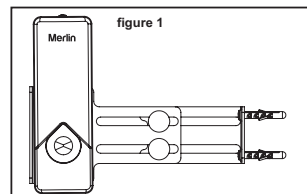
Batteries should never be put in your recycling or waste bin. Please remove the battery from the product by hand and tape the terminals using a non-conductive tape like clear sticky tape or PVC electrical tape.

Taped lithium batteries can be returned to Community Recycling Centres, Household Chemical Clean Out events, major supermarkets and hardware stores.

STEP 3: BRACKET SETUP

The Wireless Safety Beam System (IR Beams) is supplied with the brackets pre-installed in a wall mounting position (figure 1). Brackets may be rotated 90° as shown (figure 2) to suit floor mounting if required. Brackets are adjustable between 90mm -140mm by using the 2 coach bolts in the slotted holes. Do not deform the brackets to adjust the alignment.

NOTE: The IR Beams require mounting to a fixed wall or floor. Ensure no part of the door (door tracks, springs, hinges, rollers or other hardware) interrupts the beam while the door is moving. If the door obstructs the beam, relocate the IR Beam to a position that allows the beam to be as close as possible, without being obstructed. The invisible light beam path must not be obstructed.



INSTALLATION

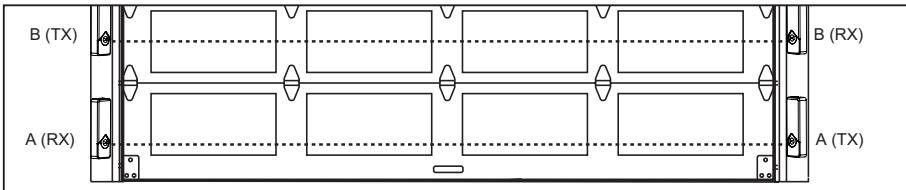
STEP 4: MOUNTING BRACKETS AND IR BEAMS

1. Install the mounting brackets and IR Beams to either side of the inside of the garage door, and at a height of no greater than 100 mm off the garage floor.
2. The brackets are designed to be used for Wall (figure 1) or Floor fixing (figure 2) with a variety of hole combinations to achieve the desired results.
3. Drill the required holes and install the brackets with wall plugs and screws provided. Ensure the brackets do not obstruct the door movement.

The below illustration refers to the installation of the IR Beams. The IR Beams (A) must be installed to detect an obstacle of 100mm maximum height.

If additional detection height is required, install a second set of IR Beams (B) to meet the functional requirements of the door.

NOTE: When using a 2nd or 3rd set of IR Beams, alternate the Receiver (RX) and Transmitter (TX) sides.

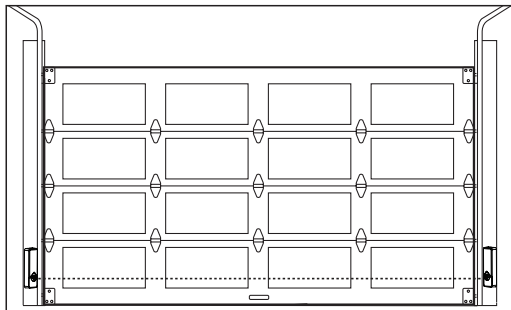


ALIGNMENT

The IR Beams must be on the same horizontal plane to each other. When properly aligned, the Red LED within the IR Beams WILL NOT be illuminated. The LED within the IR Beams will blink rapidly when the IR Beam is NOT in alignment or obstructed.

RED LED OFF	Aligned
RED LED Flashing	Misaligned/Obstructed

If the IR Beam is not aligned, adjust the bracket until the LED stops flashing and is not illuminated.



CAUTION

Do not bend the brackets to align the IR Beams.

TESTING

TEST THE WIRELESS SAFETY BEAM SYSTEM

Remove all obstacles from the path of the door. Connect the power to the opener.

1. Using a remote control, check the Opener operates in both directions.
2. Obstruct the beams with the door fully OPEN, the door should not move and the Courtesy light will Flash 10 times.
3. Obstruct the beams with the door travelling DOWN, the door should STOP and return to the UP position. The Courtesy light will Flash 10 times.
4. Obstruct the beams with the door travelling UP, the door should continue to the OPEN position.

TROUBLESHOOTING



To reduce the possibility of an unintended door closure, especially when special features are enabled or third-party devices are connected to the opener, it's important to ensure the door is in the closed position

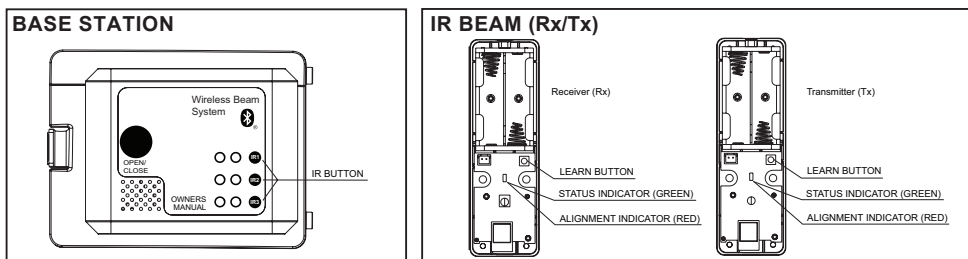
IR Learning Procedure

1. Remove the M3 screw at the top of the IR Beam housing.
2. Remove the front housing to expose the IR Beam Learn Button.
3. On the Base Station, press and hold (3 seconds) the IR Button corresponding to the IR number you wish to program. The corresponding green LED will flash indicating "Learn Mode". Learn Mode is only active for 60 seconds.
4. On each IR Beam (Rx & Tx), press and hold (3 seconds) the Learn Button. The green IR Beam Status LED will flash quickly indicating the IR beam has entered "Learn Mode". Learn Mode is only active for 60 seconds.
5. The green base station LED will turn solid followed by a double "beep" confirming that the IR beam set has been successfully learnt.
6. Replace the IR Beam front housing and re-install the M3 screw.

IR unlearn Procedure

1. On one IR Beam (Rx or Tx), press and hold (3 seconds) the Learn Button. The green IR Beam Status LED will flash quickly indicating the IR beam has entered "Learn Mode". Within 60 seconds, press and release the Learn Button again to exit Learn Mode. This will unlearn the IR Beam from the system.
2. Repeat the procedure on the other IR beam.

On the Base Station, the corresponding green LED will be off indicating no IR beams are paired with corresponding IR Beam channel on the Base Station.



TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Unplug the BBU connector and power down the opener.
2. Power the opener up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

TROUBLESHOOTING

NOTE: 2 pin standby connector must be connected to the Base Station for the Wireless Beams to function. If your opener does not have a 2-pin standby connector, then the Wireless Safety Beam System is not compatible with your motor model.

BASE STATION

Diagnostic		Symptom	Resolution	Notes
GREEN LED	Solid	-	IR Beams connected. All Ok	-
	Fast Flash	Quick Beep	Bluetooth connection lost	Replace batteries in IR Beams Beep will time out after 120s
	Steady Flash	-	IR Beam Learn Mode active	- Learn Mode active 60s
	-	Double Beep	IR Pairing Confirmation	-
	No LED	No Beep	The opener light flashes 10 times	Re-pair the IR beams to the Base Station
RED LED	Double Flash	Double Beep	Low Battery	Replace batteries in IR Beams Double flash & beep every 3s. Beep will time out after 120s.
	Steady Flash	-	IR Beams obstructed	Check obstruction or misalignment

IR BEAMS

Diagnostic		Symptom	Resolution	Notes	
GREEN LED	Steady Flash	-	IR Beam Learn Mode active	- Learn Mode active 60s	
	Double Flash	-	IR Beams connected. All Ok	- Double Flash every 5s	
RED LED	Steady Flash	-	IR Beams obstructed	Check for obstruction or misalignment	-

CHAMBERLAIN LIMITED WARRANTY

ONE YEAR WARRANTY

Chamberlain Australia Pty Limited / Chamberlain New Zealand (Chamberlain), the manufacturer of Merlin® garage door openers, warrants to the original consumer purchaser of this product that it is free from defect in materials and/ or workmanship for a period of one year from the date of purchase.

Chamberlain 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 re-fund for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to 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.

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