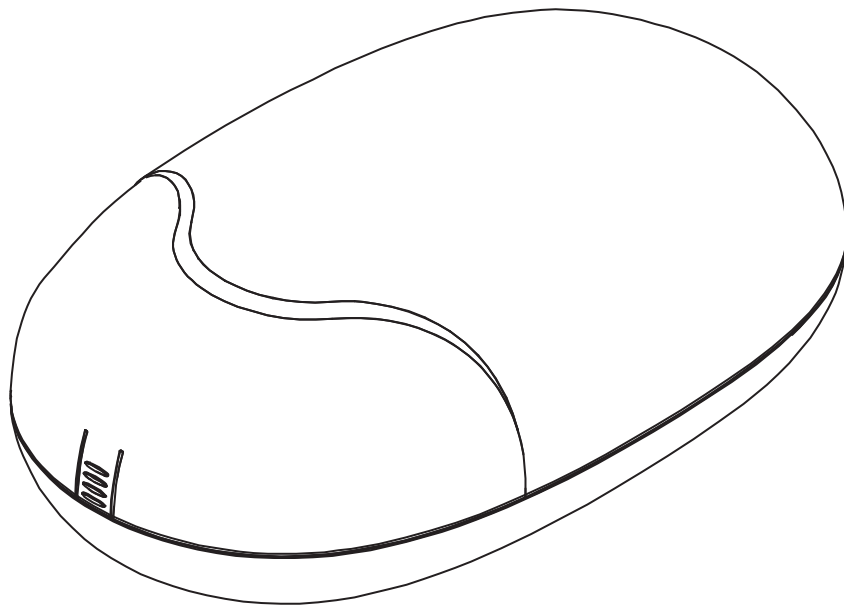


COBBLE SERIES

Garage Door Openers

Wi-Fi Version PS20063

USER MANUAL



Reuse
Reduce
Recycle



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1. WARNINGS

WARNING :

Please read this instruction manual carefully before the installation.

This manual is exclusively for qualified install ation personnel. TMT Automation Inc. is not responsible for improper installation and failure to comply with local electrical and building regulations.

Keep all the components of Cobble garage opener system and this manual for further consultation.

- In this manual, please pay extra attention to the contents marked by the symbol: 
- Be aware of the hazards that may exist in the procedures of installation and operation of the garage opener system. Besides, the installation must be carried out inconformity with local standards and regulations.
- If the system is correctly installed and used following all the standards and regulations, it will ensure a high degree of safety.
- Make sure that the door works properly before installing the garage opener system and confirm the doors are appropriate for the application.
- Do not let children operate or play with the garage opener system.
- Do not cross the path of the garage opener system when operating.
- Please keep all the control devices and any other pulse generator away from children to avoid the system being activated accidentally.
- Do not make any modifications to any components except that it is mentioned in this manual.
- Do not try to manually open or close the doors before you release the opener.
- If there is a failure that cannot be solved and is not mentioned in this manual, please contact qualified installation personnel.
- Do not use the garage opener system before all the procedures and instructions have been carried out and thoroughly read.
- Install warning signs (if necessary) on the both sides of the door to warn the people in the area of potential hazards.

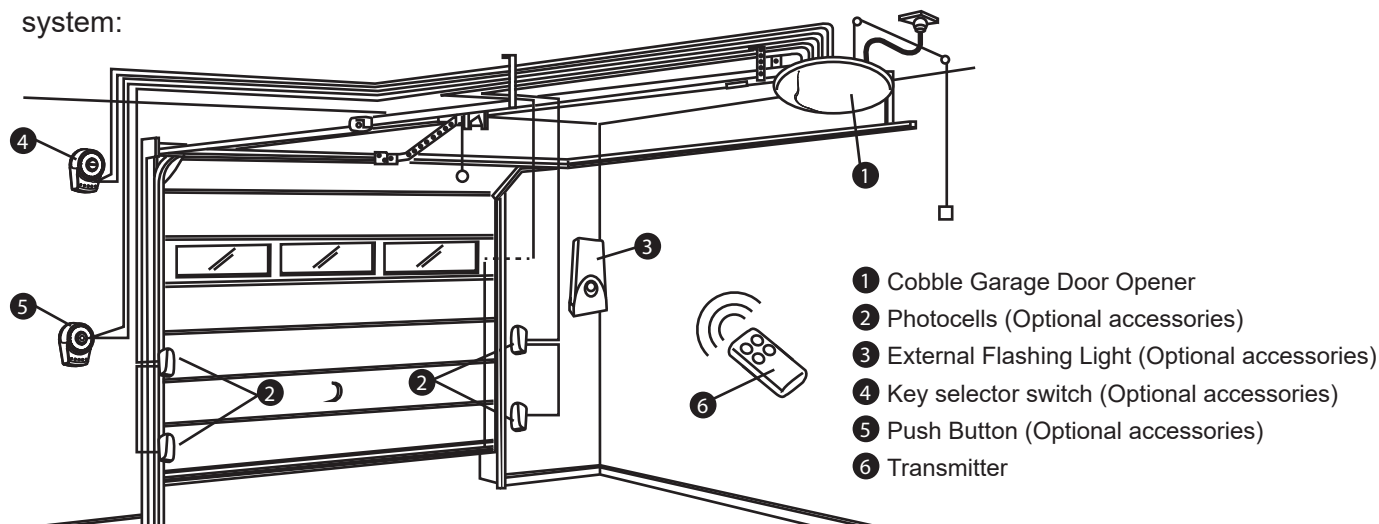
2. PRODUCT DESCRIPTION

2.1 APPLICATIONS

Cobble garage door opener is applied for residential automation of up and over doors and sectional doors and has to be operated with electricity and it's forbidden to be operated by back-up batteries for normal use. Back-up batteries are only allowed for emergent operation when there is a power failure, and the carriage can be released by pulling the cord to move the door manually.

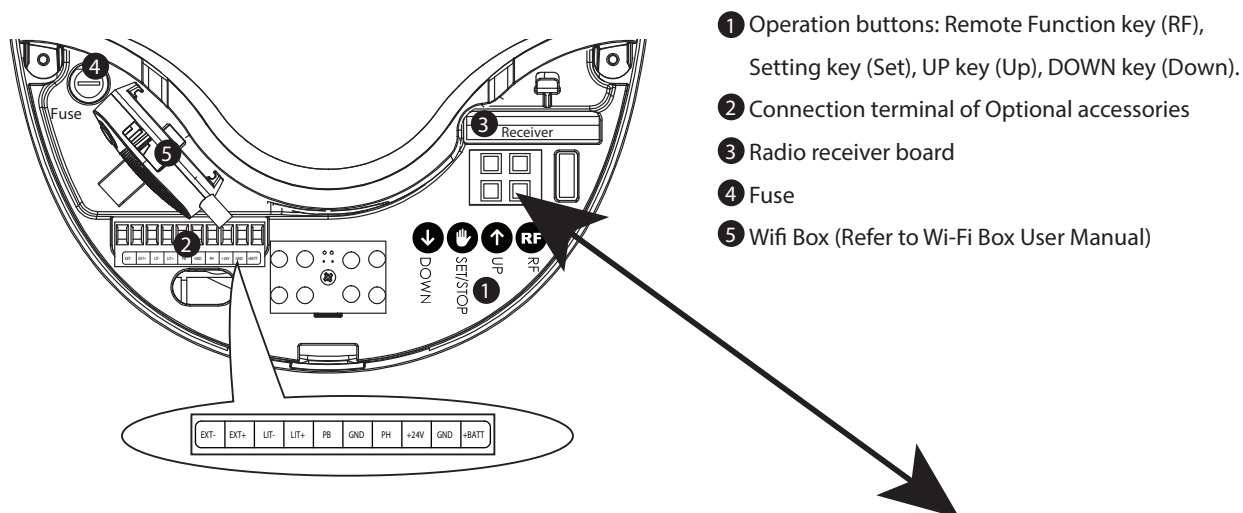
2.2 DESCRIPTION OF THE AUTOMATION

1). The following diagram of typical installation describes some terms and accessories of the door automation system:



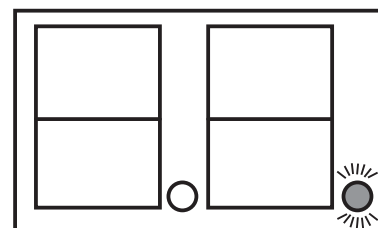
Please set stopper in the open limit position of the rack and after the setup is completed, then garage door opener can start the system learning process.

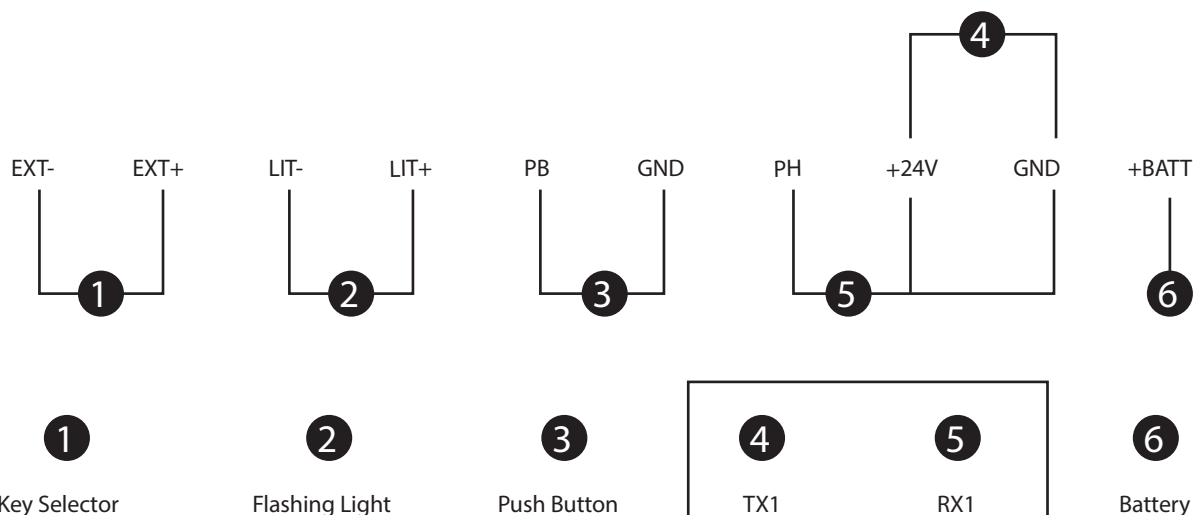
2). The indication of control panel



3). The LED indication

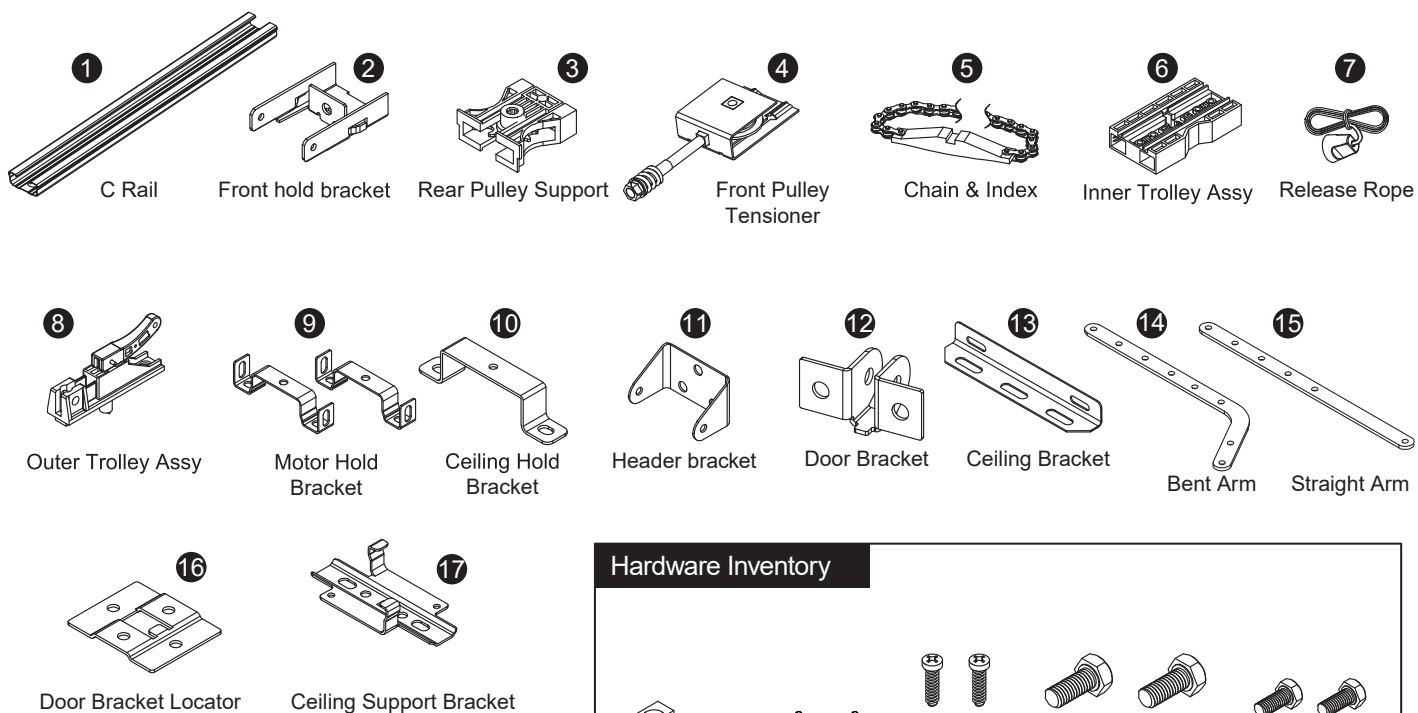
- 1 The power indicator is on the bottom right of the display. When the power is connected, the LED dot indicator is alight.
- 2 When entering to the power-saving mode, the LED power indicator is flashing (light for 0.5 second and then no light for 5 seconds)



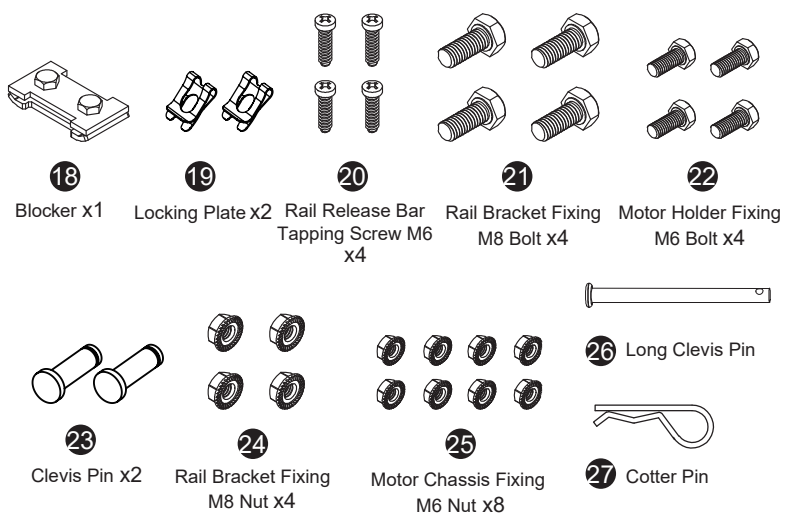


3. Installation

3.1 Inventory of a garage door opener

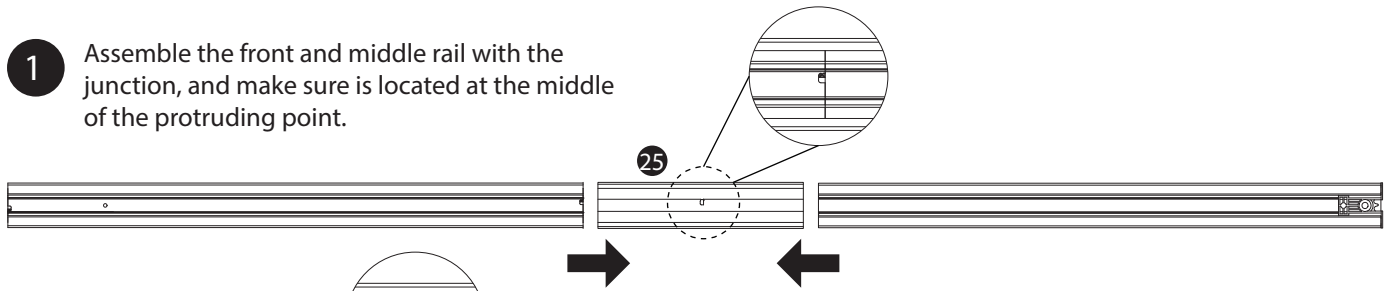


Hardware Inventory

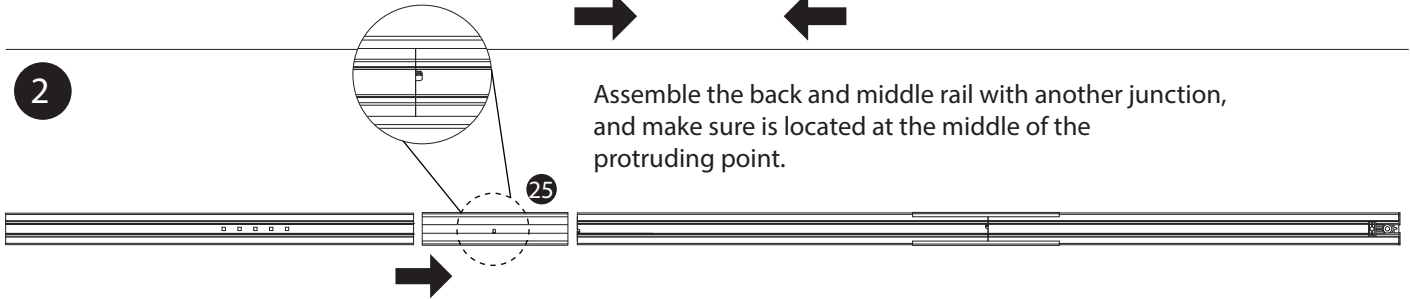


3.2 Rail assembly (Only for 3pcs rail ; 1 pcs rail is preassembled)

- 1 Assemble the front and middle rail with the junction, and make sure is located at the middle of the protruding point.



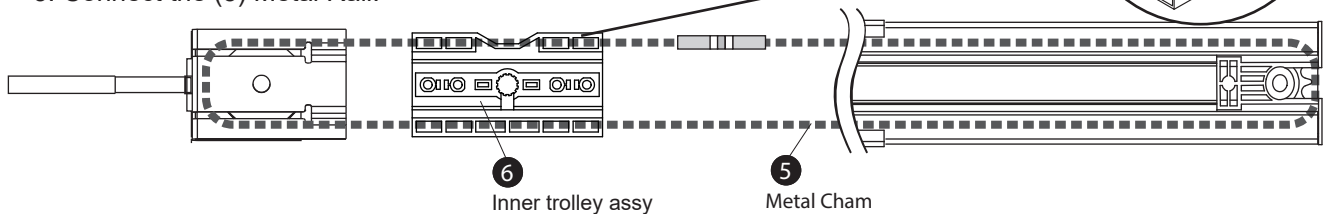
- 2 Assemble the back and middle rail with another junction, and make sure is located at the middle of the protruding point.



Complete

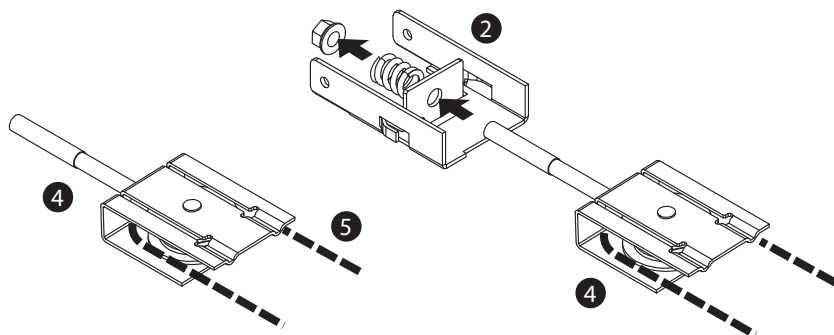


- 3
- Put the (6) inner trolley assy in the rail track, and put the (5) Metal Rail in the rail track. Make sure the metal mortise part is on right side of the rail.
 - Cross the (5) Metal Rail through the (4) front pulley tensioner, the (3) rear pulley support, and the (6) Inner trolley assy. The metal mortise part should be placed in the middle of the whole rail.
 - Connect the (5) Metal Rail.

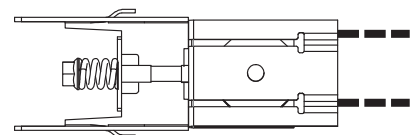


4

Remove the nut and the spring in the (4) Front pulley bracket. Make sure the metal chain is placed in the gap of the pulley on the two sides. Insert the (2) Front hold bracket against the rail. Use the spring and the nut to adjust the tightness of the (5) Metal chain.



Complete

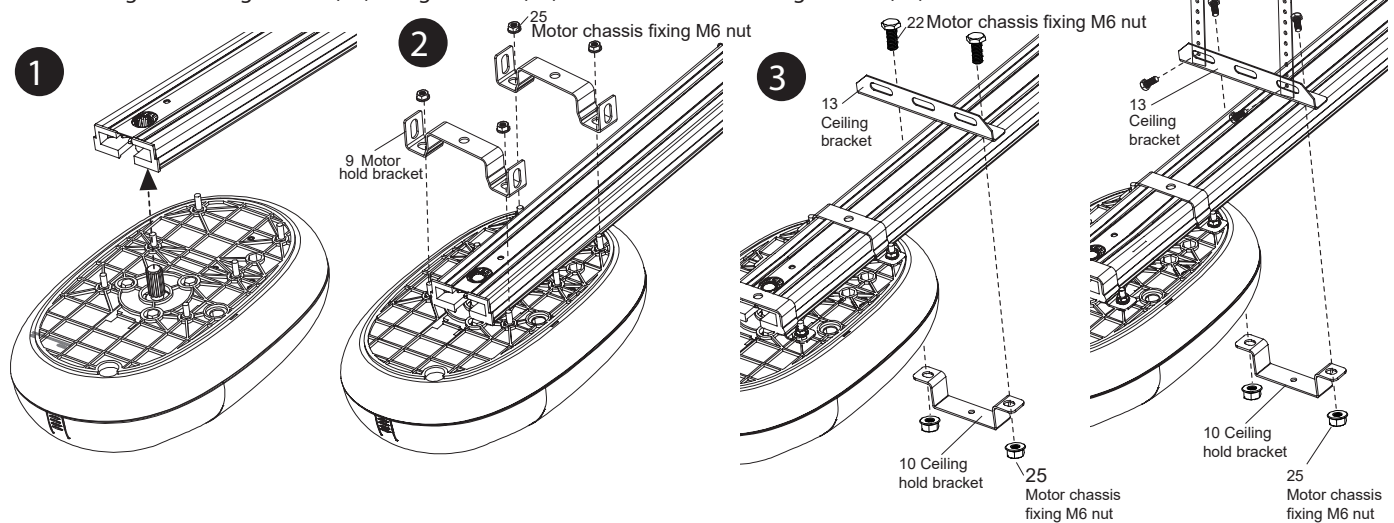


Complete



3.3 Attach the rail to the motor

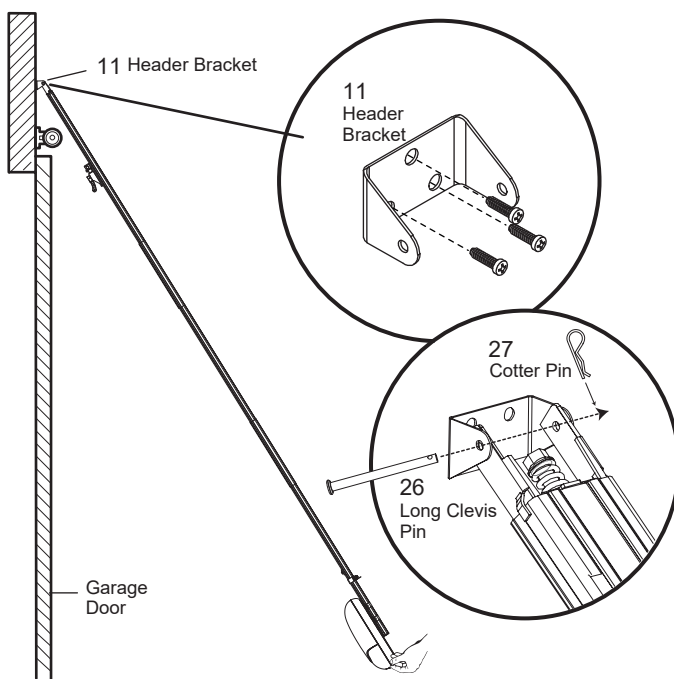
1. Connect the insertion gap of the (3) Rear pulley bracket to the output shaft of the motor.
 2. Fasten the rail on the motor with (9) motor hold bracket and motor chassis fixing M6 nut (25).
 3. Fasten the (10) Ceiling hold bracket and (13) Ceiling bracket at the rear side between the motor and the rear blocker with motor holder fixing M6 nut (22) and motor chassis fixing M6 nut (25).
- Remark: Optional choice is to use L-bracket to hold the brackets to the ceiling, and fasten to both the ceiling and ceiling bracket(13) using Hex bolt(20) and motor chassis fixing M6 nut (25).



3.4 Attach the rail on the header wall and ceiling

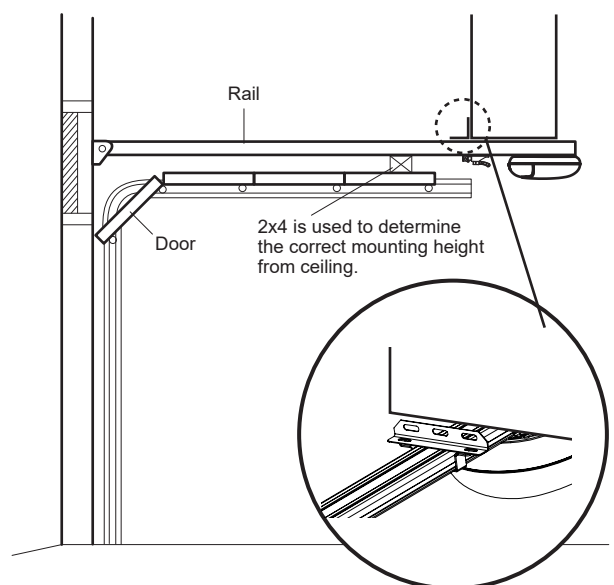
1. Position (11) Header bracket on the header wall.
*It is recommended that positioned at the center of the garage door.
*The installation height of the (11) Header bracket varies from 30-50cm from the top of the garage door.
2. Install the (11) Header bracket with screws.
3. Attach the front rail to header bracket with bolts.
4. Attach the (13) Ceiling bracket on the crossbeam of ceiling with crews.

Attach Rail to the Header Bracket



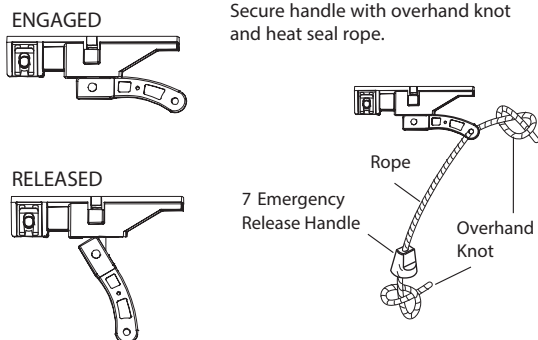
CAUTION

To prevent damage, place the garage door on the top section to create a temporary support.



3.5 Connect release section to the garage door

- 1** Connect the (7) Release rope on the (8) Release trolley



! WARNING

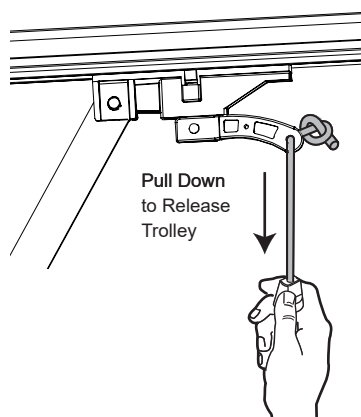
To prevent possible **SERIOUS INJURY** or **DEATH** from a falling garage door:

- If possible, use emergency release handle to disengage trolley **ONLY** when garage door is **CLOSED**. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- **NEVER** use emergency release handle unless garage doorway is clear of persons and obstructions.
- **NEVER** use handle to pull door open or closed. If rope knot becomes untied, you could fall.

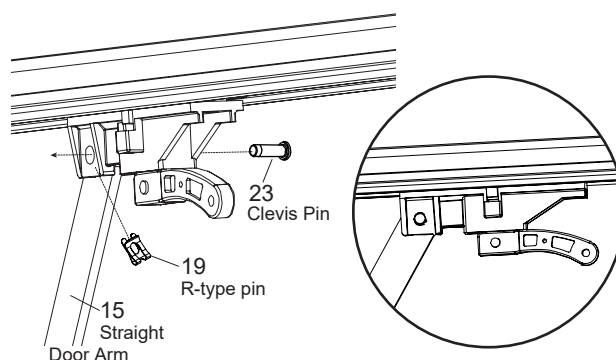
NOTE: Handle should hang 6 feet (1.5 m) above floor. Ensure that the rope and handle clear the tops of all vehicles to avoid entanglement.

CONNECT DOOR ARM TO TROLLEY

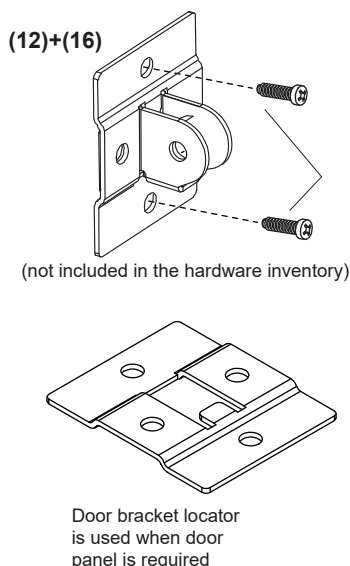
- 2** Pull the (7) Release rope to disengage the (8) Release trolley



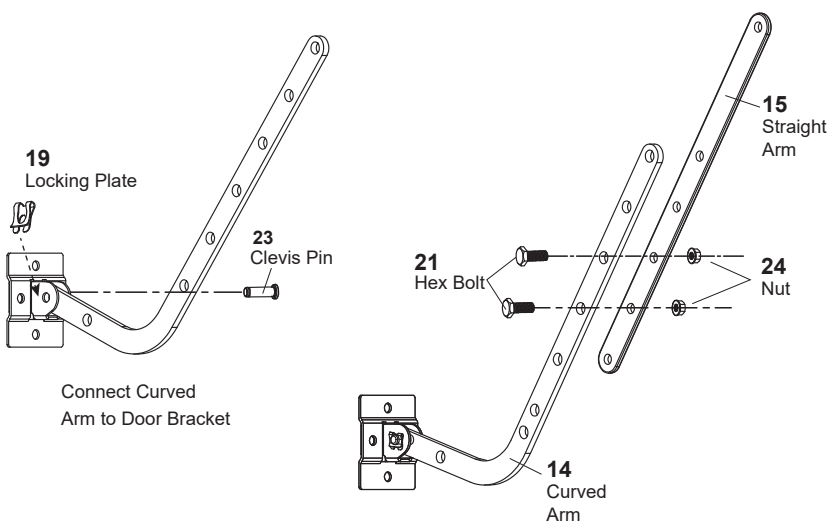
- 3** Connect (15) Straight door arm to Release trolley



- 4** Fasten the (12) Door bracket and (16) Door bracket locator on the center of the garage door. Connect (14) Bent arm to (12) Door bracket.

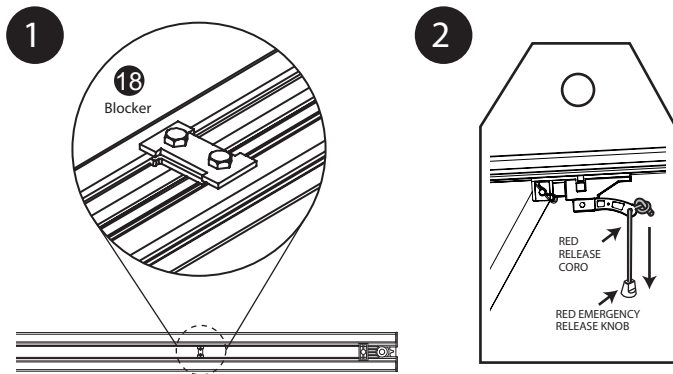


- 5** Connect (14) Bent arm and a straight arm with bolts and nuts.



3.6 Final steps before system learning

1. Install the blocker the (16) Blocker on the door opened position.
2. Attached the warning sign to the (7) release rope.
3. Connect the power to the motor. Make sure the electric plug and socket are well connected.

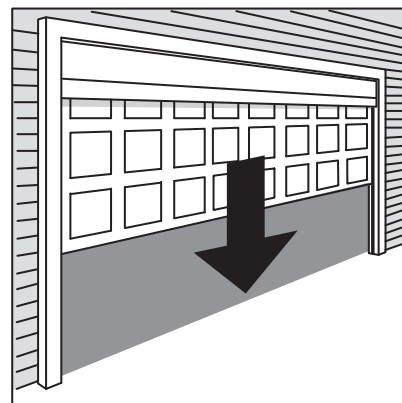
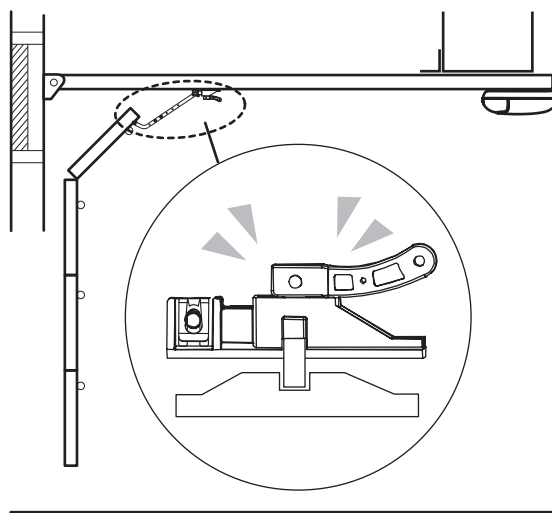
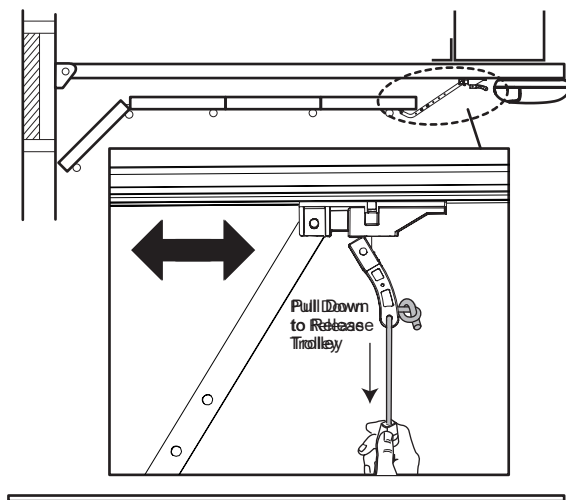


⚠ WARNING

- To prevent possible **SERIOUS INJURY** or **DEATH** from electrocution or fire:
- Be sure power is not connected to the opener, and disconnect power to circuit **BEFORE** removing cover to establish permanent wiring connection.
 - Garage door installation and wiring **MUST** be in compliance with all local electrical and building codes.
 - **NEVER** use an extension cord, 2-wire adapter, or change plug in **ANY** way to make it fit outlet. Be sure the opener is grounded.

3.7 Introduction of the emergency release

1. Pull the (7) Emergency release rope to release the trolley. Make sure the trolley is disengaged. The garage door can be operated manually.
2. Before restarting the motor, manually move the garage door until the trolley is engaged.



4. Connection

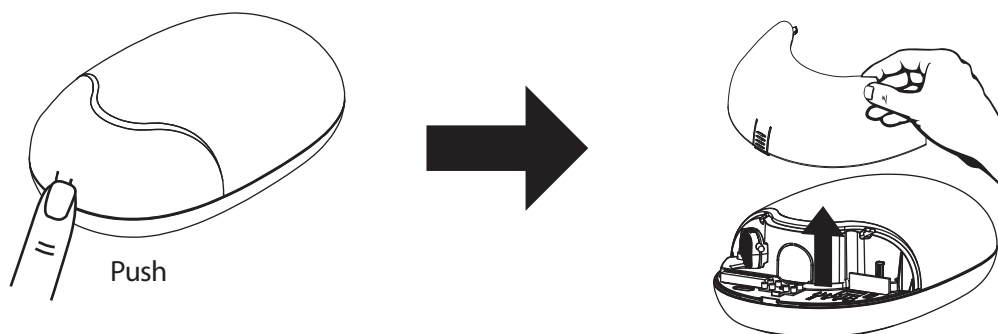
4.1 Accessories connection



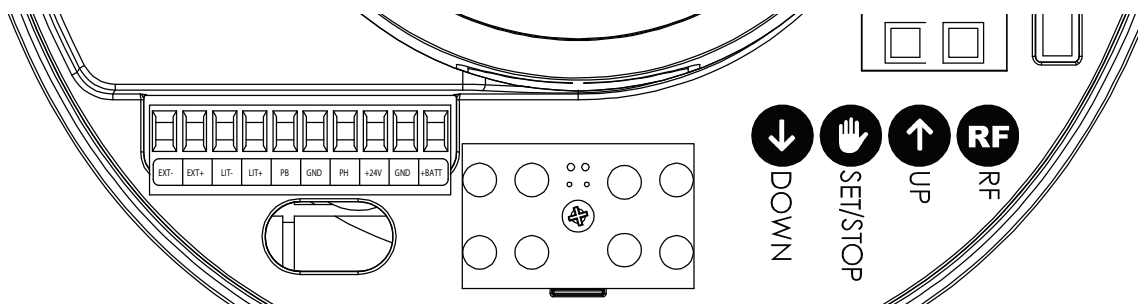
Only carry out electrical connections once the electricity supply to the system has been switched off.

Disconnect any

A. Open the cover in order to access the electronic connection terminal of the PG Series garage gate opener.



B. Connect the wires of each accessory on the terminal. (If necessary)



4.2 Door position for start-up phase

The manufacturers recommend you unhook the carriage and position the leaf at approximately half travel before starting the checking and start-up phase of the automation. This will ensure the leaf is free to move both during opening and closure.

Power supply connection

Connect the plug. If necessary, use a commercial adaptor if the plug on the PG Series unit does not correspond to the socket available. As soon as the system is powered, you should check the LED in the display. Make sure the LED display is ON.

Never cut or remove the cable supplied with PG Series garage opener. If not already available, the power socket of PG Series garage opener connection must be fitted by skilled and qualified personnel in strict observance of current legislation, standards and regulations.

The power supply line must be protected from short circuits and ground leakage.

4.3 Transmitter memorizing and erasing process

A. Transmitter Memorizing:

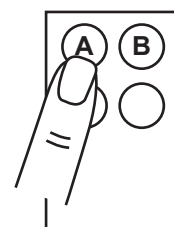
Press "RF Learn" button for 3 seconds, and the Display will show "CS"; then press the transmitter A button within 10 seconds; the "CS" will blink three times and show "CS". After 10 seconds without any movement, "CS" will be off. The transmitter learning is completed.

B. Erasing Transmitter Memory:

Press and hold "RF Learn" button for 10 seconds, the display will show "CS". When "CC" shows up, the memory is cleared.

C. Memorizing by memorized transmitter:

Press and hold A and B button for 5 seconds, LED light and external flash light will start to blink in the same time. Within 10 seconds, press any button of the un-memorized transmitter 2 seconds, the transmitter will be memorized after LED light and external flash light are off. To program by memorized transmitter, just can do the transmitter learning one by one.



4.4 System learning, reset process, and LED display

A. System Learning:

Step1: Press and hold "RF" and "SET" buttons 3 seconds, the LED display shows "OL" and the motor enters system learning program.

Step2: Set up open limit and LED display shows "OL". Press and hold "UP" or "DOWN" button to raise or descend the door. When the door moves to the proper open position, press "SET" button.

Step3: Set up close limit and LED display shows "CL". Press and hold "UP" or "DOWN" button to raise or descend the door. When the door moves to the proper close position, press "SET" button.

Step4: The LED display blinks "GE" continuously. Press "SET" or "A" button of the transmitter to proceed operation testing.

The LED display shows the operation current value in the process and memorizes overcurrent value.

Step5: The motor opens and closes automatically with full speed. The LED display shows "SO" while the system learning completes.

The LED display shows "SF" while the system learning fails. The LED display will be off after 10 seconds.

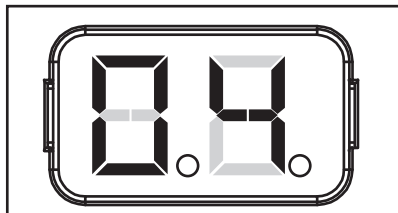
Note: The overcurrent function and flashing light function will be activated automatically after learning process complete.

B. Restore Default Setting:

Press "RF" and "DOWN" buttons for 3 seconds, and the LED display shows "CL" to recover the default settings.

C. Motor current auto-detection

The LED display shows the current consumption of the motor



During the system learning procedure, the control panel will automatically detect the current consumption from each motor, indicate the resistance level of the gate whiling the motor operation. If this reading increase instantly or stay in high reading, please check if any object in between of the gate moving area, and contact your installer for inspection.

4.5 Programmable function indication led

LED Display	Programmable Functions	LED Display	Programmable Functions
	Start transmitter learning mode.		Operation testing
	Cleaned all studied transmitter.		System Learning Fail.
	Set up Open Limit.		System Learning Completely.
	Set up Close Limit.		System setting clear

4.6 How to set the parameter:

Step 1: Press the "Set" key for 3 seconds, the display will show the function code.

Step 2: Choosing the setting by Up and Down keys, after having chosen the indicated item, press the Set key and enter the setting of this function. The second digit will be shown on the right of the display, indicating the related function (please refer below chart for details). Using the Up and the Down Keys to choose the setting function and press the Set key to save.

4.7 Programmable function setting

LED Display	Definition	Function	Value	Description
1	Deceleration Point (% full operation)	11	75%	1.The default setting is "13" 2. The door will reverse 2cm if overcurrent occur in last 10% distance.
		12	80%	
		13	85%	
		14	90%	
		15	95%	
2	Main Operation Key	20	Function off	1.The default setting is "21"
		21	A Key	
		22	B Key	
		23	C Key	
		24	D Key	
3	Lighting Key	30	Function off	1.The default setting is "32"
		31	A Key	
		32	B Key	
		33	C Key	
		34	D Key	
4	External Device Key	40	Function off	1.The default setting is "40"
		41	A Key	
		42	B Key	
		43	C Key	
		44	D Key	
5	Safety Bean Function Mode	50	Function off	1.The default setting is "50 " 2.Logic Mode refer to page 12-13
		51	Logic mode 1	
		52	Logic mode 2	
		53	Logic mode 3	
		54	Logic mode 4	
6	Alarm Buzzer	61	Function off	1.The default setting is "61" 2. IF the door left opened for longer than 10mins then buzzer start beeping and turn off until the door been closed.
		62	Function on	
7	Auto-closing	71	Function off	1.The default setting is "71"
		72	30 sec	
		73	60 sec	
		74	90 sec	
		75	120 sec	
		76	150 sec	
		77	180 sec	
		78	210 sec	
		79	240 sec	
8	Lighting	81	Function off	1.The default setting is "84"
		82	LED light starts running 1 minute	
		83	LED light starts running 2 minutes	
		84	LED light starts running 3 minutes	
9	Overcurrent reaction	91	Stop when overcurrent occur	1.The default setting is "92"
		92	Opening phase: Stop when overcurrent Closing phase: Reverse 10 cm when overcurrent	
		93	Reverse to the end when overcurrent.	
A	Overcurrent setting	10	Learning current add 0.2A as overcurrent	1. The default setting is "30"
		20	Learning current add 0.4A as overcurrent	
		30	Learning current add 0.5A as overcurrent	
		40	Learning current add 0.6A as overcurrent	
		50	Learning current add 0.8A as overcurrent	
		60	Learning current add 1.0A as overcurrent	
		70	Learning current add 1.2A as overcurrent	
		80	Learning current add 1.4A as overcurrent	
		90	Learning current add 1.6A as overcurrent	
		99	Learning current add 1.8A as overcurrent	

LED Display	Definition	Function	Value	Description
C	Overcurrent setting of open limit	C1	2A as overcurrent value of open limit	1. The default setting is "C6"
		C2	3A as overcurrent value of open limit	
		C3	4A as overcurrent value of open limit	
		C4	5A as overcurrent value of open limit	
		C5	6A as overcurrent value of open limit	
		C6	7A as overcurrent value of open limit	
		C7	8A as overcurrent value of open limit	
E	Overcurrent setting of close limit	E1	2A as overcurrent value of close limit	1. The default setting is "E6"
		E2	3A as overcurrent value of close limit	
		E3	4A as overcurrent value of close limit	
		E4	5A as overcurrent value of close limit	
		E5	6A as overcurrent value of close limit	
		E6	7A as overcurrent value of close limit	
		E7	8A as overcurrent value of close limit	
F	Power supply for +24V terminal	F1	Continuously power supply	1. The default setting is "F1"
		F2	Sleep mode	2. Sleep mode: Power supply only when motor is operating
H	Condominium Mode Key	H0	Function OFF	1. The default setting is "H0" 2. Motor moving logic Open-Open-Open-Open
		H1	A Key	
		H2	B Key	
		H3	C Key	
		H4	D Key	
J	PB Terminal Function Mode	J1	PB (Open-Stop-Close-Stop)	1. The default setting is "J1"
		J2	Open Only (Open-Open-Open-Open)	

5. Safety Bean Function Mode

51 Logic Mode 1

Door Status	Door react when photocells are triggered
Door Closed	Door no effect, Photocell remain inactive mode
Door Opened	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Stop During Moving	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Closing	Door stops, and wait for the next commend
Door Opening	Door stops, and wait for the next commend

52 Logic Mode 2

Door Status	Door react when photocells are triggered
Door Closed	Door no effect, Photocells remain inactive mode
Door Opened	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Stop During Moving	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Closing	Door stops, and wait for the next commend
Door Opening	No effect

53 Logic Mode 3

Door Status	Door react when photocells are triggered
Door Closed	Door no effect, Photocells remain inactive mode
Door Opened	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Stop During Moving	Door stops and holds, IF auto-closing function is ON, will reload the auto-closing time countdown
Door Closing	Door stops, and open to fully-open position
Door Opening	No effect

54 Logic Mode 4

Door Status	Door react when photocells are triggered
Door Closed	Door no effect, Photocell remain inactive mode
Door Opened	Door stops and holds, IF auto-closing function is on, will reload the auto-closing time countdown
Door Stop During Moving	Door stops and holds, IF auto-closing function is on, will reload the auto-closing time countdown
Door Closing	Door stops, and open for 3 seconds
Door Opening	No effect

6. Specification

Garage Door Opener	Cobble 80	Cobble 100	Cobble 120
Volt	AC 220V / 110V ; 50Hz~60Hz	AC 220V / 110V ; 50Hz~60Hz	AC 220V / 110V ; 50Hz~60Hz
Motor volt	DC24V	DC24V	DC24V
Power	80W	100W	144W
Force	800N	1000N	1200N
Remote frequency	433.92MHZ	433.92MHZ	433.92MHZ
Max door area	10-12m ²	12-14m ²	14-16m ²
Temperature range	-20°C ~ +50°C	-20°C ~ +50°C	-20°C ~ +50°C
Rail length	3.0m/3.3m	3.0m/3.3m	3.0m/3.3m
Running speed	140mm/sec	140mm/sec	140mm/sec



