When setting the limits and the door only moves 100mm at a time / continue to set bottom and top position and then when set the motor will override its self usually power up properly and set.

If it doesn't then increase all the force settings manually and try again.

If this all fails then the circuit is an old version and needs updating.

COBBLE SERIES

Garage Door Openers

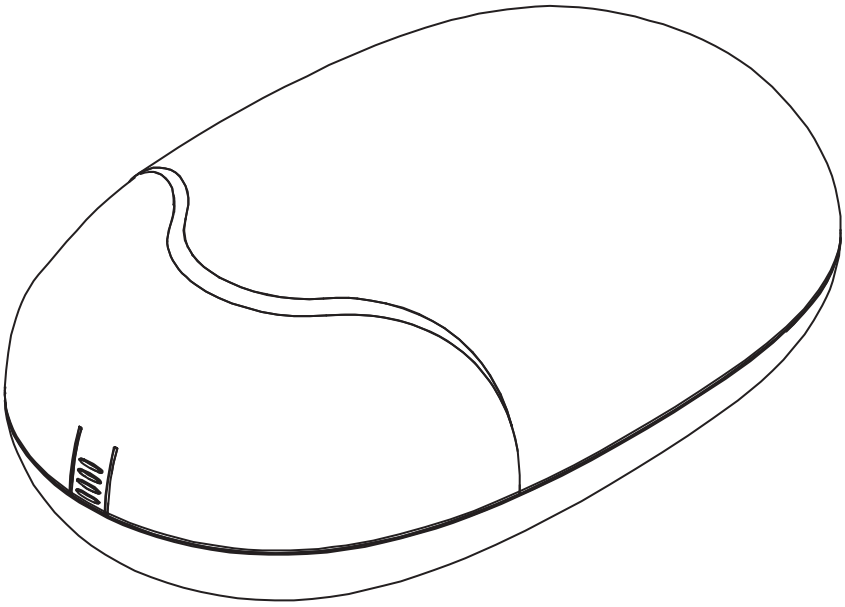
Set up is on page 9

Remotes Programming Page 8

USES CENTSYS REMOTES

You have to set the motor up to use what button on the remote you want it to work on Page 10

USER MANUAL



INDEX

1. WARNINGS

WARNING :

Please read this instruction manual carefully before the installation.
This manual is exclusively for qualified installation 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 in conformity 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 those that are 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 both sides of the door to warn the people in the area of potential hazards.

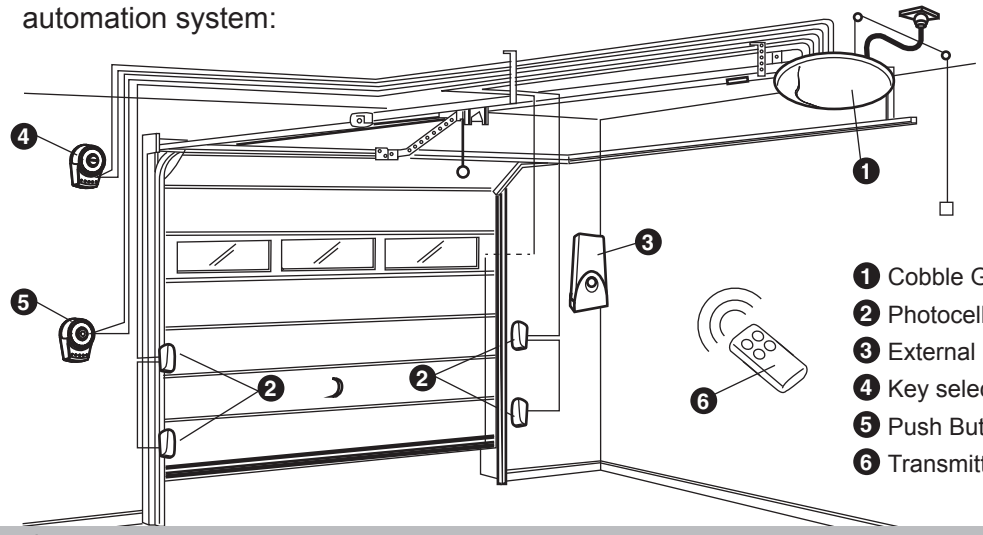
2. PRODUCT DESCRIPTION

A APPLICATIONS

Cobble garage door opener is applicable 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 emergency operation when there is a power failure, and the carriage can be released by pulling the cord to move the door manually.

B DESCRIPTION OF THE AUTOMATION

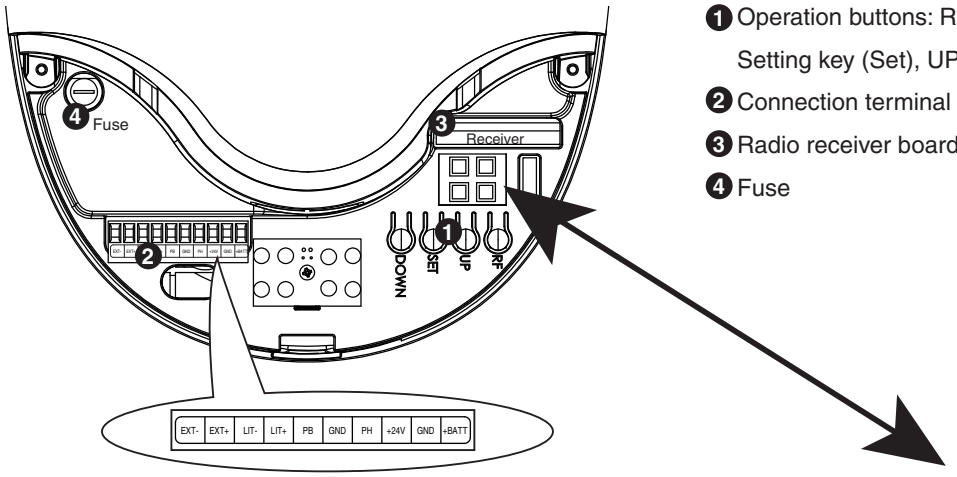
1). The following diagram of a typical installation describes some terms and accessories of the door automation system:



1. Cobble Garage Door Opener
2. Photocells (Optional accessories)
3. External Flashing Light (Optional accessories)
4. Key selector switch (Optional accessories)
5. Push Button (Optional accessories)
6. Transmitter

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

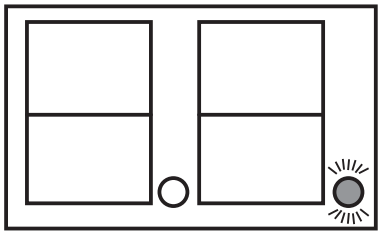
2). The indication of control panel

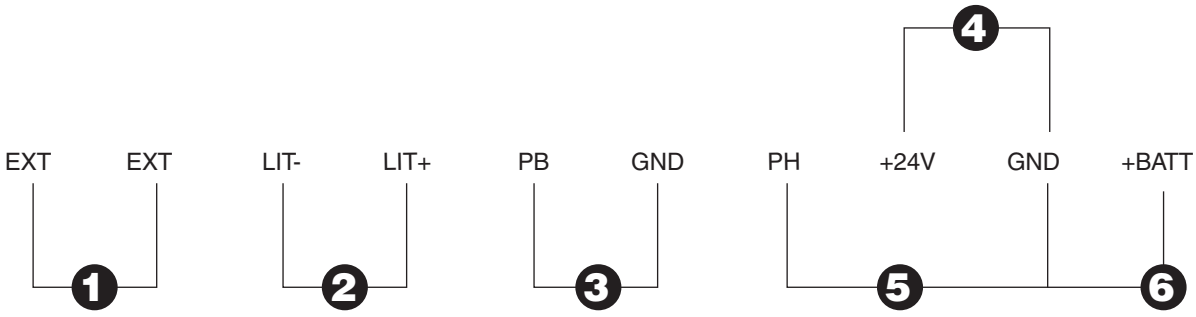


1. Operation buttons: Remote Function key (RF), Setting key (Set), UP key (Up), DOWN key (Down).
2. Connection terminal of Optional accessories
3. Radio receiver board
4. Fuse

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 lit up.
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)

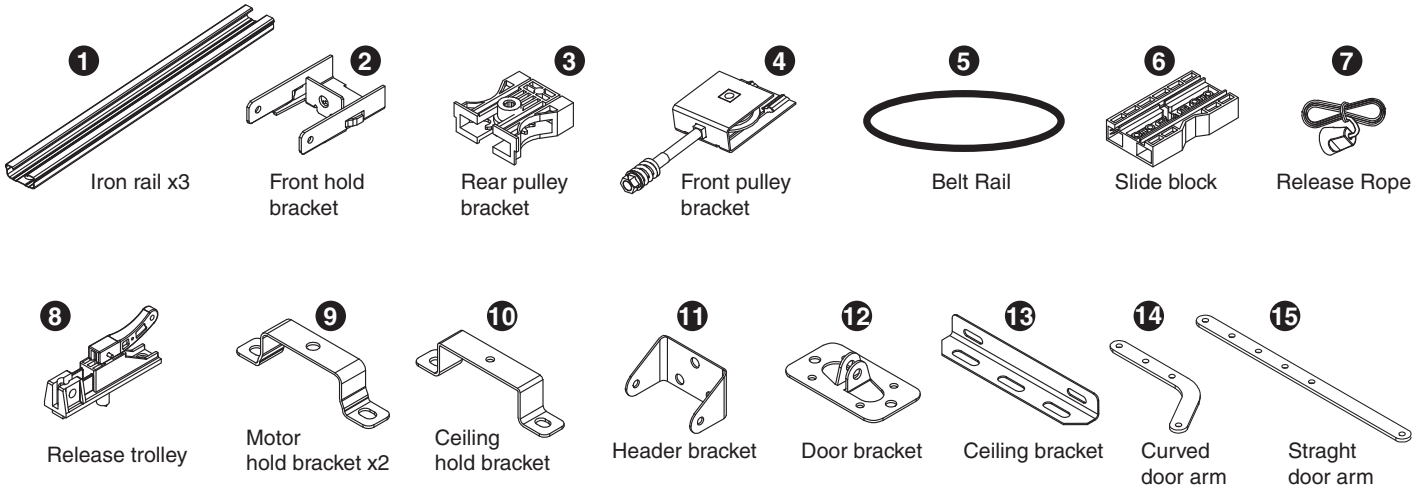




1. Auxiliary N/O Relay Output - button 3 by default
2. Flashing Light
3. Push Button / OSC External Receiver N/O & COM
4. Photo beam/ Ext receiver Power
5. Photo beam Circuit N/C
6. Optional 24V Battery Backup

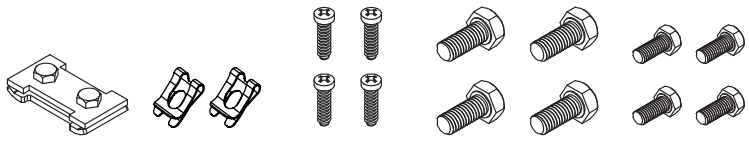
3. INSTALLATION

A INVENTORY OF A GARAGE DOOR OPENER

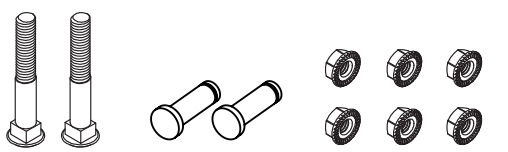


1. Iron rail x3
2. Front hold bracket
3. Rear pulley bracket
4. Front pulley bracket
5. Belt Rail
6. Slide block
7. Release Rope
8. Release trolley
9. Motor hold bracket x2
10. Ceiling hold bracket
11. Header bracket
12. Door bracket
13. Ceiling bracket
14. Curved door arm
15. Straght door arm

Hardware Inventory

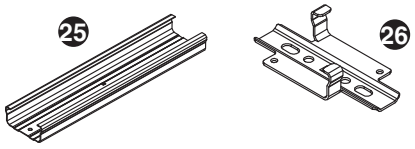


16. Blocker x1
17. R-type pin x2
18. Self-tapping screws x4
19. M8*20 HEX bolt x4
20. M6*14 HEX bolt x4



21. Metric bolt x2
22. Clevis Pin x2
23. M8*8 Nut x6
24. M6*6 Nut x8

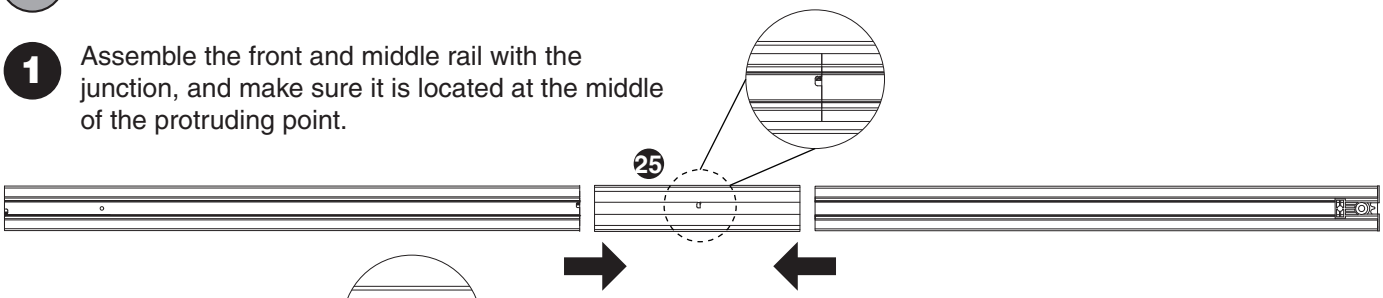
Optional for 1pcs x 1M Rail



25. Junction x2
26. Ceiling support bracket

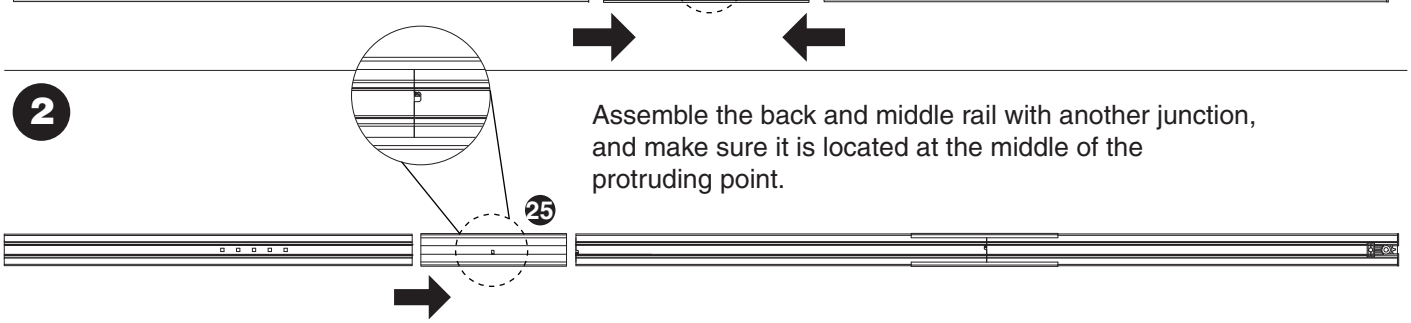
B RAIL ASSEMBLY

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



2

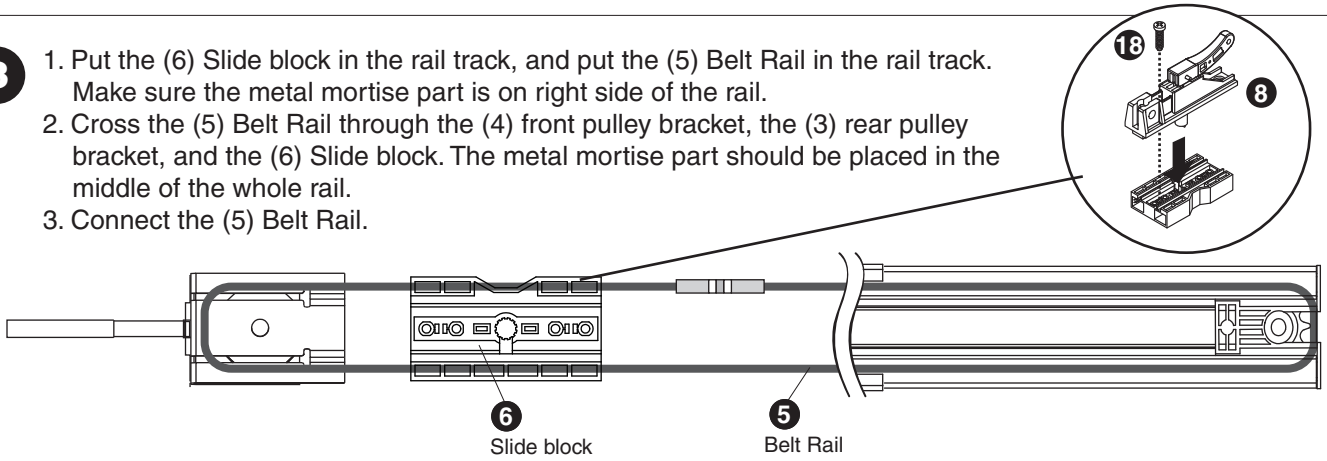
Assemble the back and middle rail with another junction, and make sure it is located at the middle of the protruding point.



Complete

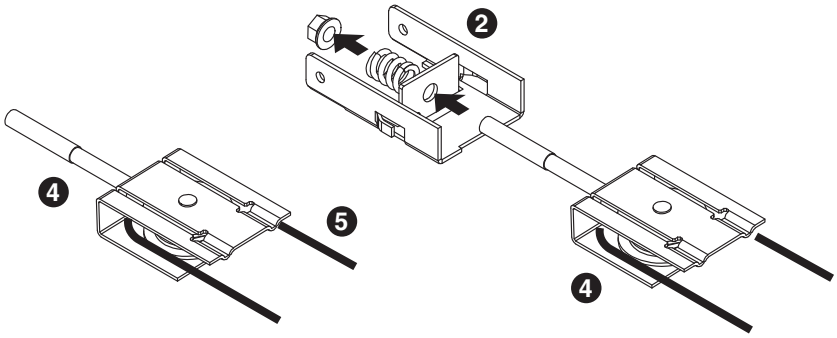
3

1. Put the (6) Slide block in the rail track, and put the (5) Belt Rail in the rail track. Make sure the metal mortise part is on right side of the rail.
2. Cross the (5) Belt Rail through the (4) front pulley bracket, the (3) rear pulley bracket, and the (6) Slide block. The metal mortise part should be placed in the middle of the whole rail.
3. Connect the (5) Belt Rail.

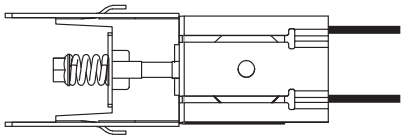


4

Remove the nut and the spring in the (4) Front pulley bracket. Make sure the Belt Rail 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) Belt Rail.



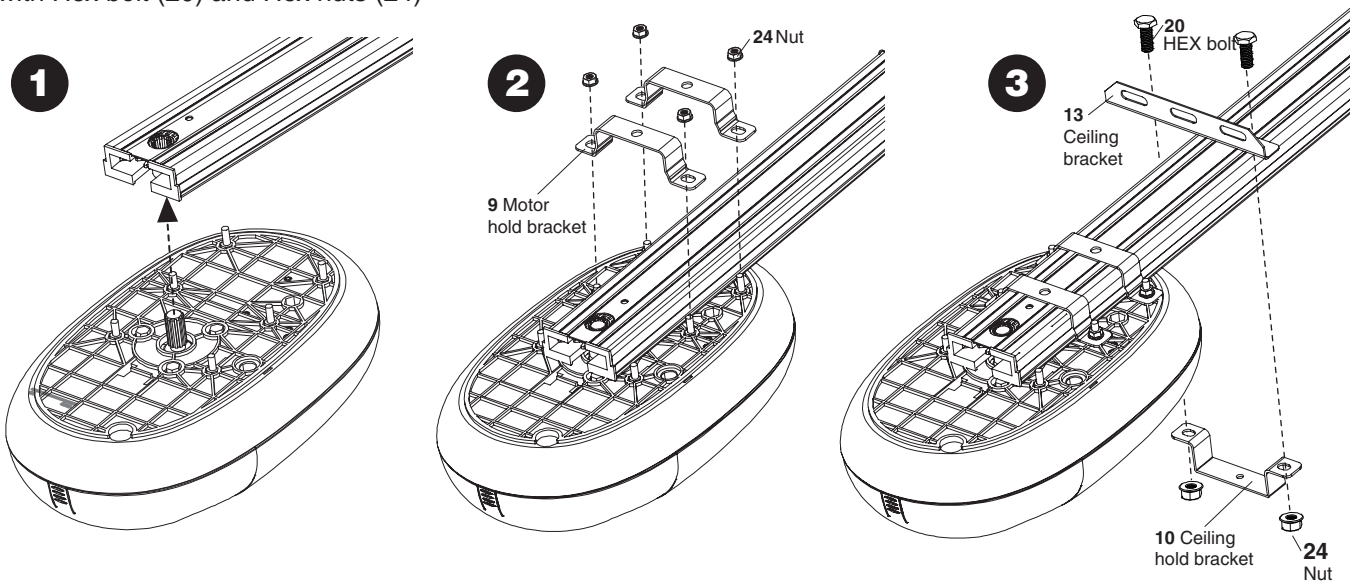
Complete



Complete

C ATTACH THE RAIL TO THE MOTOR

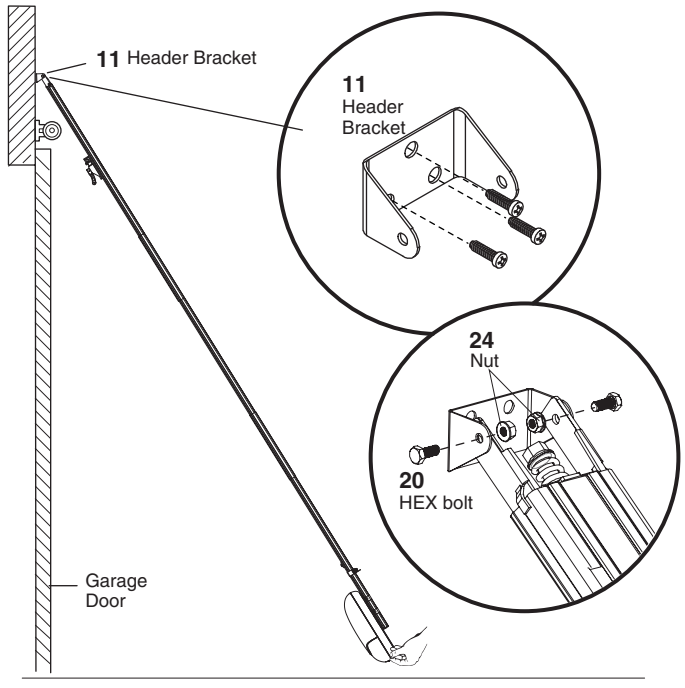
1. Connect the insertion gap of the (3) Rear pulley bracket to the output shaft of the motor.
2. Fasten the rail on the motor with (9) motor hold bracket and the Hex nuts (24).
3. Fasten the (10) Ceiling hold bracket and (13) Ceiling bracket at the rear side between the motor and the rear blocker with Hex bolt (20) and Hex nuts (24)



D ATTACH THE RAIL ON THE HEADER WALL AND CEILING

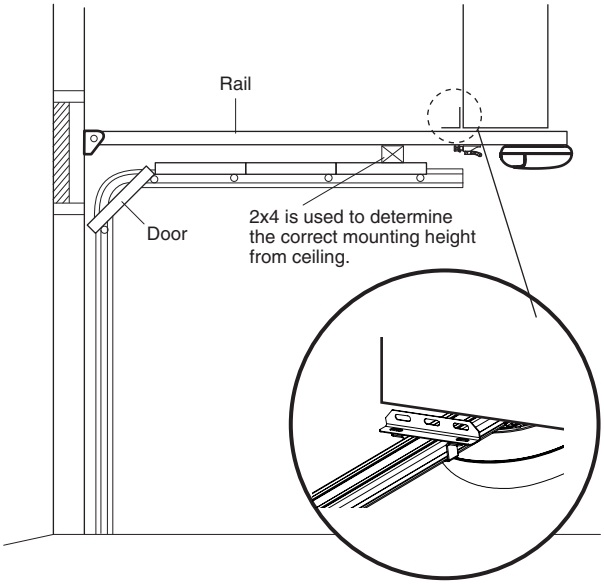
1. Position (11) Header bracket on the header wall.
   *It is recommended that positioned at the center of the garage door.
   *The installation height of the (11) Header bracket varies from 30-50cm from the top of the garage door.
2. Install the (11) Header bracket with screws.
3. Attach the front rail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

Attach Rail to the Header Bracket



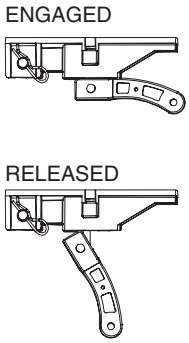
CAUTION

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

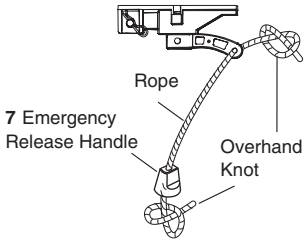


E CONNECT RELEASE SECTION TO THE GARAGE DOOR

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



Secure handle with overhand knot and heat seal rope.



⚠ WARNING

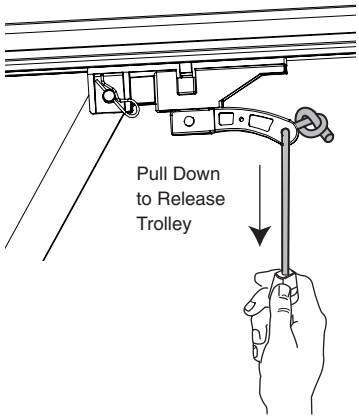
To prevent possible SERIOUS INJURY or DEATH from a falling garage door:

- If possible, use emergency release handle to disengage trolley ONLY when garage door is CLOSED. Weak or broken springs or an 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.

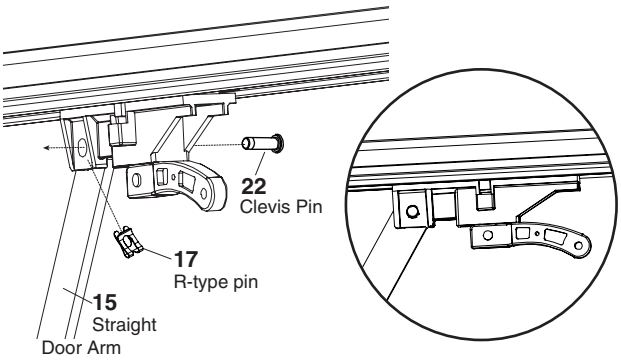
NOTE: *Handle should hang 6 feet (1.5 m) above floor. Ensure that the rope and handle clear the tops of all vehicles to avoid entanglement.*

CONNECT DOOR ARM TO TROLLEY

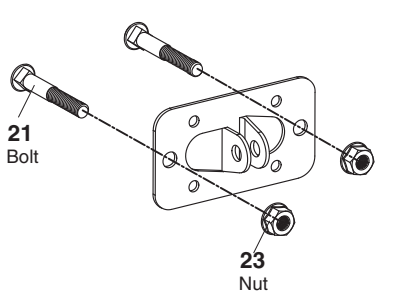
2 **Pull the (7) Release rope to disengage the (8) Release trolley**

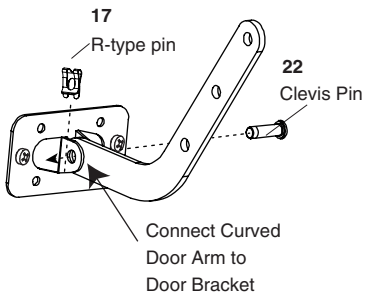


3 **Connect (15) Straight door arm to Release trolley**

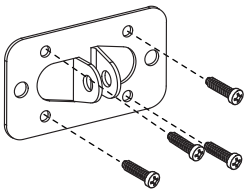


4 **Fasten the (12) Door bracket on the center of the garage door. Connect (14) Curved door arm to (12) Door bracket.**

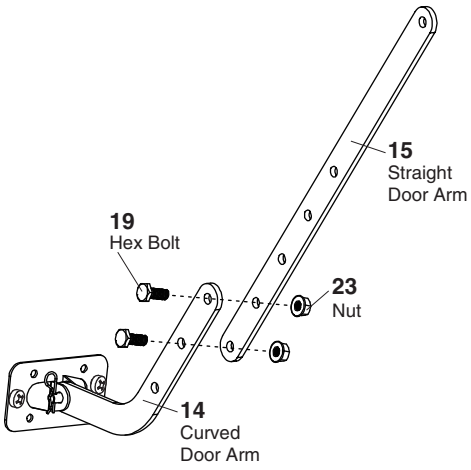




OR



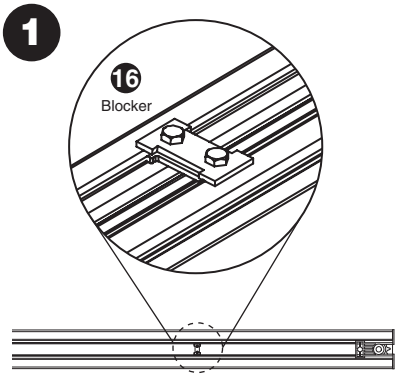
5 **Connect (14) Curved door arm and a straight door arm with bolts and nuts.**



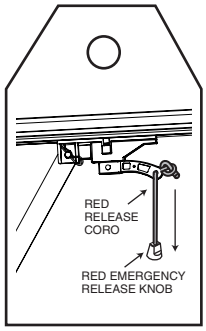
F FINAL STEPS BEFORE SYSTEM LEARNING

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.

1



2



3

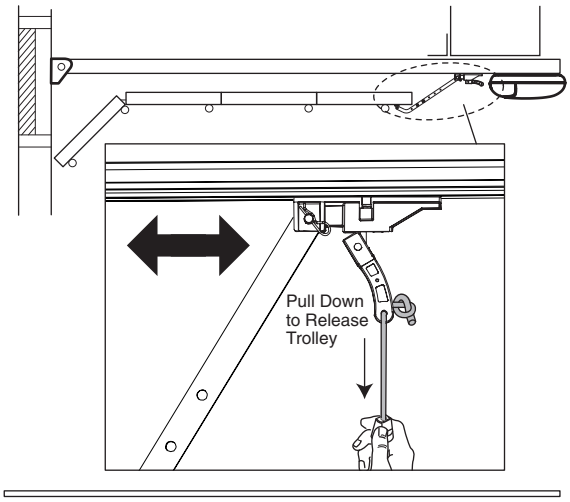
⚠ WARNING

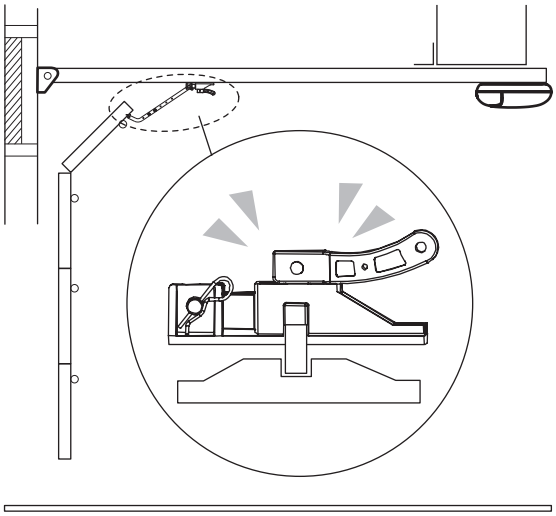
To prevent possible SERIOUS INJURY or DEATH from electrocution or fire:

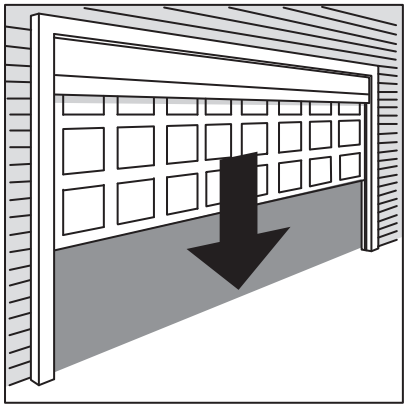
- Be sure power is not connected to the opener, and disconnect power to circuit BEFORE removing cover to establish permanent wiring connection.
- Garage door installation and wiring MUST be in compliance with all local electrical and building codes.
- NEVER use an extension cord, 2-wire adapter, or change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

G 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.







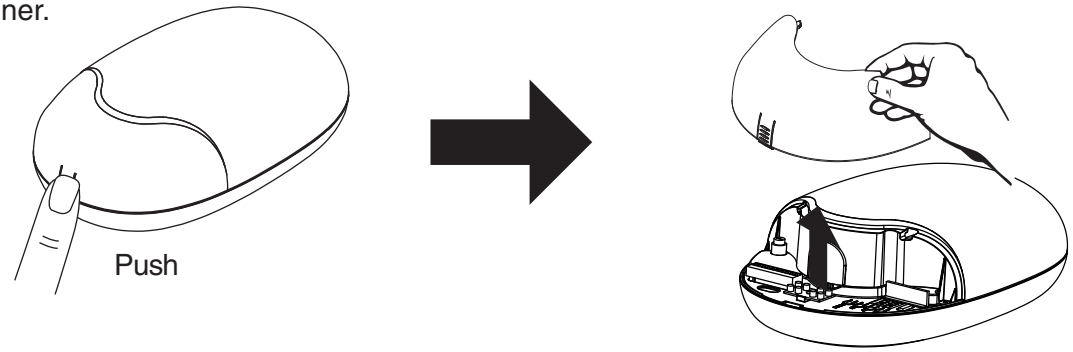
4. CONNECTION

A ACCESSORIES CONNECTION

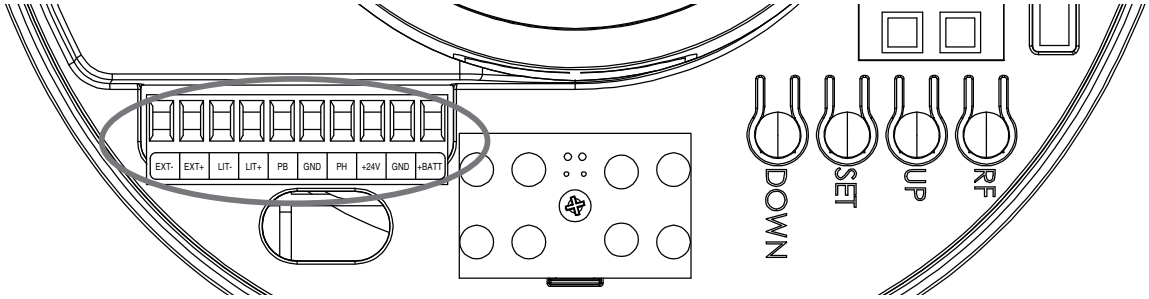
Only carry out electrical connections once the electricity supply to the system has been switched off.

Disconnect any power connected to the cobble

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



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



B 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

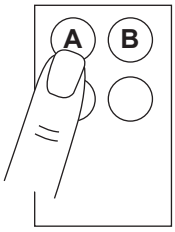
Connect the plug.If necessary, use a commercial adaptor if the plug on the COBBLE Series unit does not correspond to the socket available.As soon as the system is powered, you should check the LED in the display. Make sure the LED display is ON.

Never cut or remove the cable supplied with COBBLE Series garage opener. If not already available, the power socket of the COBBLE 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.

C TRANSMITTER MEMORIZING AND ERASING PROCESS

Remotes Programming



A. Transmitter Memorizing:

Press “RF Learn” button for 3 seconds, and the Display will show “CS”; then press the transmitterA 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 at the same time. Within 10 seconds, press any button of the un-memorized transmitter for 2 seconds, the transmitter will be memorized after LED light and external flash light are off. To program by memorized transmitter, just do the transmitter learning one by one.

D SYSTEM LEARNING, RESET PROCESS, AND LED DISPLAY

Setting the Travel Limits

A. System Learning:

Step 1: Press and hold "RF" and "SET" buttons 3 seconds, the LED display shows "OL" and the motor enters system learning program.

Step 2: To set the open limit. The LED displays "OL". Press and hold the "UP" button to raise the door. When the door has moved to the required open position, press the "SET" button.

Step3: To set the close limit, the LED display will now show "CL". Press and hold the "DOWN" button to lower the door. When the door has moved to the required close position, press the "SET" button.

Step4: The LED display will now blink "GE" continuously. Press "SET" to proceed and the LED display shows the operation current value in the process and memorizes the over current value.

Step5: The motor will now proceed to test the limits and will open and close automatically in full speed. The LED display shows "SO" when the system learning has completed successfully. The LED display shows "SF" if the system learning fails. The LED display will turn off after 10 seconds.

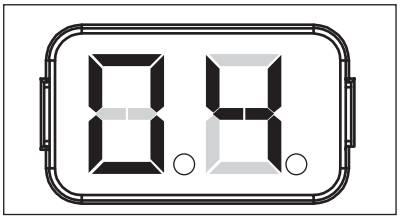
Note: The over current function and flashing light function will be activated automatically after the learning process is complete.

B. Restore Default Setting: **Factory Reset**

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 while the motor is operating. If this reading increases instantly or stays on a high reading, please check if there is any object in between the door moving area, and contact your installer for inspection.

E PROGRAMMABLE FUNCTION INDICATION LED

Just says what the motor is doing

LED Display	Programmable Functions	LED Display	Programmable Functions
05	Start transmitter learning mode.	0E	Operation testing
0C	Erased all learned transmitters.	SF	System Learning Fail.
0P	Set up Open Limit.	SO	System Learning Complete
0L	Set up Close Limit.	0C	System setting clear

Display NOT FUNCTION

F HOW TO SET THE PARAMETER:

Reset the Parameters first on page 10 then reset the door travel limits to get these to work properly

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

Step 2: Choosing the setting by pressing the 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 to the chart below for details). Use the Up and the Down Keys to choose the setting function and press the Set key to save.

G PROGRAMMABLE FUNCTION SETTING

One of these

LED Display	Definition	Function	Value	Description
1	Deceleration position starting point (% full operation)	1-1	75%	1. The factory setting is "1-3"
		1-2	80%	
		1-3	85%	
		1-4	90%	
		1-5	95%	
2	Open/Stop/Close/Stop function key	2-0	Function off	1. The factory setting is "2-1"
		2-1	A Key Button 1	
		2-2	B Key Button 2 on the remote	
		2-3	C Key Button 3 on the remote	
		2-4	D Key Button 4 on the remote	
3	LED light function key	3-0	Function off	1. The factory setting is "3-2" The word KEY means Remote Button
		3-1	A Key	
		3-2	B Key	
		3-3	C Key	
		3-4	D Key	
4	External device function key	4-0	Function off	1. The factory setting is "4-3"
		4-1	A Key	
		4-2	B Key	
		4-3	C Key	
		4-4	D Key	
5	Photocell function mode	5-0	OFF	1. The factory setting is "5-0 " 2. More detail, please refer to "Section 5-A"
		5-1	Mode 1	
		5-2	Mode 2	
6	Warning Buzzer	6-1	Function off	1. The factory setting is "6-1" 2. Hint: If the door remains open position more than 10 minutes, the buzzer beeps until the door is closed
		6-2	Function on	
7	Auto-close adjustment	7-1	Function off	1.The factory setting is "7-1"
		7-2	30 sec	
		7-3	60 sec	
		7-4	90 sec	
		7-5	120 sec	
		7-6	150 sec	
		7-7	180 sec	
		7-8	210 sec	
		7-9	240 sec	
8	LED light switch	8-1	OFF	1. The factory setting is "8-4"
		8-2	Light on for 1 minute	
		8-3	Light on for 2 minutes	
		8-4	Light on for 3 minutes	
9	Over current reaction mode	9-1	During door opening/closing: The door will STOP when hitting an obstruction. The door will close automatically if auto close function is selected (F7)	1. The factory setting is "9-2"
		9-2	During door opening: the door will STOP when hitting an obstruction. During door closing: the door will REVERSE about 10cm when hitting an obstruction; auto close will be deactivated once, requiring the remote control to be pressed for the next operation.	Using the up & down plus set button change the settings for A,C&E | Then when E has been set wait 30 seconds to time out then reset door limits
		9-3	During door opening/closing: the door will REVERSE TO THE END when hitting an obstruction; auto close will be deactivated once, requiring the remote control to be pressed for the next operation.	
FA	Over current (Sensitivity) adjustment	10	Add 0.2A	1.The factory setting is "70" 2.Hint:These values are added to the current values automatically recorded during the system learning phase (Maximum of highest current is 9A Tolerance for opening: +3A Tolerance for closing:-0.5A/+1A)
		20	Add 0.4A	
		30	Add 0.5A	
		40	Add 0.6A	
		50	Add 0.8A	
		60	Add 1.0A	
		70	Add 1.2A	
		80	Add 1.4A	
		90	Add 1.6A	
		99	Add 1.8A	

Display show "A"

LED Display	Definition	Function	Value	Description
FC Display show "C"	Overcurrent setting during system learning - opening phase	C1	2A as over current value for open limit	1.The factory setting is "C3" 2.Hint:During system learning, the motor runs with 50% PWM. If the overcurrent value is reached - learning will fail and SF will be displayed. In this case increase the value from default C3 and retry system learning process
		C2	3A	
		C3	4A	
		C4	5A	
		C5	6A	
		C6	7A	
		C7	8A	
FE Display show "E"	Overcurrent setting during system learning - closing phase	E1	2A as over current value for close limit	1.The factory setting is "E3" 2.Hint:During system learning, the motor runs with 50% PWM. If the overcurrent value is reached - learning will fail and SF will be displayed. In this case increase the value from default C3 and retry system learning process
		E2	3A	
		E3	4A	
		E4	5A	
		E5	6A	
		E6	7A	
		E7	8A	
FF	Adjustment of terminal +24V (J5)	F1	Consistent +24 power supply	1. The factory setting is "F1"
		F2	Power supply when photo sensor is activated	

5. FUNCTION OF EXTERNAL ACCESSORIES

A Photocell mode

Mode 1

Door Status	The reaction
Door closed	NO effect. Photocells maintain in the inactive status.
Door opened	NO action untill next command. If automatic close is selected, the door will reload the automatic closing time when photocell is covered.
Stop in the middle	NO action untill next command. If automatic close is selected, the door will reload the automatic closing time when photocell is covered.
Closing	Stop closing immediately and wait for next command
Opening	Stop opening immediately and wait for next command

Mode 2

Door Status	The reaction
Door closed	NO effect. Photocells maintain in the inactive status.
Door opened	NO action untill next command. If automatic close is selected, the door will reload the automatic closing time when photocell is covered.
Stop in the middle	Close command is not allowed. If automatic close is selected, the door will reload the automatic closing time when the photocell is covered.
Closing	Stop closing immediately and wait for next command
Opening	Keep opening

B FUNCTION OF EXTERNAL PUSH BUTTON:

Operation logic of door when the push button is pressed: open-stop-close-stop

6. SPECIFICATION

Garage Door Opener	COBBLE 80	COBBLE 100	COBBLE 120
Volt	Input 230-240V 50/60Hz	Input 230-240V 50/60Hz	Input 230-240V 50/60Hz
Motor volt	DC24V	DC24V	DC24V
Power	80W	100W	144W
Force	800N	1000N	1200N
Remote frequency	433.92MHZ	433.92MHZ	433.92MHZ
Max door area	16.5m²	18m²	20m²
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
Onboard receiver capacity	50pcs	50pcs	50pcs