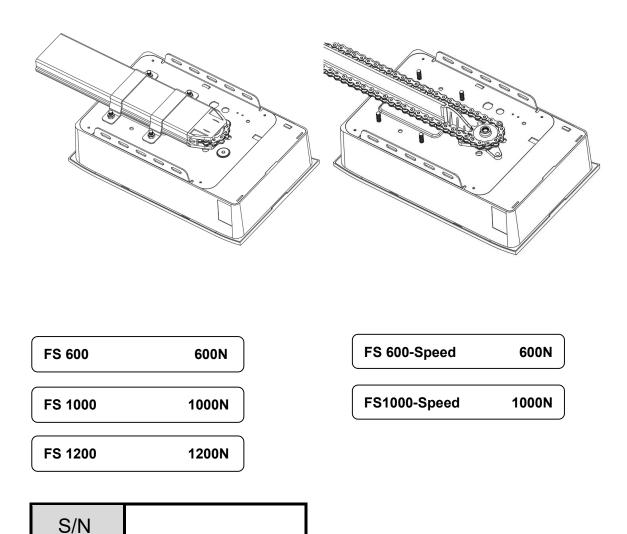
Garage Door Opener - C Rail & T Rail

Installation Instructions and User Guide



WARNING

Please read the manual carefully before installation and use.

The installation of your new door opener must be carried out by a technically qualified or licensed person.

Attempting to install or repair the door opener without suitable technical qualification may result in severe personal injury, death and / or property damage.

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IMPORTANT SAFETY RECOMMENDATIONS

FAILURE TO COMPLY WITH THE FOLLOWING SAFETY RECOMMENDATIONS MAY RESULT IN SERIOUS PERSONAL INJURY, DEATH AND / OR PROPERTY DAMAGE.

1. PLEASE READ CAREFULLY AND ADHERE TO ALL SAFETY AND INSTALLATION RECOMMENDATIONS.

- 2. The opener is designed and manufactured to meet local regulations. The installer must be familiar with local regulations required in respect of the installation of the opener.
- 3. Unqualified personnel or those persons who do not know the occupational health and safety standards being applicable to automatic gates and other doors, must in no circumstances carry out installations or implement systems.
- 4. Persons who install or service the equipment without observing all the applicable safety standards will be responsible for any damage, injury, cost, expense or claim whatsoever any person suffered as a result of failure to install the system correctly and in accordance with the relevant safety standards and installation manual whether directly or indirectly.
- For additional safety we strongly recommend the inclusion of Photo Beam. Although the
 opener incorporates a pressure sensitive Safety Obstruction Force system the addition of
 Photo Beam will greatly enhance the operating safety of an automatic garage door and
 provide additional peace of mind.
- 6. Make sure that the garage door is fully open & stationary before driving in or out of the garage.
- 7. Make sure the garage door is fully closed & stationary before leaving.
- 8. Keep hands and loose clothing off the opener and garage door all the time.
- 9. The Safety Obstruction System is designed to work on STATIONARY objects only. Serious personal injury, death and / or property damage may occur if the garage door comes into contact with a moving object
- 10. 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. Children should be supervised to ensure that they do not play with the appliance.
 - A
- 11. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.
- 12. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- WARNING: Important safety instructions. It is important for the safety of persons to follow all instructions. Save these instructions.
- Do not allow children to play with door controls. Keep remote controls away from children.
- Watch the moving door and keep people away until the door is completely opened or closed.
- Take care when operating the manual release since an open door may fall rapidly due to weak or broken springs, or being out of balance.
- Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury.
- Each month check that the drive reverses when the door contacts a 50 mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard, for drives incorporating an entrapment protection system depending on contact with the bottom edge of the door.
- Details on how to use the manual release.
- Information concerning the adjustment of the door and drive.
- Disconnect the supply when cleaning or carrying out other maintenance.
- The installation instructions shall include details for the installation of the drive and its associated components.

IMPORTANT SAFETY FOR BUTTON OR COIN

1.WARNING



WARNING!



THIS PRODUCT CONTAINS A BUTTON OR COIN CELL BATTERY

2. The battery is hazardous and must be kept out of reach of children.

The battery can cause severe or fatal injuries within 2 hours or less if swallowed or placed inside any part of the body.

If you suspect the battery has been swallowed or placed inside any part of the body, SEEK **IMMEDIATE** medical attention.

3. Transmitter Battery Replacement

- 3.1 Remove the fixing screws located on the underside of the Hand-Held Transmitter.
- 3.2 Open the 2 halves of the Transmitter shell and replace the battery with one of identical specification.
- 3.3 Test that the Red Coloured Indicator lamp illuminates when one of the Transmitter buttons is pressed and then replace the fixing screws.

4. Wall Switch-Wireless Battery Replacement

- 4.1 Remove the cover plate while the unit is still mounted to the wall by sliding and twisting a straight screwdriver in the slot provided on the top and underside of the wall plate.
- 4.2 Use a small Phillips Head Screwdriver remove the 4 screws holding the switches in place.
- 4.3 Replace the battery with one of identical specification.

PRODUCT DESCRIPTION & FEATURES

1. Obstruction force adjustment

The minimum force display "1" and it can be adjusted upward. Display "5" means the maximum force.

2. Travel speed adjustment

"8" appears on the display means the 80% of the travel speed. Display "A" means the full speed 160mm/s or 200mm/s.

3. Reversal height adjustment

"0" appears on the display means the door will rebound to the top. Display "1~9" means the door will rebound to the position of the whole travel. One tenth to Nine tenth of the whole travel etc.

4. Partial open/height

"0" appears on the display means close the partial open function. Display "1~9" means to set the different partial open position of the whole travel.

5. Transmitter button recognition function

"0" appears on the display means the buttons recognition function is closed.

Display "1" means the buttons recognition function is open.

6. Codes memory quantity

"A" appears on the display means the maximal code memory quantity is 50pcs. Press UP/DOWN button once, to increase or decrease quantity. The code memory quantity is set on 5pcs*N, N=1~9. (The quantity is the multiple of 5).

7. Maintenance alarm

"t" appears on the display and led light flashes 10 times quickly means the garage door and motor need total maintenance.

8. Automatic safety reverse

Automatic stop / automatic reverse are controlled by our software of circuit boards. We are circumspect to protect your children, pet or other goods.

9. Soft start / Soft stop

Ramping speed up and down at the start and end of each cycle reduces stress on the door and opener for longer life, and makes for quieter operations.

10. Auto-Close

Auto- Close ensures peace of mind and keeps your house secure by automatically closing the door upon entering or exiting the garage.

11. Self learning open and close obstruction force

The amount of opener power for different stages of the door's travel is learned during setup and is constantly re-profiled. Opener force measurement automatically adjustment in a suitable range.

12. Electronic limit, simple adjustment

You only need control the limit setup from control panels to adjust it exactly, the simple and quick process for any peoples.

PRODUCT DESCRIPTION & FEATURES

13. Available terminal for Photo beams & Extra receivers & Wire or wireless wall switch & Caution light & Pass door protection device.

14. Energy saving - L.E.D courtesy light

9 minutes L.E.D light delay, switching on with each cycle to illuminate your darkened garage.

15. Battery backup available

Openers could be supplied power with our battery backup once the power failure at your home.

16. Self-Lock in gear motors

Gear motors will self-lock with its disengagement systems.

17. Manual release

Don't worry about the power failure, the manual release system is a solution for operation the door at any time.

18. Transmitter technology

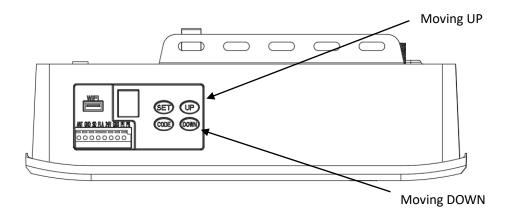
Rolling Code technology (7.38 x 10¹⁹ Combinations), 433.92 MHz or 868.35 MHZ frequency, 4 channels design to ensure you can control 4 different doors with one transmitter.

19. Applications

With as little as 30mm required between the ceiling and the highest point of the door travel, the opener can be flush mounted for low headroom applications.

20. Metal bottom plate, stronger and security.

21. Up / Down moving operation buttons (UP / DOWN)



PRE-INSTALLATION RECOMMENDATIONS

- 1. Garage door must be able to be lifted and closed easily by hand and without much effort. A well balanced & sprung door is critical for proper installation.
- 2. The garage door opener can't compensate for a badly installed garage door and should not be used as a solution for a "hard to open" door.
- 3. If the unit is being installed on an existing door, make sure any existing locking devices are removed or warranty will be void.
- 4. An approved outlet must be installed near where the opener is begin installed.
- 5. There should be a minimum gap of 30mm between the bottom of the chain drive rail and the top of the garage door at its closest point. (refer to Fig 1.)

Important note: As for additional safety rules, we strongly recommends the fitting of Photo Electric safety beams on all installations.

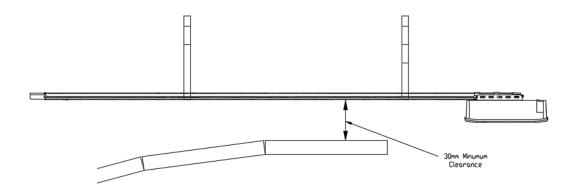
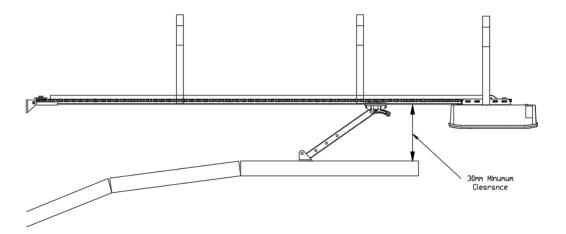
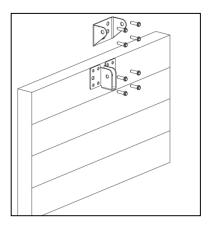


Figure 1



INSTALLATION INSTRUCTIONS

Mount Wall Bracket and Door Bracket (Fig2)



Wall Bracket - Close the garage door and measure the garage door width at the top and mark the centre. Locate and mount the wall bracket 2cm-15cm above the door on the inside wall.

(Depend on the actual installation space).

Door Bracket – Fix the door bracket to a structural part of the door as close to the top edge as possible.

Figure 2
Installation (Steel C-Rail)

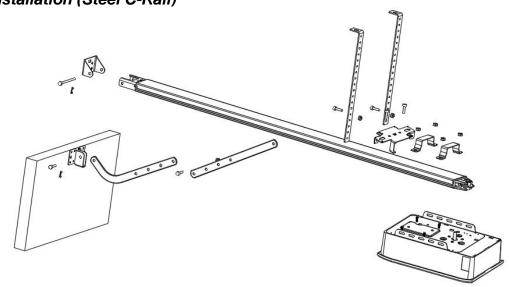


Figure 3

STEP1 (Fig.3)

Attach the opener head to the steel track. Assembly the 2 "U" Hanging brackets with 6mm nuts supplied.

STEP2 (Fig.3)

Place the steel track and opener head assembly centrally on the garage floor, with the open head furthest away from the door. Lift the front of the track up to the door bracket. Insert the pivot pin and secure it with the split pin supplied.

STEP3 (Fig.3, Fig.4)

Lift and support the opener head (with a ladder) so it is positioned centrally and level. Fix the opener and track on ceiling by Iron bracket A & B.

WARNING: Do not allow children around the door, opener or supporting ladder serious injury and/or damage may result from failure to follow this warning.

STEP4 (Fig.3, Fig.5)

Connect the straight arm to the bent arm with the bolt.

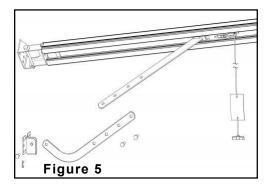
Position and bolt the arms to the top edge of the door using the bolt supplied.

Figure 4

STEP5

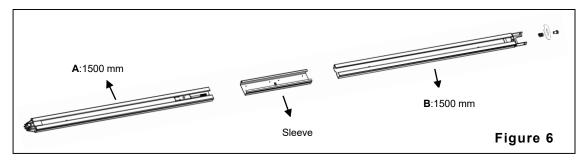
Lift the garage door until the shuttle locks into the drive chain/belt.

Now, ready to program the openers.

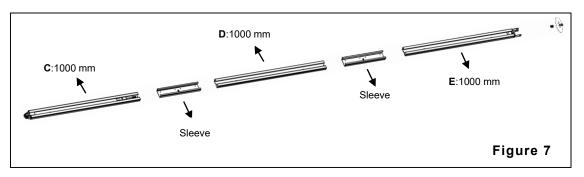


Sectional Steel C-Rail Assembly

2 Parts Steel Track



3 Parts Steel Track



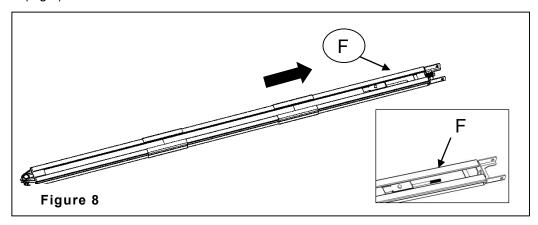
1. 2-Parts Steel Track:

As Fig.6, slide the A rail into the sleeve, slide the B rail into the sleeve.

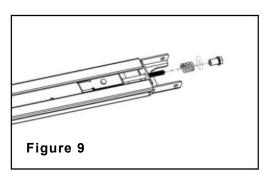
3-Parts Steel Track:

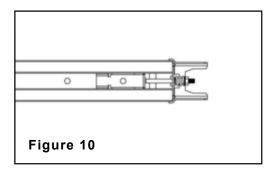
As Fig.7, slide the C rail into the sleeve, slide the D rail into the sleeve; slide the E rail into the sleeve.

2. Cut the plastic thread; pull the screw rod along with inner chain to the end rail position (Fig.8)



- 3. As Fig.9, release the nut & spring.
- 4. Tight the nut to the right position as shown in Fig.10, cut the plastic tape, cut the plastic thread on sprocket, then whole rail assembled finished.





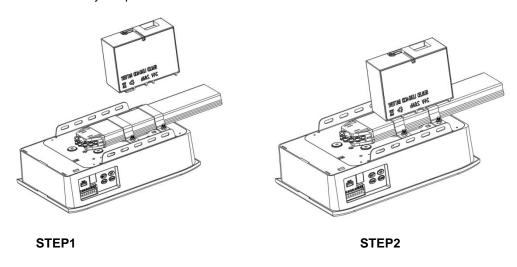
Battery Backup Assembly for C-Rail (optional)

Option 1 - Top Fixed (For Lead-acid Battery ONLY) STEP1

Assemble the battery & battery bracket like the photo, fix by screws supplied.

STEP2

Join the battery to opener.



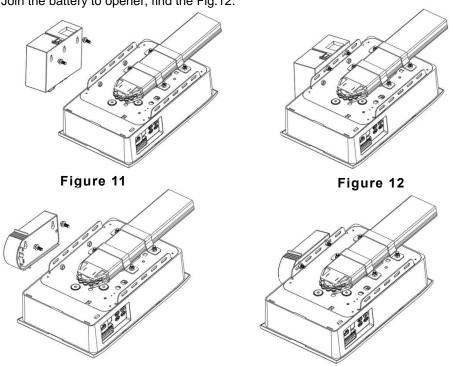
Option 2 - Side Fixed (For Lead-acid&Lithium Battery)

STEP1 (Fig.11)

Assemble the battery to the side of the opener like the photo, fix by screws supplied.

STEP2 (Fig.12)

Join the battery to opener, find the Fig.12.



MANUAL DISENGAGEMENT FOR C-RAIL OPENER

The opener is equipped with a manual release cord to disengage shuttle and move door by hand while holding the handle down (Fig 13). Pull on the handle to disengage the shuttle. To re-engage the door simply run opener in automatic mode or move door by hand until the trolley engages in the chain shuttle.

In some situations that a pedestrian door is not in state, it is recommended that an external disengagement device should be fitted (Fig 14).

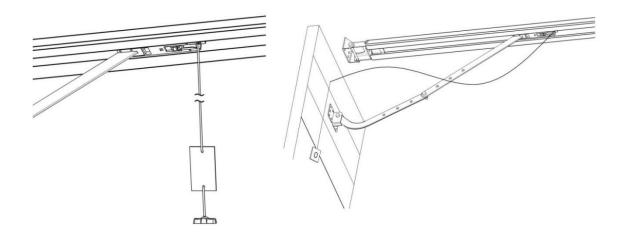


Figure 13 Figure 14

Installation (Steel T-Rail)

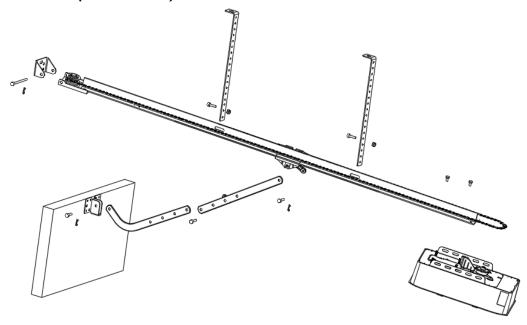


Figure 15

STEP1 (Fig.15)

Attach the opener head to the steel T-Rail.

STEP2 (Fig.15)

Place the steel T-rail and opener head assembly centrally on the garage floor, with the open head furthest away from the door. Lift the front of the rail up to the door bracket. Insert the pivot pin and secure it with the split pin supplied.

STEP3 (Fig.15, Fig.16)

Lift and support the opener head (with a ladder) so it is positioned centrally and level. Fix the opener and track on ceiling by 2 mounting brackets.

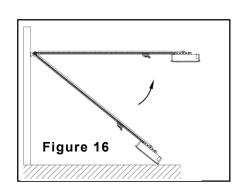
WARNING: Do not allow children around the door, opener or supporting ladder serious injury and/or damage may result from failure to follow this warning.

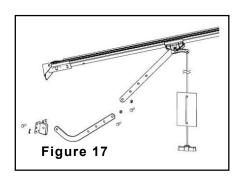
STEP4 (Fig.15, Fig.17)

Connect the straight arm to the bent arm with the bolt. Position and bolt the arms to the top edge of the door using the bolt supplied.

STEP5

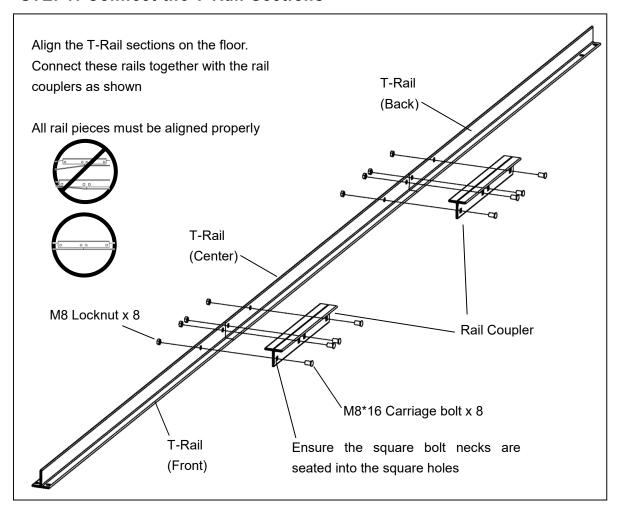
Lift the garage door until the trolley locks into the drive chain. Then, ready to program the openers.



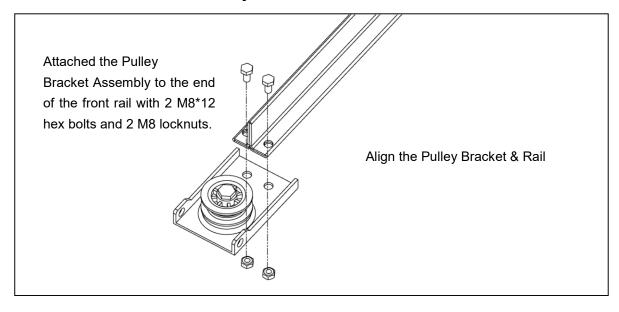


Sectional Steel T-Rail Assembly

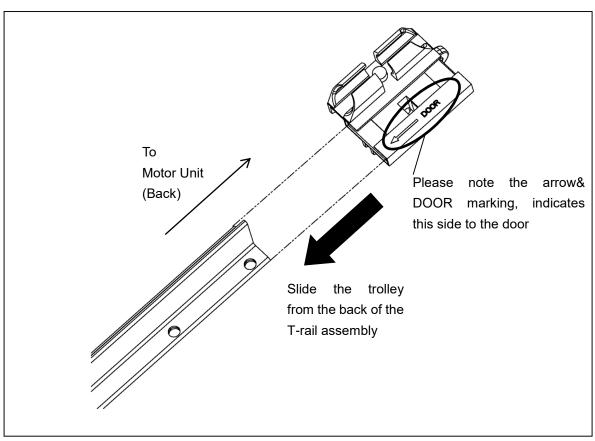
STEP1: Connect the T-Rail Sections



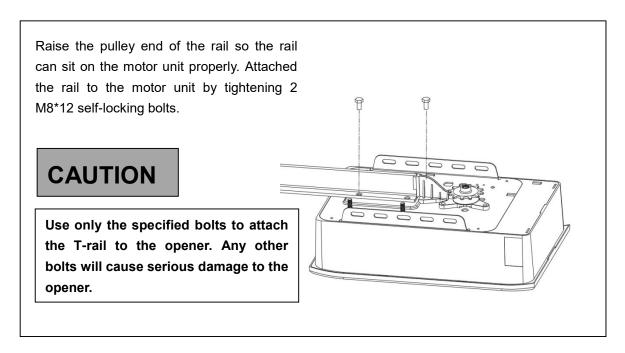
STEP2: Attached the Pulley Bracket



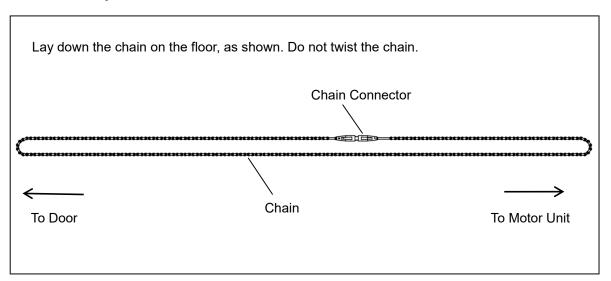
STEP3: Install the Trolley



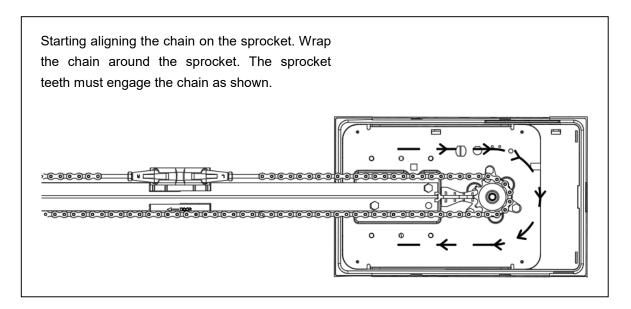
STEP4: Attached the T-Rail to the Opener



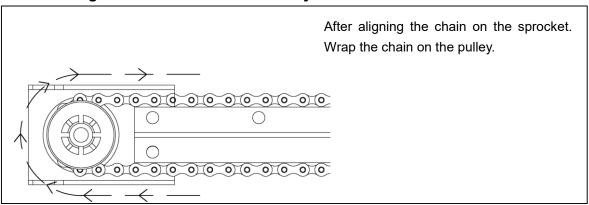
STEP5: Prepare the Chain



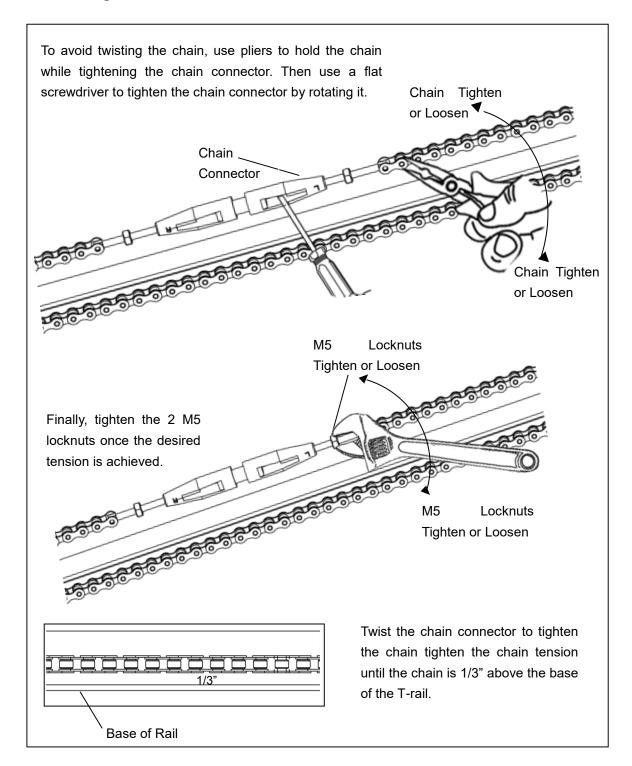
STEP6: Align the Chain on the Sprocket



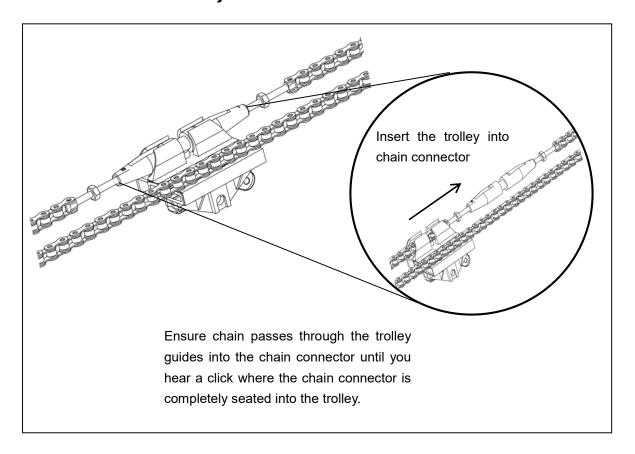
STEP7: Align the Chain on the Pulley



STEP8: Tighten the Chain



STEP9: Insert the trolley into chain connector



Congratulations!

Now the T-rail assembly is already finished.

But please kindly noted: After completing the installation, you may notice some chain drop with the door fully closed. The chain should return to the position as shown when the door is open.

Note: Too much or too little tension will cause excessive noise.



- Always keep hand clear of sprocket and chain while operating opener.

Battery Backup Assembly for T-Rail (optional) Side Fixed (For Lead-acid&Lithium Battery)

STEP1 (Fig.18)

Assemble the battery to the side of the opener like the photo, fix by screws supplied.

STEP2 (Fig.19)

Join the battery to opener, find the Fig.19.

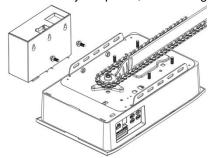
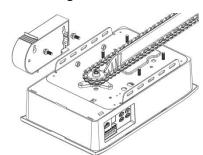


Figure 18



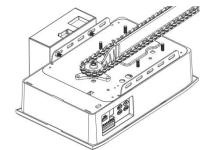
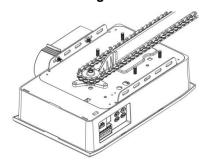


Figure 19



MANUAL DISENGAGEMENT FOR T-RAIL

The opener is equipped with a manual release cord to disengage shuttle and move door by hand while holding the handle down (Fig 20). Pull on the handle to disengage the shuttle. To re-engage the door simply run opener in automatic mode or move door by hand until the trolley engages in the chain shuttle.

In some situations that a pedestrian door is not in state, it is recommended that an external disengagement device should be fitted (Fig 21).

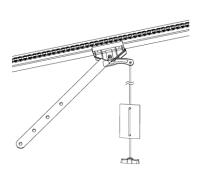


Figure 20

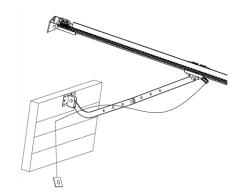


Figure 21

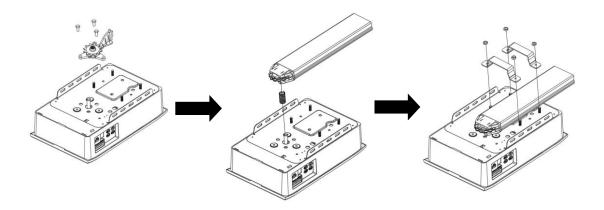
EXCHANGE BETWEEN T-RAIL AND C-RAIL

Change T-Rail to C-Rail

STEP1: Take off the sprocket bearing base.

STEP2: Fix the motor shaft sleeve and then attach the C-Rail to the opener.

STEP3: Assemble the 2 "U" Hanging brackets with 6mm nuts supplied.



Change C-Rail to T-Rail

STEP1: Take off the 2 "U" Hanging brackets.

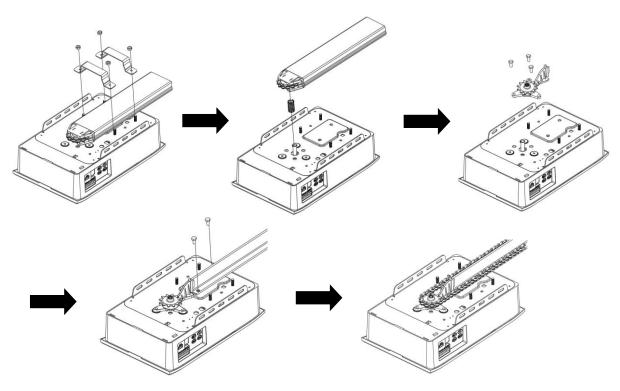
STEP2: Take off the motor shaft sleeve and C-Rail one by one.

STEP3: Assemble the sprocket bearing base and fix with M6*14 screws supplied.

STEP4: Attach the T-Rail to the opener and fix with M8*12 self-locking bolts supplied.

STEP5: Align the chain on the sprocket, and then following details please view

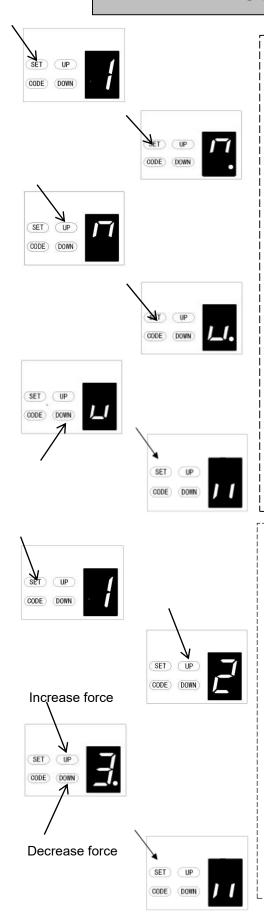
previous Sectional Steel T-Rail Assembly Guides.



BASIC BUTTON INSTRUCTIONS

Item	Button	Description
1.	SET	Short press: Confirm setting. Long press: Enter the function menu setting.
2.	CODE	Short press: a) In the Setting Status, short press CODE, it will exit the current operation and return to the standby interface. b) In the Standby Status, short press the CODE, A dot will be indicated in the corner, now entering the code leaning mode. Now first click the button on the hand transmitter you want to use, the dot may disappear ,then press again the same button on the hand transmitter, the dot will flash, here, the code learning is finished. Long press: Clear the coded remote. Press and hold CODE button until a letter "C" is indicated on the display. All stored remotes will be deleted.
3.	UP	Short press: Open the door. Long press: Increase the resilience. Press and hold the DOWN button, after 4 seconds, it will scroll to display 0-1-2, choose the number you want. 1=increase the resilience 25%, 2=increase the resilience 50%
4.	DOWN	Short press: Close the door. Long press: Restore Factory Settings. Keep press DOWN button, after 4 seconds, it will scroll to display then the garage door opener will restart. PS: Restart means all settings are back to factory settings, all learning things need to be done again except the transmitter learning code.

PROGRAMMING INSTRUCTIONS



1. PROGRAMMING OPEN & CLOSE LIMITS

- a) Press and hold **SET** button to enter this function setting until "1" appears on the display then release the button.
- b) Press the **SET** button again. The door opener is now in Programming Mode. And then you will see "n" with dot appears on the display.
- c) Press and hold the **UP** button until the door reaches the desired open position, you will see "n" without dot on the display.
- d) Press **SET** button to confirm the open position, then you will see "u" with dot on the display.
- e) Next press and hold the **DOWN** button until the door reaches the desired close position, you will see "u" without dot on the display.

NOTE: For fine adjustments toggle UP & DOWN buttons.

f) Now press the **SET** button to confirm the close position, then you will see "II" on the display.

After confirm the close position, the door will now cycle open and close to set the travel limits and force sensitivity adjustments. The door is now set for normal operation.

CAUTION:

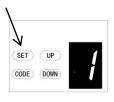
After the cycle open and close, there will be figures shown on the display (0~9), "0" means the doors is balanced, the smaller figure means the better door balance, strongly recommend that the figure need to be smaller than the power force.

2. OBSTRUCTION FORCE ADJUSTMENT

CAUTION: The obstruction force adjustment is set automatically during programming. Normally no adjustment is necessary.

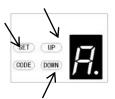
- a) Press and hold SET Button until "1" appears on the display, next press the UP Button until "2" appears on the display to enter this function setting then release the button.
- b) Press the SET button again, The unit is now in force adjustment mode. And then you will see a figure "3" with flash dot appears on the display.
- c) Press the UP button to increase the force setting or the DOWN button to decrease the force setting. The minimum force is "1" and it can be adjusted upward. The maximum force is "5".
- d) Press SET button to confirm the set and it will back to standby status automatically and display " ... "..."

NOTE: The force is set on "3" as standard in factory.





Increase speed



Decrease speed

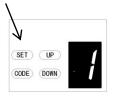


3. TRAVEL SPEED SETTING

CAUTION: If you changed the speed option again, it will cancel the previous travel limit. The speed adjustment function will be available only after you reset the travel limit.

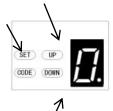
- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "3" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in speed adjustment mode. And then you will see a letter "A" with flash dot appears on the display.
- c) Press the **UP** & **DOWN** button to choose the speed. Figure "8" means the 80% of the travel speed. Figure "A" means the full speed.
- d) Press **SET** button to confirm the set and it will back to standby status automatically and display " \parallel " .

NOTE: The travel speed is set on full speed "A" as standard in factory.





Increase time







4. AUTOMATIC CLOSING&TIME SETTING

NOTE: We recommend that Safety Photo Beams be used in any installation where the Auto Close function is enabled.

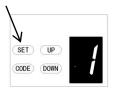
- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "4" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again, the unit is now in automatic close adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to set the auto close time $(0\sim9)$. Press **UP** button to increase the time, or **DOWN** button to decrease the time.

The close time is 15second*N, N=0 \sim 9. The maximum time is 135s. To disable Auto Close Function, set time to zero (0).

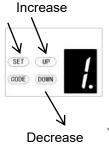
d) Press **SET** button to confirm the set and it will back to standby status automatically and display "II".

NOTE:

- 1. The closing time is set on "0" as standard in factory.
- 2. If the Photo Cell Function is on, and it's broke by the obstruction, the auto close time will stop for a while, and then continue the automatic close time again.









5. AUTOMATIC CLOSING CONDITION SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "5" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in automatic close condition adjustment mode. And then you will see a figure "1" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to set the auto close condition. You can choose "1" or "2" set.

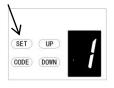
Figure "1" means, the door only can auto close while in the open limit position.

Figure "2" means, the door can auto close while the door is in any position.

d) Press **SET** button to confirm the set and it will back to standby status automatically and display " $\rm II$ " .

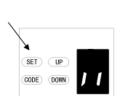
NOTE:

- 1. The closing condition is set on "1" as standard in factory.
- 2. The door will only automatic close while in its opening process, but can't automatic close after it is stopped while in its closing process.









6. LED OFF DELAY TIME SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "6" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in LED off delay time adjustment mode. And then you will see a figure "3" with flash dot appears on the display.
- c) Press **UP / Down** button once to set the LED off delay time (1~9).
- d) Press \mathbf{UP} button to increase the time, or \mathbf{DOWN} button to decrease the time

The delay time is 1 minute*N, N=1~9. The maximum delay time is 9 minutes.

e) Press **SET** button to confirm the set and it will back to standby status automatically and display " \mbox{II} ".

NOTE: The LED off delay time is set on "3" as standard in factory.





Increase height



Decrease height



7. REVERSAL HEIGHT SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "7" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in reversal height adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to set the reversal height while closing (0~9).
- d) Press **UP** button to increase , or **DOWN** button to decrease.

Figure "0" means the door will rebound to the open limit position. Figure 1~9 means the door will rebound to the position of the whole travel. One tenth to Nine tenth of the whole travel etc...

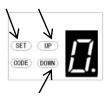
e) Press **SET** button to confirm the set and it will back to standby status automatically and display "II".

NOTE: The reversal height is set on "0" as standard in factory.





Increase



Decrease



8. PARTIAL OPEN/HEIGHT SETTING

- a) Press and hold SET Button until "1"appears on the display, next press the UP Button until "8" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again, The unit is now in partial open/height adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- open function or set the partial open height. (0 9). Press **UP** button to increase, or **DOWN** button to decrease.

Figure "0" means close the partial open function.

Figure "1" means the 1/10 height of the door.

Figure "2" means the 2/10 height of the door.

Figure "3" means the 3/10 height of the door.

Figure "4" means the 4/10 height of the door.

Figure "5" means the 5/10 height of the door.

Figure "6" means the 6/10 height of the door.

Figure "7" means the 7/10 height of the door.

Figure "8" means the 8/10 height of the door.

Figure "9" means the 9/10 height of the door.

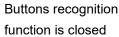
NOTE:

- 1. The partial open/height is set on "0" as standard in factory.
- 2. If you open the partial open/height function,the button's recognition function will be disabled.
- 3. Other details please refer to the Instruction manual of the remote carefully.
- 4. If you enabled the partial open function then disabled this function later, please notice that only the coded button you leaned in the beginning can control the opener now.





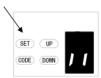








Buttons recognition function is open



9. TRANSMITTER BUTTONS RECOGNITION FUNCTION SETTING

- a) Press and hold **SET** button to enter this function setting until "9" appears on the display then release the button.
- b) Press the **SET** button again. The unit is now in buttons recognition function adjustment mode. And then you will see a figure "1" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to select if you want all the 4 buttons can control the only one opener, or only the separate coded button can control the opener.

Figure "0" means the buttons recognition function is closed. It means if you coded 1 button with 1 opener, then all the 4 buttons on the remote can control the opener. It's suit for the users who only have 1 automation door at home.

Figure "1" means the buttons recognition function is open. If you coded first button with first opener, then the first button will be the only button on the remote can control the opener. It's suit for the users who have more than 1 automation doors/gates at home.

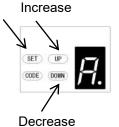
b) Press SET button to confirm the set and it will back to standby status automatically and display "II" .

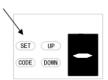
NOTE:

- 1. The buttons recognition is set on "1" as standard in factory.
- 2. After you changed the buttons un-recognition into recognition, please notice that only the coded button can control the opener.









A. CODES MEMORY QUANTITY SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "A" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again, the unit is now in remote quantity adjustment mode. And then you will see a figure "A" again, but with flash dot appears on the display.
- c) Press **UP / Down** button once to set the remote quantity. (A or 1~9).
- d) Figure "A " means the maximal quantity 50pcs. Press **UP/DOWN** button once to increase or decrease quantity.

The remote quantity is set on 5pcs*N, N=1~9. (The quantity is the multiple of 5)

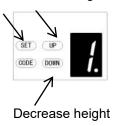
e) Press **SET** button to confirm the set and it will back to standby status automatically and display " \parallel ".

NOTE: The remote quantity is set on "A" as standard in factory.





Increase height





b. REVERSAL HEIGHT IGNORANCE SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "b" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in reversal height ignorance adjustment mode. And then you will see a figure "1" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to set the reversal height ignorance while closing (0~9).
- d) Press **UP** button to increase , or **DOWN** button to decrease.

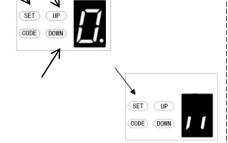
Figure 1~9 means the door will still not rebound even though there's obstacles in its closing path within 1cm~9cm away from the close position. This function is most suitable for the Northern Europe where will always snow on the ground.

e) Press **SET** button to confirm the set and it will back to standby status automatically and display "II".

NOTE: The reversal height is set on "1" as standard in factory.







C. PASS DOOR SWITCH TYPE SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "C" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in the pass door switch type adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- c) Press **UP** / **Down** button once to set the pass door switch type. You can choose "0" or "1" set.

Figure "0" means, the pass door function is normally open. Figure "1" means, the pass door function is normally close.

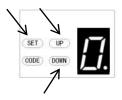
d) Press **SET** button to confirm the set and it will back to standby status automatically and display "II".

NOTE: The pass door switch is set on "0" as standard in factory.





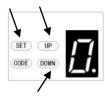
















d. PHOTO CELL ON/OFF SETTING

NOTE: Make sure the photo cell has been correctly installed and use Normally Closed contacts to the accessory terminals of the opener (Fig.22, Fig.23)

Also note that the photo beam function must be disabled if NO photo beams are fitted, otherwise the door cannot be closed, and the LED display will show the letter "r" as an indication.

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "d" appears on the display to enter this function setting then release the button.
- b) Press the SET button again. The unit is now in the photo cell ON/OFF adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- c) Press UP / Down button once to set the photo cell ON/OFF switch. You can choose "0" or "1" set.

 Figure "0" means, the photo cell function is closed.

Figure "1" means, the photo cell function is open.

d) Press SET button to confirm the set and it will be back to standby status automatically and display "II".

NOTE: The photo cell is set on "0" as standard in factory.

MAINTENANCE ALARM-OPERATION CYCLES COUNT SETTING

- a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "E" appears on the display to enter this function setting then release the button.
- b) Press the **SET** button again. The unit is now in the maintenance alarm adjustment mode. And then you will see a figure "0" with flash dot appears on the display.
- c) Press UP / Down button, you can select the operation cycles you need the opener to make you notice. You can choose from "1-5" set.

Figure "1" means, after garage door operated to 1000 times, the L.E.D. light will flash 10 times quickly after the door stop working every time. In order to make you notice that your garage door need to do maintenance . And at the same time, you will see a figure "t" appears on the display.

Figure "2" means the maintenance alarm count cycle is set on 2000 times. Figure "3" means the maintenance alarm count cycle is set on 3000 times.

Figure "4" means the maintenance alarm count cycle is set on 4000 times.

Figure "5" means the maintenance alarm count cycle is set on 5000 times.

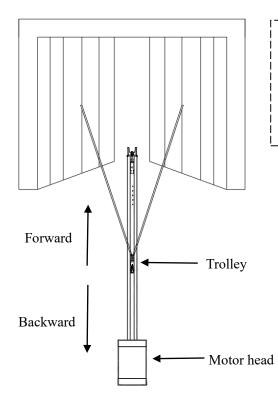
d) Press **SET** button to confirm the set and it will be back to standby status automatically and display "II".

NOTE:

- 1. The operation count cycles is set on "0" as standard in factory.
- 2. "t" appears on display and led light flashes 10 times quickly means the door lost balance, strong recommend the maintenance for garage doors.
- 3. "Check" the status, or "Re-learn" the travel limit after maintenance alarm cautions.

Programming Motor Reversal Function

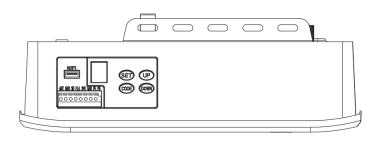
The function can be applied to swing doors

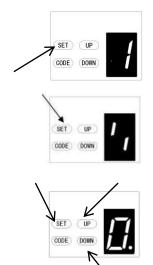


1. After you set this function, the swing door will open outwards.

When you open the door, the trolley will move forward.

When you close the door, the trolley will move backwards.





For multifunctional motor:

- 1.Press and hold **SET** Button until " appears on the display and then release the button.Press **UP** button to display " and then press
- **SET** button to enter the function selection menu.
- 2.Default "0" means the motor is running forward, "1" means the motor is running backwards. Short press **UP/Down** button to choose the function and press **SET** button to confirm the set.
- 3.After adjusting the reversal function of the motor, it is necessary to re-learn the travel limit of the door.

OPEN / STOP / CLOSE TERMINALS

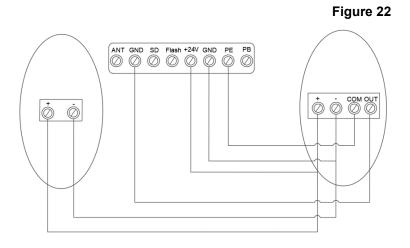
The O/S/C facility can be used for an external push button switch to operate the opener. The switch must have voltage free normally open NC contacts (Fig. 22)

Photo beam connection (optional) – Fig.22, Fig.23 Switch control connection (optional) – Fig.22

Remark:

- 1. Flash (Caution Light) should be less than 10W.
- 2. PB (External Push Button) should be "NO" contact.

Garage Door Opener



+24V GND PE PB

for pulse

Figure 23

Connection of photo beam/switch control

Other terminal introduction and application

1. The O/S/C interfaces available. (Fig. 22)

Add a new O/S/C button to open or close the door.

2. Flash light function. (Fig. 24, Fig. 25)

There are corresponding interfaces for this function and provide 24v-35v flash light voltage. Connect the flash light with DC 24v-28v, current≤ 100mA. When use AC 220V power flash lights, please match an adapter, and wiring as required

3. Pass door (SD) protection (Fig. 24, Fig. 25)

This function ensures that the door can't be opened unless the small pass door is closed. The door panel won't be damaged.

- 4. External power supply (BAT) and antenna (ANT), WIFI port.(Fig.25)
- External power connection port, red is connected to "+", black is connected to " "
- "WIFI" This port is inserted into the WIFI module.
- " ANT " receiving signal function Antenna interface.

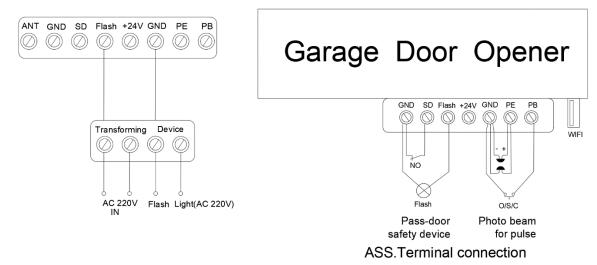


Figure 24

Figure 25

MAINTENANCE

1. No particular maintenance is required for the logic circuit board.

Check the door at least twice a year if it is properly balanced, and all working parts are in good working condition or not.

Check the reversing sensitivity at least twice a year, and adjust if it is necessary.

Make sure that the safety devices are working effectively (photo beams, etc.)

2. Light bulb replacing:

Notice: Make sure the power supply has been cut off before replacing the light bulb. And ensure the voltage of the new light bulb is in accordance with the local voltage and the power is within 10 Watt.

Demount the screws on the lamp cover. Take the lamp cover away then twist off the old L.E.D light anti-clockwise. Fix the new L.E.D light and lamp cover.

3. Regarding the maintenance alarm function:

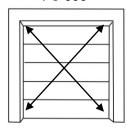
LED light flashes 10 times quickly means the door lost balance, strong recommend the maintenance for garage doors. "Check" the status, or "Re-learn" the travel limit after maintenance alarm cautions.

Notice: A rude operating door can affect the life of the automatic opener due to incorrect loads, and will avoid the warranty.

TECHNICAL SPECIFICATIONS

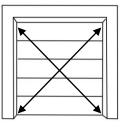
	FS 600	FS 1000	FS 1200	
Input voltage	220 - 240V / 110 - 127V, 50–60 Hz			
Max. pull force	600 N	1000 N	1200 N	
Max. door area	10 m²	15 m²	18 m²	
Max. door weight (Balanced)	100 kg	150 kg	180kg	
Max. door height	2400 - 3500mm	2400 - 3500mm	2400 - 3500mm	
Drive mechanism	Chain / Belt	Chain / Belt	Chain / Belt	
Opening / Closing speed	160mm / Seco	nd - C Rail & 190mm /	Second - T Rail	
L.E.D	24V / 15pcs LED lamps			
Limit setting	Electronic	Electronic	Electronic	
Transformer	Overload protection technology			
Radio frequency	433.92 MHz or 868.35 MHz			
Coding format	Rolling code (7.38 x 10 ¹⁹ Combinations)			
Status display transmitter	2 X	2 X	2 X	
Code storage capacity	50 different codes(Subject to the actual)			
Caution light terminal	Included	Included	Included	
Working temperature	-40℃ - +50℃	-40℃ - +50℃	-40℃ - +50℃	
Safety protection	Soft start & Soft stop, Photo cell option, Caution light option			
Protection level	IP20	IP20	IP20	

FS 600



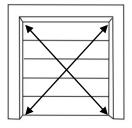
Rated door area: ≤ 10 m²

FS 1000

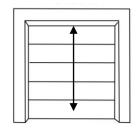


Rated door area: ≤ 15 m²

FS 1200



Rated door area: ≤ 18 m²

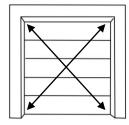


Standard door height: 2400mm Maximum door height: 3500mm

TECHNICAL SPECIFICATIONS

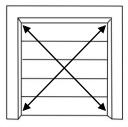
	FS 600-Speed	FS 1000-Speed	
Input voltage	220 - 240V / 110 - 127V, 50–60 Hz		
Max. pull force	600 N	1000 N	
Max. door area	8 m²	12 m²	
Max. door weight (Balanced)	80 kg	120 kg	
Max. door height	2400 - 3500mm	2400 - 3500mm	
Drive mechanism	Chain / Belt	Chain / Belt	
Opening / Closing speed	200mm / Second	200mm / Second	
L.E.D	24V / 15pcs LED bulbs		
Limit setting	Electronic	Electronic	
Transformer	Overload protection technology		
Radio frequency	433.92 MHz or 868.35 MHz		
Coding format	Rolling code (7.38 x 10 ¹⁹ Combinations)		
Status display transmitter	r 2 X 2 X		
Code storage capacity	50 different codes(Subject to the actual)		
Caution light terminal	Included Included		
Working temperature	-40°C - +50°C -40°C - +50°C		
Safety rotection	Soft start & Soft stop, Photo cell option, Caution light option		
Protection level	IP20 IP20		

FS 600-Speed

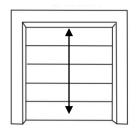


Rated door area: ≤ 8 m²

FS 1000-Speed

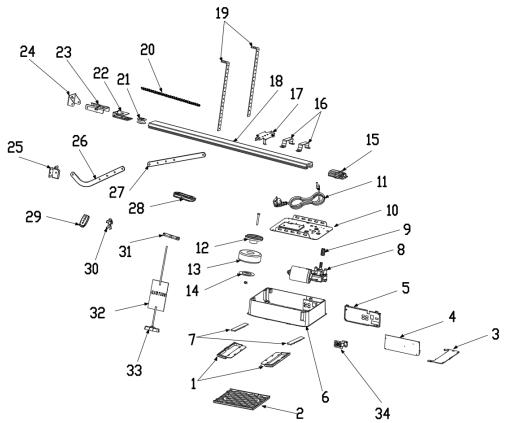


Rated door area: ≤ 12 m²



Standard door height: 2400mm Maximum door height: 3500mm

PARTS LISTING FOR C-RAIL OPENER

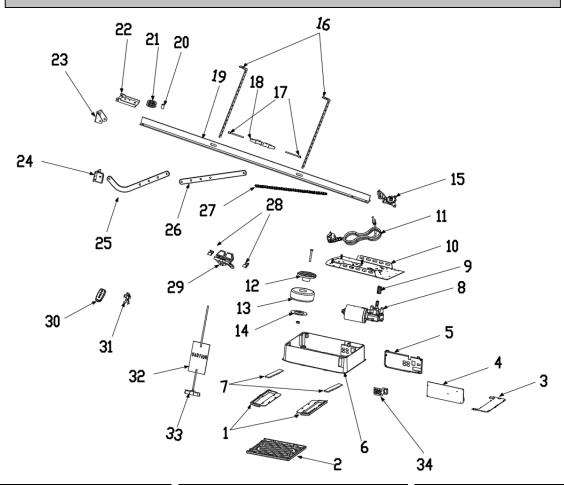


Item	Qty	Description
1	2	L.E.D cover
2	1	Top cover
3	1	Plastic base
4	1	Support bracket
5	1	РСВА
6	1	Motor Cover
7	2	L.E.D light
8	1	DC gear motor
9	1	Motor shaft sleeve
10	1	Steel bottom base
11	1	Power wire

Item	Qty	Description
12	1	Transformer plate
13	1	Transformer
14	1	Metal gland for transformer
15	1	Sprocket assy
16	2	U hanging bracket
17	1	Click bracket
18	1	C Rail - steel
19	2	Mounting bracket
20	1	Chain / Belt
21	1	Chain / Belt wheel
22	1	Wheel bracket

Qty	Description
1	Track ending bracket
1	Wall bracket
1	Door bracket
1	Bent arm
1	Straight arm
1	Trolley assy
1	Transmitter
1	Transmitter bracket
1	Chain / Belt connection
1	Caution card
1	Release handle
1	Silicone button
	1 1 1 1 1 1 1 1

PARTS LISTING FOR T-RAIL OPENER



Item	Qty	Description	Item	Qty	Description	Item	Qty	Description
1	2	L.E.D cover	13	1	Transformer	25	1	Bent arm
2	1	Top cover	14	1	Metal gland for transformer	26	1	Straight arm
3	1	Plastic base	15	1	Sprocket bearing base	27	1	Chain
4	1	Support bracket	16	2	Mounting bracket	28	2	POM protective cover
5	1	PCBA	17	2	Threaded shaft	29	1	Trolley assy
6	1	Motor Cover	18	1	Chain connector	30	1	Transmitter
7	2	L.E.D light	19	1	T Rail - steel	31	1	Transmitter bracket
8	1	DC gear motor	20	1	Pivot pin	32	1	Caution card
9	1	Motor shaft sleeve	21	1	Chain wheel	33	1	Release handle
10	1	Steel bottom base	22	1	Track ending bracket	34	1	Silicone button
11	1	Power wire	23	1	Wall bracket			
12	1	Transformer plate	24	1	Door bracket			

Common Fault & Solutions

Fault appearance	Fault cause	Solutions
No any working for openers	1. Power supply	Check whether the motor socket is energized
LCD screen is not bright	2. Plug wire is loosing	2. Check whether Fuse tube is broken
		Check whether the low-voltage wire of transformer is
		connected to the power board
		Check whether the ribbon cable is plugged
		5. Check whether there is 26v AC at the transformer
		low-voltage side, if there is 26v AC, replace the PCB. If not,
		replace the transformer
Position missing	System error	Re-set the limit traveling
While learning, the digital display	Travel less than 30cm or more than 9m	Re-set the limit traveling
	Unstable voltage or door lost balance	1. Check the power supply
Digital display		2. Adjust the door balance
Opener does not work or stop working		
Opener is not working	Fail to learn the up and down limit setting	Learn "UP" and "DOWN" limit traveling again follow the
Digital display	Improperly learn the up and down limit	manual
	setting	
LED is always on	The control panel is broken or the power	Replace the control board or power board.
	supply board is broken	
When open the door by remote,	Hall sensor wire is loosed or damaged	Open the cover, check the Hall sensor wire, re-plug or
opener stops automatically after running		replace.
10cm		
Digital display		
Opener does not work.	The wire between gear motor and board	Open the cover and check the wire between gear motor and
Hear the relay 'kaka' sound	is loosing	board.
Digital display		
Opener stops automatically after running	The wire between gear motor and board is	Power off firstly, open the cover and reverse the plug wire
10cm	plugged inversely	between gear motor and board. Re-set limit traveling.
Digital display		
Door is up moving only.	Photo cell function has been effective	Turn off the photo cell function if there is no any
Do not work in down moving and the	but without connecting any photo cell device.	photo cell device connected. (Refer the instruction manual)
Digital display		3. Check if the photo cell is connected correctly, or if there is
		any obstruction between the photo cell.

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		maintenance	

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