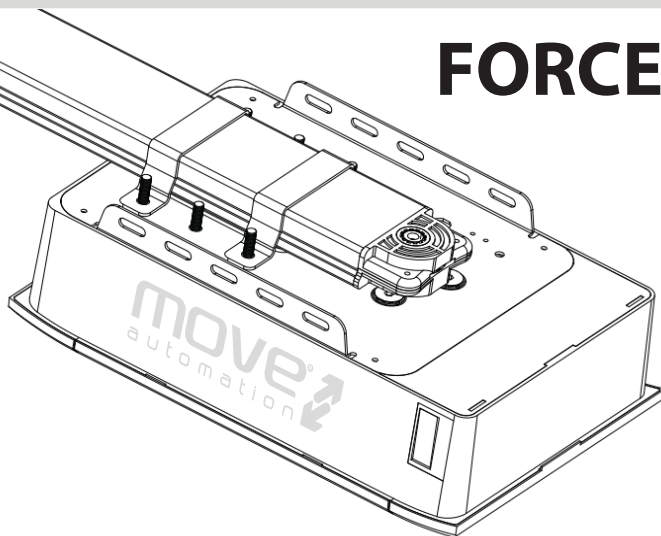


Sectional and Tilting Door Opener

INSTALLATION INSTRUCTIONS AND USER GUIDE

v20230426

FORCE⁺



FORCE⁺ 600N

FORCE⁺ 1000N

FORCE⁺ 1000N *Speed*

FORCE⁺ 1200N

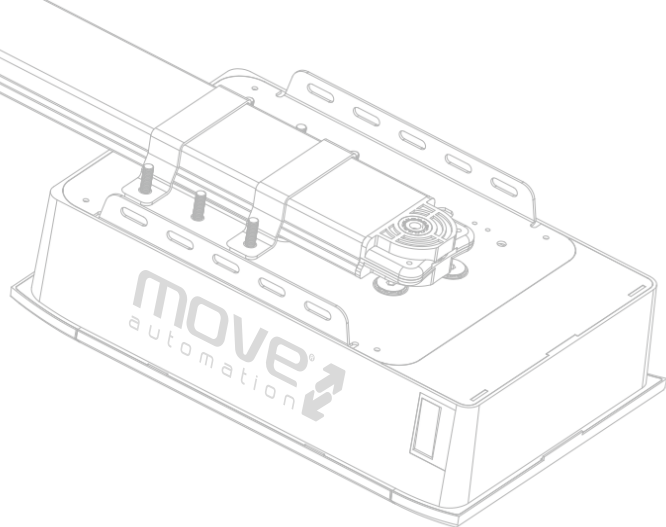
EN

S/N

WARNING

CE

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.



The data described in this handbook are purely a guide. Move Automation reserves the right to change them in any moment.

The manufacturer reserves the right to modify or improve products without prior notice. Any inaccuracies or errors found in this handbook will be corrected in the next edition.

When opening the packing please check that the product is intact. Please recycle materials in compliance with current regulations.

This product may only be installed by a qualified fitter. Move Automation declines all liability for damage to property and/or personal injury deriving from the incorrect installation of the system or its non-compliance with current law (see Machinery Directive).

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01) 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.
 5. For additional safety we strongly recommend the inclusion of Safety Photocells. Although the opener incorporates a pressure sensitive Safety Obstruction Force system the addition of Photocells 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.
 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.**

02) IMPORTANT SAFETY FOR BUTTON OR COIN CELL BATTERY

1.  **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.

1. 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.

2. 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.

3. AUTO-CLOSE

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

4. SELF-LEARNING OPEN AND CLOSE OBSTRUCTION FORCE

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

5. ELECTRONIC LIMIT, SIMPLE ADJUSTMENT

You only need to configure the opening / closing limits on the control panel, a quick and simple process for any person.

6. AVAILABLE TERMINAL FOR PHOTO BEAMS & EXTRA RECEIVERS & WIRE OR WIRELESS WALL SWITCH & CAUTION LIGHT & PASS DOOR PROTECTION DEVICE.

7. ENERGY SAVING - L.E.D COURTESY LIGHT

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

8. BATTERY BACKUP AVAILABLE

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

9. SELF-LOCK IN GEAR MOTORS

Force gear motors will self-lock with our disengagement systems.

10. MANUAL RELEASE

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

11. TRANSMITTER TECHNOLOGY

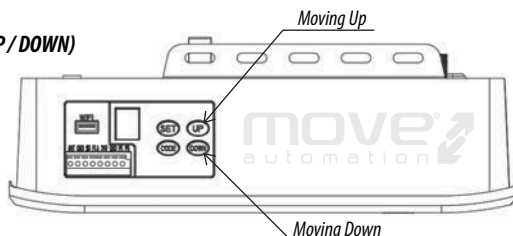
Rolling Code technology (7.38 x 1019 Combinations), 433.92Mhz or 868.35Mhz frequency, 4 channels design to ensure you can control 4 different doors with one transmitter.

12. LOWER HEADROOM

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.

13. METAL BOTTOM PLATE INSIDE, STRONGER AND SECURITY

14. UP / DOWN MOVING OPERATION BUTTONS (UP / DOWN)



04) 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 being 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.

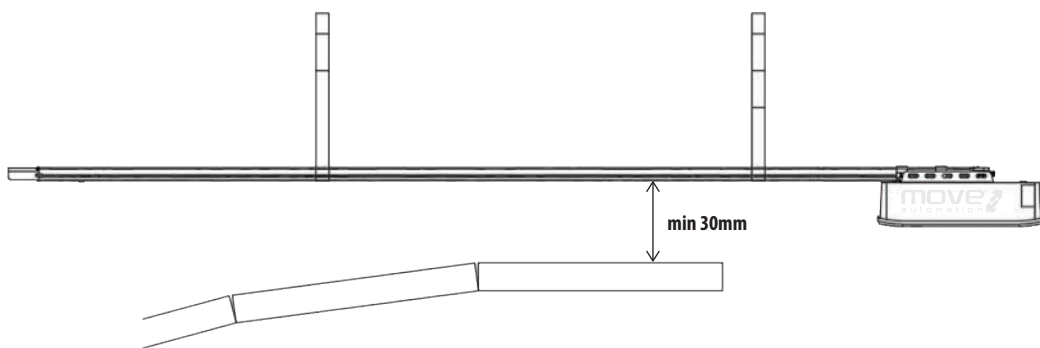
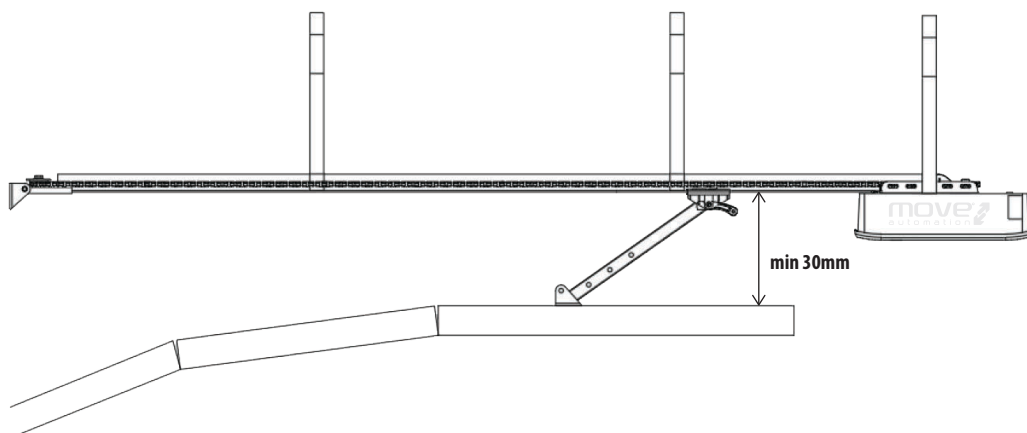


Figure 1



05) INSTALLATION INSTRUCTIONS - Mount Wall Bracket and Door Bracket (Figure 2)

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.

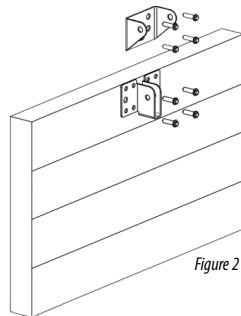


Figure 2

06) INSTALLATION INSTRUCTIONS - Installation Steel C-Rail (Figure 2)

STEP 1 (Fig.3)

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

STEP 2 (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.

STEP 3 (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.

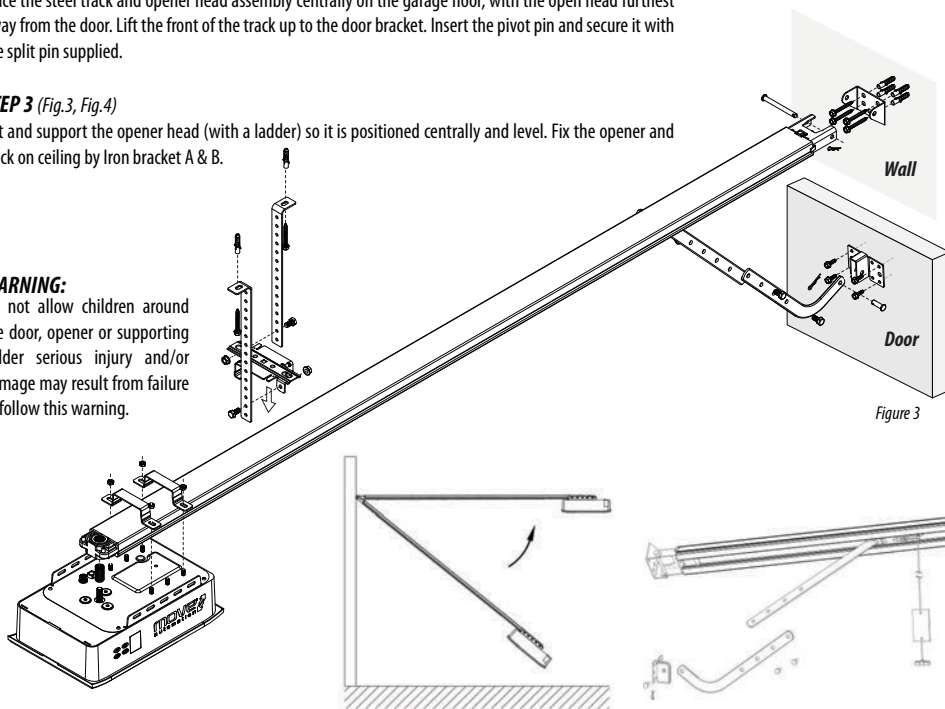


Figure 3

STEP 4 (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.

STEP 5

Lift the garage door until the shuttle locks into the drive chain/belt. Now, ready to program the openers.

Figure 4

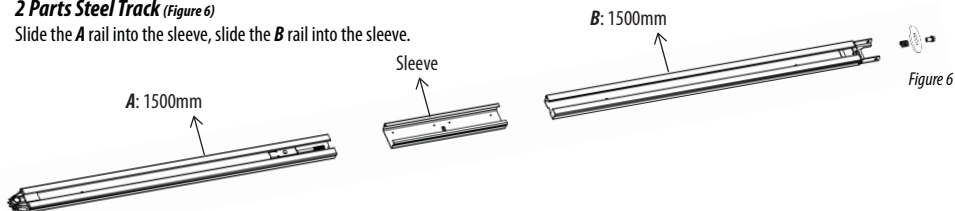
Figure 5

07) INSTALLATION INSTRUCTIONS - Sectional Steel C-Rail Assembly

STEP 1

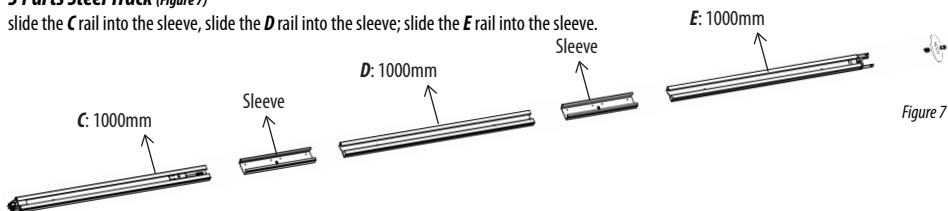
2 Parts Steel Track (Figure 6)

Slide the **A** rail into the sleeve, slide the **B** rail into the sleeve.



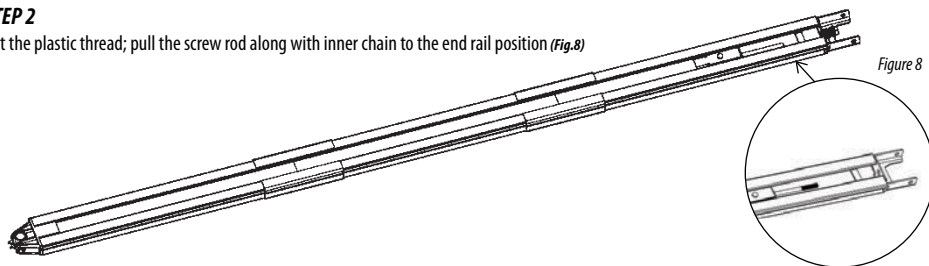
3 Parts Steel Track (Figure 7)

slide the **C** rail into the sleeve, slide the **D** rail into the sleeve; slide the **E** rail into the sleeve.



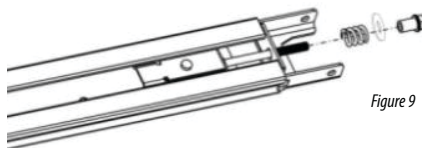
STEP 2

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



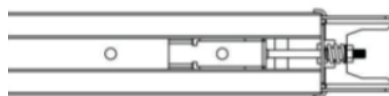
STEP 3

Release the nut & spring. (Fig.9)



STEP 4

Tight the nut to the right position (Fig.10), cut the plastic tape, cut the plastic thread on sprocket, then whole rail assembled finished.



OPTION 1 - TOP FIXED (For Lead-acid Battery ONLY)

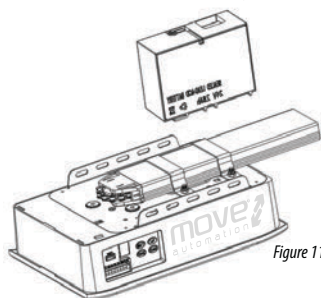


Figure 11

STEP 1 (Fig.11)
Assemble the battery & battery bracket like the photo, fix by screws supplied.

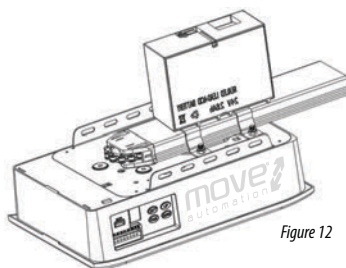


Figure 12

STEP 2 (Fig.12)
Join the battery to opener.

OPTION 2 - SIDE FIXED (For Lead-acid&Lithium Battery)

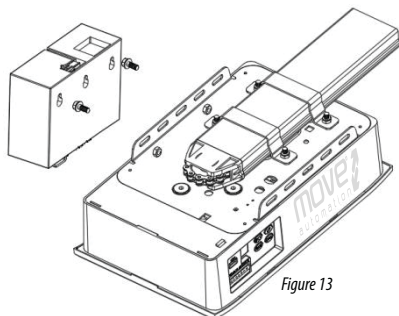


Figure 13

STEP 1 (Fig.13 / Fig.15)
Assemble the battery to the side of the opener like the photo, fix by screws supplied.

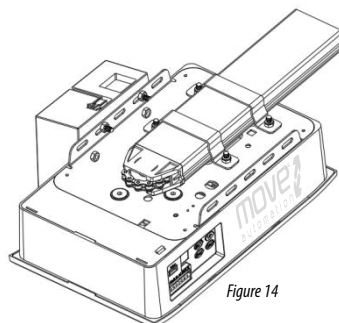


Figure 14

STEP 2 (Fig.14 / Fig.16)
Join the battery to opener.

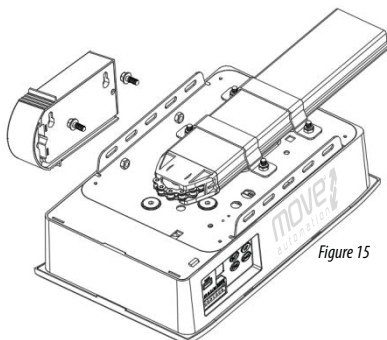


Figure 15

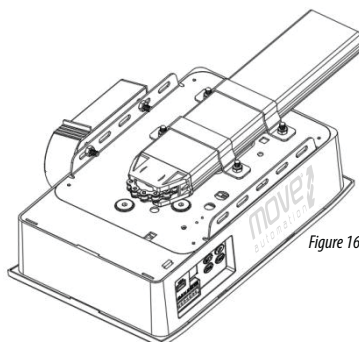


Figure 16

09) 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 17**). 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 18**).

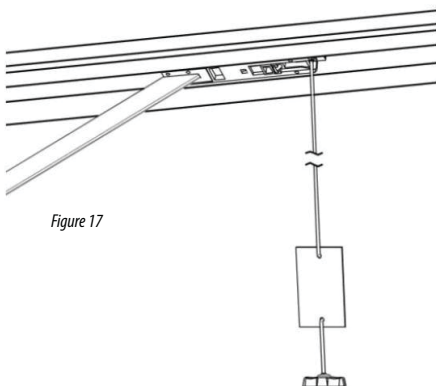


Figure 17

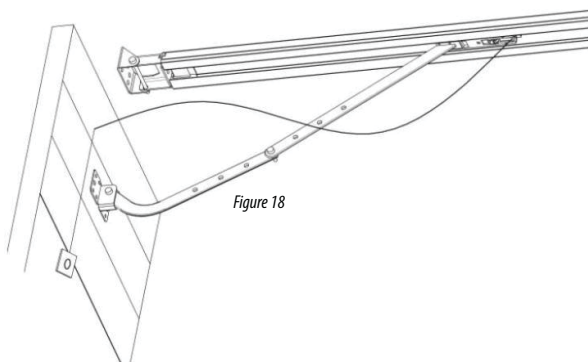


Figure 18

10) INSTALLATION -STEEL T-RAIL

STEP 1 (Fig.19)

Attach the opener head to the steel T-Rail.

STEP 2 (Fig.19)

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.

STEP 3 (Fig.19, Fig.20)

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.

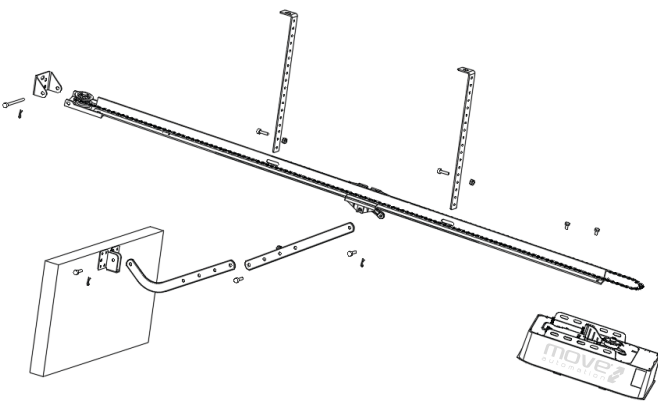


Figure 19

STEP 4 (Fig.19, Fig.21)

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.

STEP 5

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



Figure 20

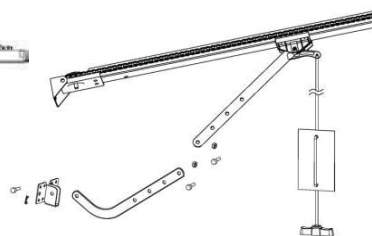


Figure 21

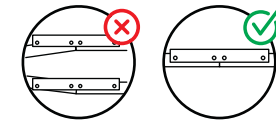


11) SECTIONAL STEEL T-RAIL ASSEMBLY

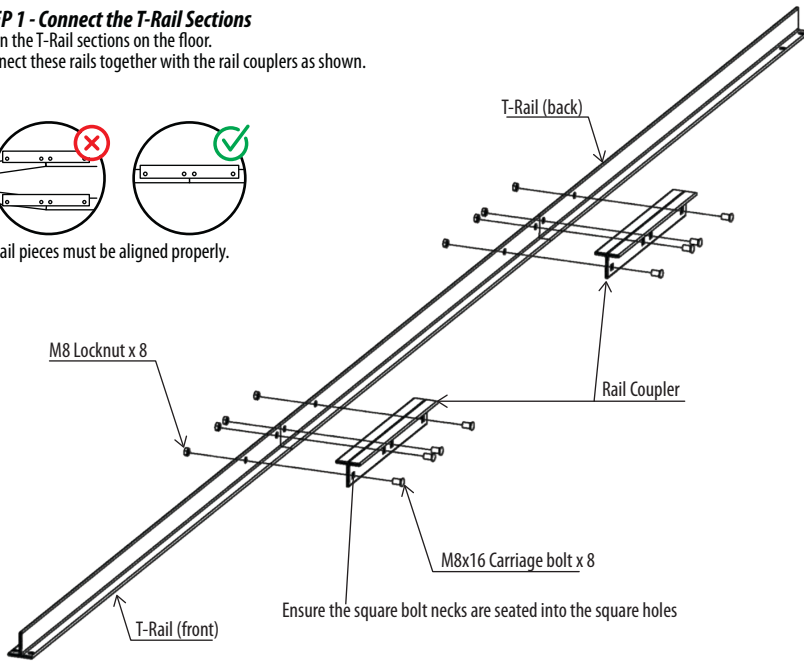
STEP 1 - Connect the T-Rail Sections

Align the T-Rail sections on the floor.

Connect these rails together with the rail couplers as shown.

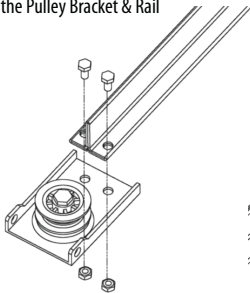


All rail pieces must be aligned properly.

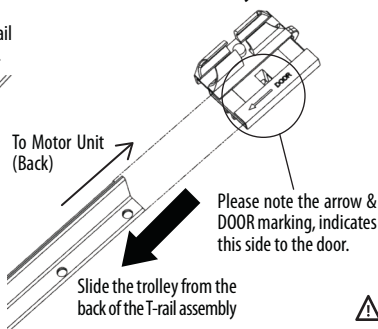


STEP 2 - Attached the Pulley Bracket

Attached the Pulley Bracket Assembly to the end of the front rail with 2 M8*12 hex bolts and 2 M8 locknuts. Align the Pulley Bracket & Rail

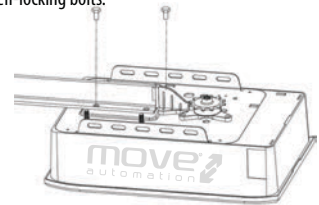


STEP 3 - Install the Trolley



STEP 4 - Attached the T-Rail to the Opener

Raise the pulley end of the rail so the rail can sit on the motor unit properly. Attached the rail to the motor unit by tightening 2 M8*12 self-locking bolts.

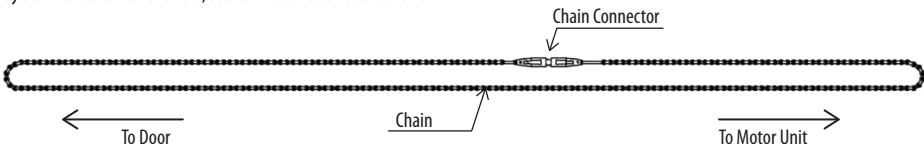


⚠ CAUTION:

Use only the specified bolts to attach the T-rail to the opener. Any other bolts will cause serious damage to the opener.

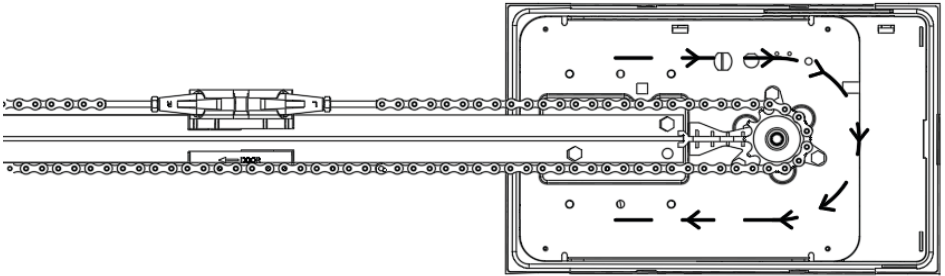
STEP 5 - Prepare the Chain

Lay down the chain on the floor, as shown. Do not twist the chain.



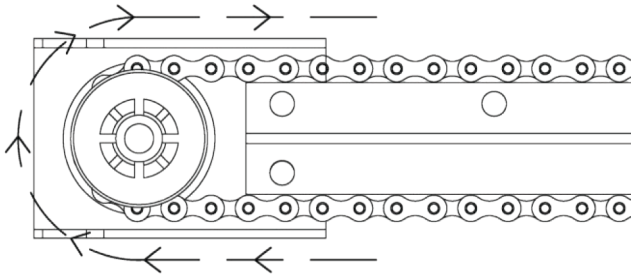
STEP 6 - Align the Chain on the Sprocket

Starting aligning the chain on the sprocket. Wrap the chain around the sprocket. The sprocket teeth must engage the chain as shown.



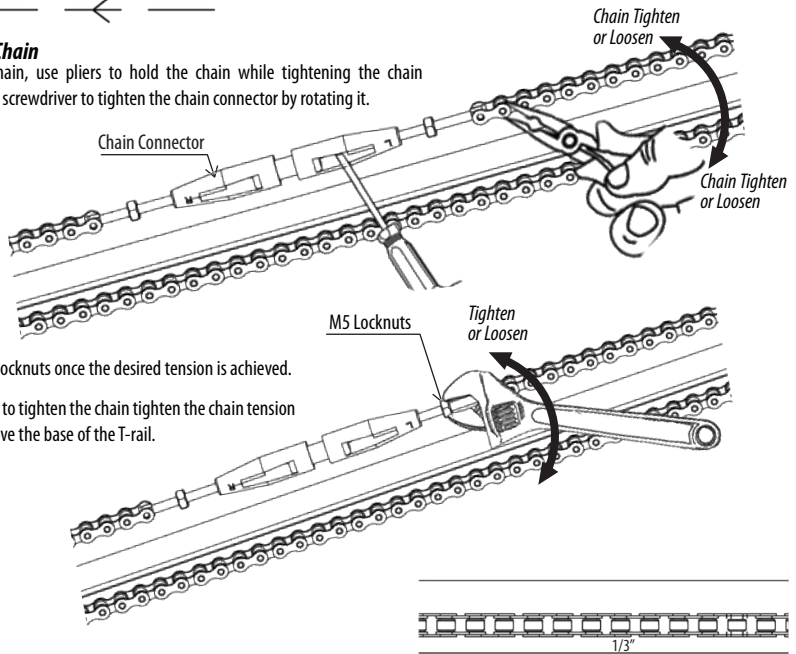
STEP 7 - Align the Chain on the Pulley

After aligning the chain on the sprocket. Wrap the chain on the pulley.



STEP 8 - Tighten the Chain

To avoid twisting the chain, use pliers to hold the chain while tightening the chain connector. Then use a flat screwdriver to tighten the chain connector by rotating it.

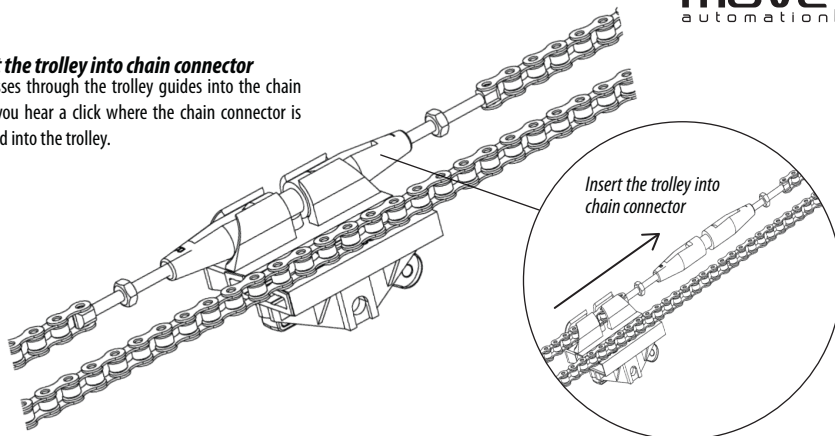


Finally, tighten the 2 M5 locknuts once the desired tension is achieved.

Twist the chain connector to tighten the chain tension until the chain is $\frac{1}{3}$ " above the base of the T-rail.

STEP 9 - Insert the trolley into chain connector

Ensure chain passes through the trolley guides into the chain connector until you hear a click where the chain connector is completely seated into the trolley.



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.

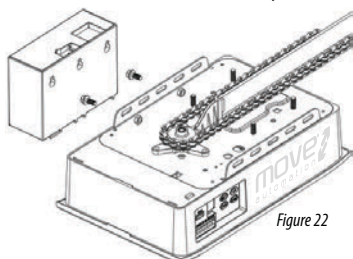


WARNING

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

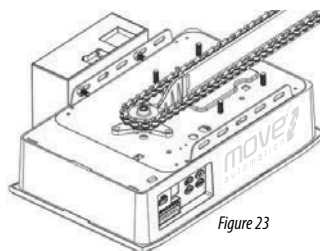
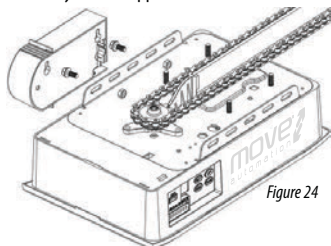
12) BATTERY BACKUP ASSEMBLY FOR T-RAIL (optional)

SIDE FIXED - For Lead-acid&Lithium Battery



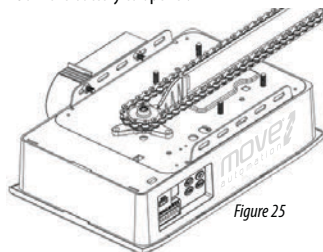
STEP 1 (Fig.22 / Fig.24)

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



STEP 2 (Fig.23 / Fig.25)

Join the battery to opener.



13) 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 26**). 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 27**).

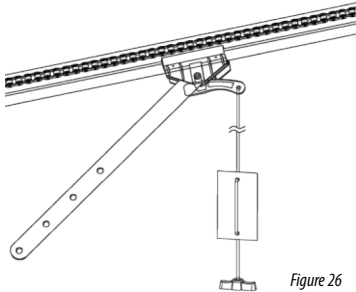


Figure 26

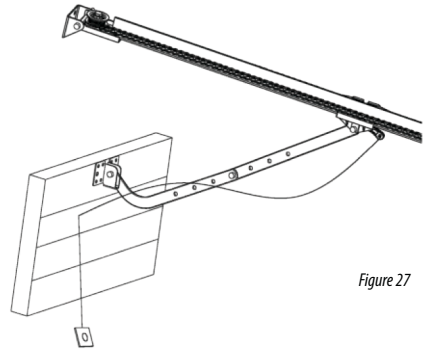
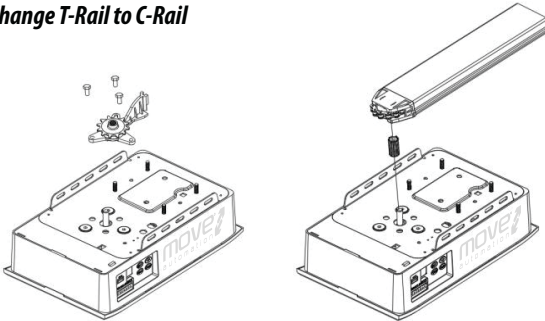


Figure 27

14) EXCHANGE BETWEEN T-RAIL AND C-RAIL

Change T-Rail to C-Rail

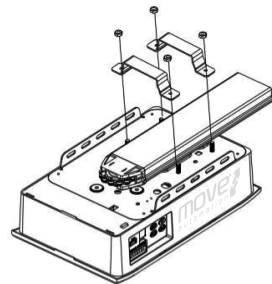


STEP 1

Take off the sprocket bearing base.

STEP 2

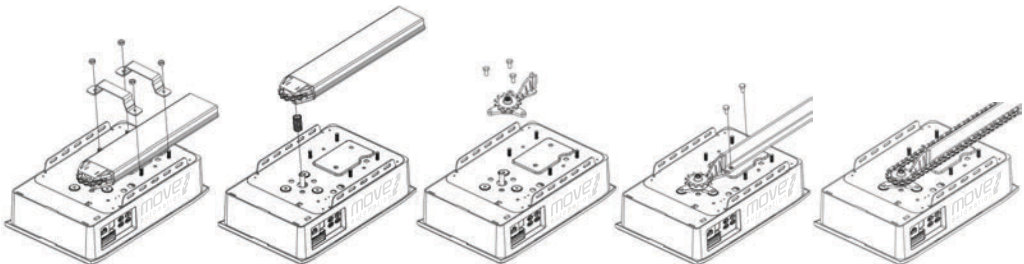
Fix the motor shaft sleeve and then attach the C-Rail to the opener.



STEP 3

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

Change C-Rail to T-Rail



STEP 1

Take off the 2 "U" Hanging brackets.

STEP 2

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

STEP 3

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

STEP 4

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

STEP 5

Align the chain on the sprocket, and then following details please view previous Sectional Steel T-Rail Assembly Guides.

BUTTON	DESCRIPTION
SET	 Short Press: Confirm Setting
	 Long Press: Enter the function menu setting
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 CODE , a dot will be indicated in the corner, now entering the CODE LEARNING MODE .   Standby Short Press   1x Short Press selected button  1x Confirm Choice  Dot will Flash
	 Long Press: Clear the coded remotes.   Long Press  ALL STORAD REMOTES ARE DELETED
UP	 Short Press: Open the door.
	 Long Press: Increase the Resilience  4 sec. Long Press Display Scrolls     25% 50% 70%  Confirm choice
DOWN	 Short Press: Close the door.
	Long Press: Restore Factory Settings  4 sec. Long Press Display Scrolls     NOTE: Restart means all settings are back to factory settings, all learning things need to be done again except the transmitter learning code. GARAGE DOOR OPENER WILL RESTART



16) PROGRAMMING INSTRUCTIONS

1. PROGRAMMING OPEN & CLOSE LIMITS



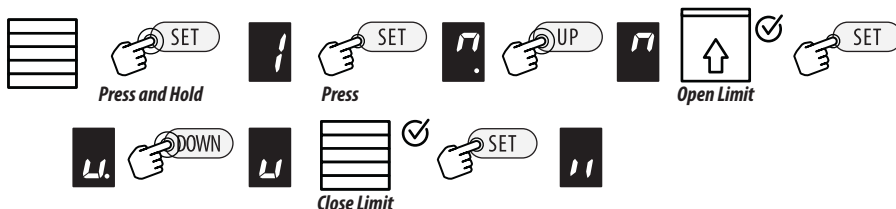
- Press and hold **SET** button to enter this function setting until "1" appears on the display then release the button.
- Press the **SET** button again. The door opener is now in Programming Mode. And then you will see "n." with dot appears on the display.
- Press and hold the **UP** button until the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

- 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.



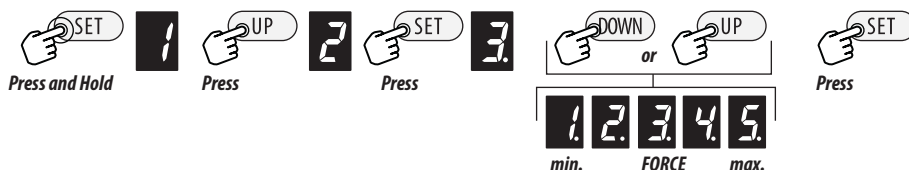
2. OBSTRUCTION FORCE ADJUSTMENT



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

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

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



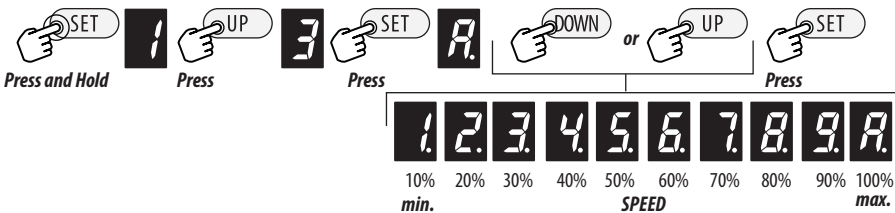
3. TRAVEL SPEED SETTING

3

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.

- 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.
- 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.
- Press the **UP & DOWN** button to choose the speed. Figure "8." means the 80% of the travel speed. Figure "A" means the full speed.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

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



4. AUTOMATIC CLOSING&TIME SETTING

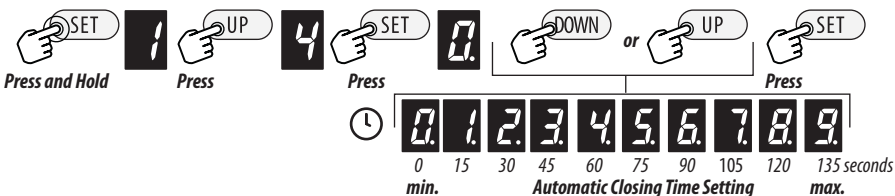
4

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

- 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.
 - 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.
 - Press **UP / Down** button once to set the auto close time (0.~9.).
 - Press **UP** button to increase the time, or **DOWN** button to decrease the time.
- The close time is 15second*N, N=0~9. The maximum time is 135s. **To disable Auto Close Function**, set time to zero (0.).
- Press **SET** button to confirm the set and it will back to **standby** status automatically and display "11".

NOTE:

- The closing time is set on "0." as standard in factory.
- 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.



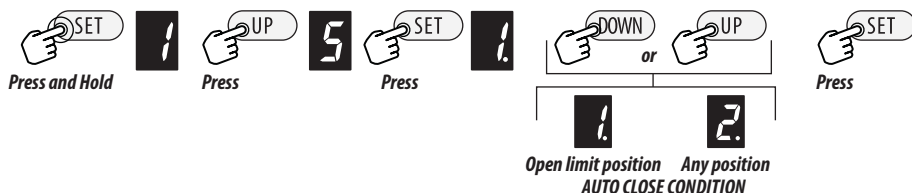
5. AUTOMATIC CLOSING CONDITION SETTING

5

- 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.
- 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.
- 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.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

NOTE:

- The closing condition is set on "1" as standard in factory.
- 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.

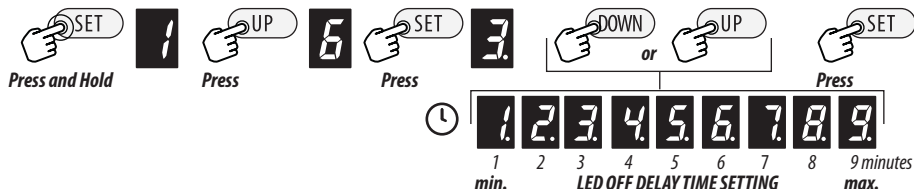


6. LED OFF DELAY TIME SETTING

6

- 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.
- 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.
- Press **UP / Down** button once to set the LED off delay time (1~9).
- Press **UP** button to increase the time, or **DOWN** button to decrease the time.
The delay time is 1 minute*N, N=1~9. The maximum delay time is 9 minutes.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

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

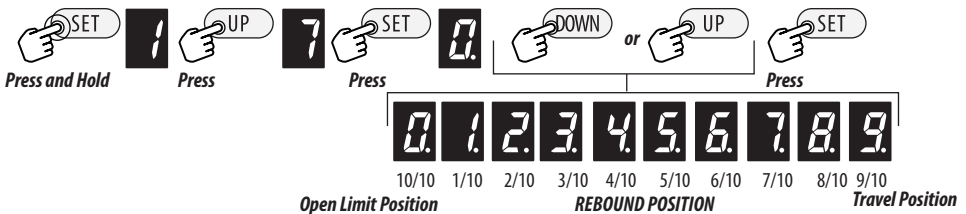


7. REVERSAL HEIGHT SETTING

7

- 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.
 - 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.
 - Press **UP / Down** button once to set the reversal height while closing (0.~9.).
 - 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...
- 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.



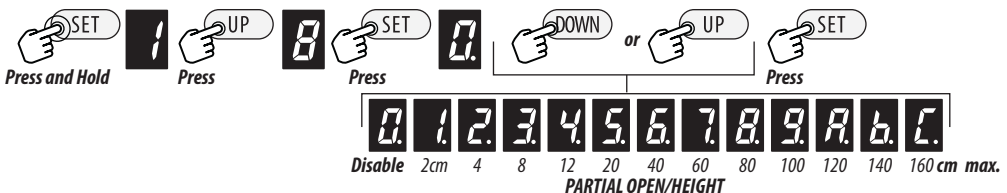
8. PARTIAL OPEN/HEIGHT SETTING

8

- 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.
- 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.
- Press **UP/Down** button once to select if you want to open the partial open function or set the partial open height. (0.~C.). Press **UP** button to increase, or **DOWN** button to decrease.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "II".

NOTE:

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



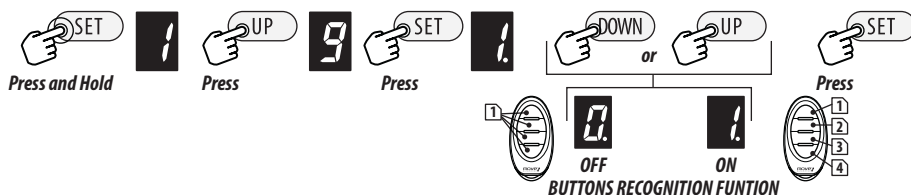
9. TRANSMITTER BUTTONS RECOGNITION FUNCTION SETTING

9

- Press and hold **SET** button to enter this function setting until "9" appears on the display then release the button.
 - 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.
 - 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.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

NOTE:

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

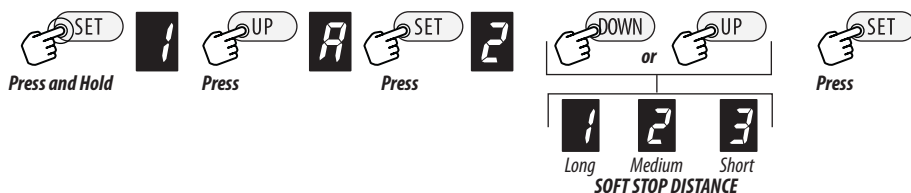


A. SOFT STOP DISTANCE ADJUSTMENT

A

- Long press the **SET** button until "1" appears on the display, and then press the **UP** button continuously until "A" is showed on the display to enter the function setting.
 - Press the **SET** button again, now you have entered the soft stop distance setting menu, and you will see the number "2" appear on the display.
 - Press the **UP/DOWN** button to select the soft stop distance, you can choose from the level "1-3", the initial default is "2", which means the soft stop distance is medium.
- The number "1" means the soft stop distance is long
 The number "2" means the soft stop distance is medium
 The number "3" means the soft stop distance is short
- Press **SET** button to confirm the setting.

NOTE: Once finished setting, you will need to relearn the door travel limits, then the soft stop distance will work with your new settings.



b. REVERSAL HEIGHT IGNORANCE SETTING

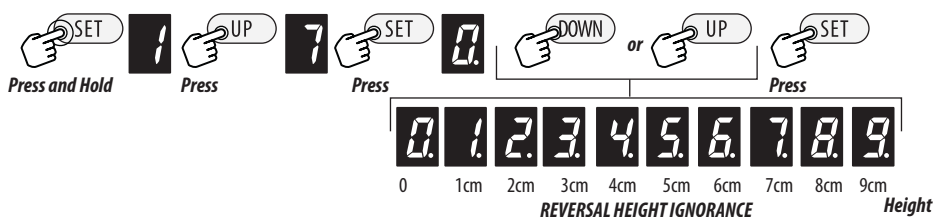


- Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "b" appears on the display to enter this function setting then release the button.
- Press the **SET** button again. The unit is now in reversal height ignorance adjustment mode. And then you will see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

- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

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

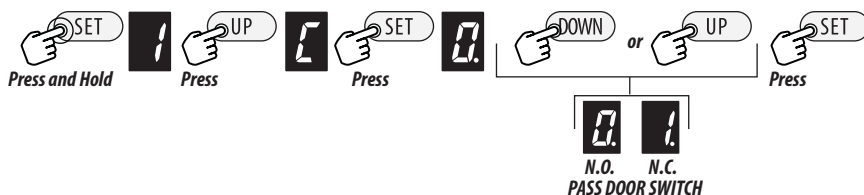


c. PASS DOOR SWITCH TYPE SETTING



- 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.
- 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.
- 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.
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

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.28, Fig.29).

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.

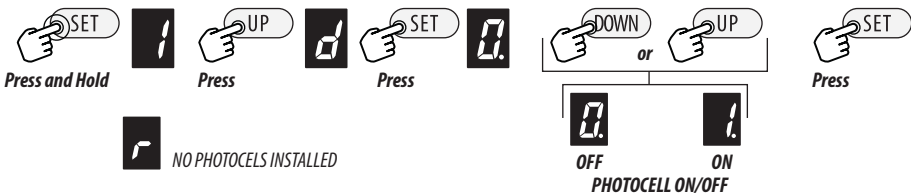
c) Press **UP** / **Down** button once to set the photo cell ON/OFF switch. You can choose "0." or "1." set.

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.



E. 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.

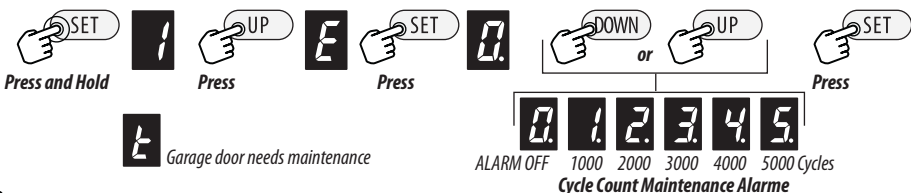
d) Press **SET** button to confirm the set and it will be back to standby status automatically and display "II".

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.



F. PROGRAMMING COMMUNITY FUNCTION

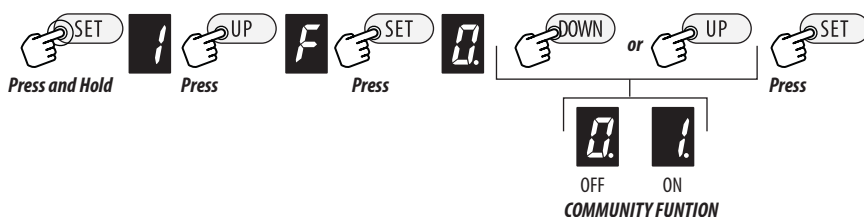


- Press and hold **SET** Button until "1" appears on the display, next short press the UP/Down Button until "F" appears on the display to enter this function setting then release the button.
- Press the **SET** Button it will display the status that you choose.
- Press **UP/Down** Button to set the condition "0.-1." you want.
- Press **SET** Button to confirm.

Figure "0." means the community function is closed, the door can stop in the any position by remote.

Figure "1." means, the community function is opened, the door can't stop in the any position by remote during opening, but the door can stop in the any position by remote during closing, and it will automatically bounce to the top.

Attention: If you are using the remote by universal receiver, it's not affected with this settings.



L. OPENING LIFTING FORCE ADJUSTMENT

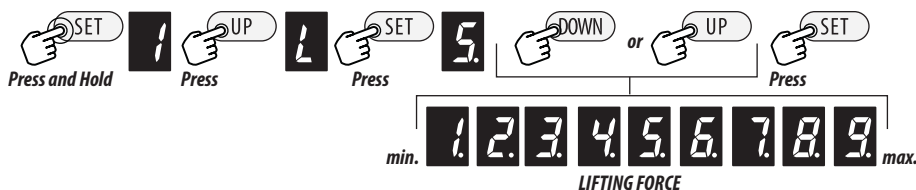


CAUTION: The opening lifting force adjustment is set automatically during programming. Normally no adjustment is necessary.

- Press and hold **SET** Button until "1" appears on the display, next short press the **UP** Button until "L" appears on the display to enter this function setting then release the button.
- Press the **SET** button again, The unit is now in opening lifting force adjustment mode. And then you will see a figure "5." with flash dot appears on the display.
- Press the **UP** button to increase the lifting force setting or the **DOWN** button to decrease the lifting force setting. The minimum lifting force is "1" and it can be adjusted upward. The maximum lifting force is "9".
- Press **SET** button to confirm the set and it will back to standby status automatically and display "11".

NOTE: The lifting force is set on "5." as standard in factory.

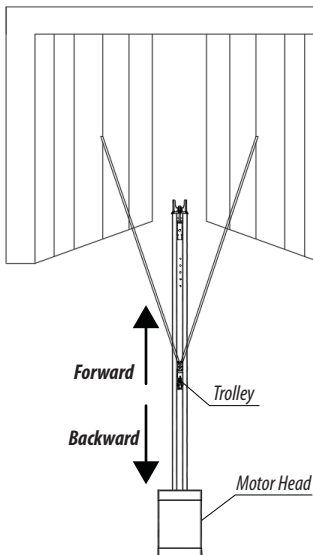
Note: The model used for this function is determined according to the actual program.



0. PROGRAMMING MOTOR REVERSAL FUNCTION



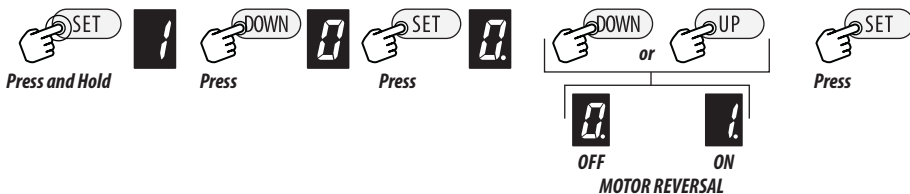
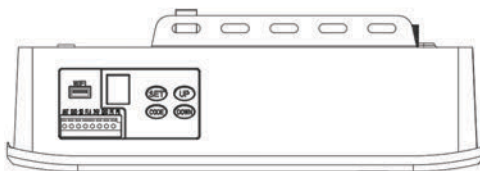
1. After you set this function, the swing door will open outwards. When you open the door, the trolley will move forward. When you close the door, the trolley will move backwards.



For multiple function motor:

- Press and hold **SET** Button until "1" appears on the display, next short press the **DOWN** button to choose the "0" function.
- After short press **SET** button, the display will show "0.", and the red dot in the lower right corner is flashing.
- Next, short press **UP/DOWN** button to choose the function "0" or "1", "0" is as standard in factory default, the motor reversal function is closed. "1" means the motor reversal function is open, the door will move backward.
- Then short press **SET** Button to confirm the function you need.

Remark: You need to reset the travel limit after you choose this function.



17) TERMINAL INTRODUCTION AND APPLICATION

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 NO contacts (Fig. 29)

PHOTO BEAM CONNECTION (optional)

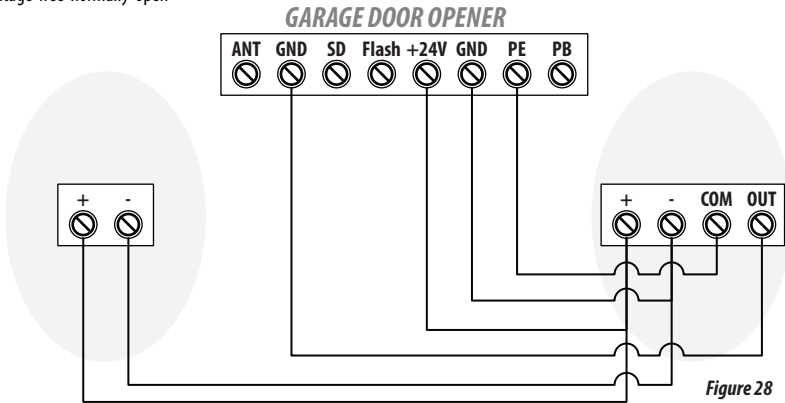


Figure 28

Remark:

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

Other terminal introduction and application

1. The O/S/C interfaces available. (Fig. 29)

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

2. Flash light function. (Fig. 30, Fig. 31)

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

3. Pass door (SD) protection (Fig. 30, Fig.31)

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.31)

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.

SWITCH CONTROL CONNECTION (optional)

GARAGE DOOR OPENER

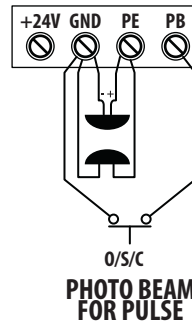


Figure 29

FLASH LIGHT FUNCTION (optional)

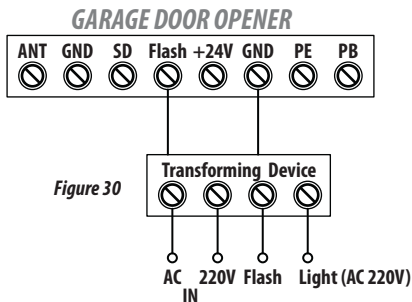


Figure 30

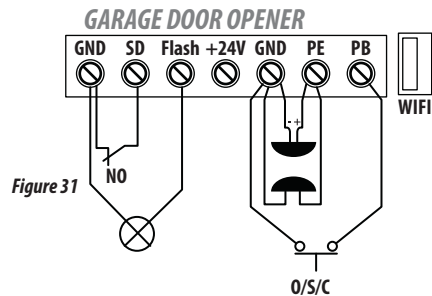


Figure 31

18) 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.

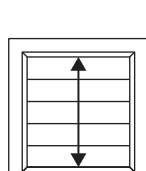
3. Regarding the maintenance alarm function:

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.

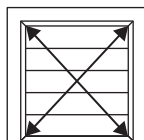
19) TECHNICAL SPECIFICATIONS

FORCE ⁺	FS 600	FS 1000	FS 1000 speed	FS 1200
Input voltage	220 - 240V / 110 - 127V, 50-60 Hz			
Max. pull force	600 N	1000 N		1200 N
Max. door area	10 m ²	15 m ²	12 m ²	18 m ²
Max. door weight (Balanced)	100 Kg	150 Kg	120 Kg	180 Kg
Max. door height	2400 - 3500 mm			
Drive mechanism	Chain / Belt			
Opening / Closing speed	160mm/Sec C Rail 190mm/Sec- T Rail		200mm / Second	160mm/Sec C Rail 190mm/Sec- T Rail
L.E.D.	24V / 15pcs LED bulbs			
Limit setting	Electronic			
Transformer	Overload protection technology			
Radio frequency	433.92 MHz or 868.35 MHz			
Coding format	Rolling code (7.38 x 1019 Combinations)			
Status display transmitter	2 x			
Code storage capacity	50 different codes (Subject to the actual)			
Caution light terminal	Included			
Working temperature	-40° - +50°			
Safety protection	Soft start & Soft stop, Photo cell option, Caution light option			
Protection level	IP20			



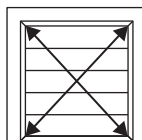
Standard door height: 2400mm
Maximum door height: 3500mm

FS 600



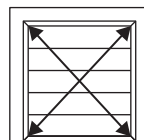
Rated door area:
≤ 10.0m²

FS 1000



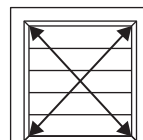
Rated door area:
≤ 15.0m²

FS 1000 speed



Rated door area:
≤ 12.0m²

FS 1200



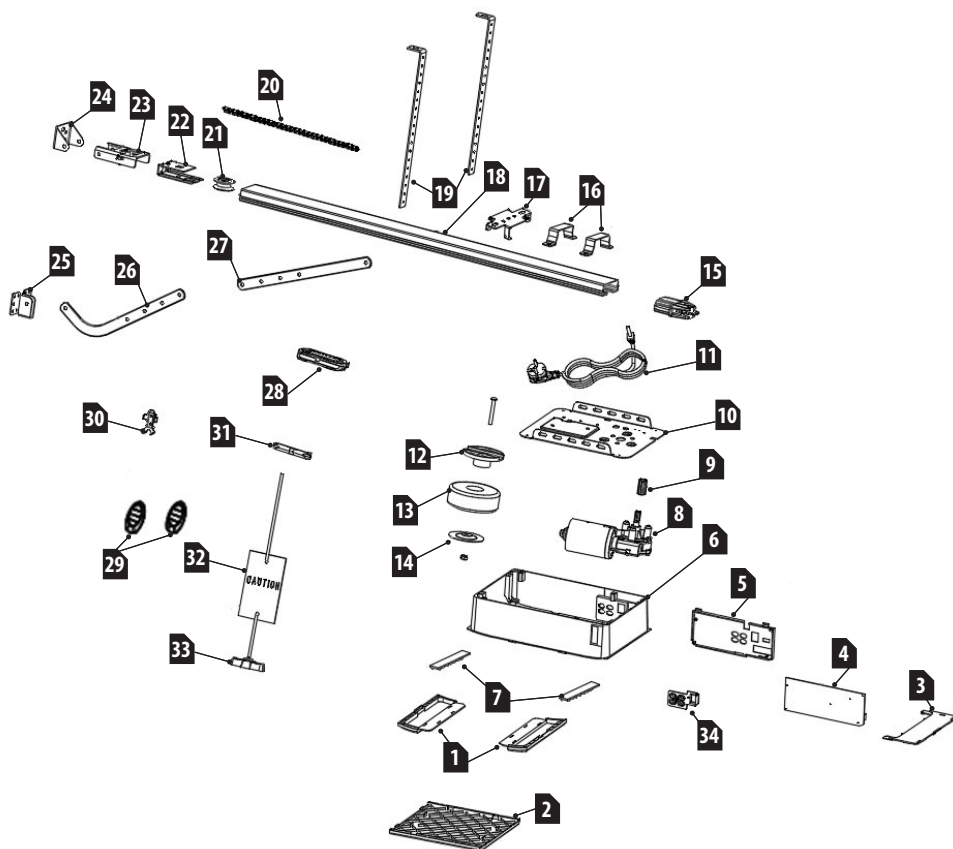
Rated door area:
≤ 18.0m²

Rated door area: ≤ 15.0m²

Rated door area: ≤ 18.0m²



20) PARTS LISTING FOR C-RAIL OPENER

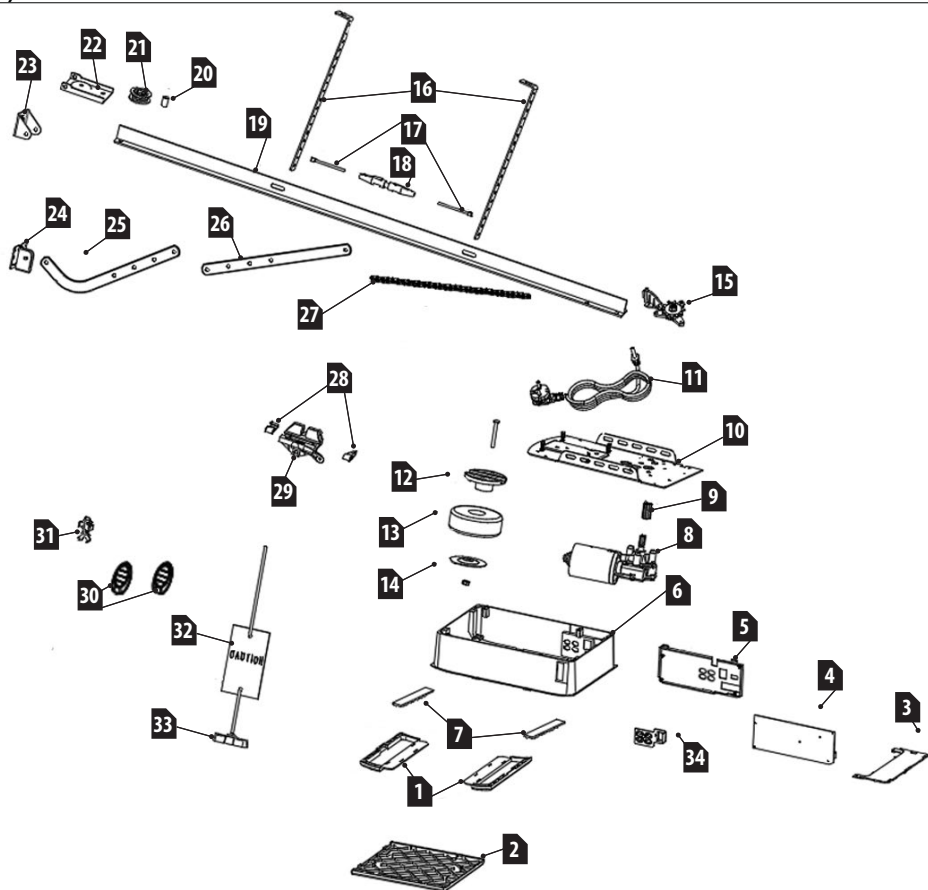


Iten	Qty	Description
1	2	L.E.D. cover
2	1	Top cover
3	1	Plastic base
4	1	Support bracket
5	1	PCBA
6	1	Motor Cover
7	2	L.E.D light
8	1	DC gear motor
9	1	Motor shaft sleeve
10	1	Steel bottom base
11	1	Power wire

Iten	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

Iten	Qty	Description
23	1	Track ending bracket
24	1	Wall bracket
25	1	Door bracket
26	1	Bent arm
27	1	Straight arm
28	1	Trolley assy
29	2	Transmitter
30	1	Transmitter bracket
31	1	Chain / Belt connection
32	1	Caution card
33	1	Release handle
34	1	Silicone button

21) PARTS LISTING FOR T-RAIL OPENER



Iten	Qty	Description
1	2	L.E.D. cover
2	1	Top cover
3	1	Plastic base
4	1	Support bracket
5	1	PCBA
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

Iten	Qty	Description
12	1	Transformer plate
13	1	Transformer
14	1	Metal gland for transformer
15	1	Sprocket bearing base
16	2	Mounting bracket
17	2	Threaded shaft
18	1	Chain connector
19	1	T Rail - steel
20	1	Pivot pin
21	1	Chain wheel
22	1	Track ending bracket

Iten	Qty	Description
23	1	Wall bracket
24	1	Door bracket
25	1	Bent arm
26	1	Straight arm
27	1	Chain
28	2	POM protective cover
29	1	Trolley assy
30	2	Transmitter
31	1	Transmitter bracket
32	1	Caution card
33	1	Release handle
34	1	Silicone button



21) COMMON FAULT & SOLUTIONS

FAULT APPEARANCE	FAULT CAUSE	SOLUTIONS
No any working for openers LCD screen is not bright	1. Power supply 2. Plug wire is loosing	1. Check whether the motor socket is energized 2. Check whether Fuse tube is broken 3. Check whether the low-voltage wire of transformer is connected to the power board 4. 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
Digital display ; Opener does not work or stop working 	Unstable voltage or door lost balance	1. Check the power supply 2. Adjust the door balance
Opener is not working Digital display 	Fail to learn the up and down limit setting Improperly learn the up and down limit setting	Learn "UP" and "DOWN" limit traveling again follow the manual
LED is always on	The control panel is broken or the power supply board is broken	Replace the control board or power board.
When open the door by remote, opener stops automatically after running 10cm Digital display 	Hall sensor wire is loosed or damaged	Open the cover, check the Hall sensor wire, re-plug or replace.
Opener does not work. Hear the relay 'kaka' sound Digital display 	The wire between gear motor and board is loosing	Open the cover and check the wire between gear motor and board.
Opener stops automatically after running 10cm Digital display 	The wire between gear motor and board is plugged inversely	Power off firstly, open the cover and reverse the plug wire between gear motor and board. Re-set limit traveling.
Door is up moving only. Do not work in down moving and the Digital display 	Photo cell function has been effective but without connecting any photo cell device.	Turn off the photo cell function if there is no any photo cell device connected. (Refer the instruction manual) Check if the photo cell is connected correctly, or if there is any obstruction between the photo cell.
The door is fully open, automatically close after some time LED lights flash 4 times	Automatic closing function is turned on	Set the automatic closing time, or turn off the automatic closing function. (Refer the instruction manual)
When the door stops, the caution light is always on	The power board is broken	Replace the power board
LED lights do not work	1. The LED wire is not plugged 2. The LED is broken 3. The circuit board is broken	1. Check the LED wire 2. Replace the LED 3. Replace the circuit board
Door is automatically reversed to the upper limit before the door closed completely	In operation with automatic reverse function The door is not installed correctly There is some block on its moving	1. Check the block position of the door and re-set the limit traveling 2. Increased force number for automatic reverse

FAULT APPEARANCE	FAULT CAUSE	SOLUTIONS
Door automatically stops while opening	In operation with automatic protect function when obstruction is detected The door is not installed correctly There is some block on its moving	1. Check the block position of the door and re-set the limit traveling 2. Increased force number for automatic reverse
The remote control cannot be used or the operation distance is short	1. Flat battery 2. Antenna is loosed or not well extended 3. Interference around nearby	1. Replace new battery 2. Extended the antenna on the opener 3. Get rid of interference
Cannot code in the new remotes	New remote control is not compatible with opener	Choose our remote control only
Digital display 	Stored remote code is full	Delete all stored codes (Refer the instruction manual)
Standby, Digital display 	Door in door function effects	Check the door in door switch
The opener is working while the door is not moving	Motor shaft sleeve worn	Replace the motor shaft sleeve
The battery do not supply power	1. Flat battery 2. The battery wire is plugged inversely 3. The battery wire is broken	1. Charge the battery 2. Open the cover, check "+" "-" of the battery 3. Replace the battery wire
Other abnormal issues	External devices is not compatible with the opener	Remove all the external devices. If the abnormal issues still exist, replace the circuit board
Digital display 	The Garage door system need maintenance	The garage door and motor need total maintenance

DECLARAÇÃO DE CONFORMIDADE UE

ES. Declaración de Conformidad UE
EN. Declaration of Conformity EU
FR. Déclaration de Conformité UE

move[®]
automation



A Portas Arcuense, Lda, situada em Parque Empresarial de Padreiro, Rua de Paul, nº411, 4970-500 Arcos de Valdevez, declara por este meio que o produto abaixo descrito se encontra, devido à sua conceção e tipo de construção, assim como na versão por nós comercializada, em conformidade com os requisitos relevantes básicos de segurança e saúde da directiva CE. Esta declaração perde a sua validade no caso de uma alteração ao produto não acordada connosco.

ES. Portas Arcuense, Lda, con sede en Parque Empresarial de Padreiro, Rua de Paul, nº411, 4970-500 Arcos de Valdevez, declara que el producto descrito a continuación es, por su diseño y tipo de construcción, así como en la versión comercializada por nosotros, de conformidad con los requisitos básicos de salud y seguridad pertinentes de la directiva CE. Esta declaración pierde su validez en caso de cambio del producto no acordado con nosotros.

EN. Portas Arcuense, Lda, located in Parque Empresarial de Padreiro, Rua de Paul, nº411, 4970-500 Arcos de Valdevez, hereby declares that the product described below is, due to its design and type of construction, as well as in the version marketed by us, in compliance with the relevant basic health and safety requirements of the EC directive. This declaration loses its validity in the event of a change to the product not agreed with us.

FR. Portas Arcuense, Lda, situé dans le Parque Empresarial de Padreiro, Rua de Paul, nº411, 4970-500 Arcos de Valdevez, déclare par la présente que le produit décrit ci-dessous est, en raison de sa conception et de son type de construction, ainsi que dans la version commercialisée par nous, conformément aux exigences fondamentales de santé et de sécurité de la directive CE. Cette déclaration perd sa validité en cas de modification du produit non convenue avec nous.

MOTOR PARA PORTAS SECCIONADAS E BASCULANTES

ES. MOTOR PARA PUERTAS SECCIONALES Y PUERTAS BASCULANTES

EN. SECTIONAL AND TILTING DOOR OPENER

FR. MOTEUR POUR PORTES SECTIONNELLES ET PORTES BASCULANTES

marca **Move Automation**

ES.marca
EN.brand
FR.marque

modelos **FS600 / FS1000 / FS1000 Speed / FS1200**

ES.modelos
EN.models
FR.modèles

Como tal declara-se que este equipamento cumpre com as seguintes directivas europeias:

ES.Como tal, se declara que este equipo cumple con las siguientes directivas europeas:

EN.As such, it is declared that this equipment complies with the following European directives:

FR.A ce titre, il est déclaré que cet équipement est conforme aux directives européennes suivantes:

Diretiva	ES. <i>Diretiva</i>	EN. <i>Directive</i>	FR. <i>Directif</i>	Normas	ES. <i>Normas</i>	EN. <i>Standards</i>	FR. <i>Normes</i>
2014/53/EU				ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03) EN 55032:2015/A 11 :2020 EN 55035:2017/A11 :2020 ETSI EN 300 220-1 V3.1.1 (2017-02) ETSI EN 300 220-2 V3.1.1 (2017-02) EN 50663: 2017 EN 62479: 2010 EN 62368-1:2014+A11: 2017		LCS210422136AE-CE-RED certificate	
2006/42/EC				EN 15194: 2017 EN ISO 12100: 2010			LCS210422137AS-MD certificate
2014/30/EU				EN 55014-1: 2017 EN 55014-2: 2015 EN IEC 61000-3-2: 2019 EN 61000-3-3: 2013+A1: 2019			LCS210422138AE-EMC certificate
LVD 2014/35/EU				EN 60335-1: 2012+A11: 2014+A13: 2017+A1: 2019+A14: 2019+A2:2019 EN 60335-2-103: 2015 EN 62233			LCS210422139AS-LVD certificate

Arcos de Valdevez, 14/04/2021

O Representante legal
ES.El representante legal
EN.Legal Representative
FR.Le Représentant légal



Mário César de Amorim Pereira





CERTIFICADO DE GARANTIA

ES. CERTIFICADO DE GARANTÍA
EN. WARRANTY CERTIFICATE
FR. CERTIFICAT DE GARANTIE

NOME ES. NOMBRE EN. NAME FR. NOM

MORADA ES. DIRECCIÓN EN. ADDRESS FR. ADRESSE

PAÍS ES. PAÍS EN. COUNTRY FR. PAYS

CONTACTO TELEFÓNICO ES. CONTACTO TELEFÓNICO EN. PHONE CONTACT FR. CONTACT TÉLÉPHONIQUE

ASSINATURA E CARIMBO DO INSTALADOR
ES. FIRMA Y SELLO DEL INSTALADOR
EN. INSTALLER'S SIGNATURE AND STAMP
FR. SIGNATURE ET TAMPON DE L'INSTALLATEUR

/ /

GARANTIA E RESPONSABILIDADE: O uso e manutenção correcto do automatismo são fundamentais para que a garantia seja válida. A garantia tem um período de dois (2) anos para utilizadores residenciais e de um (1) ano para utilizações industriais/comerciais ou condomínios.

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