Sectional And Tilting Door Opener Installation Instructions and User Guide
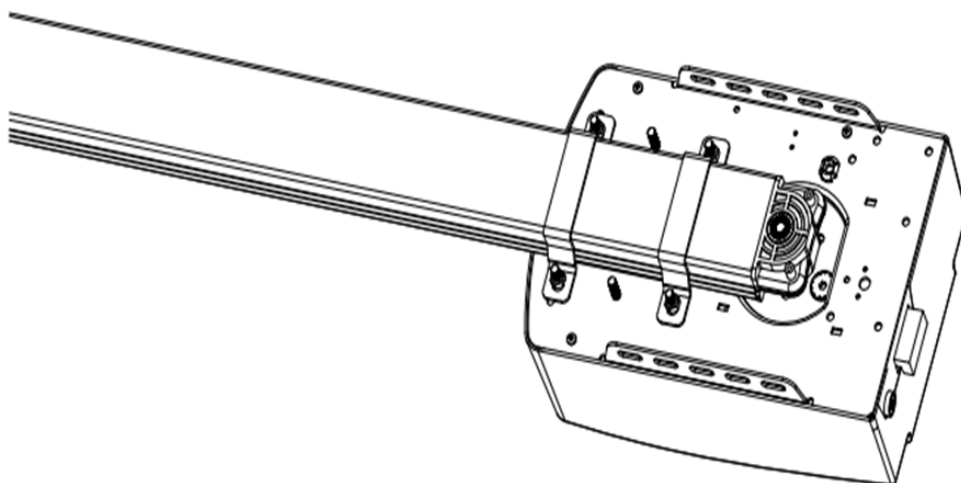
D-FORCE 1200PD   1200N

S/N	

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 qualifications may result in severe personal injury, death and/or property damage.

CONTENTS

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 the 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 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 the 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.

PRODUCT DESCRIPTION & FEATURES

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

2. **Travel speed adjustment**
   "8" appears on the display means 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-tenths 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 positions 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 button recognition function is open.

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

7. **Maintenance alarm**
   "t" appears on the display and the 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 adjusts in a suitable range.

12. **Electronic limit, simple adjustment.**
   You only need to control the limit setup from control panels to adjust it exactly, a simple and quick process for any person.

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**
   3 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 motor will self-lock with its disengagement systems.

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

18. **Transmitter technology**
   Rolling Code technology (7.38×10^{19} Combinations), 433.92 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)**
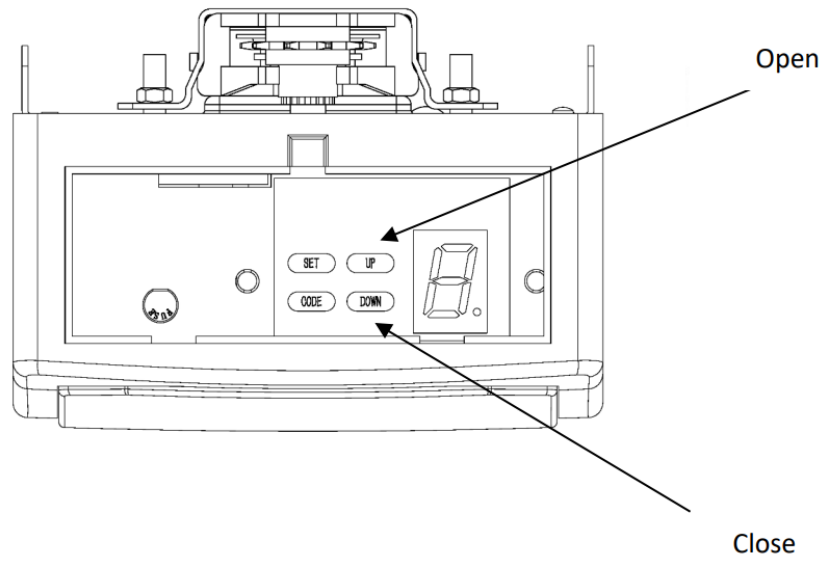
Open

Close

PRE-INSTALLATION RECOMMENDATIONS

1. A 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 the 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 recommend the fitting of Photo Electric safety beams on all installations.

30mm Minumum Clearance
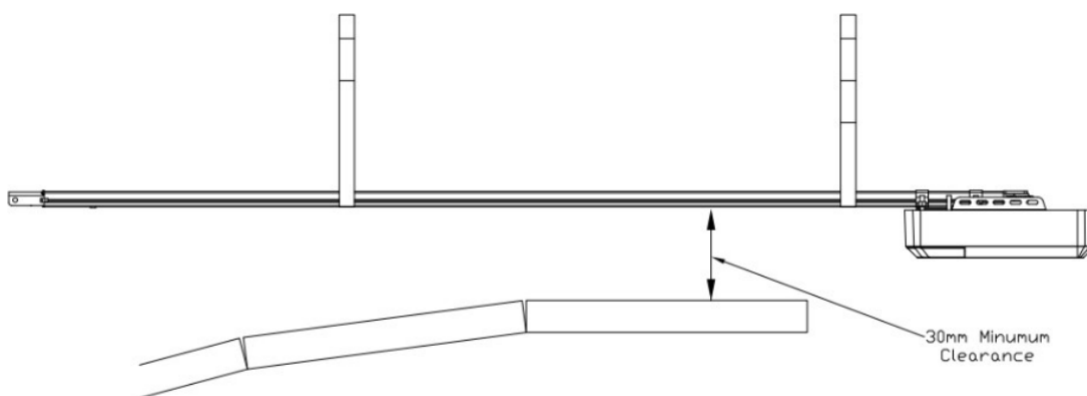
Figure 1

INSTALLATION INSTRUCTIONS
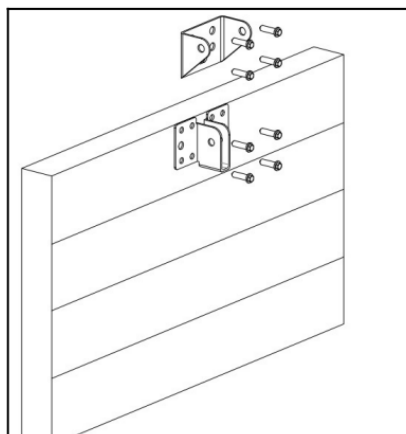
Figure 2

Wall Bracket - Close the garage door and measure the garage door width at the top and mark the center. 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.
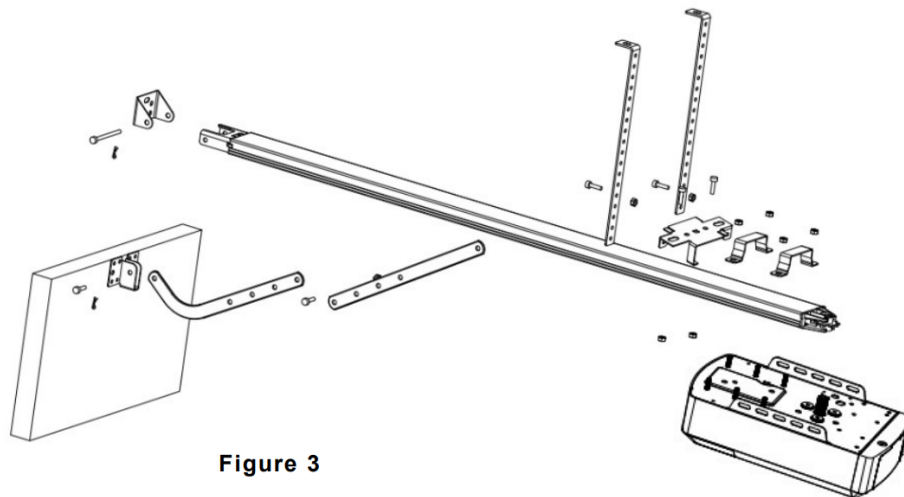
Installation (Steel Track)

Figure 3

STEP 1 (Fig.3)
Attach the opener head to the steel track. Assemble 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 the ceiling by Iron brackets 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.

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.
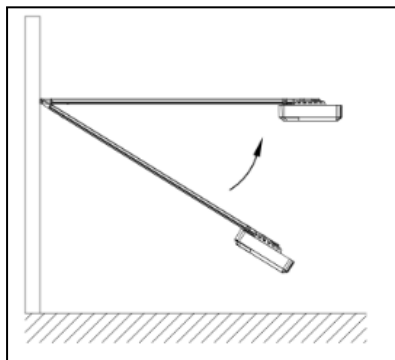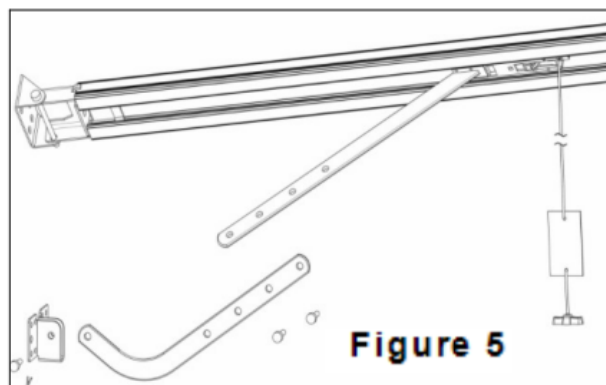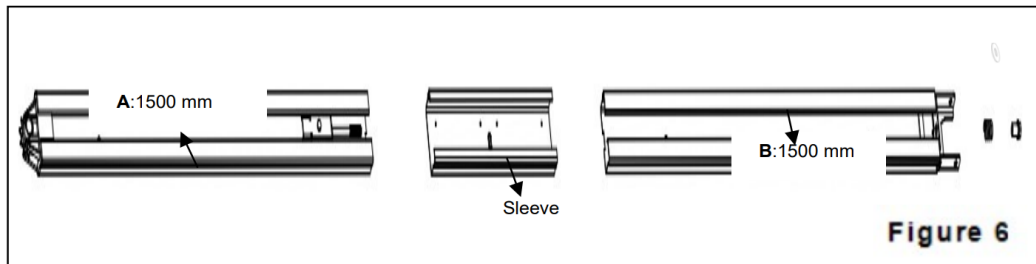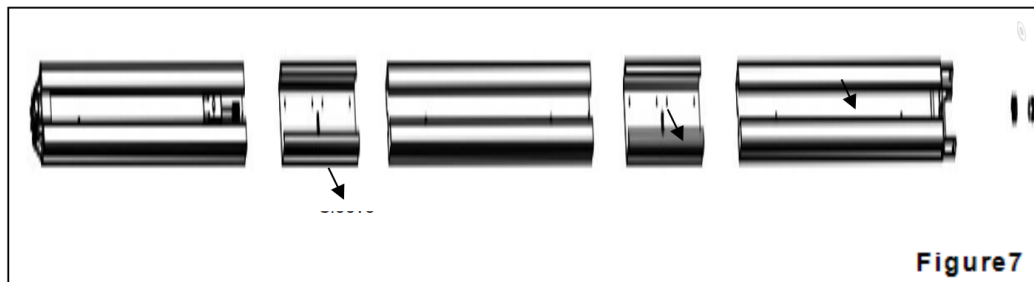

Figure 4

Figure 5

Sectional Steel Track Assembly

2 Parts Steel Track

A:1500 mm

Sleeve

B:1500 mm

Figure 6

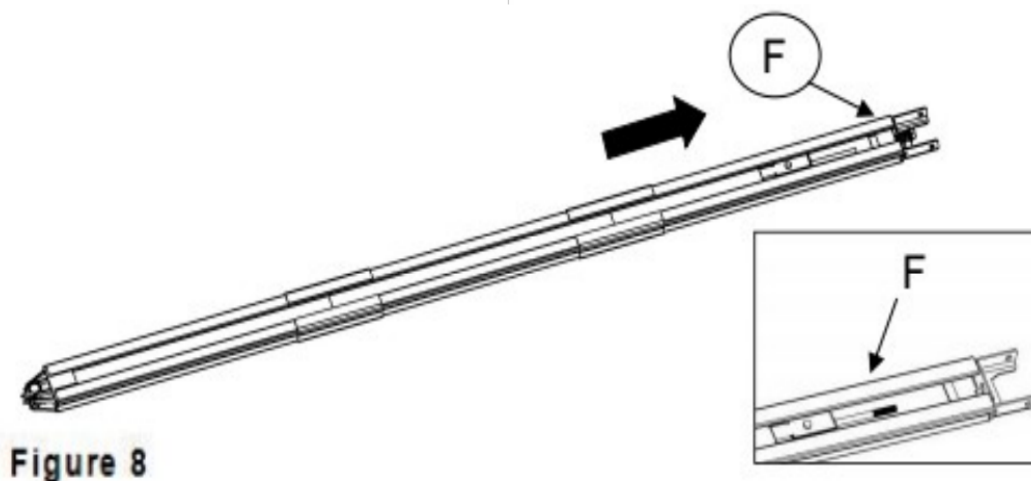*3 Parts Steel Track*

Figure7

1. **2-Parts Track:**
 As Fig.6, slide the A rail into the sleeve, and slide the B rail into the sleeve.

3-Parts 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 the inner chain to the end rail position (Fig.8)

F

F

Figure 8

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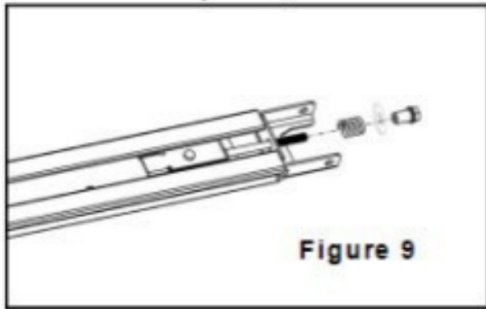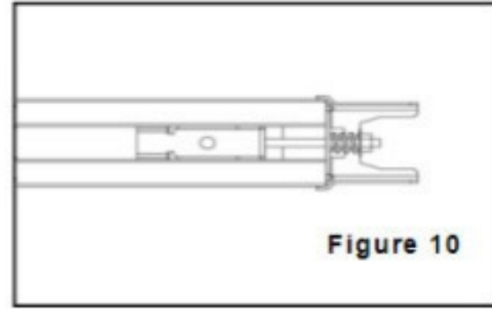
Figure 9

Figure 10

Battery backup Assembly (optional)

Option 1 - Top Fixed (For Lead-acid Battery only)

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

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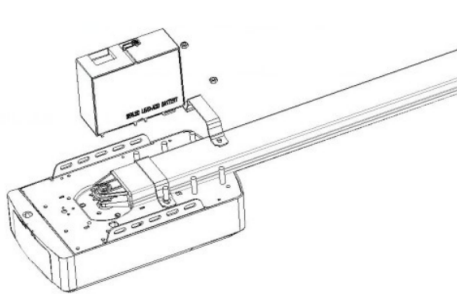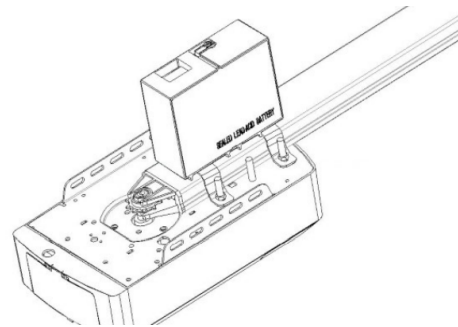Join the battery to the opener, find the Fig.12

Figure 11

Figure 12

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

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

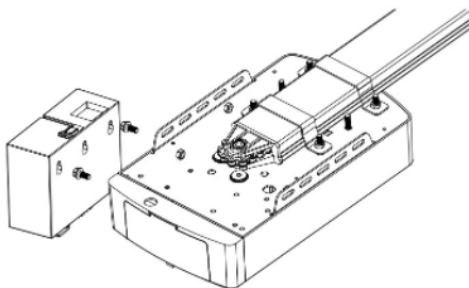**STEP 2 (Fig.14)**
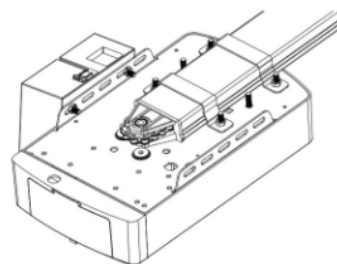Join the battery to open, find the Fig.14


Figure 13

Figure 14

DISPLAY MENU INSTRUCTIONS

FEATURES SETTINGS:

    a)   Press and hold the SET button until "1" appears on the display then release the button.

    b)   Press the UP /Down button, then it displays the number "1-E".

    c)   Press the SET button to confirm the feature you need to set, then it enters the interface for detailed setting of the appointed feature.

    d)   In the detail setting interface display "0-A" with a flash dot.

    e)   Press the UP / Down button to choose the feature you need to set.

    f)   Press SET button to confirm the settings and it will back to standby status automatically and display "ll".
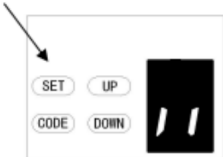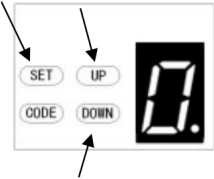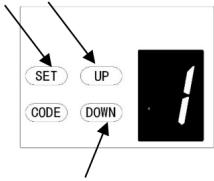
PROGRAMMING INSTRUCTIONS

Pre-Instruction for program buttons

1. Short click **SET** button**:** When it standby, it will clear the error, alarm display, and return to the normal display.
2. Short-click **CODE** button**:**
    *   (In the Setting Status) Exit the current operation and return to the standby interface.
    *   When it standby, press the code, A dot will be indicated in the corner, now entering the code learning 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, and the dot will flash, here, the code learning is finished.

3. Short press the **UP** button: The door will open.
4. Short press the **DOWN** button: The door will close.
(When the door is opening or closing, it will stop if you press any key.)

5. Long press **SET** button**:** Enter function setting interface.
6. Long press the **CODE** button: Press and hold the **CODE** button until a C is indicated on the display. All stored remotes will be deleted.
7. Long press the **UP** button: Increase the resilience. (Keep pressing the DOWN button, after 4 seconds, it will scroll to display 0-1-2, choose the number you want. 1=increase 25% 2=increase 50%)
8. Long press **the DOWN** button: Restore Factory Settings
Keep pressing the **DOWN** button, after 4 seconds, it will scroll to display, ▄▄ ▄█▄ then the garage door opener will restart.

Restart means all settings are back to factory settings, all learning things need to be done again except the transmitter code learning.
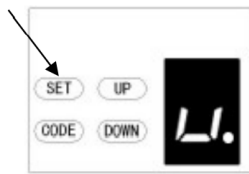
PROGRAMMING INSTRUCTIONS
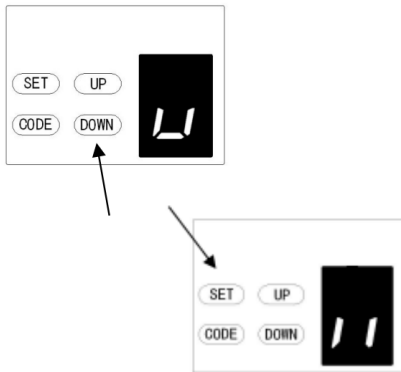
1. PROGRAMMING OPEN & CLOSE LIMITS
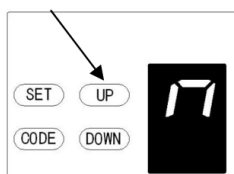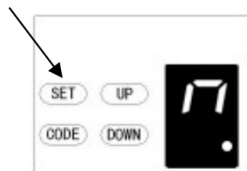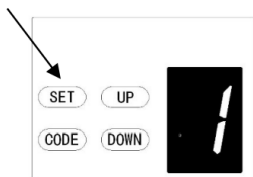
    a)   Press and hold the SET button to enter this function setting until "1" appears on the display then release the button.
    b)   Press the SET button again. The door opener is now in Programming Mode. And then you will see "n" with a dot appear on the display.
    c)   Press and hold the UP button until the door reaches the desired open position, you will see "n" without a dot on the display.
    d)   Press the SET button to confirm the open position, then you will see "u" with a 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 a dot on the display.
NOTE: For fine adjustments toggle the UP & DOWN buttons.
    f)   Now press the SET button to confirm the close position, then you will see "II" on the display. After confirming 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 opens and closes, there will be figures shown on the display (0~9), "0" means the doors are balanced, and the smaller figure means the better door balance, strongly recommend that the figure need to be smaller than the power force.
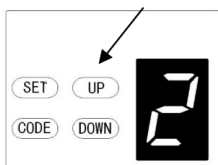
2. OBSTRUCTION FORCE ADJUSTMENT

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.
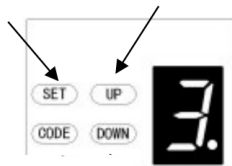
b)   Press the SET button again, The unit is now in force adjustment mode. And then you will see figure "3" with a flash dot appearing on the display.

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".

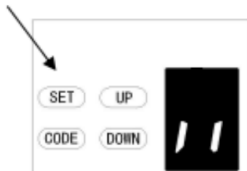d)   Press SET button to confirm the settings and it will back to standby status automatically and display "II".
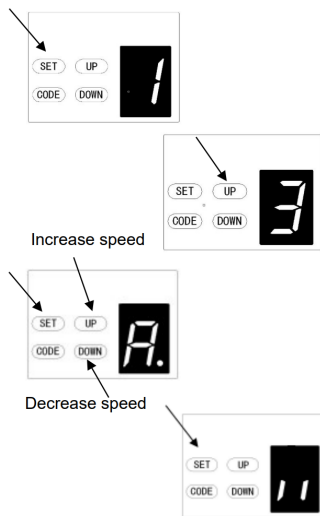
Increase force

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

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

3. TRAVEL SPEED SETTING

CAUTION: If you changed the speed 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 the letter "A" with a flash dot appearing on the display.

c)   Press the UP & DOWN button to choose the speed. Figure "8" means 80% of the travel speed. Figure "A" means the full speed.

d)   Press SET button to confirm the settings and it will back to standby status automatically and display "ll". NOTE: The travel speed is set to full speed "A" as standard in the factory.

Increase speed

Decrease speed

4. AUTOMATIC CLOSING&TIME SETTING
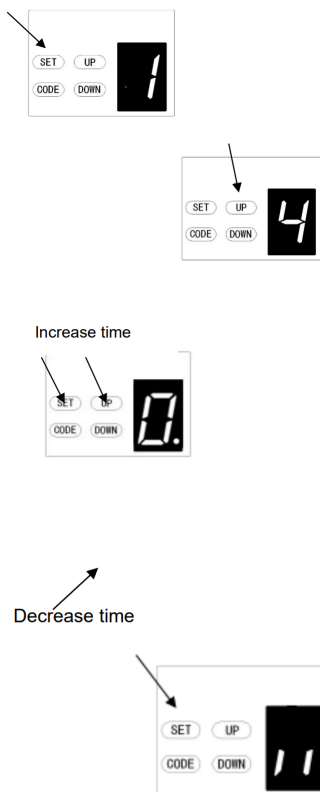
NOTE: We recommend that Safety Photo Beams be used in any installation where the Auto Close function is enabled.

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 a flash dot appearing on the display.

c)   Press the **UP** / **Down** button once to set the auto close time (0~9).

d)   Press the **UP** button to increase the time, or the **DOWN** button to decrease the time.

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

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

Increase time

NOTE:

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

2. If the Photo Cell Function is on, and it's broken by the obstruction, the auto close time will stop for a while, and then continue the automatic close time again.

Decrease time

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 figure "1" with a flash dot appearing on the display.
c)   Press the UP/Down button once to set the auto close condition. You can choose a "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 the SET button to confirm the settings and it will back to standby status automatically and display "ll".
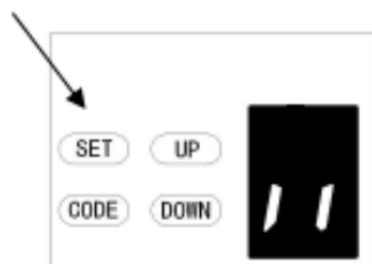
NOTE:
1. The closing condition is set on "1" as standard in the factory.
2. The door will only automatically close while in its opening process, but can't automatically close after it is stopped while in its closing process.
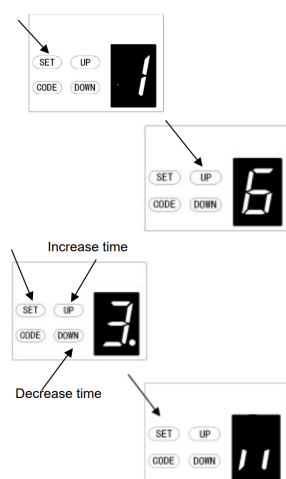
6. LED OFF DELAY TIME SETTING

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 figure "3" with a flash dot appearing on the display.

c) Press UP / Down button once to set the LED off delay time (1~9). d) Press UP button to increase the time, or the DOWN button to decrease the time. The delay time is 1 minute*N, N=1~9. The maximum delay time is 9 minutes.

d) Press the SET button to confirm the settings and it will back to standby status automatically and display "ll".

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

Increase time

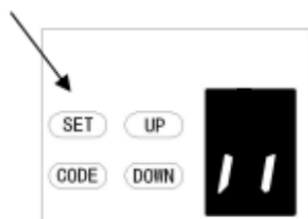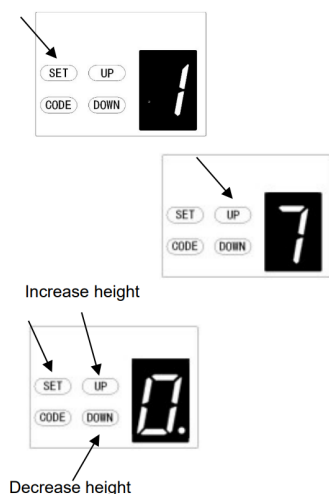Decrease time

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.
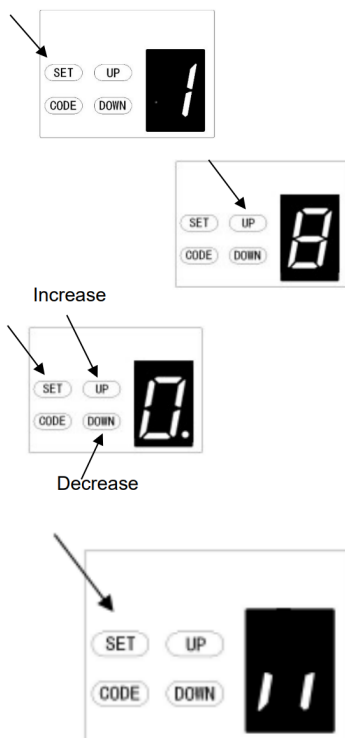
b) Press the SET button again. The unit is now in reversal height adjustment mode. And then you will see a figure "0" with flash dot appears on the display.

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...

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

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

Increase height

Decrease height

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.
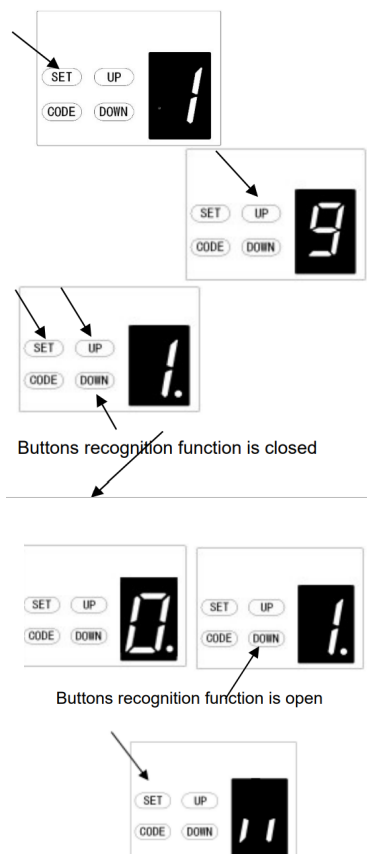
b)   Press the SET button again. The unit is now in partial-open/height adjustment mode. And then you will see a figure "0" with flash dot appearing on the display.

c)   Press UP/Down button once to select if you want to open the partial 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 "1~9" means set the partially open position of the whole travel. One-tenth to Nine tenths of the whole travel etc...

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

Increase

Decrease

NOTE:

1. The partial open/height is set on "0" as standard in the factory.

2. If you open the partial open/height function, the buttons' 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 and then disabled this function later, please notice that only the coded button you leaned, in the beginning, can control the opener now.

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 button recognition function adjustment mode. And then you will see figure "1" with a flash dot appearing on the display.

c)   Press UP / Down button once to select if you want all 4 buttons can control only one opener, or only the separate coded button can control the opener. Figure "0" means the button recognition function is closed. It means if you coded 1 button with 1 opener, then all 4 buttons on the remote can control the opener. It's suited for users who only have 1 automated door at home. Figure "1" means the button recognition function is open. If you coded the first button with first opener, then the first button will be the only button on the remote can control the opener. It's suited for users who have more than 1 automation door/gate at home.

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

Buttons recognition function is closed

Buttons recognition function is open

NOTE:
1. The button recognition is set on "1" as standard in the factory.
2. After you changed the buttons' unrecognition into recognition, please notice that only the coded button can control the opener.
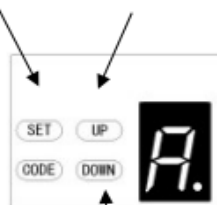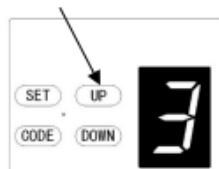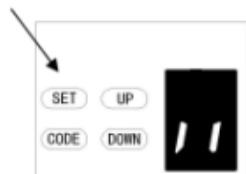
A. CODES MEMORY QUANTITY SETTING
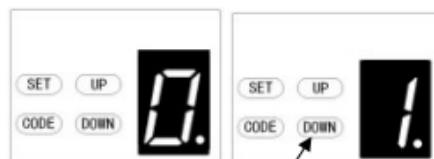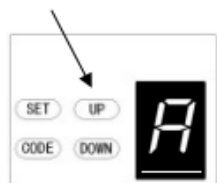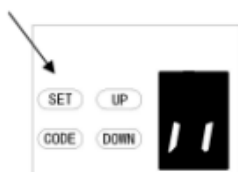
a) Press and hold **SET** Button until "1" appears on the display, next press the **UP** button until "A" appears on the display to enter this function setting then release the button.

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 a flash, a dot appears on the display.

c) Press the **UP**/**Down** button once to set the remote quantity. (A or 1~9).

d) Figure "A" means the maximal quantity of 50 pcs. Press the **UP/DOWN** button once to increase or decrease the quantity.

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

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

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

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 figure "1" with a flash dot appearing 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 the **DOWN** button to decrease. **Figure"1~9" means the door will still not rebound even though there are obstacles in its closing path within 1cm~9cm away from the close position. This function is most suitable for Northern Europe where will always be snow on the ground.**
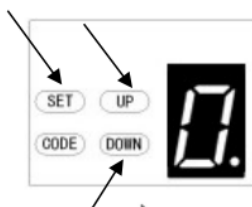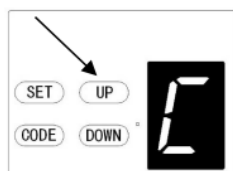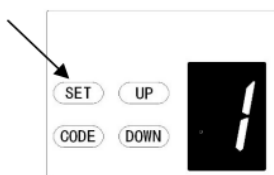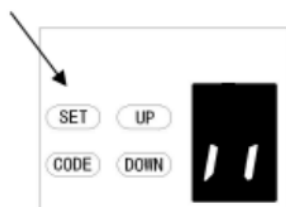
e) Press **SET** button to confirm the set and it will back to standby status automatically and display "ll".

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

Buttons recognition function is open

Increase quantity

Decrease quantity
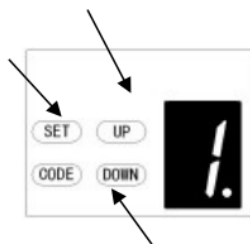
Increase height

Decrease height

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 closed.**

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

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

D. PHOTO CELL ON/OFF SETTING

NOTE: Make sure the photocell has been correctly installed and used
Normally Closed contact to the accessory terminals of the opener.

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 photocell ON/OFF adjustment mode. And then you will see a figure "0" with a flash dot appearing on the display.

c) Press the **UP**/**Down** button once to set the photocell ON/OFF switch. You can choose "0" or "1" set.
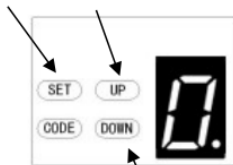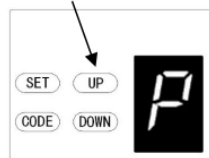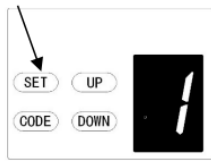
Figure "0" means the photocell function is closed.
Figure "1" means the photocell function is open.

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

NOTE: The photocell is set on "0" as standard in the 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 the garage door is 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 needs 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 "ll".

NOTE:
1. The operation cycle count is set to "0" as standard in the factory.
2. "t" appears on display and the LED light flashes 10 times quickly means the door lost balance, strong recommend maintenance for garage doors.
3. "Check" the status, or "Re-learn" the travel limit after maintenance alarm cautions.
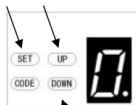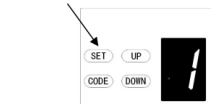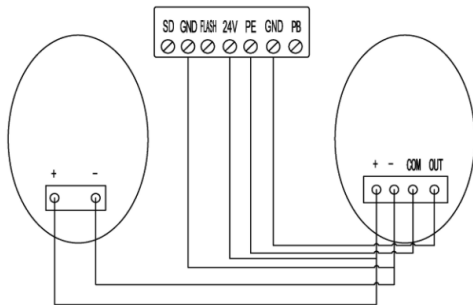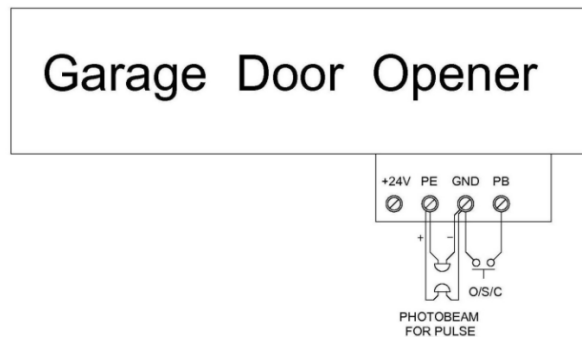
F. OPEN / STOP / CLOSE TERMINALS

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 contacts.

Photo beam connection (optional) *– Fig.15, Fig.16*
Switch control connection (optional) *– Fig.15*

Figure 15

Figure 16

Other terminal introduction and application

1. The O/S/C interfaces are available. (Fig. 17, Fig. 18)
    Add a new O/S/C button to open or close the door.
2. Flashlight function. (Fig. 17, Fig. 18)
    There are corresponding interfaces for this function that provide 24v-35v flash light voltage. Connect the flashlight with DC 24v-28v, current≤100mA. When use AC 220V power flashlights, please match an adapter and wiring as required
3. Pass door (SD) protection (Fig. 17, Fig. 18)
    This function ensures that the door can't be opened unless the small pass door is closed. The door panel won't be damaged.

Figure 17

Garage Door Opener

Flash Light

SD GND Flash +24V PE GND PB

NO   Flash

Pass-door
safety device

Photo beam
for pulse

O/S/C
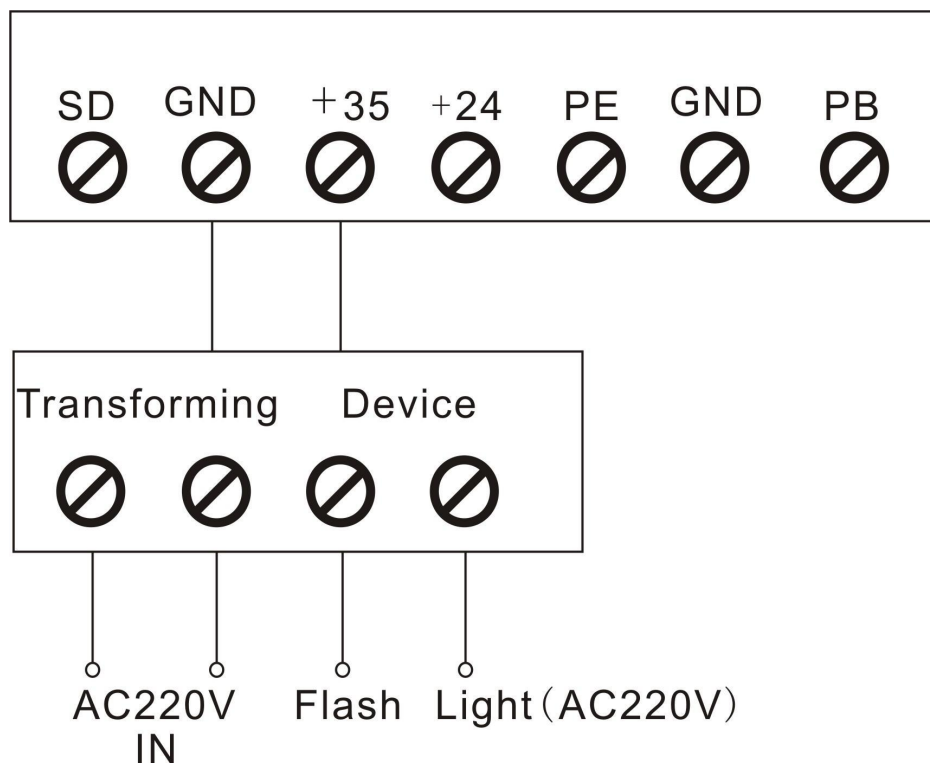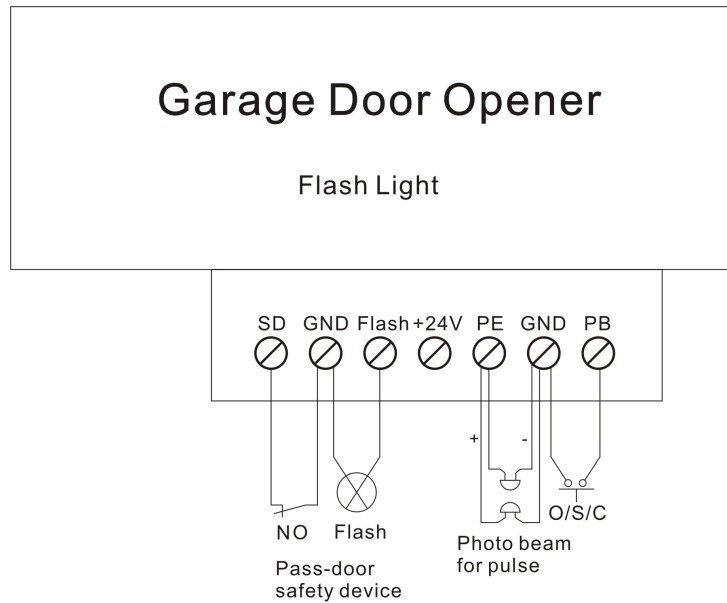
ASS. Terminal connection
Figure 18

Manual disengagement

The opener is equipped with a manual release cord to disengage the shuttle and move the door by hand while holding the handle down (Fig 19). Pull on the handle to disengage the shuttle. To re-engage the door simply run the opener in automatic mode or move the door by hand until the trolley engages in the chain shuttle.

In some situations where a pedestrian door is not in the state, it is recommended that an external disengagement device should be fitted (Fig 20)
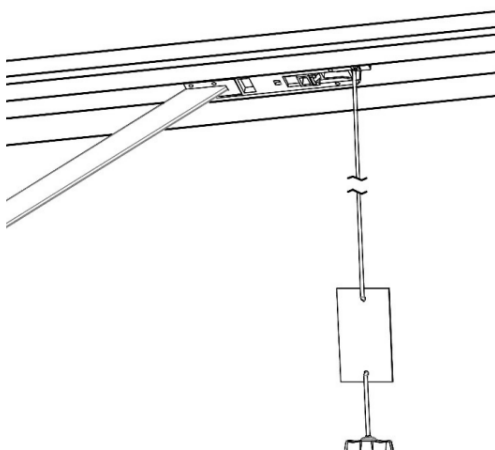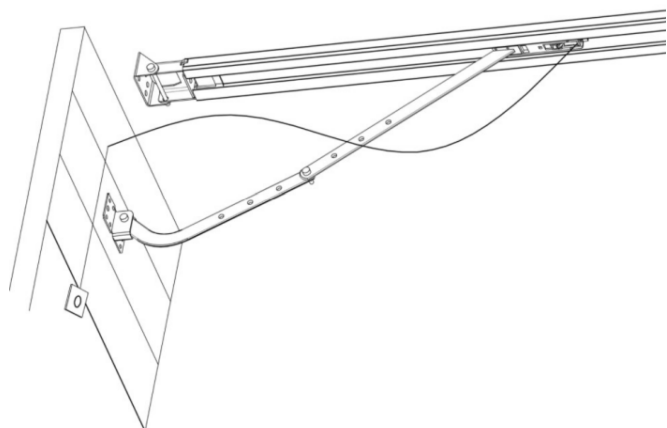

Figure 19

Figure 20

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 replacement:
 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 25 watts.
 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. Before installing a caution light, please ensure the rate is within 5 Watt.
4. Regarding the maintenance alarm function, the LED light flashes 10 times quickly means the door lost balance, strong recommend 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 void the warranty.

Technical Specifications

	D-FORCE 1200PD
Input voltage	220 - 240V/110 - 127V, 50–60 Hz
Max. pull force	1200 N
Max. door area	18.0㎡
Max. door weight (Balanced)	130kg
Max. door height	2400 - 3500mm
Drive mechanism	Chain / Belt
Opening/Closing speed	160mm / Second
L.E.D	24V / 15pcs LED bulbs
Limit setting	Electronic
Transformer	Overload protection technology
Radio frequency	433.92 MHz
Coding format	50 different codes
Status display transmitter	2 X
Code storage capacity	50 different codes

Caution light terminal	Included
Working temperature	-40℃ - +50℃
Safety protection	Soft start & Soft stop, photocell option, caution light option
Protection level	IP20

Parts Listing
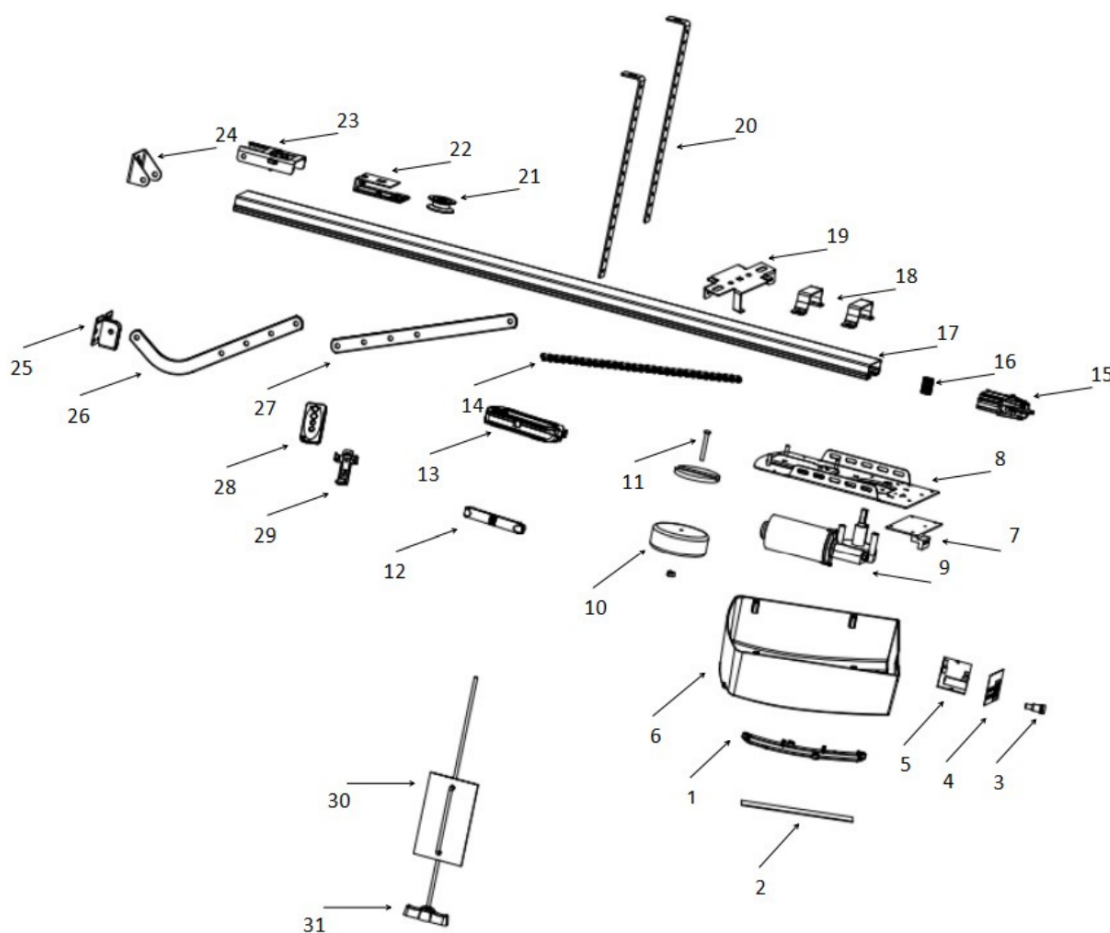
Item	Qty	Description
1	1	LED cover
2	1	LED light
3	1	FUSE
4	1	Panel label

5	1	Control board
6	1	Main cover
7	1	Power board
8	1	Steel bottom base
9	1	DC Gear motor
10	1	Transformer
11	1	Transformer plate
12	1	Chain/Belt connection
13	1	Trolley assy
14	1	Chain/Belt
15	1	Sprocket bracket
16	1	Motor shaft sleeve
17	1	C rail-steel
18	1	U handing bracket
19	1	Click bracket
20	1	Mounting bracket
21	1	Chain wheel
22	1	Wheel bracket
23	1	Tracl ending bracket
24	1	Wall bracket

Common Fault & Solutions

Fault appearance	Fault cause	Solutions
No any working for openers LCD screen is not bright	1. Power supply; 2. The plug wire is losing.	1. Check whether the motor socket is energized; 2. Check whether the Fuse tube is broken; 3. Check whether the low-voltage wire of the 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's low-voltage side, if there is 26v AC, replace the PCB. If not, replace the transformer.
Position missing	System error.	Reset the limit traveling.
While learning, the digital display	Travels less than 30cm or more than 9m.	Reset 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**	1. Fails to learn the up and down limit setting; 2. Improperly learn the up and down limit setting.	Learn the "UP" and "DOWN" to 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 remoting the door, the opener stops automatically after running the 10cm **Digital display**	Hall sensor wire is loose or damaged.	Open the cover, check the Hall sensor wire, and re-plug or replace it.
The opener does not work. Hear the relay 'kaka' sound **Digital display**	The wire between the gear motor and the board is losing.	Open the cover and check the wire between the gear motor and board.
The opener stops automatically after running 10cm **Digital display**	The wire between the gear motor and the board is plugged inversely.	Power off firstly, open the cover and reverse the plug wire between the gear motor and board. Reset limit traveling.

The 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 photocell device.	1. Turn off the photocell function if there is no photocell device connected (Refer to the instruction manual); 2. Check if the photocell is connected correctly, or if there is any obstruction between the photocell.
The door is fully open, and 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 to 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	1. In operation with an automatic reverse function; 2. The door is not installed correctly; 3. There is some block on its moving.	1. Check the block position of the door and reset the limit traveling; 2. Increased force number for automatic reverse.
Door automatically stops while opening	1. In operation with automatic protection function when an obstruction is detected; 2. The door is not installed correctly; 3. 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. The antenna is loosed or not well extended; 3. Interference around nearby.	1. Replace new batter; 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 F	Stored remote code is full.	Delete all stored codes (Refer to the instruction manual).
Standby, Digital display .	Door in door function effects.	Check the door in the door switch.
The opener is working while the door is not moving	Motor shaft sleeve is 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 are not compatible with the opener.	Remove all external devices. If the abnormal issues still exist, replace the circuit board.
Digital display L̲	The Garage door system needs maintenance.	The garage door and motor need total maintenance.