

HYDRO
QUALITY GARAGE DOORS

DiGi
QUALITY ACCESS TECHNOLOGY



digidoor  **ROLL-UP
DOOR OPENER**

Installation Instructions and User Guide

WARNING

- Please read the manual carefully prior to installation and use.
- The installation of the door opener must be carried out by a technically qualified and licensed person.
- Attempting to install or repair the door opener without suitable technical qualifications may result in property damage, severe personal injury or death.

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IMPORTANT SAFETY RECOMMENDATIONS

WARNING: Failure to comply with the following safety recommendations may result in property damage, serious personal injury or death. Please read carefully and adhere to all safety and installation recommendations.

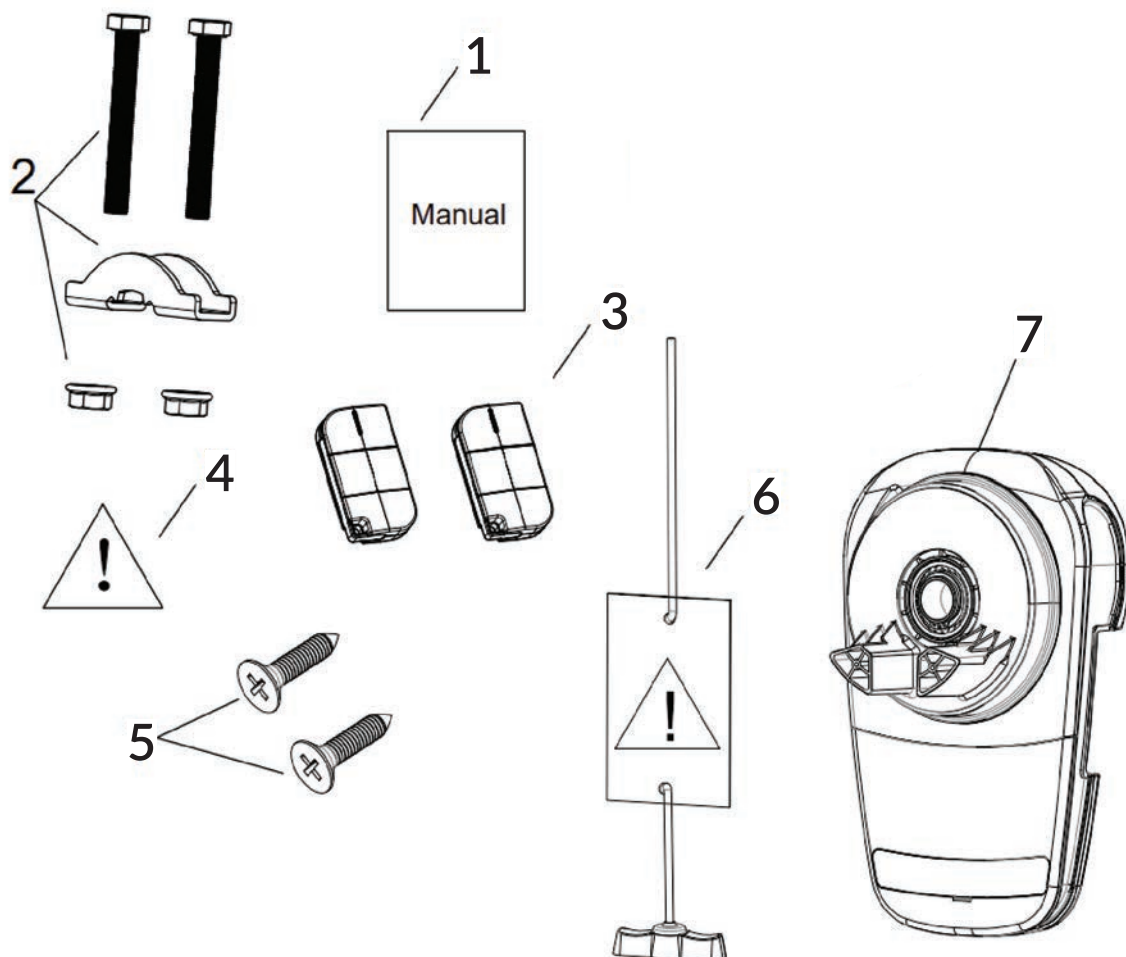
1. The opener is designed and manufactured to meet local regulations. The installer must be familiar with the local regulations required in respect of the installation of the opener.
2. Unqualified personnel, or those unfamiliar with the occupational health and safety standards applicable to automatic gates and doors, must under no circumstances carry out installations or implement systems.
3. 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 suffers as a result of the failure to install the system correctly and in accordance with the relevant safety standards and installation manual, whether directly or indirectly.
4. For additional safety, we strongly recommend the inclusion of a Photo Cell. Although the opener incorporates a pressure-sensitive Safety Obstruction Force system, the addition of the Photo Cell will greatly enhance the operating safety of an automatic garage door and provide additional peace of mind.
5. Make sure that the garage door is fully open and stationary before driving in or out of the garage.
6. Make sure the garage door is fully closed, and stationary before leaving.
7. Keep hands and loose clothing clear of the opener and garage door at all times.
8. The Safety Obstruction System is designed to work on STATIONARY objects only. Property damage, serious personal injury and even death may occur if the garage door comes into contact with a moving object.
9. 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 the person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

10. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailers for recycling advice.
11. 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.
12. Do not allow children to play with door controls, and keep remote controls away from children.
13. Watch the moving door and keep people away until it is completely open or closed.
14. Take care when operating the manual release – an open door may fall rapidly as a result of weak or broken springs, or being out of balance.
15. 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 – a fault in the installation or an incorrectly balanced door may cause injury.
16. Once a month, check that the drive reverses when the door comes into contact with a 40mm high object placed on the floor. Adjust if necessary and re-check – an incorrect adjustment may present a hazard for drives incorporating an entrapment protection system depending on contact with the bottom edge of the door.
17. Disconnect the electric power when cleaning or carrying out other maintenance.

NOTE: If your garage has no service entrance door, we recommend that an outside quick release is installed. This accessory allows manual operation of the garage door from outside in case of power failure.

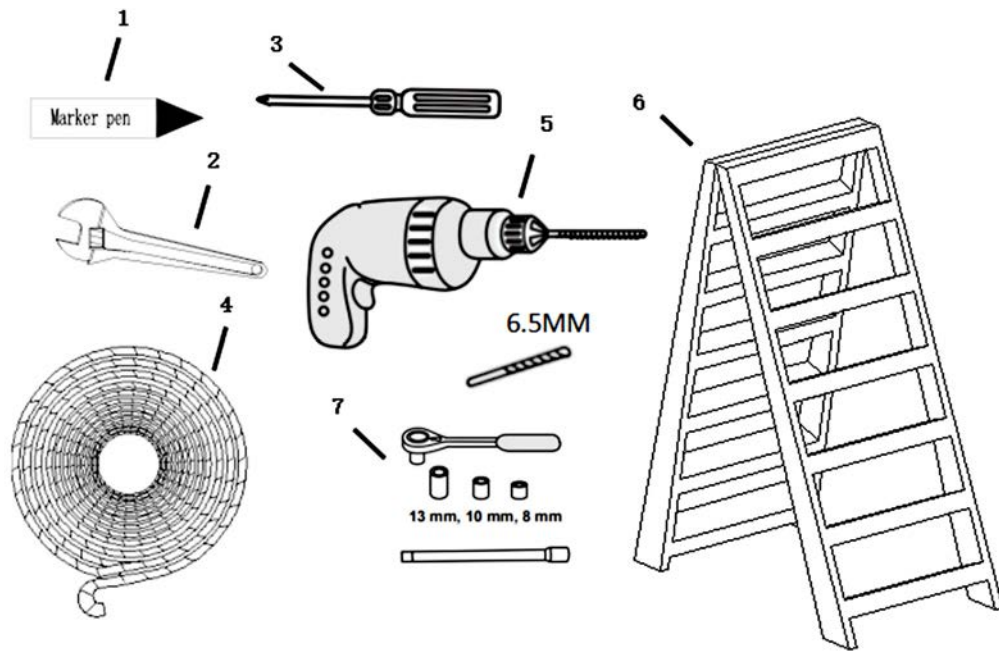
1. PACKAGE CONTENTS

1. Instruction manual
2. Clamp bracket, plates, washers (2) and nuts (2)
3. Transmitter (2)
4. Warning label
5. Self-tapping screw (2, used for fixing door curtain)
6. Release handle
7. Motor



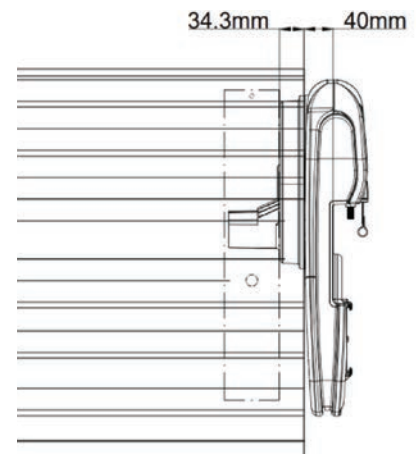
2. TOOLS

1. Marker pen
2. Adjustable wrench for U-bolts already installed on the door (2)
3. Philips-head screwdriver
4. Rope
5. Drill and 6.5mm drill bit
6. Ladder
7. 8mm, 10mm, 13mm sleeve, 300mm extension sleeve (for narrow side mounting) and socket wrench



3. DOOR REQUIREMENTS

1. Maximum door weight: 130 kg.
2. Maximum door height: 5 m.
3. Maximum curtain area: 20 m².
4. Protector System (Safety Beams) must be installed if the force at the edge of closing door exceeds 400N (40 kg).
5. Applicable to door shaft diameter range is $34^{+1}_{-0.5}$ mm / 32^{+1}_{-1} mm (Optional)
6. Ensure there is a distance of at least 40mm from the edge of the curtain to the edge of the bracket. If the clearance is small, the rolling door opener cannot be installed. Please increase the clearance before installation.

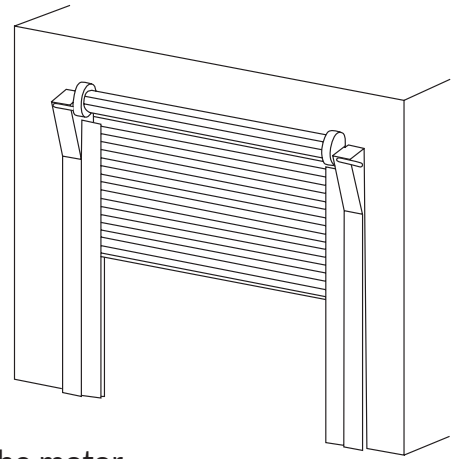


Note: Main opener body thickness: 88mm (not including wheel drum). Motor opener body thickness after lithium battery installed: 93mm (not including wheel drum).

4. PRE-INSTALLATION RECOMMENDATIONS

Please complete the following test under no other force than the torsion force of the door spring to ensure correct balance of the door:

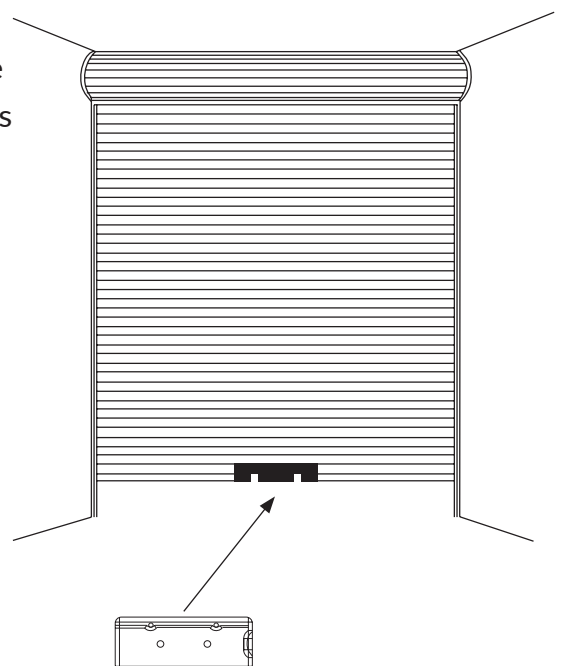
1. Raise and lower the door to determine whether there are any sticking or binding points. (20kg is the absolute maximum allowable to raise or lower the door in any position).
2. Do not lock the roller door or remove any rope connected to the roller door.
3. Lift the door about halfway up and then release it.
The door should be balanced by the spring rebound.
4. If the roller door is not correctly balanced in place, consult a qualified roller door installation technician before installing the motor.



Note: This motor should not be installed in a damp space or be exposed to the outdoors. After installation of the roller door, ensure that no part of the roller door extends over public areas or the pavement. The motor should not be installed on a roller door with a pass-door.

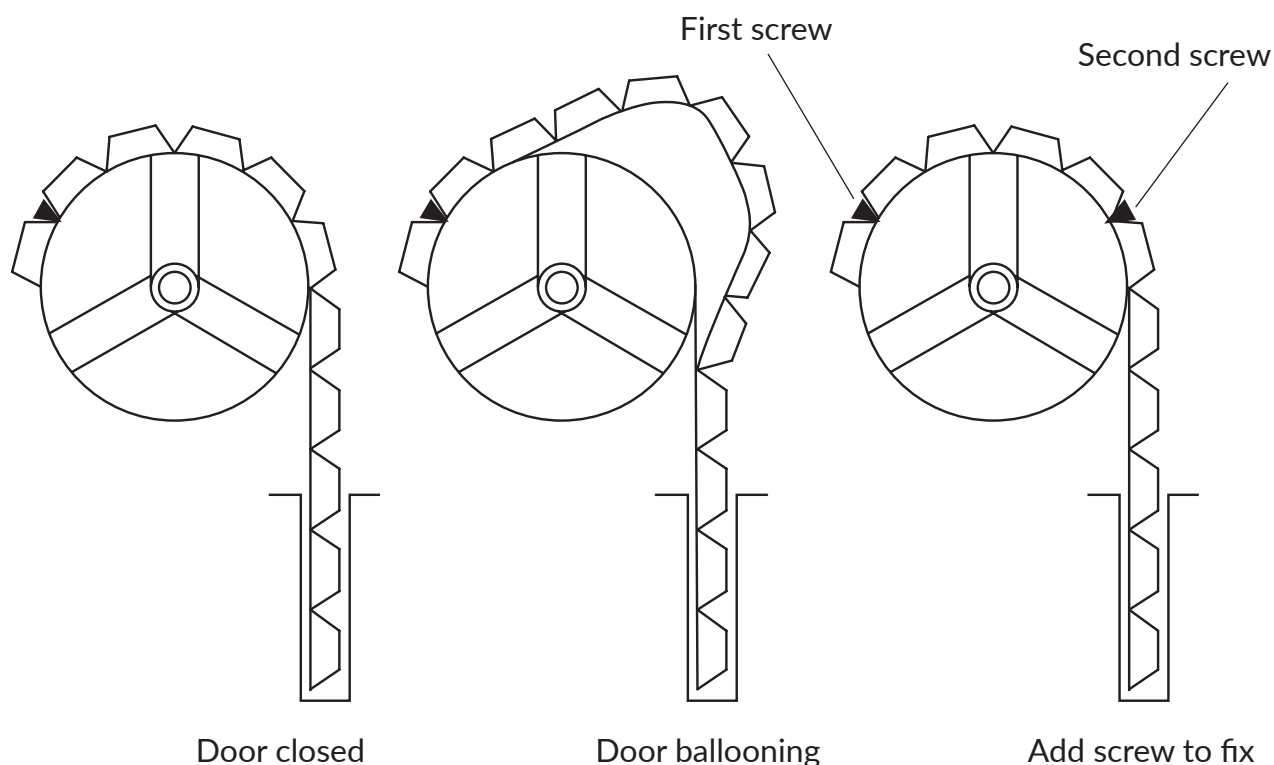
5. ATTACHING THE WEIGHT BAR

1. If the door has a lifting handle, remove the handle, nuts and bolts. Place the weight bar over the handle holes, insert the extended bolts through the weight bar, and fasten the handle back in place.
2. It is important to place the weight bar in the centre of the door as shown.
3. If the door curtain does not have a handle, place the weight bar in the middle position below the inside of the door, and use the marker pen to draw two holes through the screw holes.
4. Drill two holes with a 6.5mm drill bit.
5. Use the bolts, washers and nuts provided to fasten the weight bar in place.



6. CURTAIN FIXING (IF REQUIRED)

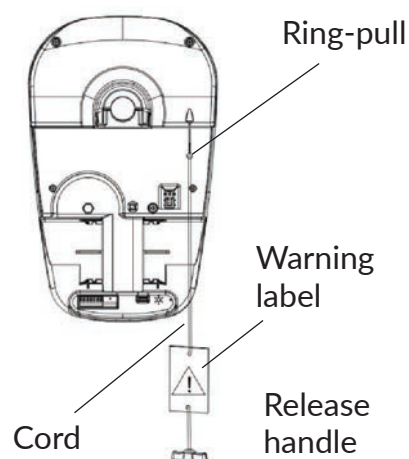
Note: Check whether the curtain and drum wheel have been fixed with at least two screws. If not, insert the supplied self-tapping metal screws where the curtain leaves the roll to prevent ballooning. Secure these through the curtain into the drum wheel at each end of the roll. First, close the door curtain under normal conditions. If there is no balloon at the top of the door curtain, fix the second self-tapping screw 33° away from the first screw position, as shown in the figure.



7. THE RELEASE HANDLE AND CORD

The manual release mechanism enables the door to be manually operated during power outages or in an emergency locking.

1. Install the provided clutch extension cord to the ring-pull of the opener, and ensure it is firm.
2. In the event of a power outage, release the handle so that the door can be controlled by hand.
3. The RED manual release cord is pre-assembled with the opener. When the opener is installed, the handle should be no higher than 1.8m from the floor. The cord may need to be extended for high door installations.

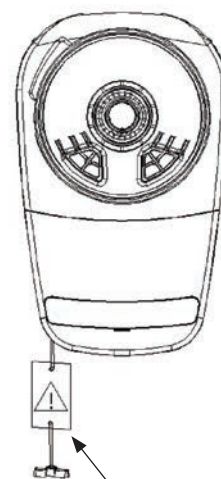


8. OPERATING THE MANUAL RELEASE

Note: Be careful when operating the clutch. If the torsion spring in the door fails, the door will instantly close when the clutch is released, which may cause personal injury and property damage.

Release the clutch: While the clutch is in the locked position, pull the clutch handle down manually. When you hear a click sound, release the clutch handle. The clutch is now released, and you can operate the door manually.

Locking the clutch: When the clutch is released, pull the clutch handle down manually. When the clutch handle is released when a click sound is heard, the clutch is locked and the door motor can be used to open and close the door.

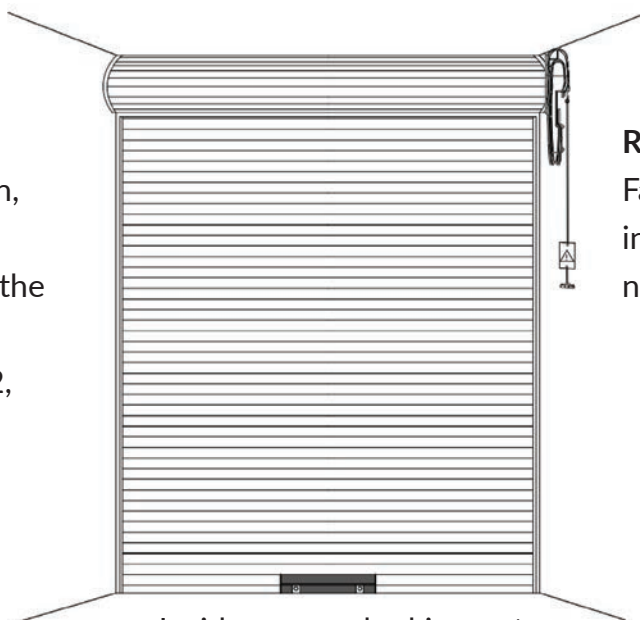


Pull down the handle

9. LEFT/RIGHT SIDE INSTALLATION

LEFT

To install in this direction, switch the installation direction before setting the function. The switching steps refer to section 12, 2-6 installation mode settings of left/right.



Inside garage, looking out

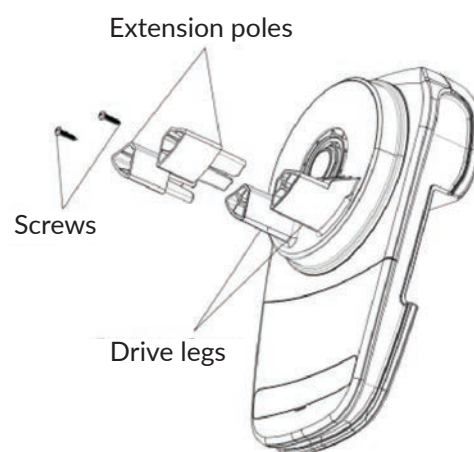
RIGHT

Factory default setting installation direction, no need to adjust.

10. ATTACHING EXTENSION BAR (IF REQUIRED)

If the drive leg does not touch the roller door and reel spokes, extension poles need to be installed:

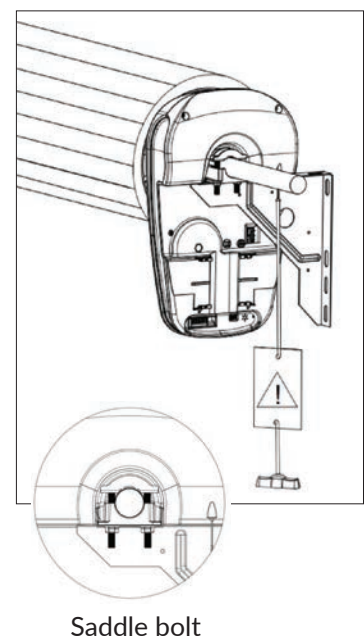
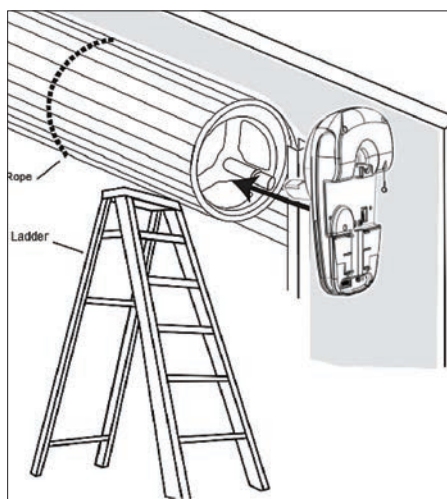
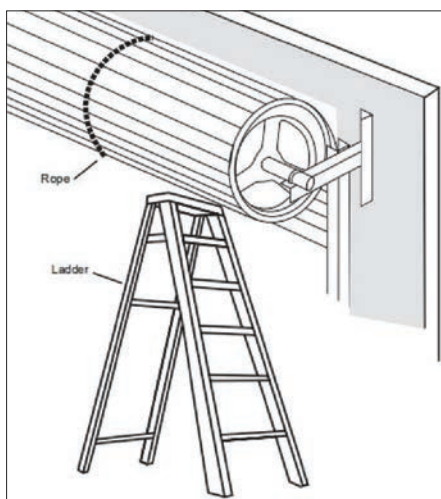
- Insert the extension poles into the drive legs.
- Align the holes on the extension poles with the holes on the drive legs.
- Using the screws provided, secure the extension poles.



11. INSTALLATION PROCEDURE

Note: The opener can be installed on either side of the door. The following instructions are for **RIGHT HAND INSTALLATIONS**.

- Ensure the saddle U-bolts at the end opposite the opener side are securely fastened.
- Completely open the roller door. Tie the safety rope in the middle of the door. Do not tie the rope too tightly, as this would damage the door.
- Mark the position of the door axle on the bracket. Use a ladder or a suitable pillar to support the roller door, then open the saddle U-bolt on the opener mounting-end side to unload the bracket
- After releasing the opener clutch, the opener sun gear assembly can rotate freely. Slide the opener over the door axle and engage the drive legs into the door drum wheel. Push the opener sun gear assembly as far as possible (without disturbing the roller door). Ensure that one of the reel spokes is completely between the sun gear assembly axle or extension poles of the opener.
- Install the bracket to replace the roller door axle in the position marked by the wall bracket for locking and fixing.
- Fix the motor to the door shaft using a saddle (preload approximately 28-30Nm).
- Remove all ropes and the support stand.
- Inspect the operation: the door, the manual lifting and lifting should operate smoothly without any obstruction, and the clutch handle should be about 1.8m above the ground.



12. CONTROL PANEL INSTALLATION MANUAL

The first startup shows FC,99-00 countdown, and the R indicator is always on after the end of the countdown.

Standby display:

1. No stroke standby display **--**
2. Motor has stroke cycle display **/ /**



Buttons instruction:

SET: Confirm enter menu settings

CODE: Code the remote/cancel code/menu setting interface exit function

UP: Open the door/stop/menu interface function option switch

DOWN: Close/stop/menu interface function option switch

L/R: Left/right installation method setting

L/R LED: LED lights up to indicate left/right installation status.

AUTO Closing: Auto closing setting (LED lights up to indicate the automatic closing function is operating).

Force Margin: Automatic reverse setting.

Quick function operation instruction

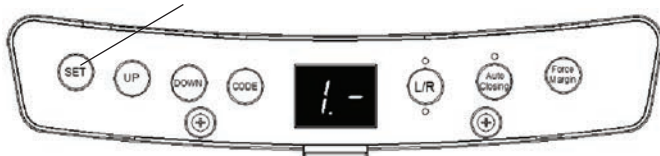
1. **Open/close control (control panel):** Click UP button (open/stop); click DOWN button (open/stop).
2. **Menu settings:** Long-press the SET button.
3. **Remote control code:** In standby status, click the CODE digital tube to display **. . .**
Enter the code checking state. Press the same button of the remote control two or three times – the two dots on the digital tube will flash quickly, then the pilot light will flash, which means the code checking was successful. (The default remote control storage quantity is 50).
4. **Clear code of remote control:** In standby status, long-press CODE until the two dots flash on the digital tube flash, **. . .** Keep pressing until the digital tube displays **[L] [L]**; when this appears, all stored remote controls will be deleted.
5. **Left/right installation settings:** Press the L/R button for 6 seconds. Release the button after switching the status of L/R LED indicator. (**Note:** Standing in the garage, looking out, the default setting is right. Every time left and right installation settings are changed, the status of the LED indicator must be adjusted).
6. **Automatic closing setting:** Click the AUTO Closing button to switch on the automatic closing function. (If the default LED light is off, automatic closing function is off; if the LED light is on, the automatic closing function is on.) The default automatic closing time is 15 seconds.
7. **Rebound setting:** Press the Force Margin button so that the digital tube displays **[L] [1]**, **[L] [2]**, **[L] [9]** in turn. Choose the right gear for the nine-gear adjustment. The factory default is **[L] [3]**, and the rebound value increases gradually from **[L] [1]** to **[L] [9]**.
8. **Restore factory settings:** Long-press the RST key for 4 seconds and the digital tube will scroll **[F] [_] [F] [_] [F] [_]** and roller door opener will restart (The learned remote control is not within the scope of factory reset).

13. FUNCTIONAL SPECIFICATIONS

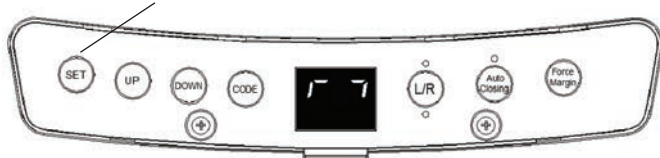
Note: Before setting the stroke, release the clutch and manually lift the door to the middle position. Once again confirm whether the left/right side of the motor is installed correctly, then lock the clutch. Locking the clutch will prevent the door body from being damaged in the process of setting the stroke as a result of incorrect installation setting of the left/right side of the motor, or the door body being in the upper/lower limit position.

Motor stroke setting 1.-

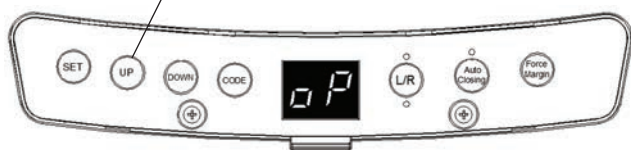
Long-press the SET button until 1.- appears on the display.



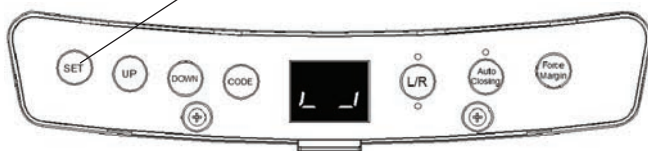
Press SET to enter the upper limit setting interface.



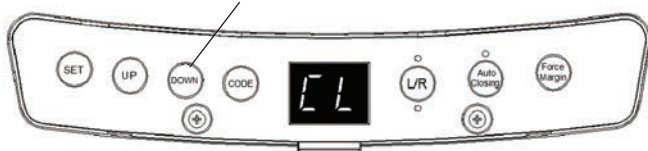
Press UP to set the upper limit – click UP or DOWN to fine tune UP and DOWN.



Once the upper limit is set, click SET button to enter the lower limit setting interface.



Press DOWN to set the lower limit – click UP or DOWN to fine tune UP and DOWN.



Once the lower limit is set, click the SET button to return to the standby interface.



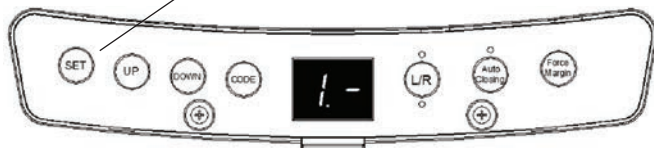
Function set limit learning

- Long-press the SET button until the digital display shows 1.-. Release button.
- Click SET to confirm, then enter limit learning mode. Digital display should show ┐┐.
- Press and hold the UP button until the digital display shows □P then open the door until it reaches the desired position. Click UP and DOWN to fine tune.
- Press SET to confirm and store the upper limit of the door. Once the digital display shows └└ press and hold DOWN button to close the door. The digital display will show └└. Close the door until it reaches the desired position. Click UP and DOWN to fine tune.
- After determining the lower limit, press the SET button to confirm the closing position.
- Once the lower limit is determined, the door will automatically return to standby display. The door will open and close the cycle, and run the full stroke once. The force value data will be learnt during the process of running the door, and the door will operate normally.

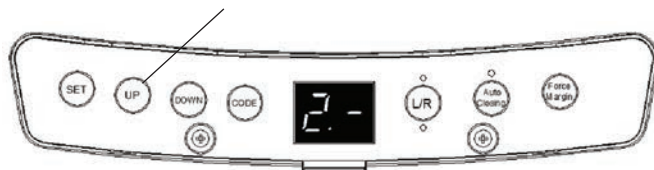
Motor slow stop function 2.-

(To reduce the impact of a sudden stop on the door body during normal operation.)

Long-press the SET button until 1.- appears on the display.



Click UP or DOWN to switch to 2.- menu option.



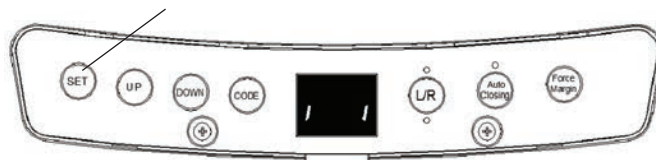
Click SET to enter the interface of speed adjustment and selection.



Example: click UP or DOWN to switch to 2.1; the motor will slow DOWN to 50% speed and stop after receiving the stop command.



Click the SET button to return to the standby screen.



Slow stop function during motor operation

Note: This function slows the motor down to a stop when the stop command is triggered to reduce the impact on the door's mechanical structure when the motor running at full speed.

- Hold down the SET button until the digital display shows 1.-, then click UP or DOWN until the display shows 2.-.
- Press SET button again and enter the sub-menu. When the digital display shows 2.0, enter the running process and stop the caching function.

- Use UP or DOWN to adjust as follows: 2.0 means that the motor stops immediately on receiving the stop command (factory default).

2.1 means that, after receiving the stop command, the motor first slows to 50% speed, then stops.

2.2 means that, after receiving the stop command, the motor first slows to 40% speed, then stops.

2.3 means that, after receiving the stop command, the motor first slows to 30% speed, then stops.

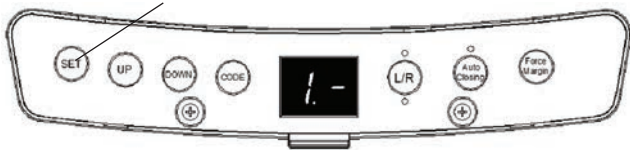
2.4 means that, after receiving the stop command, the motor first slows to 20% speed, then stops.

- Press the SET button to confirm speed selection; the controls will return to standby interface automatically.

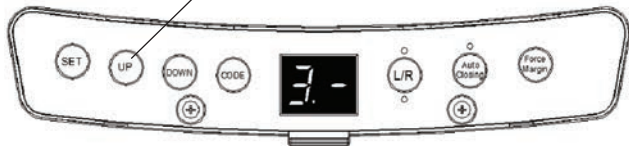
Note: The factory setting speed is 2.0 which means that when the motor receives the stop command, it will stop immediately. When this function is turned on, the remote control will trigger the opening and closing of the door, and there will be a time and distance buffer.

Automatic closing time and condition setting **3.-**

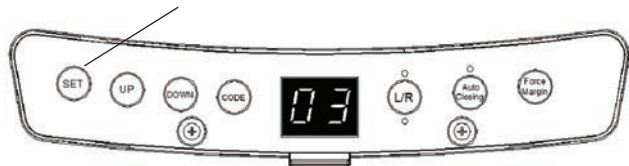
Long-press the SET button until **1.-** appears on the display.



Click UP or DOWN button to switch to **3.-** menu option.



Click the SET button to enter the interface for setting the automatic closing time (e.g., default **03** means the automatic closing time is $3 \times 5S = 15S$).

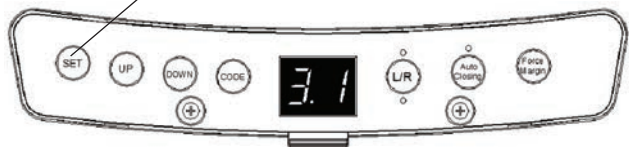


Use UP or DOWN to adjust – for example, **09** means the automatic closing time is $9 \times 5S = 45S$.



Once the automatic closing time is selected, click SET again to save the automatic closing time, and enter the automatic closing condition setting.

(Default **3.1** means automatic closing only at the upper limit.)



Use UP or DOWN to adjust – for example, switching to **3.2** means automatic closing can happen at any location.



Automatic closing function time

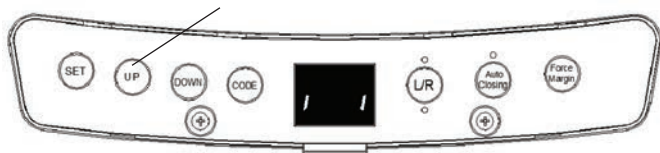
Note: AUTO closing function switch is set by AUTO Closing.

- Long-press SET button until the display shows **1.-** then press UP or DOWN until the display shows **3.-** (the automatic closing function main menu).
- Press SET to confirm and enter the sub-menu. The display will show **03**.
- Set the AUTO closing time grade from **01** to **99** by pressing UP or DOWN (5 seconds for each grade). AUTO closing time = $5S \times N$, $N=01-99$.
Maximum closing time is 495 s.
- Press SET to confirm again, then enter the menu for AUTO closing condition setting. The display will show **3.1**. Press UP or DOWN to choose between **3.1** and **3.2**.
3.1 means that the door can only close automatically while in the open limit position
3.2 means that the door can close automatically while the door is in any position.
- Press SET to confirm your selection; and return to the standby screen.

Note: The automatic closing time is set to **03** /15 seconds as standard in factory. If the Photo Cell function is active, and the door is impeded, the automatic closing function will cease for some time, before returning to its set closing cycle.

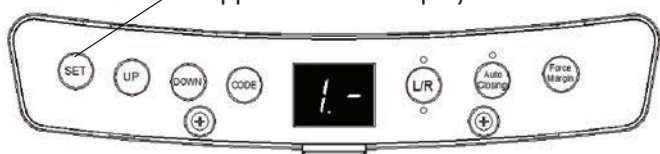
The closing factory preset is **3.1** as standard. The LED light will flash when the door is about to close. If the door is controlled by a remote or a panel during the closing process, it will no longer close automatically.

Using UP or DOWN to switch to 3.2 means automatic closing is available at any location.

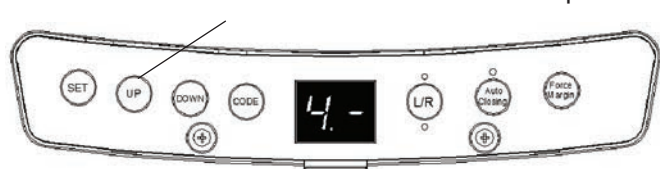


LED off delay time setting 4.-

Long-press the SET button until 1.- appears on the display.



Click UP or DOWN to switch to 4.- menu option.



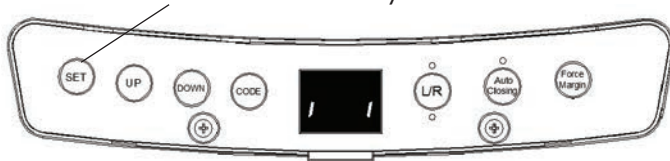
Click SET to enter the LED off delay time setting menu. (The factory standard is set to 4.3).



Click UP or DOWN to choose 4.9, for example – this means the LED off delay time is 9 * 1min = 9mins.



Press SET to confirm; the display will return to standby status.



Important: To ensure safety, the automatic closing function is recommended during the installation of infrared or Photo Cell.

LED off delay time setting

- Long-press the SET button until display shows 1.-, then press UP or DOWN until the display shows 4.-. (This is the LED off delay time setting menu.)

- Press SET to confirm and enter the sub-menu; the display will show 4.3.

- Set the LED OFF DELAY TIME grade from 4.1 -to- 4.9 by pressing UP or DOWN.

Delay time: 1min*N, N=1 to 9.

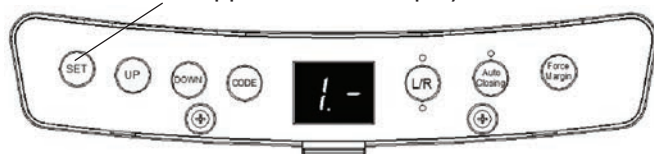
The maximum delay time is 9 minutes.

- Press SET to confirm; the display will return to standby status.

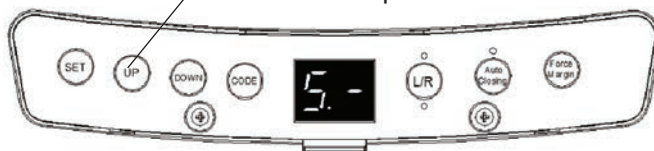
Note: The LED off delay time is set to 4.3 as standard in the factory (3 minutes).

Partial open/height setting 5.-

Long-press the SET button until 1.- appears on the display.



Click UP or DOWN to switch to 5.- menu option.



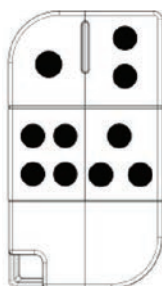
Click the SET button to enter PARTIAL OPEN/HEIGHT SETTING menu. (Factory standard is set at 5.0.).



Click UP or DOWN to switch – for example, 5.1 means the half-door position is $1 \times 10\% = 10\%$, which equals to 10% of the full stroke opening height.



Select and press SET to return to standby.



Remote button note:

The first and second button can be used in combination. The third and fourth button can be used in combination.

Partial pen/height setting

- Long-press the SET button until the display shows 1.-, then press UP or DOWN until the display shows 5.-. (This is the menu for partial open/height setting).

- Press SET button to confirm and go to sub-menu, then the display board show 5.0.

- Set the partial open/height setting grade from 5.0-to-5.9. 5.0 means close the partial open function. 5.1-to-5.9 indicate the percentages at which the door can be set to open partially.

5.1 means that the partial opening height is 10% of the entire travel distance.

5.9 means that the partial opening height is 90% of the entire travel distance.

- Press SET to confirm your selection; the display will return to standby status.

Note: The partial open/height is set on 5.0 as standard in the factory.

- There are four buttons on the remote control. When the half-door function is enabled and the first button is successfully synced, pressing it will open the door fully.

- The half-door function can only work if the position of the door body is lower than the half-door height when the half-door key of the remote control is pressed.

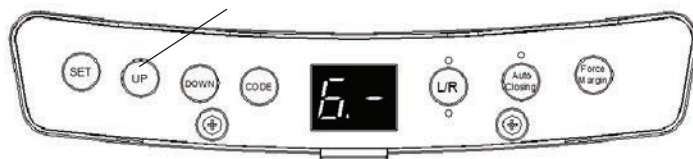
- If the auto closing setting condition is closed at any position, the remote control can be used to half-open the door. Automatic closing will resume once the countdown is complete.

Photo cell on/off setting [b.-]

Long-press the SET button until **l.-** appears on the display.



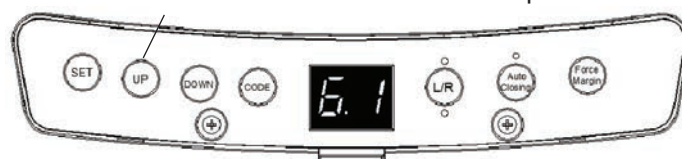
Click UP or DOWN to switch to **b.-** menu option.



Press SET to enter the PE setting option interface.
The default of **b.0** means that the PE function is closed.



For example, if a Photo Cell device is installed,
press UP or DOWN until the display shows **b.1**.
This means that the PE function is open.



Press SET to confirm; the display will automatically
return to standby status.

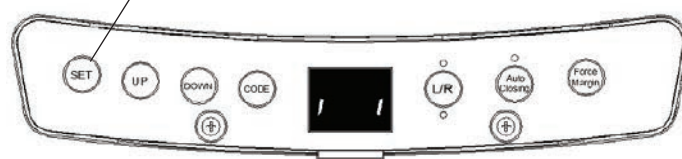


Photo cell on/off setting

Note: Our roller door opener requires the NC Photo Cell device, and must be connected to PE of the opener. Make sure the photo cell has been correctly installed, using normally closed contacts at the accessory terminals of the opener. Remember that the photo beam function must be disabled if no beams are fitted, otherwise the door will not close, and the LED display will show **EE** as an indication of an error.

- Press and hold the SET button until **l.-**, appears on the display, then press UP or DOWN until the display shows **b.-**. This is the photo cell on/off setting.
 - Press the SET button again to enter ON/OFF setting. The display will show **b.0**.
 - Press UP or DOWN button to set the photo cell function ON/OFF switch.
b.0 means that the function interface is closed. **b.1** means that the function interface is open.
 - Press SET button to confirm; the display will return to standby status.
- IMPORTANT:** The photo cell is set to **b.0** as standard, which indicates that the function is closed.

14. SAFETY REVERSE TEST

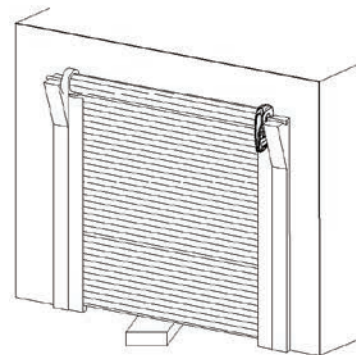
To test your door's safety rebound system:

Place an obstacle about 40mm in height on the floor under the garage door, and close the door. The door should start opening automatically when it comes in contact with the obstacle.

If the door just stops, the safety rebound system is not active.

Activate the safety rebound system and test again.

Note: if the motor is not adjusted correctly, this may cause serious injury to people or damage to objects when the garage door closes.



The height of the cushion block is 40mm

15. DESCRIPTION OF EXTERNAL PORT

Photo cell connection (optional)

1. Photo Cell device should be less than 2W.
2. PE (external port) is usually closed.

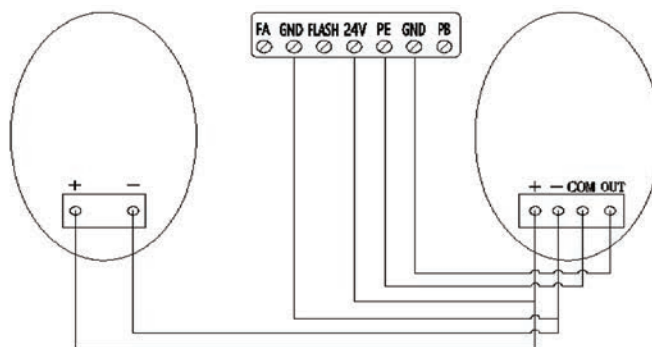


Photo cell connection

FIGURE 1

Other terminal introduction and application

1. PB interface (usually open, as shown in Figure 2) is used to add a new O/S/C button to open or close the volume door.

2. The FLASH interface is the warning light function interface.

(The wiring is shown in Figure 2.)

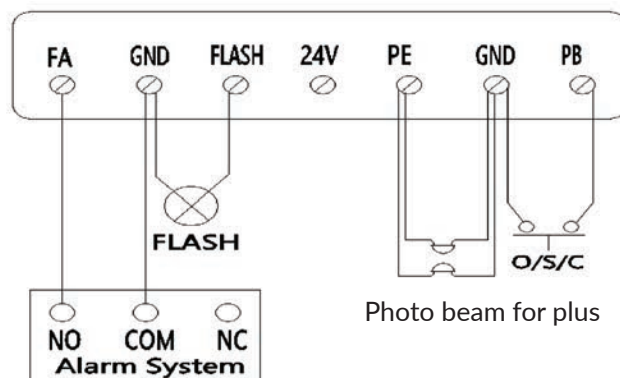
This port has provided corresponding 24V FLASH light voltage.

(Only a 24V warning light can be used.)

3. FA interface (usually open)

is the fire alarm function.

(The wiring is shown in Figure 2).



ASS. Terminal Connection

FIGURE 2

16. SPECIFICATION

Input voltage	AC220~240V/50-60Hz
Max. tension	800N @Ø300MM
Max. door size	20 m ²
Max. door load	130Kg
Max. door height	5m
Model	24V DC
Working frequency	433.92MHz/868.35MHz (optional)
Working temperature	-20°C ~ 50°C
Rated load	45Nm
Maximum chuck speed	8.5r/min
Code compatibility format	Rolling code (HCS300/HCS301 data format)

17. FAULT ALARM CODES, CAUSES AND SOLUTIONS

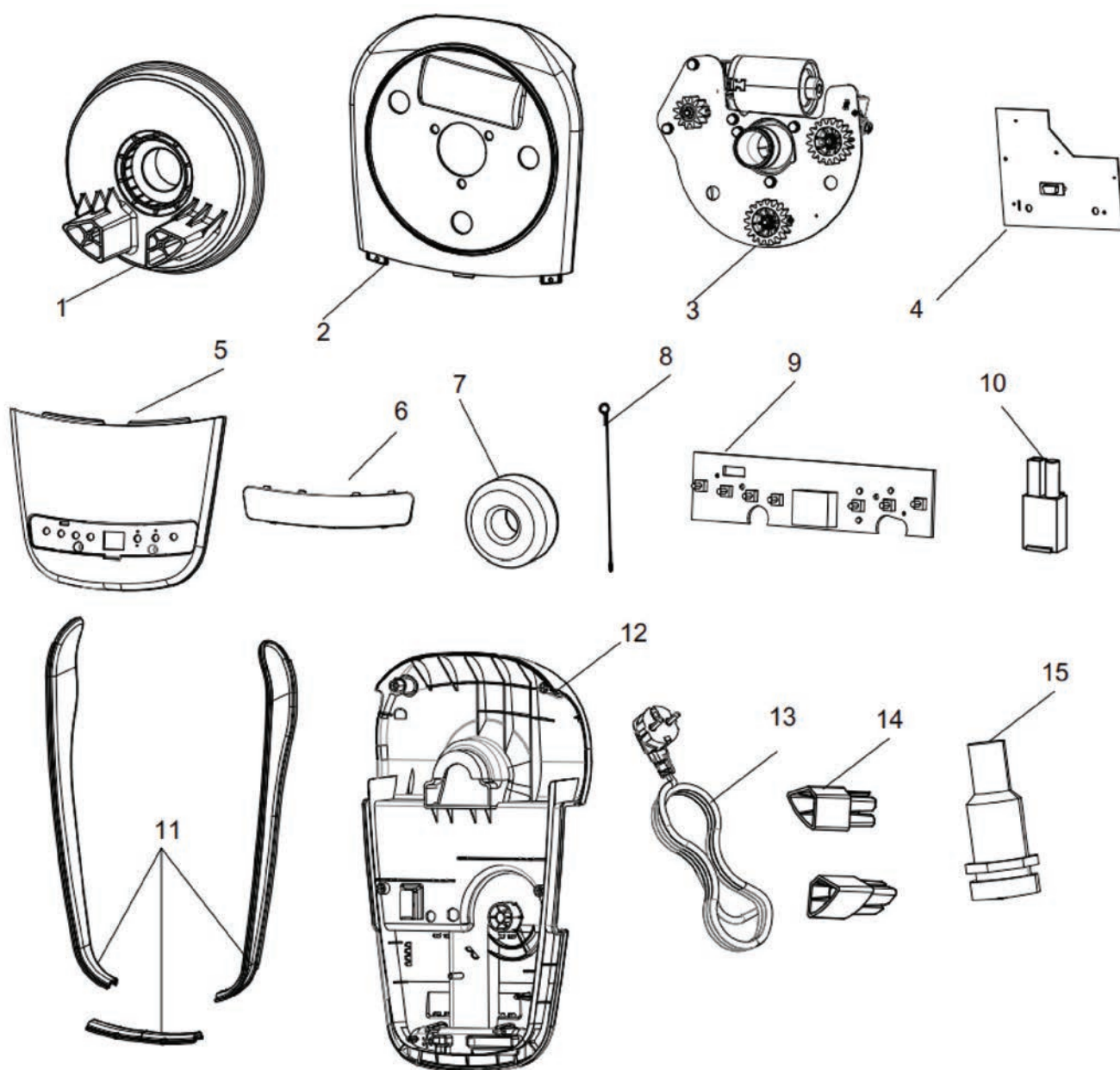
Opener running code		
Fault code	Fault description	Solutions
E0	Encoder failure.	• Replace encoder
E1	Opener running signal can't be detected.	• Check whether the connection between the limiter and the control board is loose • Check for gear motor failure • Check whether trolley assembly is loose, and lock
E2	The positive and negative terminals of the gear motor are reversed.	• Re-insert the positive and negative motor wiring correctly
E3	Insufficient opener power supply.	• Could be caused by an unbalanced door, or door not matching the opener. Doesn't affect normal use of opener.
E4	Opener overload alarm.	• Check the doors operation by disengaging the motor and ensuring the door runs smoothly. If necessary make door adjustments or discontinue use and contact support.
E5	Fire alarm function triggered.	• Reset the fire alarm.
E6	Photo Cell function triggered.	• Check whether infrared beam has line of sight. • Ensure NC connection of the port is correct.
E7	Maintenance alarm period for the door has expired.	• Call in a professional to service the door.
E8	Travel learning failure.	• Restore factory settings, and reset travelling limits.

18. COMMON FAULTS & SOLUTIONS

Fault appearance	Fault description	Solutions
Power head not working or switching on; LED screen is not bright.	• Power supply failure. • Plug wire is loose.	• Check whether the opener socket is energized. • Check whether Fuse Tube is broken. • Check whether the low-voltage wire of transformer is connected to the power board. • 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 traveling limits.
LED screen is always on.	• Control panel is broken. • Power supply board is broken.	• Replace the control board or power board.
Before closing completely, the door automatically reverses to the upper limit.	• The door is not installed correctly.	• Check the block position of the door and re-set the traveling limits. • Increase the force number for automatic reverse safety rebound.
Door stops during opening cycle.	• The door is not installed correctly.	• Check the block position of the door and re-set the traveling limits.
The remote control doesn't work or the operation distance is short.	• Flat battery. • Antenna is loose or not correctly extended. • Interference nearby.	• Replace battery. • Extended the antenna on the opener. • Eliminate interference.
Cannot code in new remotes.	• New remote control is not compatible with opener.	• Choose our remote control only.
The battery does not supply power.	• Flat battery. • The battery wire is plugged in inversely. • The battery wire is damaged.	• Charge the battery. • Open the cover, check "+" "-" position of the wiring. • Replace the battery wire.
Other issues.	• External devices not compatible with the opener.	• Remove all the external devices. If the issues persist, replace the circuit board.

19. PARTS LIST

Item	Description	Item	Description	Item	Description
1	Sun gear assembly	7	Transformer	13	Power cable
2	Upper housing	8	Trolley release cord	14	Extend arm (optional)
3	Chassis sub-assembly	9	Control board	15	Fuse
4	Drive board	10	24V power socket		
5	Front lower housing assembly	11	Decorative cover		
6	Operation panel (control box)	12	Rear cover		



20. MAINTENANCE

Daily maintenance

1. No special maintenance is required for the logic circuit board.
2. Check the door at least twice a year to ensure it is properly balanced, and that all working parts are in good condition.
3. Check the rebound/reverse sensitivity at least twice a year, and adjust it if necessary.
4. Make sure the safety devices are working effectively.
5. Before installing a flash light, please make sure the rate is within 5W.

The following can prolong the service life of openers:

1. While operating the door manually, ensure a balanced and evenly distributed spring load is applied. Ensure the maximum force does not exceed 20kg.
2. If the roller door gets stuck or is unbalanced, authorised professionals are required to perform repairs in a timely manner. The cost of repairs beyond the warranty limits is for the owner's account.

Note: Keep the product invoice as proof of purchase and attach it to this manual, to determine the date of purchase if warranty service is required.

The following will render the product warranty null and void:

1. Non-compliance with installation, operation, maintenance and testing of the product.
2. Repair, dismantling and re-installation by non-professionals, or moving the product to another location after installation.
3. Damage caused by using any controller other than ours.
4. Roller doors or roller door hardware causing product damage.
5. Problems caused by power failure or battery failure, fuse failure, power surges, power shocks, fire, flood, rain, water, lightning or electrical storms.
6. Electrical failure resulting from water or liquid ingress.
7. Lack of proper, authorised repairs and maintenance.
8. Any unauthorised or non-professional modification of the product.
9. Violent operation or excessive load, which affects the service life of the automatic roller door motor and causes damage.

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