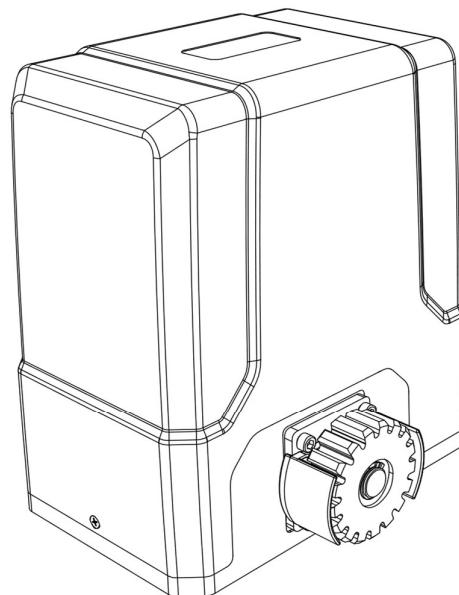
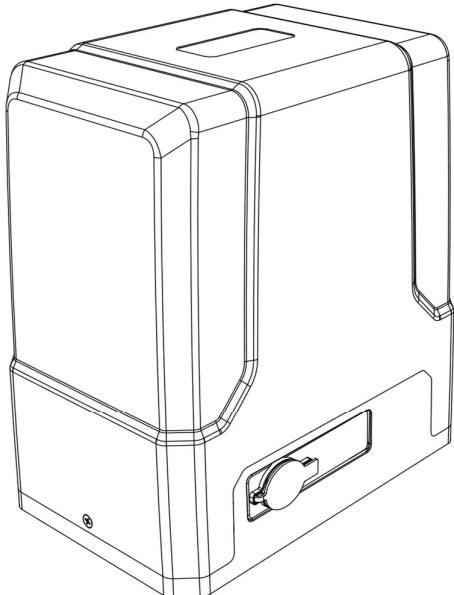




# Sliding Gate Opener User Manual

**CASA-J1**



## **WARNING**

**Instructions must be read before installation. Please follow these instructions carefully, incorrect installation could affect gate operation.**

**When mounting and positioning this product please ensure the power cable is unplugged. The motor cover will need to be removed to mount the motor to the mounting plate or directly to the concrete footing. Any changes to the settings on this product can only be made by a licensed electrician.**

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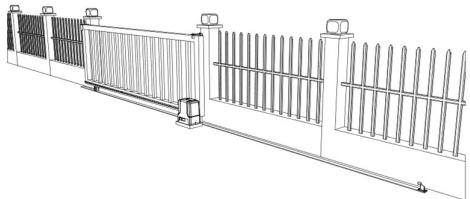
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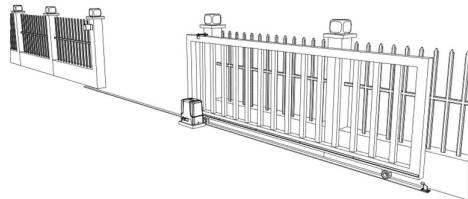
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## Default Setting Instruction

The gate opener will open the gate to the right-hand side as its default setting. By default, the opener mounts on the right-hand side. (Figure 1)



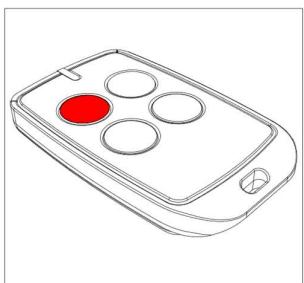
Gate in closed position



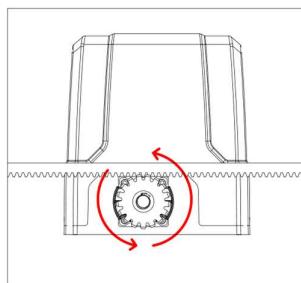
Gate in open position

Figure 1

**Before installation:** Test the gate opener by plugging it into a power source and pressing the remote. Press the opening button, the output gear rotates, then press the stop button, the output gear stops rotating. Finally, press the closing button, the output gear rotates to the opposite direction. This will give you an understanding of the way in which the opener will move the gate.



Press the opening button. Rotating output gear will drive the gate frame.



Then the gate will move in the set direction.

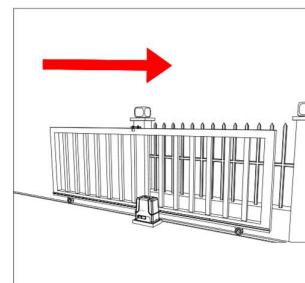


Figure 2

**Note:** Ensure that the gate opener is unplugged before proceeding with installation. Please keep fingers away from the motor output gear whilst it is turning.

If your gate needs to open from the other direction (to the left, refer to figure 3), your opener needs to be mounted on the left-hand side as shown.

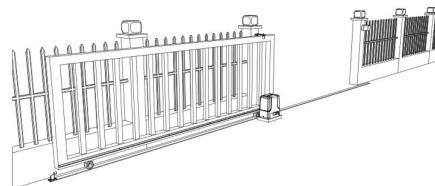
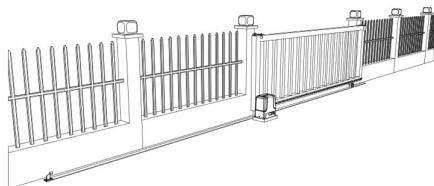


Figure 3

**Any works done to the gate opener must be completed whilst the power is off, and the opener is unplugged.**

---

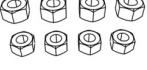
## Safety Instruction

**Warning:** Incorrect or improper use of this product can cause damage to persons, animals or properties.

- Please ensure that the input voltage used matches with the supply voltage of gate opener.
- All modifications to wiring or electrics, and any adjustment or maintenance to input voltage must be done by a qualified electrician.
- All potential hazards and exposed pinch points of the gate must be eliminated or guarded prior to installation of this gate opener.
- Never mount any device that operates the gate opener where the user can reach over (under, around or through) the gate to operate the controls. These must be placed away from any moving range of the moving gate.
- Ensure power plug is disconnected from the power socket during installation or maintenance.
- Keep remote control and other control devices out of children's reach, in order to avoid unintentional activation.
- To ensure safety, before installing the motor, mount a Gate End Catch and a Gate Stop at each end of the rail to prevent the gate travelling off the track.
- If required, install infrared photocell to detect obstructions and prevent injury to person or damage to property.
- Instruct all users about the control systems provided and the manual opening operation in case of emergency.
- Ensure that the power cable is connected to a RCD protected weatherproof power outlet installed by a qualified electrician.
- Do not install this product in an explosive atmosphere or where there is any danger of flooding.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- Only use original parts for any maintenance or repair operation. Our company declines all responsibility with respect to the automation safety and correct operation when other supplier's components are used.
- Do not modify the automation components, unless explicitly authorized by our company.
- The user must avoid any attempt to carry out any works or repairs on this product, and should always request the assistance of qualified personnel.
- This product is suitable for use on one sliding gate only.
- Anything which is not expressly provided for in these instructions is not allowed and will void warranty.
- Dispose of all packing materials (plastic, cardboard, polystyrene etc.) according to current guidelines. Keep plastic bags and polystyrene out of children's reach.
- Save these instructions for future use.

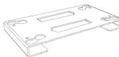
## Parts List

### Parts List (standard configuration)

| No. | Picture   | Name  | Quantity |
|-----|---|---|----------|
| 1   |    | Motor   | 1        |
| 2   |    | Manual Release Keys                               | 2        |
| 3   |    | Remote Controls                                   | 2        |
| 4   |    | Accessories Box                                   | 1        |
| 4-1 |    | Limit Switch Stop Bracket                         | 2        |
|     |  | Magnet Limit Switch Stop                          | 2        |
|     |  | Magnet Limit Switch Stop<br>Mounting Screws M6X18 | 2        |
|     |  | Nuts M8   | 4        |
|     |  | Flat Washers φ8                                   | 2        |
|     |  | Spring Washers φ8                                 | 2        |
| 5   |  | Anchor Bolt M8                                    | 4        |
| 5-1 |  | Nuts M8   | 8        |
| 5-2 |  | Flat Washers φ8                                   | 8        |
| 5-3 |  | Spring Washers φ8                                 | 8        |

Note: Extra flat washers and spring washers are spare parts.

## Parts List (optional)

| No. | Picture   | Name                    | Quantity |
|-----|---|-------------------------|----------|
| 1   |  | Galvanized Gear Rack    | 1m/pc    |
| 2   |  | Nylon Gear Rack         | 1m/pc    |
| 3   |  | Infrared Photocell      | 1        |
| 4   |  | Wireless Keypad         | 1        |
| 5   |  | Alarm Lamp              | 1        |
| 6   |  | Mounting Plate          | 1        |
| 7   |  | Hexagon Head Bolt M8X40 | 4        |

**Additional remote controls:** Spare/Additional remotes for the automatic gate kit, these will need to be paired to the motor.

**Infrared photocell:** Detects pedestrians, vehicles and objects that cross an infrared beam and prevents the gate from closing.

**Wireless keypad:** Allows secure access through the gate used with a user set code.

**Wired control:** Allow users to control the opening and closing of the gate through an external push-button.

**Alarm lamp:** Alerts people near the gate and users that the gate is in operation.

## Technical Parameters

| Model                           | CASA-50J1                              | CASA-80J1 |
|---------------------------------|--|-----------|
| Power Supply                    | 110VAC/60Hz; 220VAC/50Hz               |           |
| Motor Power                     | 150W                                   | 170W      |
| Gate Moving Speed               | 16-18m/min                             |           |
| Maximum Loading Weight          | 500KG                                  | 800KG     |
| Remote Control Distance         | ≥ 30m                                  |           |
| Remote Control Mode             | Single button mode / Three button mode |           |
| Limit Switch                    | Magnetic limit switch                  |           |
| Working Noise                   | ≤ 60dB                                 |           |
| Working Duty                    | S2, 20min                              |           |
| Recording of up Remote Controls | 32                                     |           |
| Remote Frequency                | 433.92 MHz                             |           |
| Working Temperature             | -20°C - +70°C                          |           |
| Package Weight                  | 10KG                                   | 11KG      |
| Battery Specification           | 12V/9Ah × 1pc                          |           |

# Installation

## Before You Start

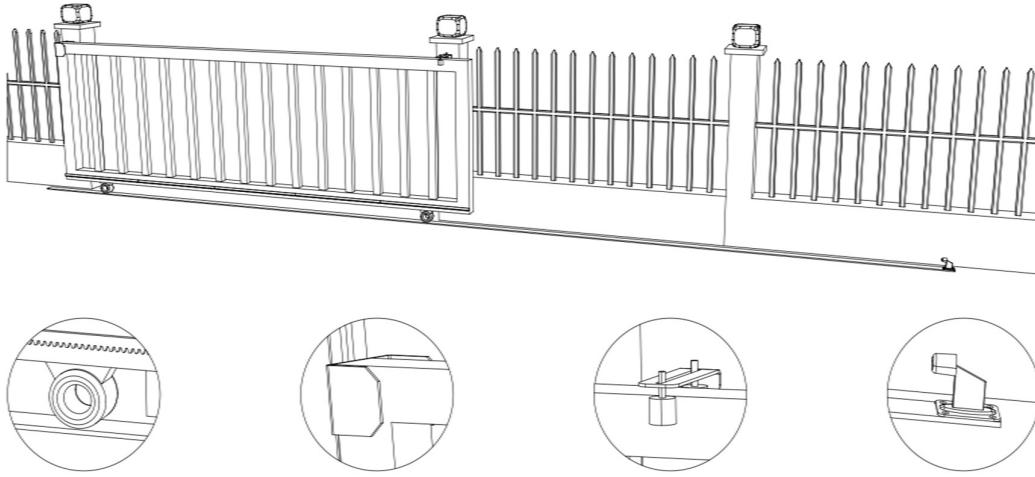
- CASA J SERIES DC Sliding Gate Automation Kit is suitable for powering the opening and closing motion of gates up to 500, 800kg in weight, up to a length of 12m.
- Gate motion is achieved by the rotating output gear of the gate opener driving the gear rack (sold separately) fitted to the moving gate.
- The gate opener requires you to press the remote control once to open, and once again to close. This is a safety feature to ensure safe operation.
- The opener must be fitted within private property, never externally to a property's boundary.

**Any works done to the gate opener must be completed whilst the power is off and the opener is unplugged. Any modifications/alterations/works to AC power components must only be completed by a licensed electrician**

## Tools Required

- Tape measure
- Level
- 12mm concrete drill and hammer (when uses expansion screws)
- Phillips head screwdriver
- Straight screwdriver

## Example Sliding Gate



Gate Track and Track Wheels

Gate End Catch

Gate Guide Rollers

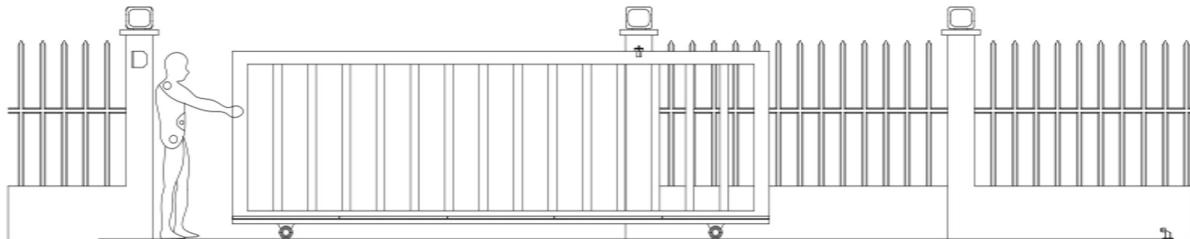
Gate Stop

Figure 4

**Please ensure that the gate opener power cable is not plugged in at any stage before Step 8.**

## Step 1 - Gate Preparation

- Ensure that the sliding gate is correctly installed.
- The gate is horizontal and level and the gate can glide back and forth smoothly when moved by hand before installing the gate opener.
- Wheels and guide rollers should rotate easily and be free from dirt or grime.
- Track should be flat, level and firmly affixed.
- Any misalignment in the gate will affect performance of the automatic gate opener.

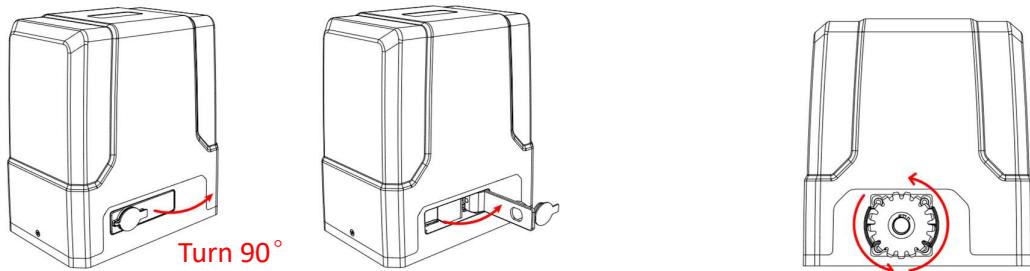


The gate should slide smoothly by hand before attempting to install the gate opener.

Figure 5

## Step 2 - Checking Manual Release

- Insert the key and open the manual release bar to enable the motor get into manual mode and check that the motor output gear rotates freely by hand (Figure 6).



To make the motor into manual mode, insert the key and open the manual release bar till it rotates by 90° .

In manual mode, the gear can turn freely and the gate can be operated by hand.

Figure 6

## Step 3 - Removing / Installing Motor Cover

- Unscrew the two cover screws located at each side of the motor cover.

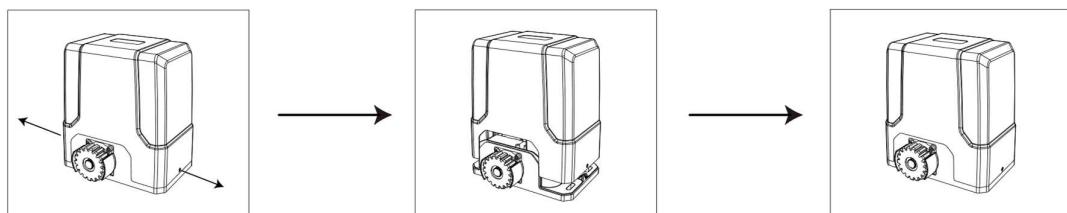


Figure 7

## Step 4 - Motor Pad Footing

- The motor pad concrete footing requires an area of no less than 450mm long x 300mm wide and a minimum depth of 200mm (Standard requirement).
- Ensure surface is level and parallel to the driveway.

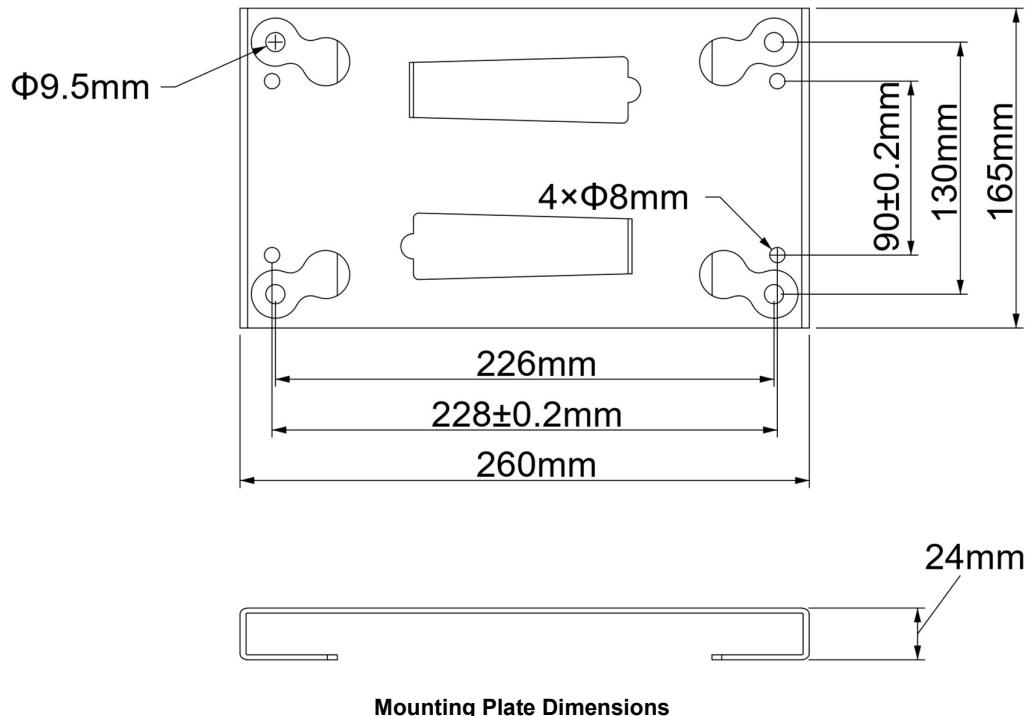


Figure 8

## Step 5 - Fitting Mounting Plate and Motor

### Without Mounting Plate

- Pre-embed the anchor bolts according to holes in motor base before concreting (as per Figure 9).
- After concrete hardening, bolt the motor with M8x40mm bolts, spring and flat washers provided and tighten as required. (The height can be slightly adjusted by bottom bolts as per Figure 10).

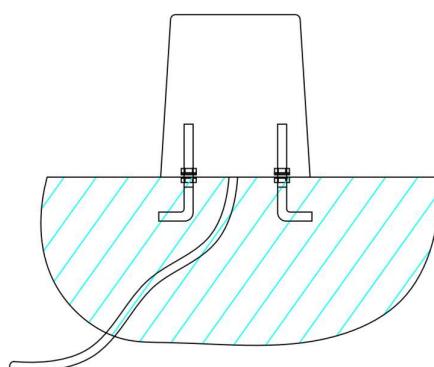
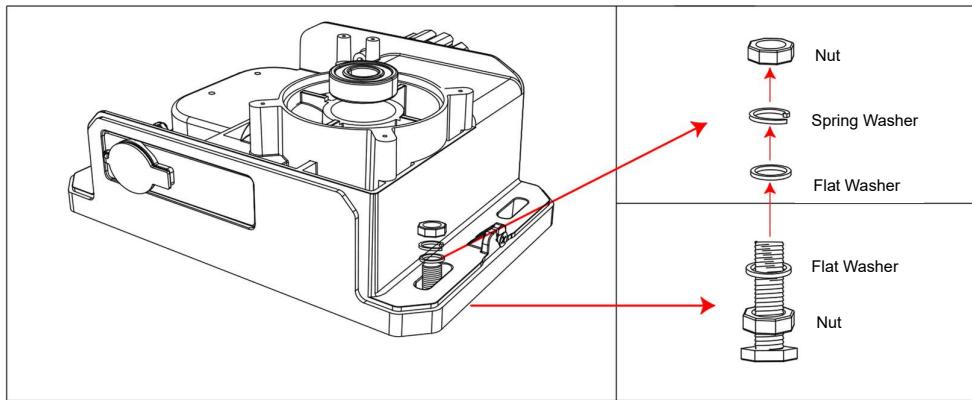


Figure 9



The bolts and flat washer between mounting plate and motor base are used for adjusting the height of the motor.

Figure 10

### With Mounting Plate

- Pre embed the anchor bolts as per  $\Phi 10$  holes in Figure 8 before concreting, after concrete hardening, place the mounting plate, fit and tighten anchor bolts.(as per figure 11).
- Bolt motor to the mounting plate using the M8 x 40mm bolts with spring and flat washers provided and tighten as required (as per figure 12).

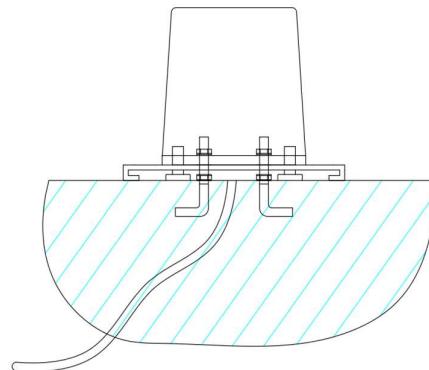
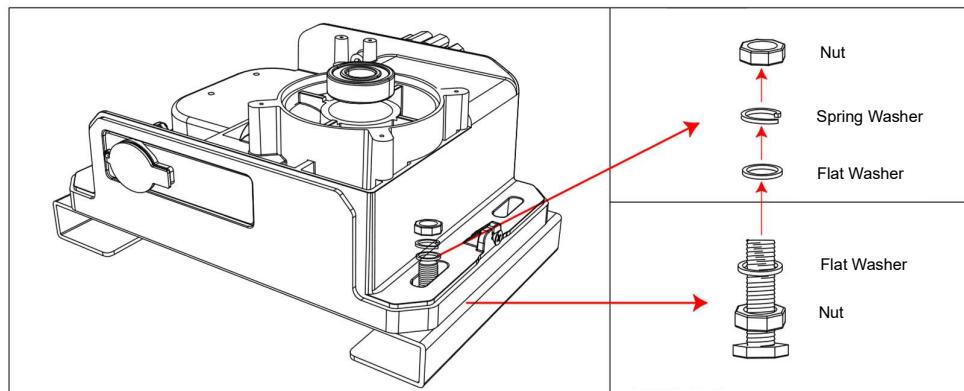


Figure 11



The bolts and flat washer between mounting plate and motor base are used for adjusting the height of the motor.

Figure 12

## Fitting Motor

- Fit motor and mounting plate(if with) on the concrete footing.
- Ensure the motor output gear and gear rack are correctly aligned. Gear and gear rack should be centered as much as possible.
- Take the motor away from mounting plate.

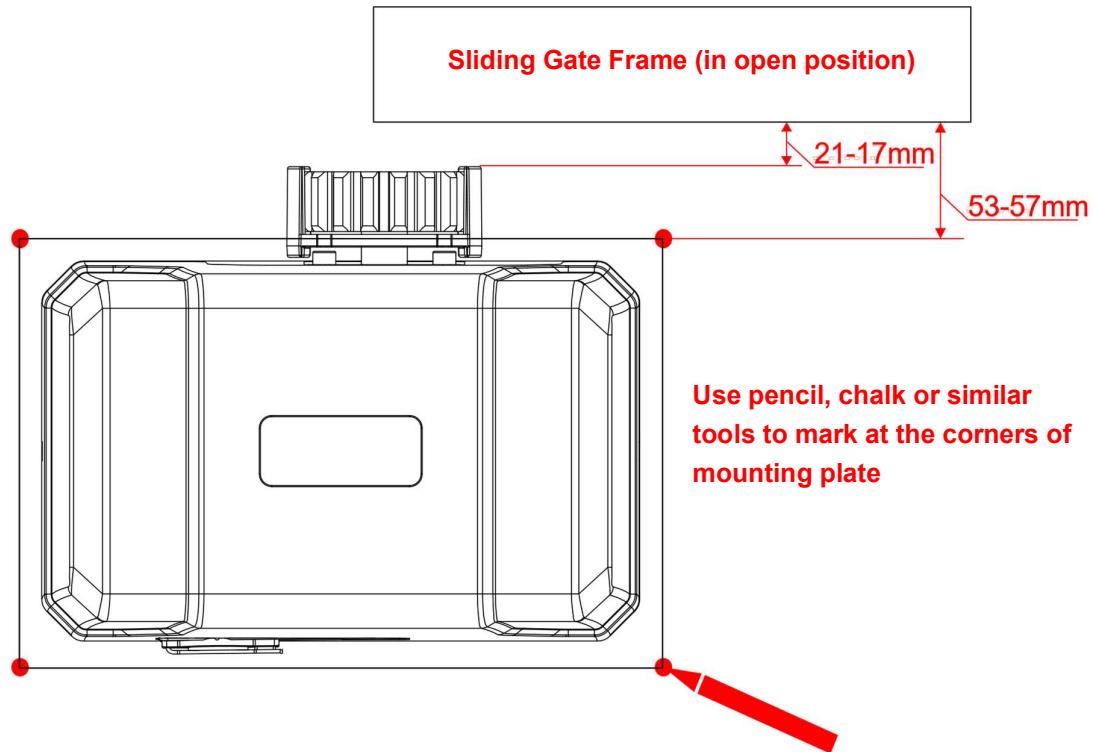


Figure 13

## Step 6 - Gear Rack & Motor Alignment

- See Figure 15 for recommended gear rack mounting height.
- Ensure that the output gear has a minimum clearance of 1-2mm along the entire length of gear rack fitted to the gate (as per Figure 14)
- Ensure output gear and gear rack are correctly aligned. Under no circumstances should the gate opener output gear carry any weight of the gate. It is the task of the gate castors or wheels to carry the weight of the gate (as per Figure 14).
- If the gate doesn't slide freely by hand, adjust the height of the gear rack accordingly until the full length of gate slides freely by hand.

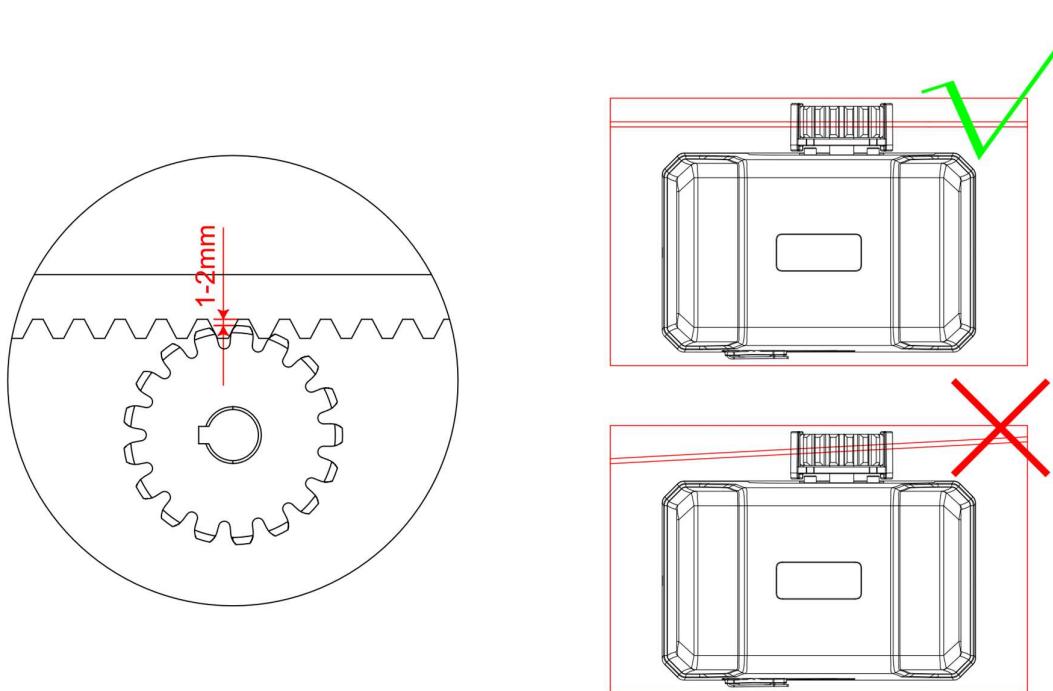


Figure 14

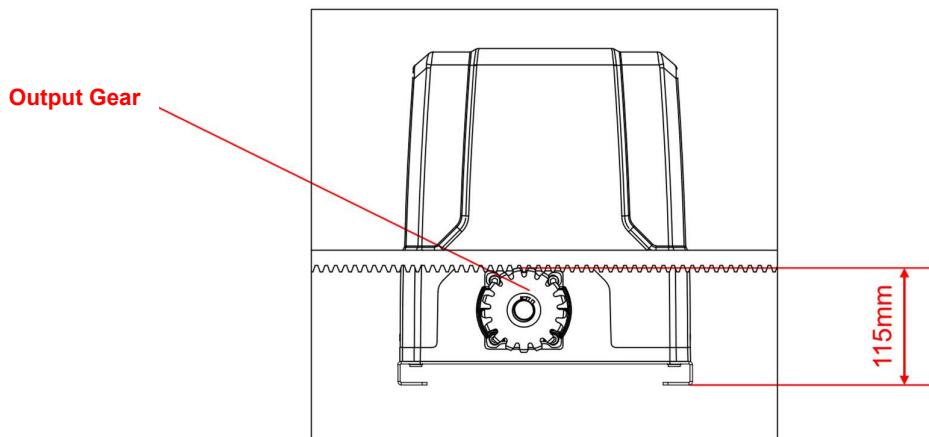
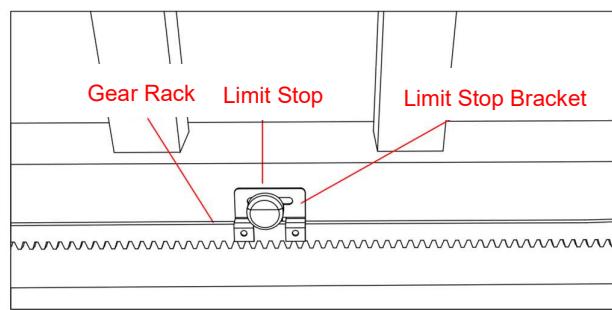


Figure 15

## Step 7 - Limit Switch Stop

Included in your gate opener kit are two magnet limit switch stops with two different polarities: stop in black color(N), stop in blue color(S).

These two stops must be fitted to the gear racks on your gate to ensure safe operation. Before you fitting the limit switch stops, you



---

should install the limit switch stops on the stop brackets first. After fitting, please set on the control board to enable the gate into manual control mode(refer to page 19 “Manual Control Mode”), then operate the motor to run to its open or closed limit switch position to check if the limit switch can be well contacted.

It is extremely dangerous that bad contact between the limit switch and limit switch stops can cause crash of gate, damage of internal structure of the motor, moreover, the gate may slide off the guide rail.

The magnet limit switch stop is designed to recognize the gate running direction and it's current position. During gate moving, the magnetic limit switch which is installed inside the motor will detect the magnet limit switch stops when it passes, after detecting, the control board will record the gate running direction and the limit switch stop position to enable the gate run to the setting limit switch position.

To change the gate opener from right-hand installed to left-hand installed, you should only set it on the control board, no need to switch over the two magnet limit switch stops. So it's extremely important to decide the limit switch stops position and make sure the polarities are 100% correct.

Installation drawing of limit switch stop polarities for right-hand and left-hand:

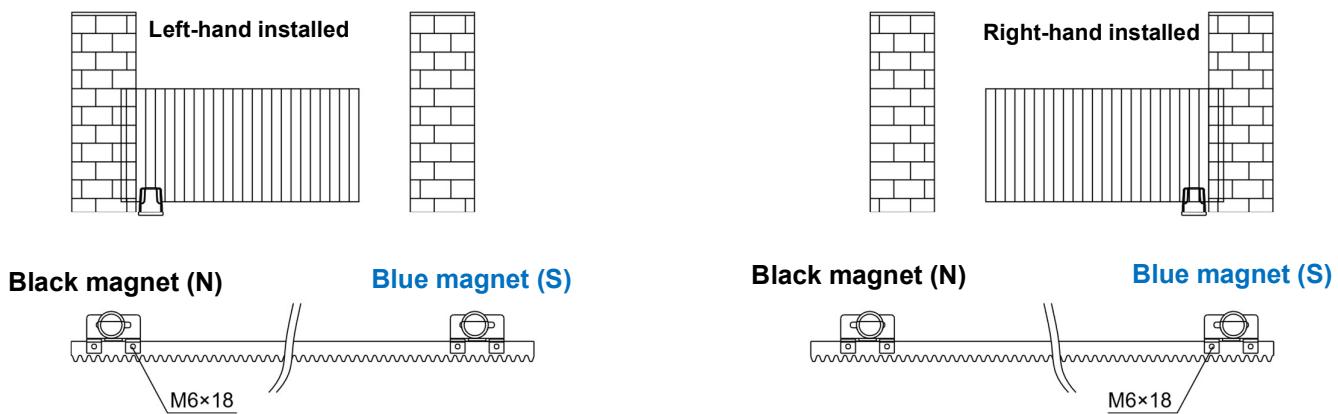


Figure 16

**Note:**

1. Default setting on control board is right-hand installed, if you need to change it to left-hand, please enter into advanced menu “opening direction setting” to change.
2. If you are not sure about the polarities of the two magnet limit switch stops are correct, please operate it on the control board to enter into manual control mode, and check if the gate will stop when it arrives at limit switch position.

---

### Drawing of recommended installation height for the limit switch stop bracket:

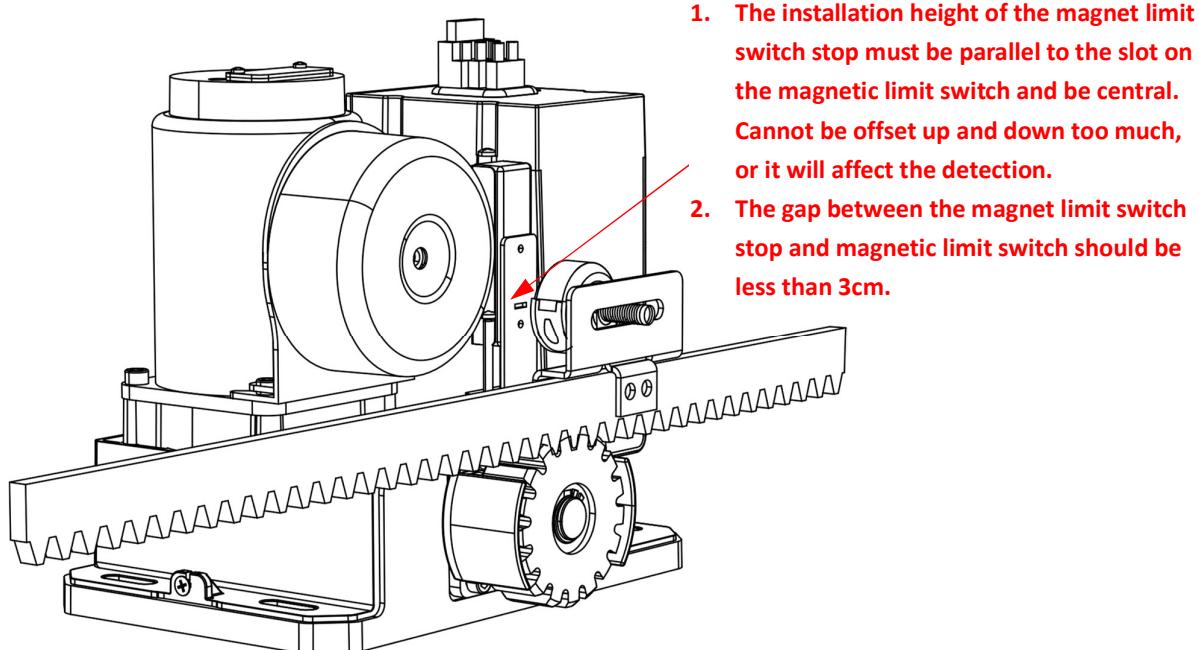


Figure 17

### Step 8 - Powering on

- Ensure that the outer cover has been fitted and fastened back onto the motor base.
- Before powering up the gate opener make sure the gate can travel by hand in manual mode (key unlocked).
- Slide the gate to between the middle of the posts, approximately (see below diagrams).
- Lock the manual release spanner (key locked) in readiness for automatic mode.
- Plug the power cord into an approved RCD protected weatherproof outlet.
- Remote controls included in this kit are factory paired ready for use.

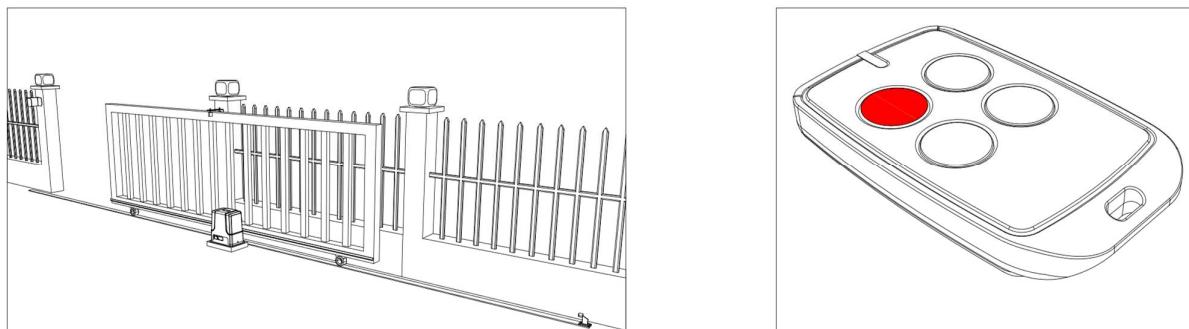


Figure 18

---

## Step 9 - Testing Travel and Limit Stop Position

Ensure gate opener is installed as per step 4, 5 and 6 and the sliding gate is in the middle position. Limit switch stops are correctly installed and well contacted with magnetic limit switch. Please refer to page 20-21 for the setting of open and closed limit switch position.

The ideal closed final position for the gate frame is 10-15mm from closed gate end catch.

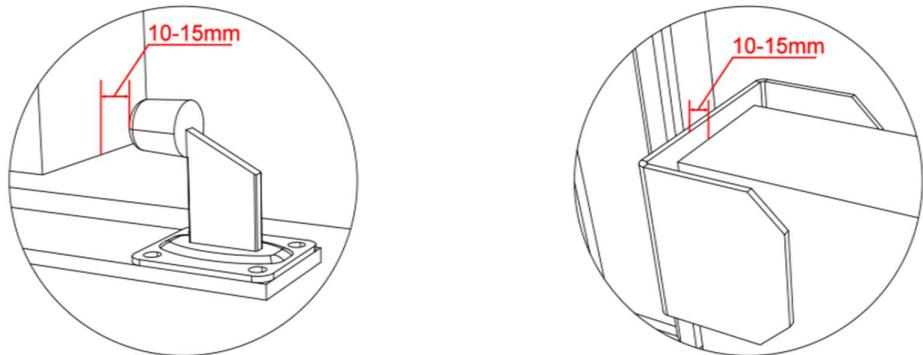


Figure 19

Now the basic open and closed positions are set, for further setting functions and adjusting parameters, please refer to pages 14-46 in this manual.

# Programming and Wiring

Any works to the 110V/220V AC must only be performed by a licensed electrician.  
Ensure power is off before any modifications are made.

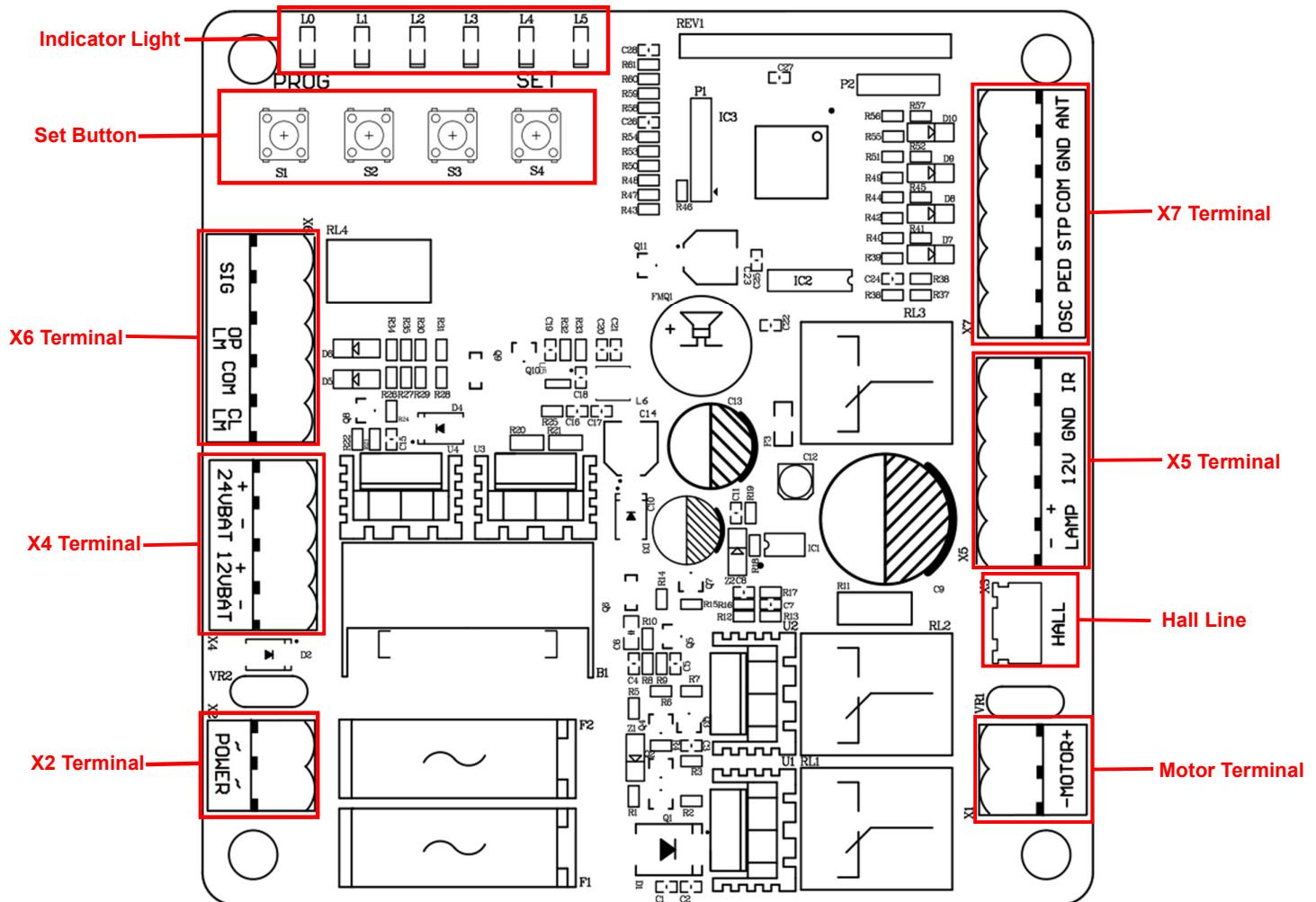


Figure 20

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## Terminal Instructions

All changes to these settings below must be completed by licensed electrician.



### X7 Terminal: (as per Figure 20):

**ANT:** Extra Antenna

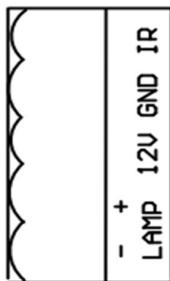
**GND:** Extra Antenna Shield

**COM:** Common Terminal for External Push Button

**STP:** External Stop Push Button Switch

**PED:** External Close Push Button Switch

**OSC:** External Open Push Button Switch



### X5 Terminal:

**IR:** Photocell Input Common Terminal for Photocell(N.C.)

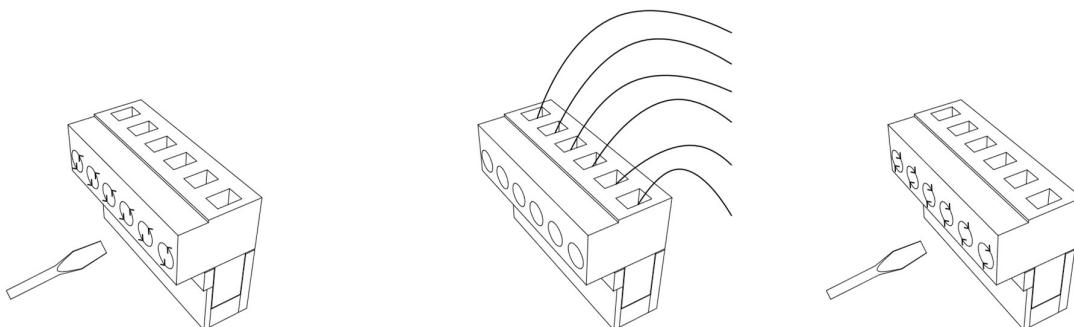
**GND:** Ground

**12V:** Additional Accessories +12VDC, after gate closed in place, the board will enter into low power consumption mode, this terminal will cut off the 12V power supply.

**LAMP+:** Alarm Lamp +12/24VDC

**LAMP-:** Alarm Lamp -12/24VDC

## Wiring to the Terminal



Using a screwdriver to loosen the screw on the side of the terminal.

Insert the wire into the number on the terminal that you are looking to connect to. Refer to Page 14.

Tighten with a screwdriver to secure the wire in place.

---

|     |     |
|-----|-----|
| SIG |     |
| OP  |     |
| LH  | com |
| CL  |     |

**X6 Terminal:**

**SIG:** Output close signal after gate closed in place.

**OPLM:** Open Limit Switch

**COM:** Limit Switch Common Terminal.

**CLLM:** Close Limit Switch

|        |  |
|--------|--|
| +      |  |
| -      |  |
| 24VBAT |  |
| 12VBAT |  |
| +      |  |
| -      |  |

**X4 Terminal:**

**24VBAT+:** Battery Positive

**24VBAT-:** Battery Negative

Battery Specification: 24V/9Ah

**12VBAT+:** Battery Positive

**12VBAT-:** Battery Negative

Battery Specification: 12V/9Ah

**Note:** + and - must be wired correctly, wrong wiring will damage the control board.

|       |  |
|-------|--|
| POWER |  |
|-------|--|

**X2 Terminal:**

**Power:** Power Supply(Transformer Output)

Transformer Specification: 240VAC/22VAC or 120VAC/22VAC

Rated Power: 120W

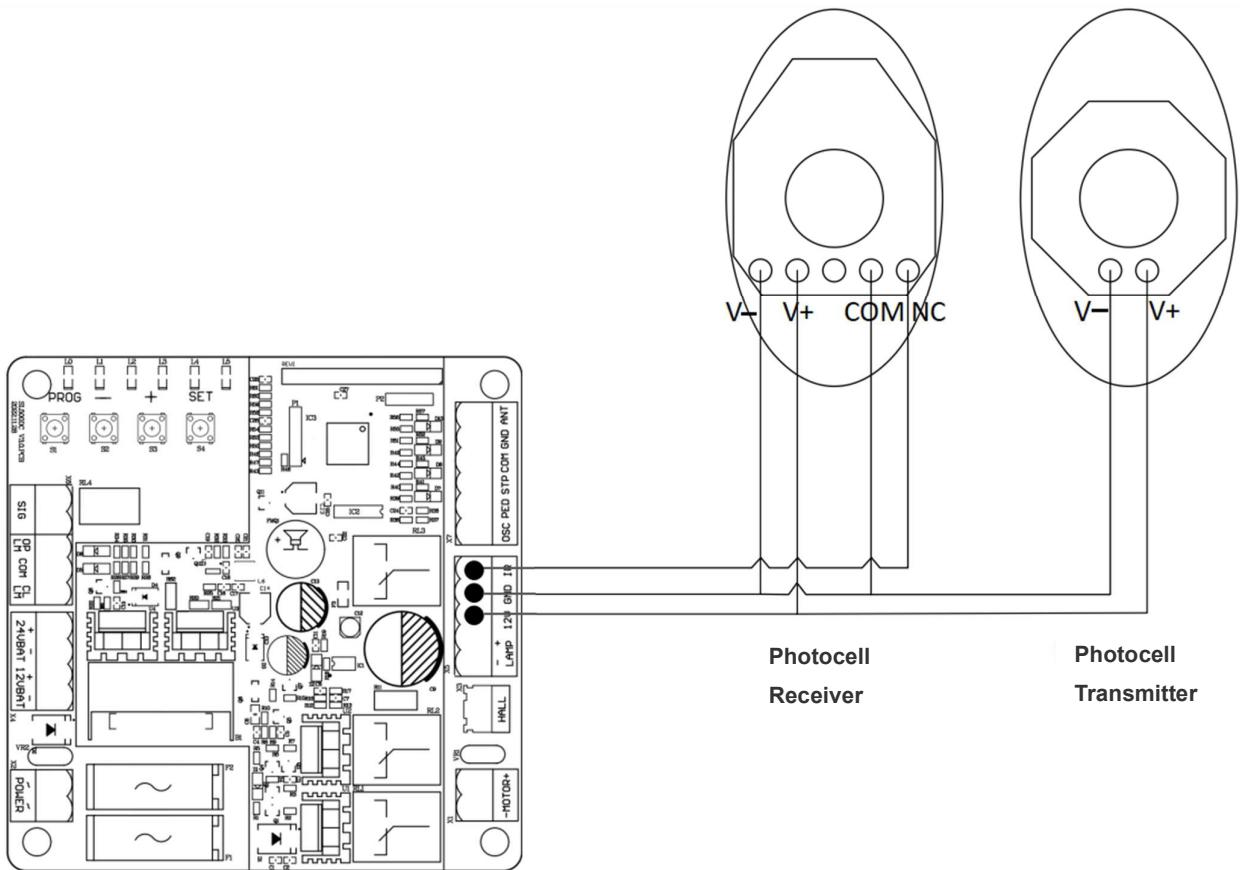
## Connecting Infrared Photocells

**The below steps must be completed by licensed electrician.**

Highly recommend the use of infrared photocells as an additional safety feature.

While closing, if the ray of the Infrared Photocell is blocked, the gate will stop and open immediately, to protect user and property security. To install photocells, connect wiring as per Figure 21. You must remove the wire jumper between terminal IR and terminal GND on X5 (ref to Figure 22).

The distance between photocell receiver and photocell transmitter should not be less than 2 meters; otherwise, the induction effect of photocell may be affected.



---

Figure 21

### Before Installing Photocells

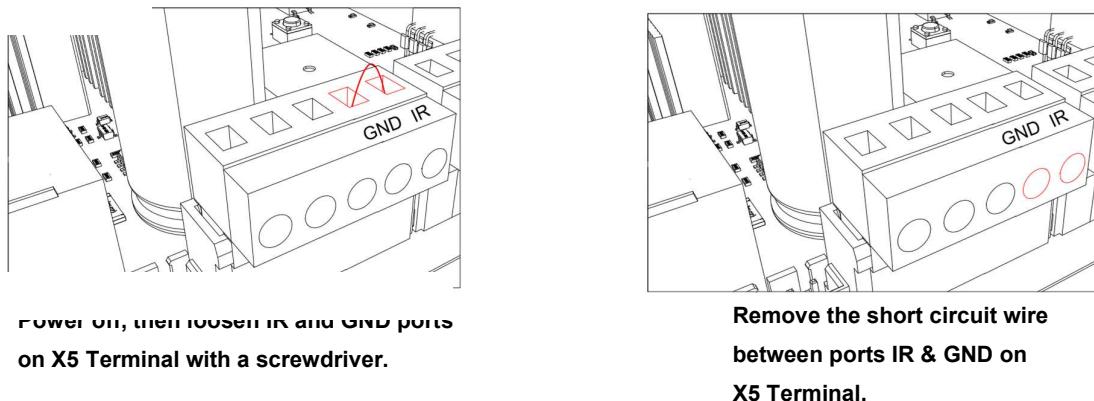


Figure 22

### Operation Interface Instruction

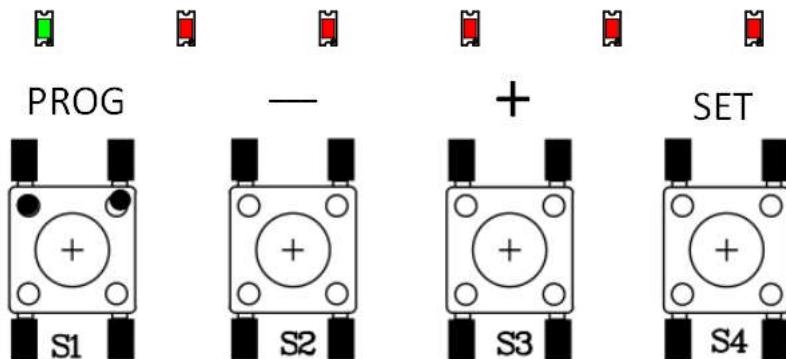


Figure 23

#### Indicator Lights:

L0 (Green): Indicating the control board working status and menu status.

L1-L5 (Red): Indicating the settings, parameters, errors and battery level.

#### Set Buttons:

PROG: Enter into or exit the setting menu.

- and +: Function select and parameter adjust.

---

SET: Choose the selection, confirm the setting.

**Note:**

Press the setting button for a short while (within 1 sec.) or long press the button (over 2 sec.) will be for different functions.

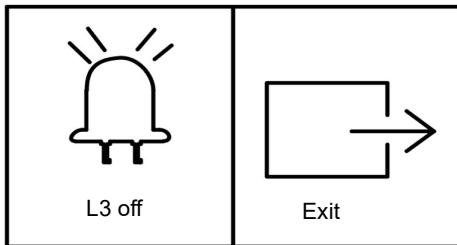
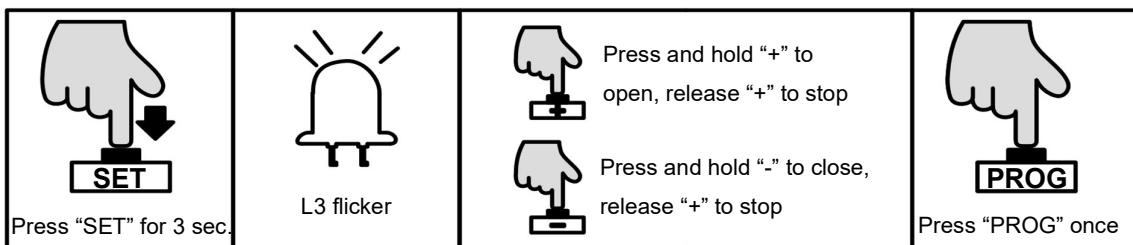
## Manual Control Mode

In order to make sure that the first installation of this product is in good condition, users can test the opening/closing running under manual control mode. If there are any abnormalities, please exit the manual control mode and re-adjust the gate, gate opener and the limit switch.

### A. Operation Instruction:

1. Press and hold “SET” button for 3 sec. → Indicator light L3 will flicker.
2. Press “+” button to open the gate, then release “+” to stop running; Press “-” to close the gate, then release it to stop running.
3. Press “PROG” button once to exit the manual control mode. → Indicator light L3 will be off.

### B. Operation Graphic Illustration



**Note:**

1. If there is no operation under the limit switch position setting for 60 sec., system will automatically exit the setting.

---

2. If need to exit during setting, press “PROG” once to directly exit.
3. Under manual control mode, if the gate didn’t stop when it arrived at limit switch, please exit the manual control mode, and check if the two magnet limit switch stops are within the detection range of the magnetic limit switch.

## Quick Setting for Running Travel

### **Precondition:**

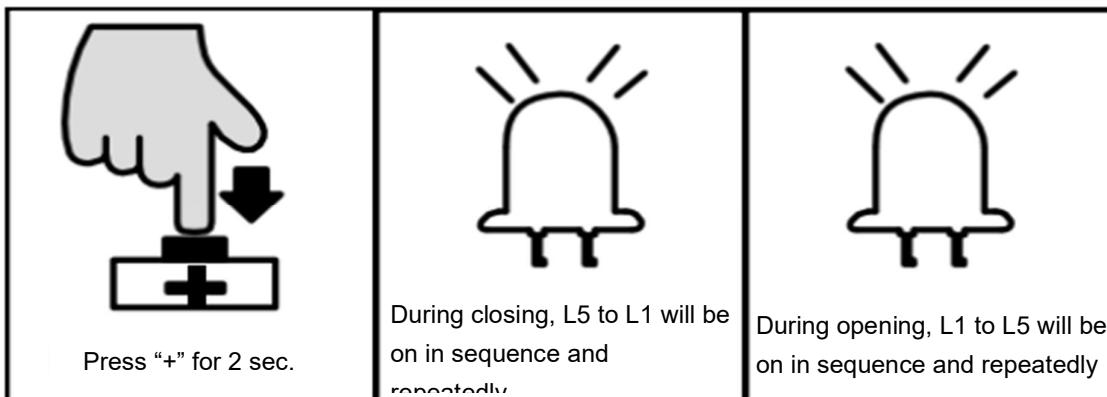
1. Before setting the running travel, please make sure that the gate is completely open.
2. Please install the limit switch stops at limit switch position and make sure the polarities are correct, after installed, please do not move or remove it anymore.

### **A. Operation Instruction**

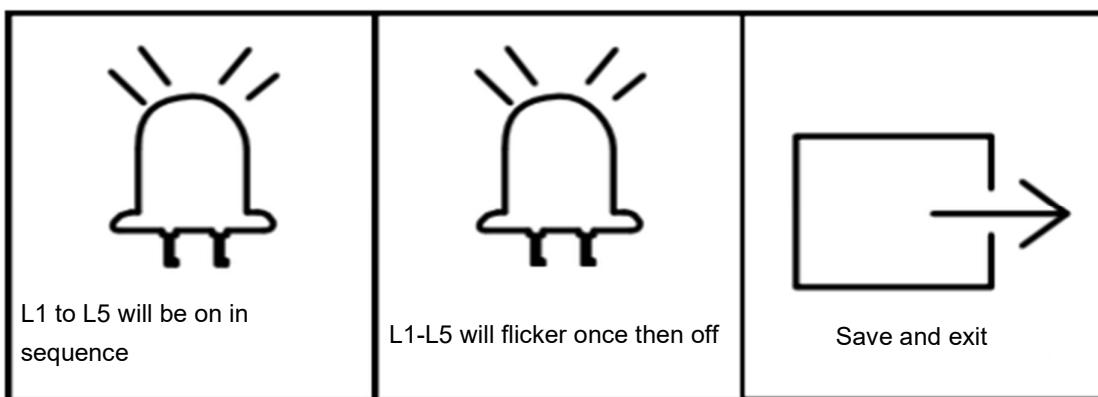
- a. Press “+” button for 2 sec., motor will automatically start it’s travel learning.
- b. During gate closing, the indicator lights will be on from L5 to L1 in sequence and repeatedly.
- c. During gate opening, the indicator lights will be on from L1 to L5 in sequence and repeatedly.
- d. After travel is set, the indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

### **B. Operation Graphic Illustration**

#### **1. Enter into Quick Setting:**



## 2. After Travel is Set:



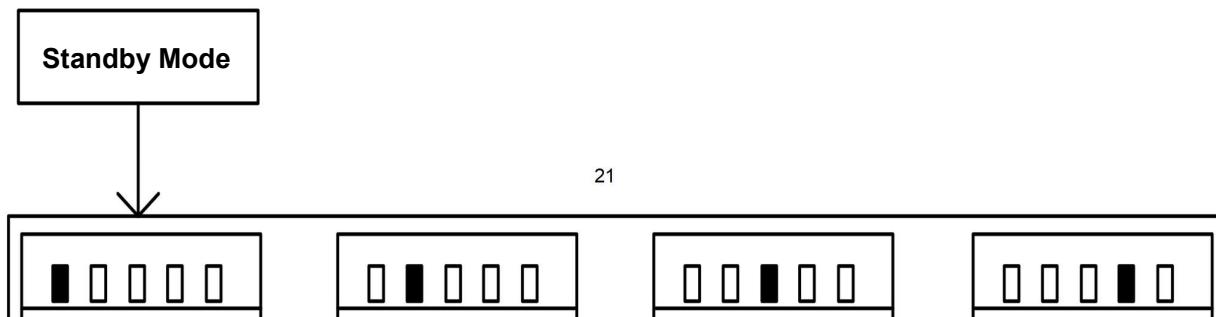
### Note:

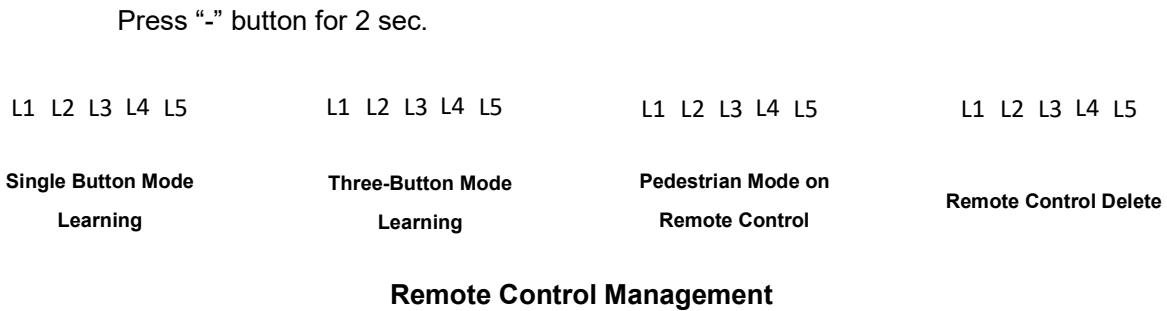
1. If there is no operation under the limit switch position setting for 60 sec., system will automatically exit the setting.
2. If need to exit during setting, press "PROG" once to exit.

## Remote Control Management

### Operation Instruction:

1. Press “-” button for 2 sec. under standby mode to enter into the first function of remote control management.
2. Different functions can be selected through “+” and “-” buttons.
3. Press “SET” button to enter into the corresponding parameter settings.





**Figure 24**

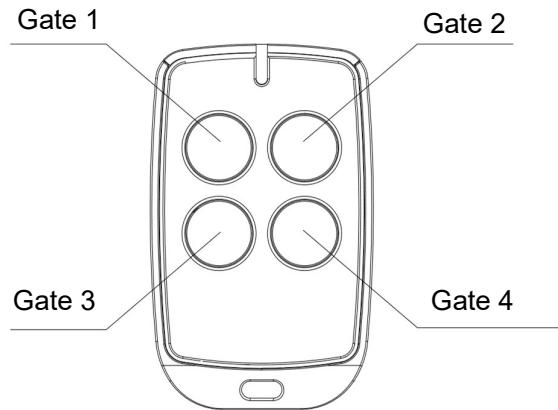
**Remote Control Mode Instruction:**

There are two modes available for remote control under this control board. Users may pair the remote control in their required mode.

1. Single button mode: Open/Stop/Close of the gate opener is controlled by only one button on the remote control.
2. Three button mode: Open/Stop/Close of the gate opener is controlled by three different buttons on the remote control.

**Single Button Mode Learning (L1)**

Under this mode, one of the remote control buttons which is paired to the gate opener can individually control the operation of one opener. The rest buttons on this remote control can be used to pair to other openers.



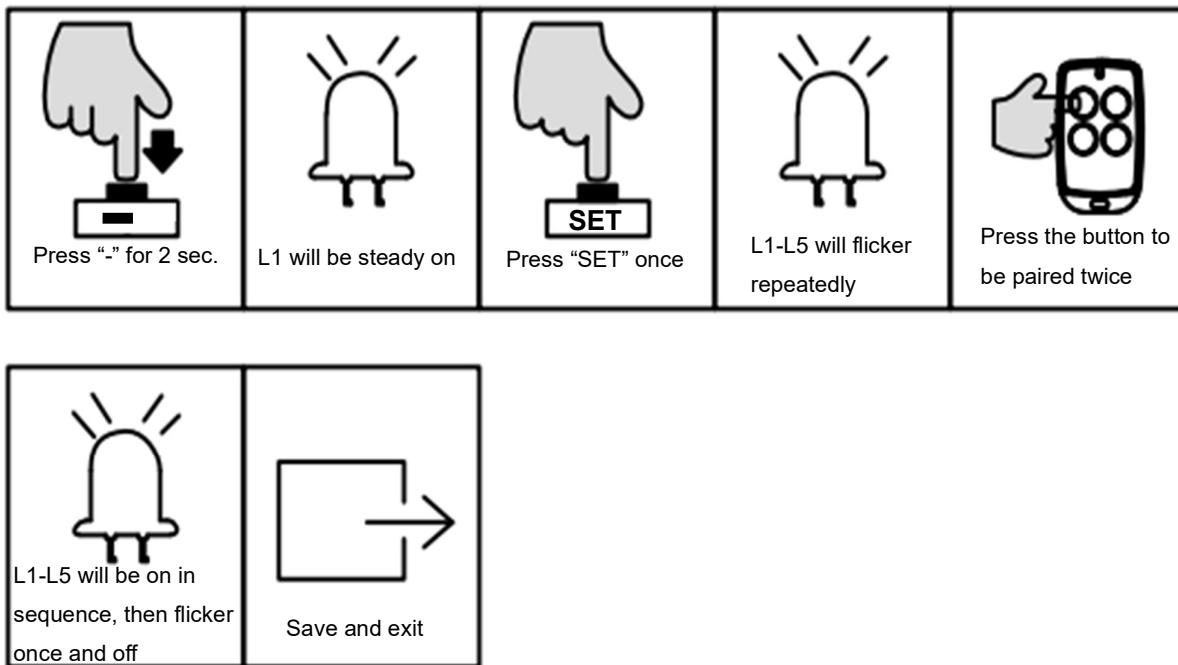
---

Figure 25

#### A. Operation Instruction

1. Press and hold “-” button for 2 sec. to enter into remote control management mode. → Indicator light L1 will be steady on.
2. Press “SET” button once to enter into single button learning mode. → All indicator lights will flicker repeatedly from L1 to L5. (If an alarm lamp is connected, it'll blink as well).
3. Press the button which is to be paired on the remote control twice. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off. (If an alarm lamp is connected, it'll be on for one sec.). Learning is complete thereafter.

#### B. Operation Graphic Illustration



### Three-button Mode Learning (L2)

Under this mode, all buttons on the remote control which are paired to the gate opener will be separately used for gate opening、closing and stop. (Please refer to Figure 26 for the usage for the forth button on the remote control)

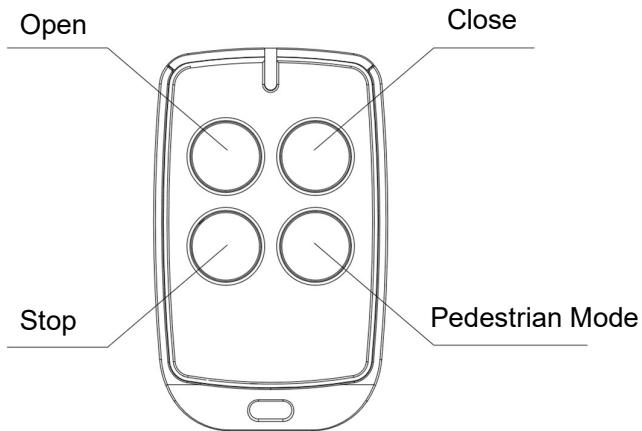
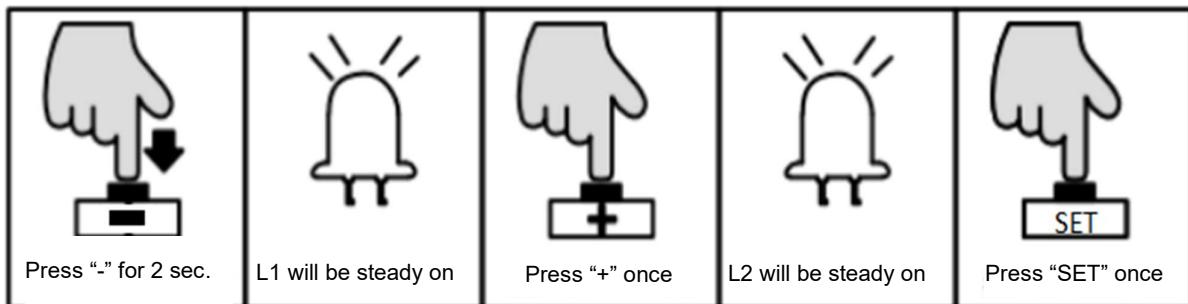


Figure 26

#### A. Operation Instruction

1. Press and hold “-” button for 2 sec. to enter into remote control management mode. → Indicator light L1 will be steady on.
2. Press “+” button once to select three button learning mode option. → Indicator light L2 will be steady on.
3. Press “SET” button once to enter into three button learning mode. → All indicator lights will flicker repeatedly from L1 to L5. (If an alarm lamp is connected, it'll blink as well)
4. Press the button which is to be paired on the remote control twice. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off. (If an alarm lamp is connected, it'll be on for one sec.) Learning is complete thereafter.

#### B. Operation Graphic Illustration



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L1-L5 will flicker      Press the button to be      L1-L5 will be on in      then flicker once and  
repeatedly                paired twice                sequence                off                              Save and exit

**Note:** If there is no operation under the remote control learning status for 20 sec., system will automatically exit the setting and save all the paired remote controls.

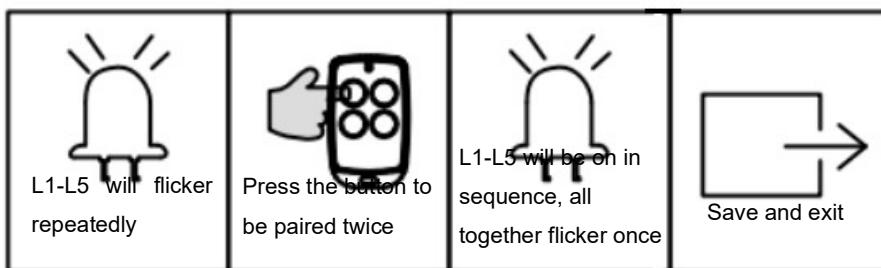
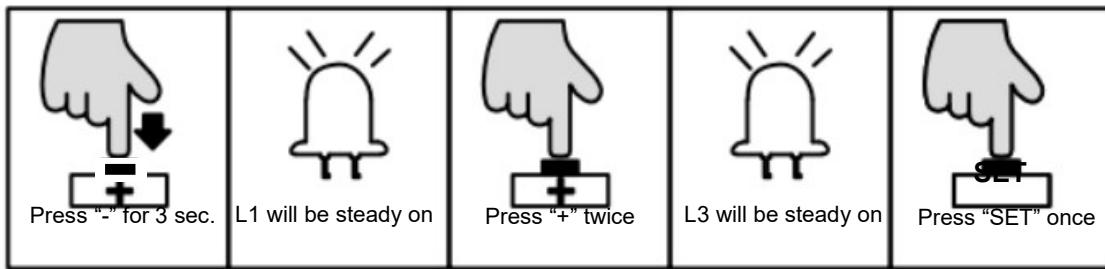
## **Pedestrian Mode on Remote Control (L3)**

Pedestrian mode function: when gate is closed, press the Pedestrian button on the remote control, the gate will open 1m wide to allow pedestrian access.

### **A. Operation Instruction:**

1. Press and hold “-” button for 3 sec. to enter into remote control management mode. → Indicator light L1 will be steady on.
2. Press “+” button twice to select pedestrian mode function. → Indicator light L3 will be steady on.
3. Press “SET” button once to enter into pedestrian mode setting. → All indicator will flicker repeatedly from L1 to L5.
4. Press the button which is to be paired on the remote control once. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.. Learning is complete thereafter.

### **B. Operation Graphic Illustration:**



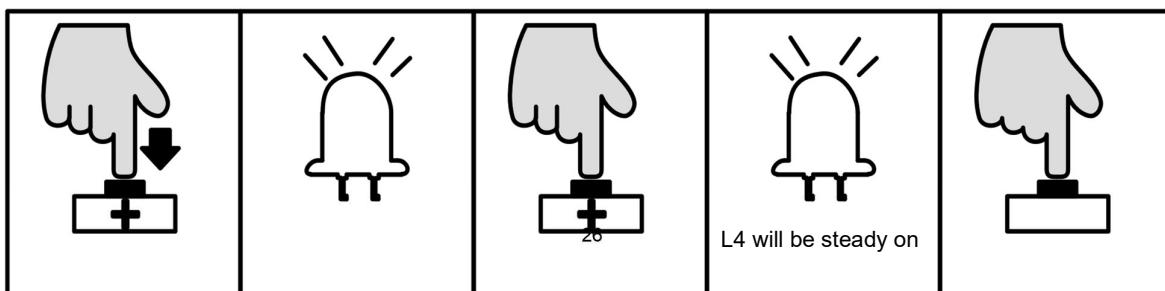
## Remote Control Delete (L4)

This operation will delete all the remote controls that are paired to this control board.

### A. Operation Instruction:

1. Press and hold “-” button for 2 sec. to enter into remote control management mode. → Indicator light L1 will be on.
2. Press “+” button three times to select remote control delete option. → Indicator light L4 will be on.
3. Press “SET” button once to enter into remote control delete option. → Indicator lights L1-L5 will be steady on.
4. Press and hold “SET” button for 2 sec. will delete all remotes and it will automatically exit. → Indicator lights will be off in sequence from L5 to L1, after which indicator lights L1-L5 will be on for one sec.

### B. Operation Graphic Illustration:



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|                         |                                      |   |                         |
|-------------------------|--------------------------------------|---|-------------------------|
| —                       | <b>SET</b>                           |   |                         |
| Press “-” for 2 sec.    | L1 will be steady on                 | Press “+” 3 times                                       | Press “SET” once        |
| L1-L5 will be steady on | <b>SET</b><br>Press “SET” for 2 sec. | L1-L5 will be on in sequence, all together flicker once | Remotes delete and exit |

## Remote Control Quick Learning

Remote control quick learning function enables user to pair the remote controls without opening the motor cover.

### Precondition:

1. To have one remote control that has already been paired.
2. To ensure the reliability of learning, please operate the quick learning function within 2 meters from the gate opener.
3. Please make sure that the gate opener is equipped with an alarm lamp, which will help you to check the status of remote control learning.

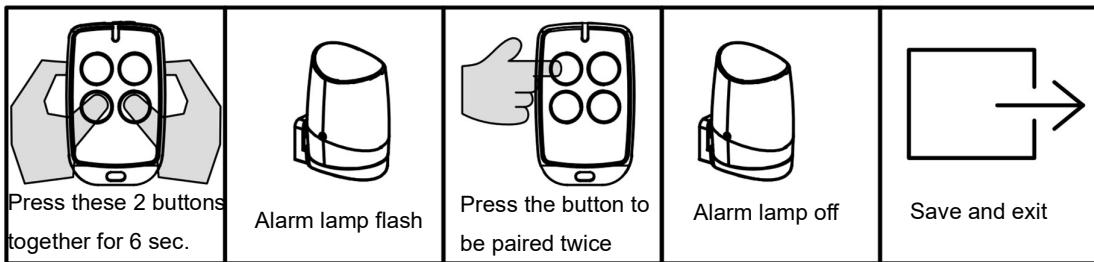
### A. Operation Instruction:

1. Simultaneously press and hold the third and the fourth buttons of the paired remote control for 6 sec. → The alarm lamp will flash, which indicates that the learning function of the control board is on working.
2. Press the button to be learned on the remote control under the above status. → The alarm lamp will be off. Then remote control learning is complete.
3. The system will automatically exit the learning mode after pairing finished.

---

**Note: The remote control working mode will be copied from original one to new paired one.**

**B. Operation Graphic Illustration:**



## Basic Menu Setting

**Operation Instruction:**

1. Under standby mode, press and hold "PROG" button for 3 sec., the indicator light L0 will flicker once and enter into basic menu setting.
2. Press "+" or "-" button to select the different function settings.
3. Press "SET" button to enter into the selected function setting.

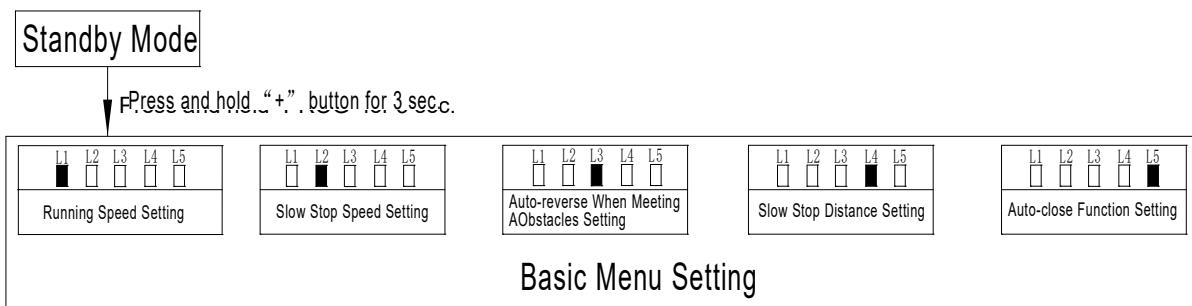


Figure 27

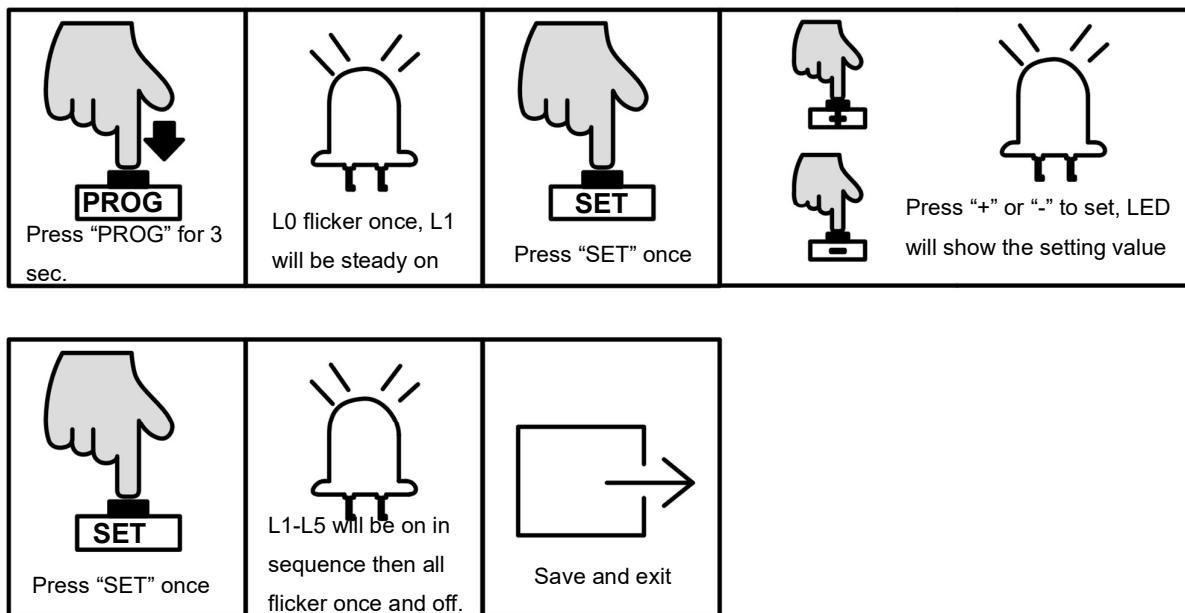
## Running Speed Setting (L1)

Users can adjust the gate opening and closing speed according to the actual installation and using condition.

**A. Operation Instruction:**

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “SET” button once to enter into running speed setting. → Indicator lights L1-L5 will show the current running speed. (The default is L5)
3. Press “+” or “-” button to adjust the running speed. → Indicator lights L1-L5 will indicate different speed status. The more the indicator lights are on, the faster the running speed will be.
4. Press “SET” button to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

## B. Operation Graphic Illustration



## Slow Stop Speed Setting (L2)

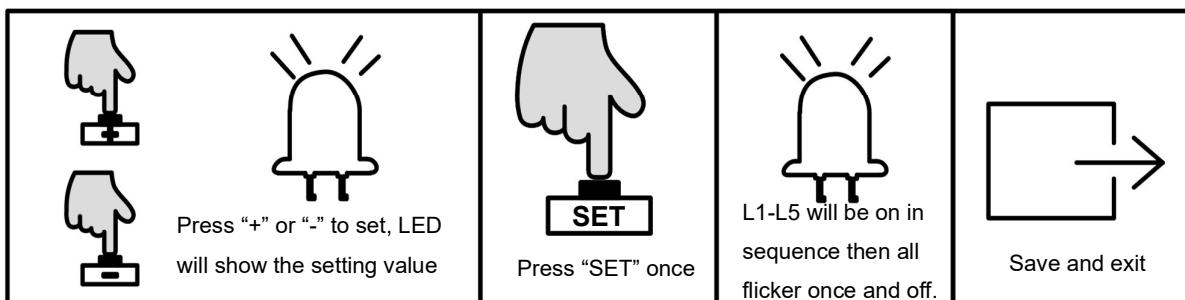
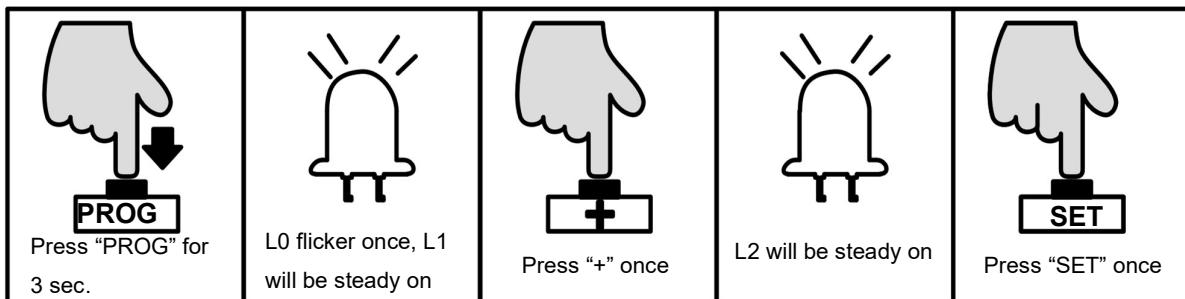
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The setting for slow stop speed can effectively reduce the inertial force when the gate is open or closed to its limit position, which will extend the lifetime of both gate and gate opener.

#### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “+” button to select slow stop speed setting. → Indicator light L2 will be steady on.
3. Press “SET” button once to enter into setting mode. → Indicator lights L1-L5 will show the current slow stop speed. (The default is L1)
4. Press “+” or “-” button to adjust the slow stop speed. → Indicator lights L1-L5 will show the different speed status. The more the indicator lights are on, the faster the slow stop speed will be.
5. Press “SET” button to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### B. Operation Graphic Illustration



#### Reverse When Meeting Obstacles Setting (L3)

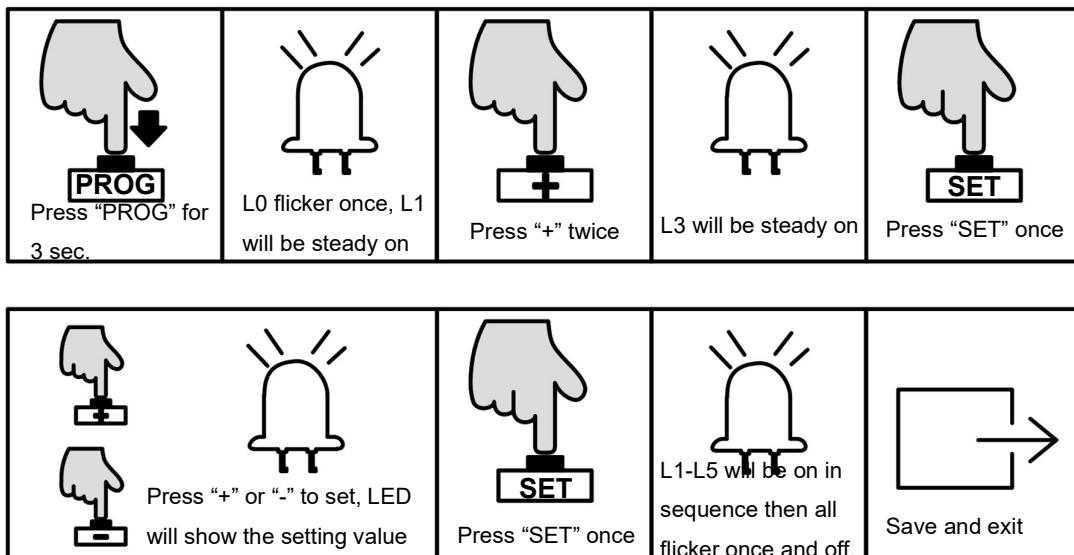
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During the gate opening or closing, accidental collision with obstacles may pose a threat to people and property. In order to prevent impact of such collision, users may adjust the sensitivity of meeting obstacles to reduce the impact damage.

#### A. Operation Instruction:

1. Press “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “+” button twice to select the reverse option. → Indicator light L3 will be steady on.
3. Press “SET” button once to enter into setting mode. → Indicator lights L1-L5 will show the current setting. (The default is L2)
4. Press “+” or “-” button to set the sensitivity of meeting obstacles. → Indicator lights L1-L5 will show the different sensitivity of meeting obstacles. The less the indicator lights are on, the more the sensitivity will be. L1-L5 are all off means to cancel the Auto-reverse function.
5. Press “SET” button once to save the setting and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### B. Operation Graphic Illustration



**Note: The default setting of this function is suitable for gate weighting 500kg and the**

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glide rail for running the gate is smooth, if this function is not workable or reverse frequently, please adjust the settings to reduce or increase a little bit.

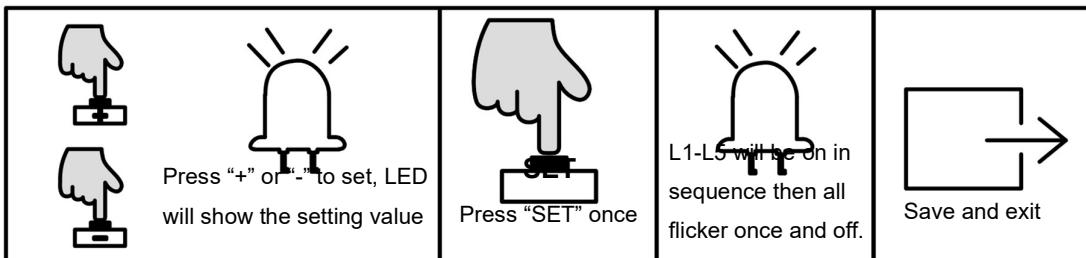
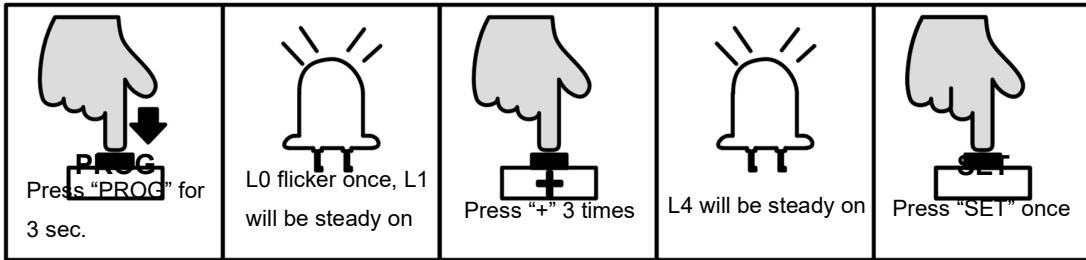
## Slow Stop Distance Setting (L4)

Setting a slow stop distance enables the gate to run more smoothly, which will extend the service life of gate and gate opener.

### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “+” button three times to select slow stop distance option. → Indicator light L4 will be steady on.
3. Press “SET” button once to enter into slow stop distance setting. → Indicator lights L1-L5 will show the current distance of slow stop. (The default is L4)
4. Press “+” or “-” button to set the slow stop distance. → Indicator lights L1-L5 will show the different slow stop distance. The more the indicator lights are on, the longer the distance will be. If the gate is heavy(over 800kg), it is recommended to set it on L4 or L5 to have a better slow stop running. If the gate weight is less than 500kg, it is recommended to set it on L2 or L1 to have a better slow stop running.
5. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

### B. Operation Graphic Illustration



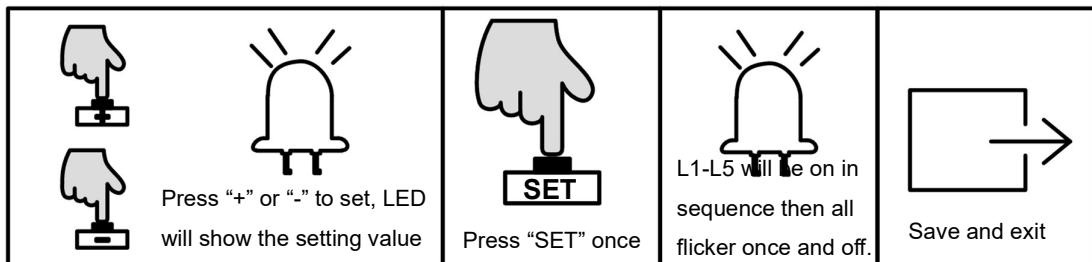
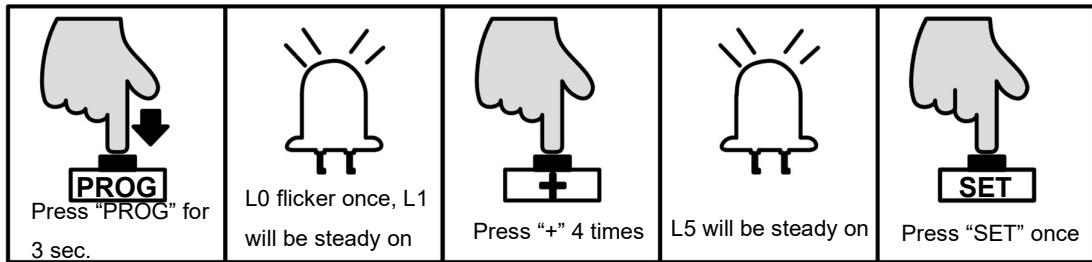
## Auto-close Function Setting (L5)

When the gate is completely open, the control board will send the auto-close signal to enable the gate to close automatically according to the pre-set auto-close time.

### A. Operation Instruction:

1. Press and hold "PROG" button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press "+" button four times to enter into Auto-close option. → Indicator light L5 will be steady on.
3. Press "SET" button once to enter into setting. → Indicator lights L1-L5 will show the current auto-close time. (The default is all indicator lights off)
4. Press "+" or "-" button to set the auto-close time. → The number of steady on indicator lights will indicate the Auto-close time. (Table 1 Auto-Close Time)
5. Press "SET" button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

### B. Operation Graphic Illustration



| Indicator light status: <input type="checkbox"/> Off <input checked="" type="checkbox"/> On <input type="checkbox"/> Flicker   | Status Instruction         |
|--|----------------------------|
| L1 <input type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>  | Cancel Auto-close function |
| L1 <input checked="" type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>   | Auto-close after 10 sec.   |
| L1 <input checked="" type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>                                  | Auto-close after 20 sec.   |
| L1 <input checked="" type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input checked="" type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>                       | Auto-close after 30 sec.   |
| L1 <input checked="" type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input checked="" type="checkbox"/> L4 <input checked="" type="checkbox"/> L5 <input type="checkbox"/>            | Auto-close after 40 sec.   |
| L1 <input checked="" type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input checked="" type="checkbox"/> L4 <input checked="" type="checkbox"/> L5 <input checked="" type="checkbox"/> | Auto-close after 50 sec.   |

Table 1 Auto-Close Time

## Advanced Menu Setting

1. Press "PROG" button for 3 Sec. under the standby mode, indicator light L0 will flicker once to enter into basic menu setting. Press "PROG" button again for 3 sec. indicator light L0 will flicker twice to enter into the advanced menu setting.
2. Different functions can be selected through "+" and "-" buttons.

3. Press “SET” button to enter into the selected function settings

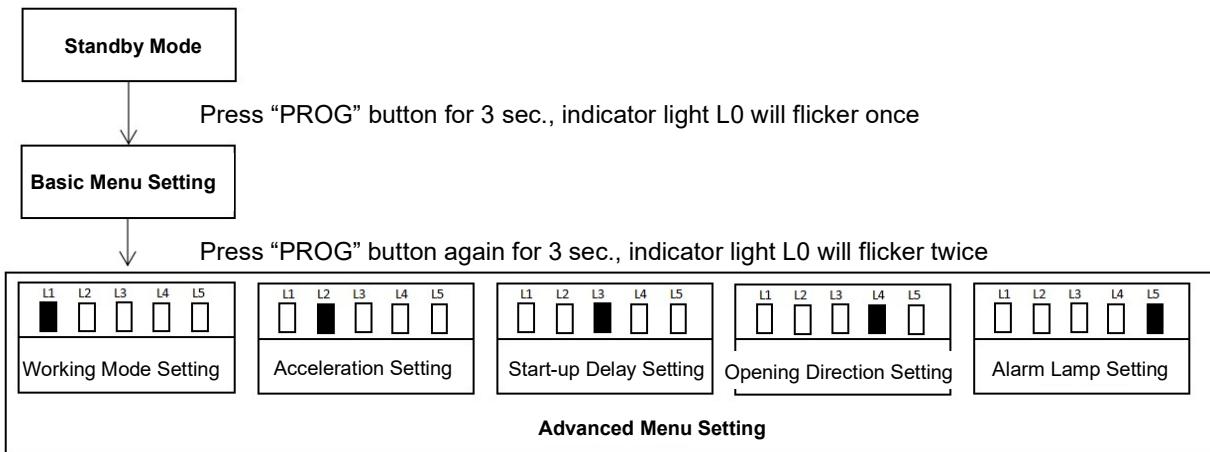


Figure 28

## Working Mode Setting (L1)

Due to the usage for this product is different for users from different regions, the control board for this product offers 3 different working modes for users to choose.

1. Standard Mode (L1):

Terminals for external buttons:

OSC: Single button control    PED: Pedestrian button    STP: Stop button

2. Three Button Mode (L2):

Terminals for external buttons:

OSC: Opening button    PED: Closing button    STP: Stop button

3. Community Mode (L3):

Terminals for external buttons:

OSC: Single button control    PED: Pedestrian button    STP: Stop button

Special function: Only the gate is completely open, can it be closed thereafter. If the gate is not completely open, then only opening and stop can be operated in order to prevent any interruption which will trigger closing during the opening travel operated by the first user.

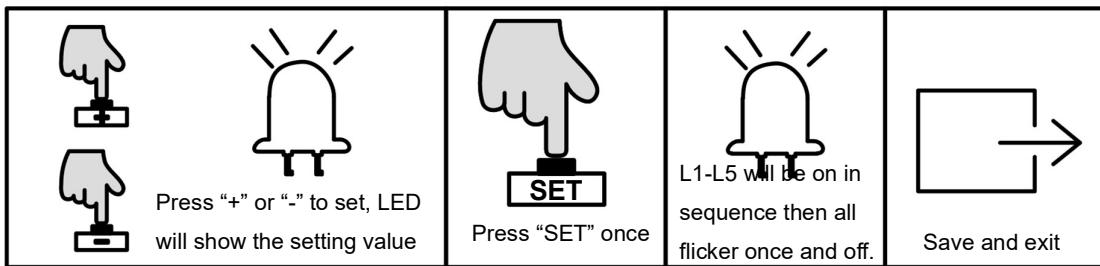
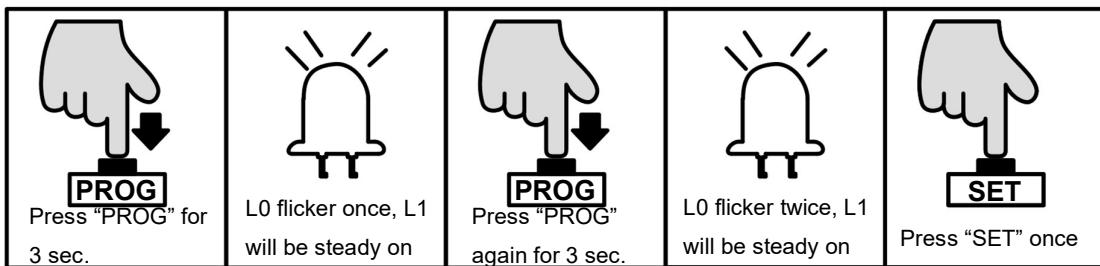
### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0

will flicker once, then L1 will be steady on.

2. Press “PROG” button again for 3 sec. to enter into advanced menu. → Indicator light L0 will flicker twice, then L1 will be steady on.
3. Press “SET” button once to enter into working mode setting. → Indicator lights L1-L3 will show the current selection. (The default is L1)
4. Press “+” or “-” button to select the working mode. → Indicator lights L1-L3 will show the current selection.
5. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### **B. Operation Graphic Illustration**



### **Acceleration Setting (L2)**

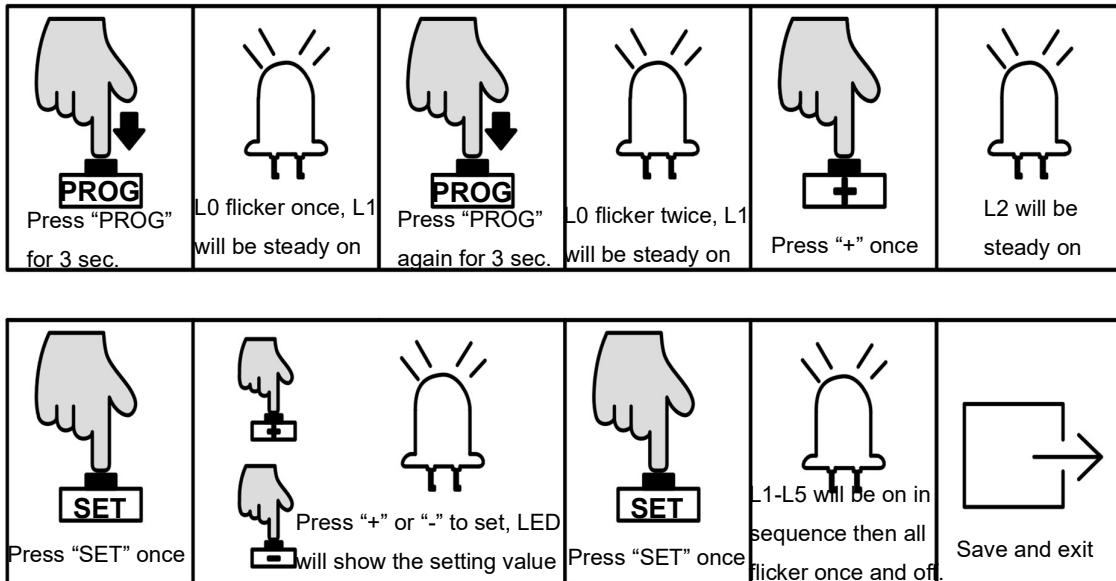
Due to the different installation environment and gate installation status, users can adjust the acceleration of starting and deceleration of buffering of the gate opener to their necessary.

#### **A. Operation Instruction:**

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.

2. Press “PROG” button again for 3 sec. to enter into advanced menu. → Indicator light L0 will flicker twice, then L1 will be steady on.
3. Press “+” button once to select acceleration option. → Indicator light L2 will be steady on.
4. Press “SET” button once to enter into acceleration setting. → Indicator lights L1-L5 will show the current acceleration value. (The default is L2)
5. Press “+” or “-” button to set the acceleration value. → Indicator lights L1-L5 will indicate the different acceleration values. The more the indicator lights will be on, the faster the speed changes.
6. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### **B. Operation Graphic Illustration**



#### **Start-up Delay Setting (L3)**

The control board of this product is with low power consumption function under standby mode. When the gate opener stopped working, the control board will automatically enter into

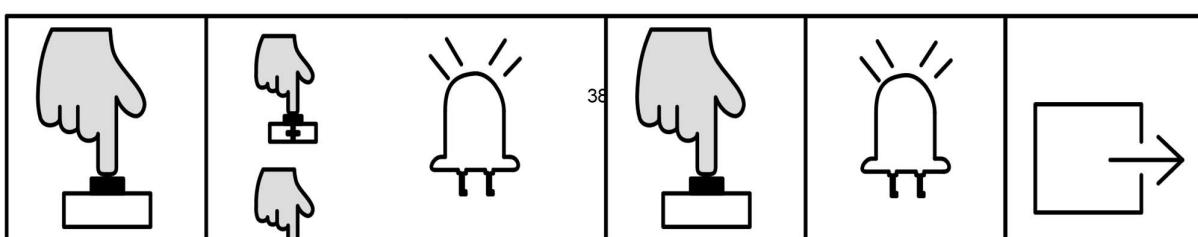
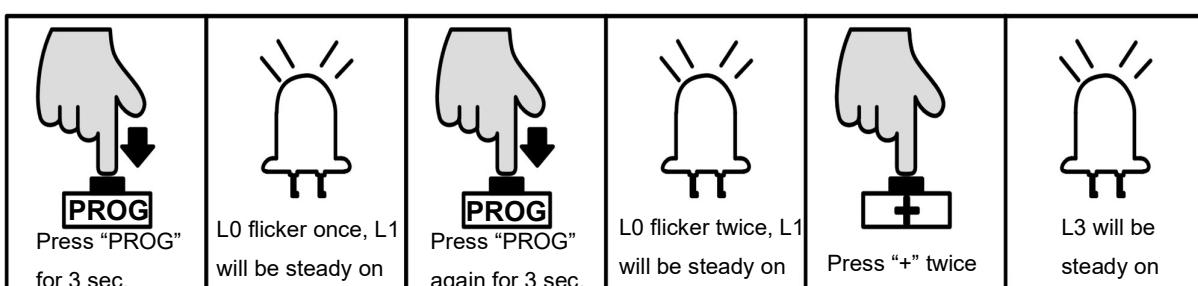
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low power consumption mode to reduce the power consumption and extend the using time of the battery. Meanwhile, in order to reduce the power consumption of external accessories under standby mode, the control board will turn off the power for infrared sensor after entering into standby mode. When the gate opener is about to operate, it'll supply the power for accessories. In order to ensure the reliability of the infrared sensor, it is requested that the control board performs delay detection to the input signal of infrared sensor. When the gate opener receives the opening/closing signal, it'll start to work after a certain time (the settled delay time)

#### **A. Operation Instruction:**

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “PROG” button again for 3 sec. to enter into advanced menu. → L0 will flicker twice, then L1 will be steady on.
3. Press “+” button twice to select start-up delay setting. → Indicator light L3 will be steady on.
4. Press “SET” button once to enter into start-up delay setting. → Indicator lights L1-L3 will show the current setting. (The default is L1)
5. Press “+” or “-” button to set the start-up delay time. → Indicator lights L1-L3 will show the current setting. (Table 2 Start-up Delay Time)
6. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### **B. Operation Graphic Illustration**



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|                                |  |                                |   |
|--------------------------------|--|--------------------------------|---|
| <b>SET</b><br>Press "SET" once | Press "+" or "-" to set, LED will show the setting value | <b>SET</b><br>Press "SET" once | L1-L5 will be on in sequence then all flicker once and off. Save and exit |
|--------------------------------|--|--------------------------------|---|

| Indicator light status:  Off  On  Flicker | Status Instruction             |
|---|--------------------------------|
| L1  L2  L3  L4  L5                        | Cancel start-up delay function |
| L1  L2  L3  L4  L5                        | Delay for 0.5 sec              |
| L1  L2  L3  L4  L5                        | Delay for 1 sec                |
| L1  L2  L3  L4  L5                        | Delay for 1.5 sec              |

**Table 2 Start-up Delay Time**

## Opening Direction Setting (L4)

This setting is for users to change the gate opening direction without exchanging the motor wires, but have to note the limit stop position.

### A. Operation Instruction:

1. Press and hold "PROG" button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press "PROG" button again for 3 sec. to enter into advanced menu. → L0 will flicker

twice, then L1 will be steady on.

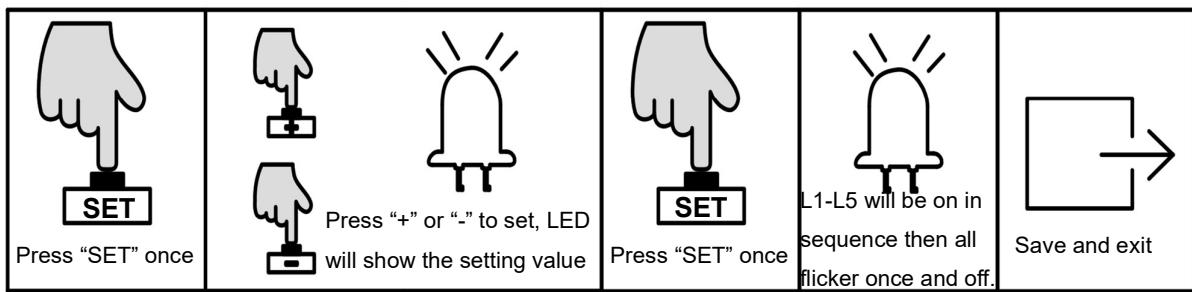
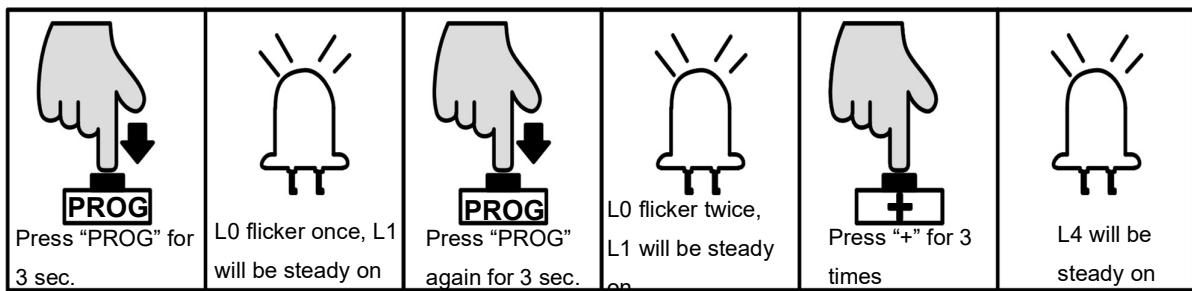
3. Press “+” button three times to select opening direction option. → Indicator light L4 will be steady on.

4. Press “SET” button once to enter into opening direction setting. → Indicator light L1 will indicate the current setting. (Default is L1 on)

5. Press “+” or “-” button to set the opening direction. → Indicator light L1 on or off stands for the 2 directions. (L1 on: open to right-hand; L1 off: open to left-hand)

Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

## B. Operation Graphic Illustration



**Note: After changing the opening direction, L1 and L2 will flicker together, it's a notice that reminding you to re-set the running travel for the gate. Before re-setting, it's**

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extremely important to enter into manual control mode to confirm the polarities of the limit switch stops are correct and well contacted to the magnetic limit switch.

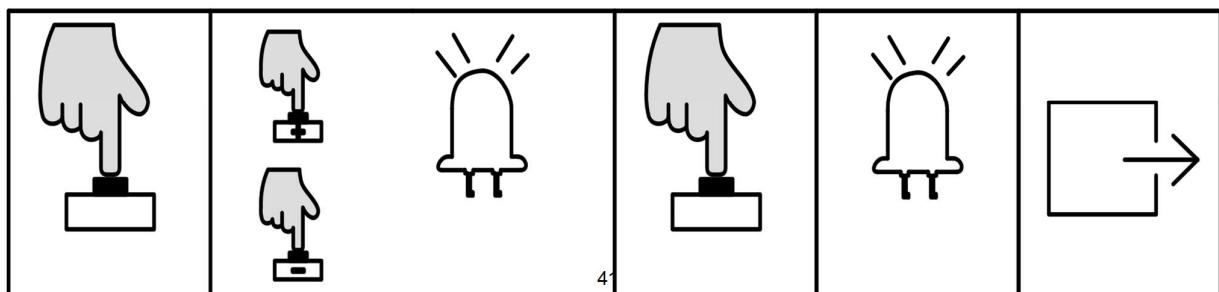
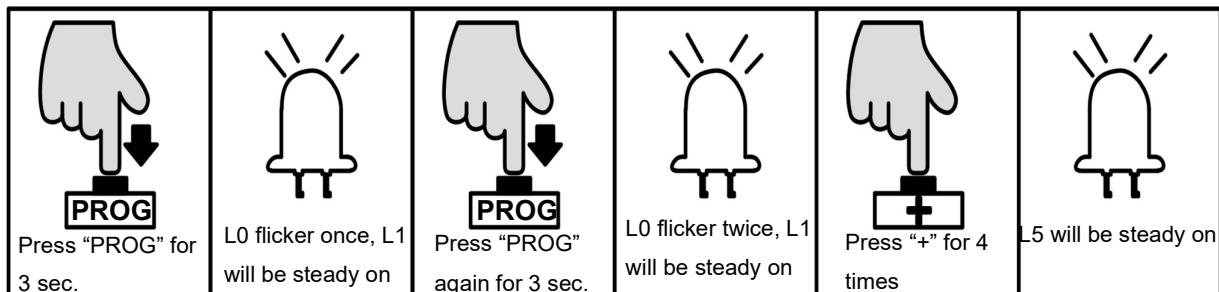
## Alarm Lamp Setting(L5)

This setting is to select the working mode of alarm lamp (blinker or steady on)

### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “PROG” button again for 3 sec. to enter into advanced menu. → L0 will flicker twice, then L1 will be steady on.
3. Press “+” button four times to select alarm lamp working mode option. → Indicator light L5 will be steady on.
4. Press “SET” button once to enter into alarm lamp working mode setting. → Indicator light L1 will show the current setting.
5. Press “+” or “-” button to set the alarm lamp working mode. → Indicator light L1 on or off will indicate the alarm lamp working mode. (L1 off: blinker; L1 on: steady on)
6. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

### B. Operation Graphic Illustration



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|                  |                              |                  |  |
|------------------|------------------------------|------------------|--|
| <b>SET</b>       | Press “+” or “-” to set, LED | <b>SET</b>       | L1-L5 will be on in                        |
| Press “SET” once | will show the setting value  | Press “SET” once | sequence then all<br>flicker once and off. |

## Other Menu Setting

1. Press “PROG” button for 3 Sec. under the standby mode, indicator light L0 will flicker once to enter into basic menu setting. Press “PROG” button again for 3 sec. indicator light L0 will flicker twice to enter into the advanced menu setting. Then press “PROG” button for 3 sec., the indicator light L0 will flicker three times then enter into other menu setting.
2. Different functions can be selected through “+” and “-” buttons.
3. Press “SET” button to enter into the selected function settings.

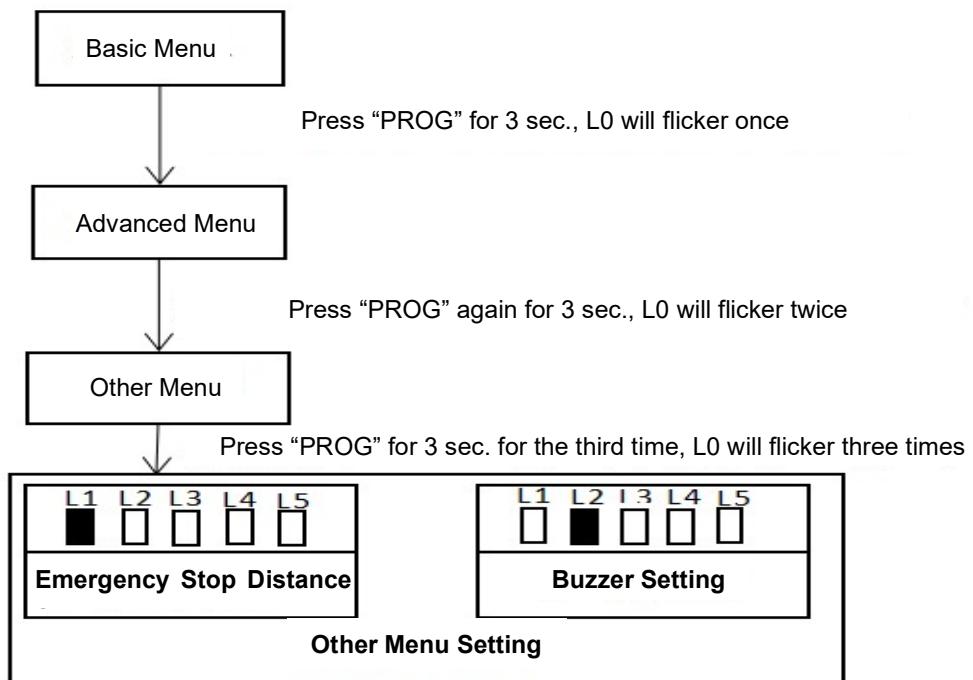


Figure 29

## Emergency Stop Distance Setting(L1)

This setting is to change the distance of emergency stop during gate running. A longer distance will reduce the damage to the gate brings by impact force of emergency stop. Users

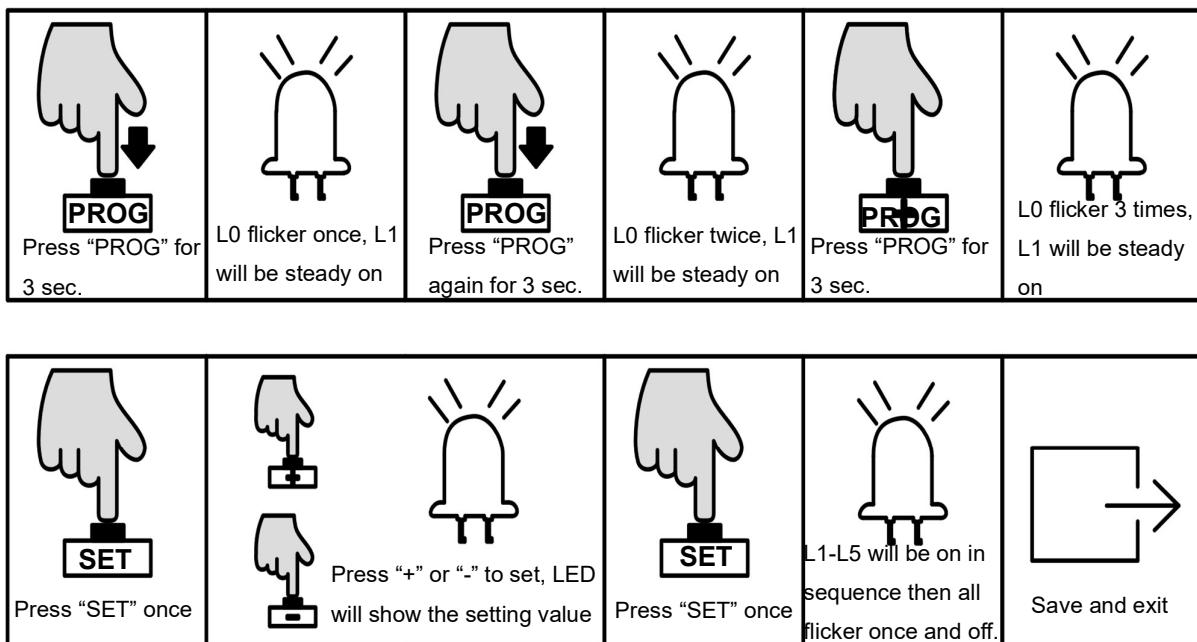
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can set the distance to their required.

#### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “PROG” button again for 3 sec. to enter into advanced menu. → L0 will flicker twice, then L1 will be steady on.
3. Press “PROG” button for 3 sec. for the third time to enter into other menu setting. → L0 will flicker three times, then L1 will be steady on.
4. Press “SET” button once to enter into emergency stop distance setting. → Indicator light L1 to L5 will show the current setting value. (Default is L2)
5. Press “+” or “-” button to set the emergency stop distance. → Indicator lights L1-L5 will indicate different distance, the more the indicator lights are on, the longer the distance will be, the better the buffering will be before gate stopped.
6. Press “SET” button once to save and system will automatically exit. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off.

#### B. Operation Graphic Illustration



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## Buzzer Setting(L2)

This setting is to enable or disable the buzzer, users can set to their required.

There are four types of buzzer this motor will make for different conditions:

1. Motor works normally under mains power: the buzzer sounds short but long lasting.
2. Motor works normally under battery power: the buzzer sounds strident but long lasting, and will stop after 6 sec.
3. Motor works abnormal due to low battery power: the buzzer sounds strident but long lasting, and will stop after 3 sec.
4. Motor works abnormal due to control board error: the buzzer sounds strident but long lasting.

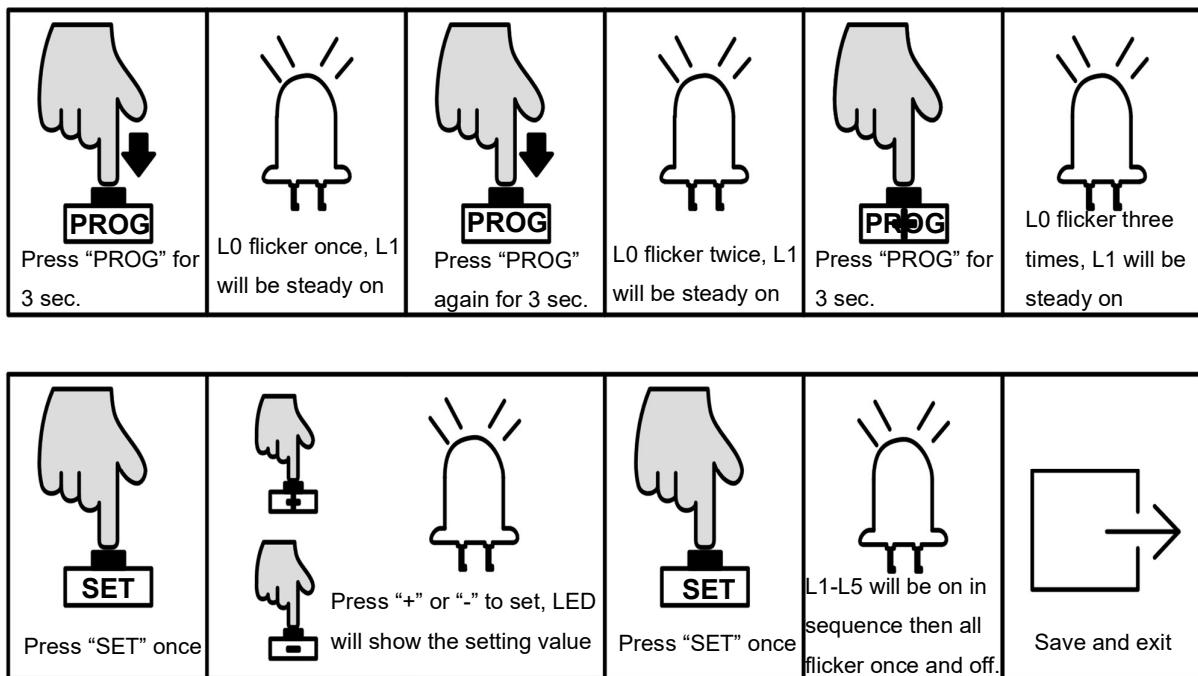
### A. Operation Instruction:

1. Press and hold “PROG” button for 3 sec. to enter into basic menu. → Indicator light L0 will flicker once, then L1 will be steady on.
2. Press “PROG” button again for 3 sec. to enter into advanced menu. → L0 will flicker twice, then L1 will be steady on.
3. Press “PROG” button for 3 sec. for the third time to enter into other menu setting. → L0 will flicker three times, then L1 will be steady on.
4. Press “+” button twice to select buzzer setting option. → Indicator light L2 will be steady on.
5. Press “SET” button once to enter into buzzer setting. → Indicator light L1 on or off will indicate the current setting value. (Default is L1 off)
6. Press “+” or “-” button to enable or disable the buzzer. → Indicator light L1 off: enable; on: disable.
7. Press “SET” button once to save and system will automatically exit. → The indicator

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lights L1-L5 will be on in sequence, then all will flicker once and off.

## B. Operation Graphic Illustration



**Note: The buzzer cannot be disabled under battery powered.**

## Battery Level Checking

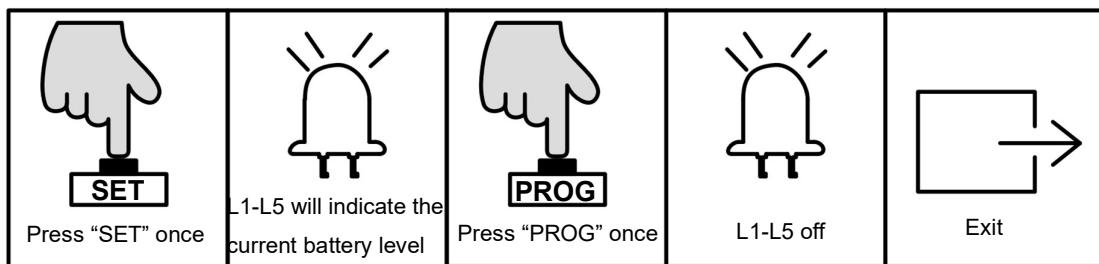
The current battery level can be checked through the indicator lights. When the battery

power is low (battery voltage < 11.3V), the gate opener will stop running to protect the battery being damaged. Under such circumstance, users may have to unlock the gate opener first, then move the gate by hand.

#### **A. Operation Instruction:**

1. Press “SET” button once. → Indicator lights L1-L5 will indicate the current battery level (Table 3 Battery Level)
2. Press “PROG” button once to exit the battery level checking. → Indicator lights L1-L5 will be off.

## **B. Operation Graphic Illustration**

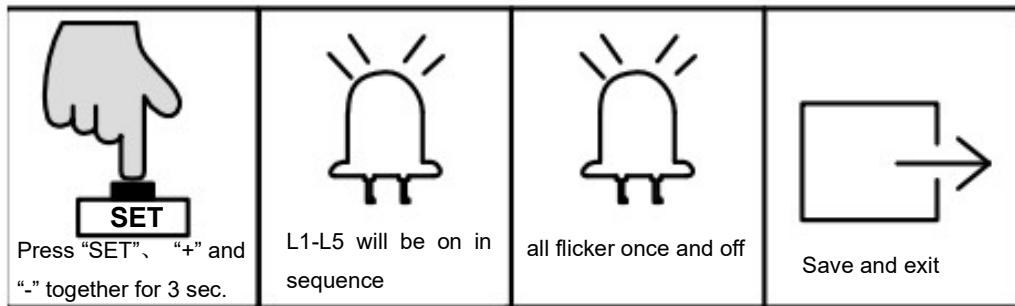


| Indicator Light Status | Off | On | Flicker |    | Status Instruction |    |                            |   |                            |   |                            |
|------------------------|-----|----|---------|----|--------------------|----|----------------------------|---|----------------------------|---|----------------------------|
| L1                     | █   | █  | █       | L3 | L4                 | L5 | Battery Level $\geq 12.6V$ |   |                            |   |                            |
| L1                     | █   | █  | █       | L3 | █                  | L4 | L5                         | █ | Battery Level $\geq 12.3V$ |   |                            |
| L1                     | █   | █  | █       | L3 | █                  | █  | L4                         | █ | L5                         | █ | Battery Level $\geq 12.0V$ |
| L1                     | █   | █  | █       | L3 | █                  | █  | L4                         | █ | L5                         | █ | Battery Level $\geq 11.7V$ |
| L1                     | █   | █  | █       | L3 | █                  | █  | L4                         | █ | L5                         | █ | Battery Level $\geq 11.3V$ |
| L1                     | █   | █  | █       | L3 | █                  | █  | L4                         | █ | L5                         | █ | Battery Level $< 11.3V$    |

**Table 3 Battery Level**

## Restore Factory Setting

1. Simultaneously press the three buttons “SET”、“+” and “-” for 3 sec. → The indicator lights L1-L5 will be on in sequence, then all will flicker once and off. Save and exit.



## Control Board Error Instruction

The indicator light will display the error during gate running:

| Indicator Light Status:   | <input type="checkbox"/> Off <input checked="" type="checkbox"/> Flicker | Status Instruction                    |
|---|--|---------------------------------------|
| L1 <input checked="" type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>            |  | Meeting obstacles during gate opening |
| L1 <input type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>            |  | Meeting obstacles during gate closing |
| L1 <input type="checkbox"/> L2 <input type="checkbox"/> L3 <input checked="" type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/>            |  | Running time over 60S                 |
| L1 <input type="checkbox"/> L2 <input type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input checked="" type="checkbox"/>            |  | Infrared photocell disconnecting      |
| L1 <input checked="" type="checkbox"/> L2 <input type="checkbox"/> L3 <input checked="" type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/> |  | No hall sensor                        |
| L1 <input checked="" type="checkbox"/> L2 <input checked="" type="checkbox"/> L3 <input type="checkbox"/> L4 <input type="checkbox"/> L5 <input type="checkbox"/> |  | No travel                             |

Table 4 Error Instruction

## Maintenance

The gate should be checked every month to make sure it operates normally.

For the sake of safety, each gate is suggested to be equipped with infrared protector, and regular inspection is required.

Before installation and operation of the gate opener, please read all instructions carefully. Our company keep the right to change the instruction without prior notice.

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## Troubleshooting

**Any troubleshooting work below done to the motor must be completed by a licensed electrician and only whilst the power is off and the motor is unplugged!**

| Problem   | Possible Reason  | Solution  |
|---|--|---|
| The gate cannot open or close normally, indicator light doesn't on. | 1. The power supply is disconnected.<br>2. Fuse is blown.<br>3. Control board X2 terminal wrongly wired.   | 1. Connect the power supply.<br>2. Check the fuse (FU) and replace if blown.<br>3. Re-wiring according to this user manual.   |
| The gate can only open, can't close.                                | 1. Photocell wrongly wired.<br>2. Photocell wrongly installed.<br>3. Photocell is blocked by objects.<br>4. Sensitivity of meeting obstacle is too high. | 1. If not connect photocell, please ensure the infrared terminal and GND terminal has a jumper wire; if connect photocell, please ensure the wiring is correct and the photocell type is N.C.<br>2. Ensure that the photocell mounting position can be mutually aligned.<br>3. Remove the obstacle.<br>4. Reduce the sensitivity of obstacle. |
| Remote control doesn't work.  | 1. Battery level is too low.<br>2. Remote control not paired.  | 1. Change the battery.<br>2. Pair the remote control to the gate opener.  |
| Press OPEN, CLOSE button, the gate is not smoothly.                 | 1. Gate moving is not smoothly.  | 1. Adjust the motor or gate according to the actual situation.  |

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|  |  |   |
|--|--|---|
| moving, motor has noise.                                       | 2. Hall sensor damaged.<br>2. Replace the hall sensor.   |   |
| Arrived at open or closed limit switch, but motor didn't stop. | 1. Magnetic limit switch damaged.<br>2. Polarities of the two limit switch stops are opposite.<br>3. Hall sensor part damaged. | 1. Change the magnetic limit switch.<br>2. Switch over the two limit switch stops.<br>3. Change the hall sensor part. |
| Leakage switch tripped.  | Power supply wires short circuit or motor wires short circuit.   | Check wiring.   |

## Drawing and Measurements

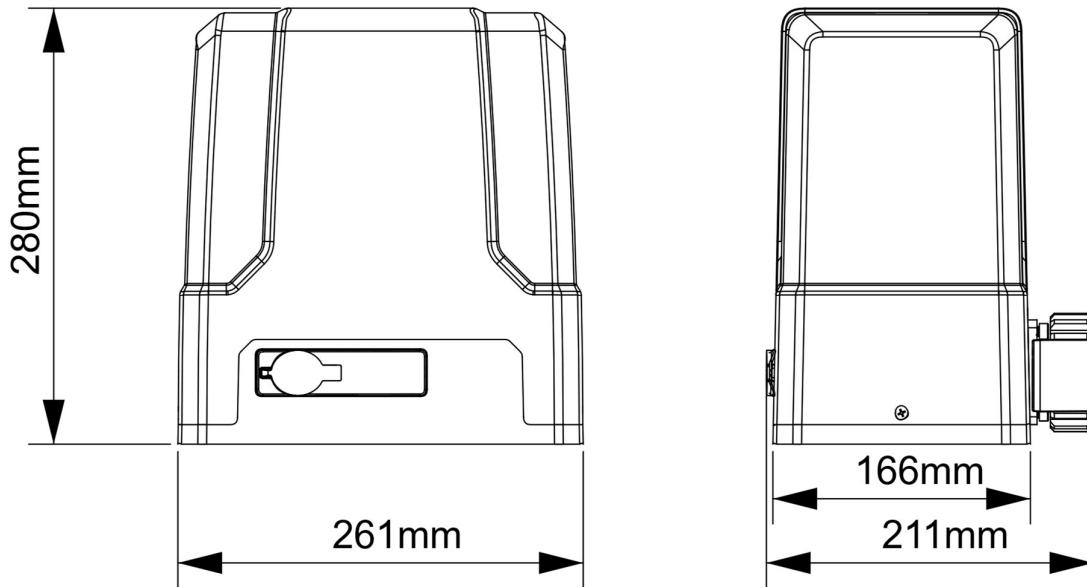


Figure 30