



serenelife SLGATEOP Automatic Sliding Gate Motor for Slide Gates User Manual

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serenelife SLGATEOP Automatic Sliding Gate Motor for Slide Gates



Product Information

- **Product Name:** SLGATEOP Automatic Sliding Gate Motor
- **Description:** This sliding gate motor is designed for slide gates weighing up to 1322lbs. It comes with a remote control unit and various accessories for installation.

Safety Instructions:

- Ensure that the power voltage matches the supply voltage of the gate opener (AC110V or AC220V).
- Keep the control devices and remote-control unit away from children.
- Use the appropriate mode (single button or three button) on the remote-control unit based on the gate opener type.
- Do not operate the switch when anyone is near the main engine or gate.
- Temporarily stop using the product if the main engine needs repair or regulation.
- Installation and maintenance should be done by professionals.

Product Usage Instructions

1. Ensure the sliding gate is correctly installed, with a horizontal gate rail and smooth manual movement.
2. Bury the motor & power cable and controlling cable separately using two PVC tubes to protect them from damages.
3. Refer to the packing list to ensure all components are included.
4. Follow the provided installation drawing to correctly position the gate opener, wireless keypad (if applicable), infrared sensor (if applicable), alarm lamp (if applicable), safety stop block, chain, and remote control.
5. Refer to the size of the main engine and accessories provided in the manual to determine the appropriate dimensions for installation.
6. Carry out the necessary preparation work before installation, as mentioned in the manual.
7. Consult the manual for detailed installation procedures.

For more information and support, please visit www.SereneLifeHome.com.

Please read this manual carefully before installation and use.

Please do not forget to include this manual if you send the product to a third party.

Safety Instruction



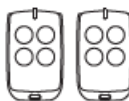




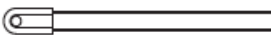
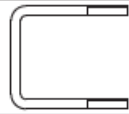

Please make sure that the power voltage being used matches with the supply voltage of gate opener (AC110V or AC220V); kids are not allowed to touch the control devices or the remote-control unit.



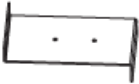
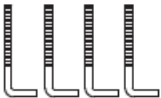
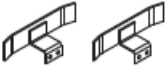

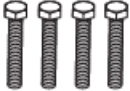



The remote-control unit is single button mode or three button mode (please refer to the instructions of the remote control in accordance with the actual gate opener type). The indicator light on the remote-control unit will flicker when its button is pressed. Main engine and gate can be unlocked with a disengagement wrench and the gate can be manually operated after disengagement.




Please make sure that nobody is around the main engine or gate when the switch is operated. Please temporarily stop using the product if the main engine needs to be repaired or regulated. The installation and maintenance of the product must be carried out by professionals.

Please read this manual carefully before installing, using, maintaining or repairing it. Without following this manual, any injury or property losses caused by improper use or unauthorized modification is out of the responsibility of our company.

Packing List (standard / detachable mounting base)

No.	Picture	Name	Quantity
1		Main engine	1
2		Manual release key	2
3		Remote control	2
4		Mounting accessories box	1
4-1		Sprocket cover	1
4-2		Chain link	2
4-3		Chain	6m
4-4		Tie rod	2
4-5		Square screw	4
4-6		Round screw	4

No.	Picture	Name	Quantity
4-7		Door connecting plate	2
4-8		Horizontal mounting plate	1
4-9		Vertical mounting plate	2
4-10		Foundation bolt M8	4
4-11		Magnetic switch block	1
4-12		Inner hexagon screw M6×20	4
4-13		Hexagon screw M6×65	4
		Hexagon screw M8×45	4
4-14		Nut M6	16
		Nut M8	16
4-15		Flat washer φ6	16
		Flat washer φ8	16
4-16		Spring washer φ6	16
		Spring washer φ8	12

No.	Picture	Name	Quantity
1		Infrared sensor	1
2		Wireless keypad	1
3		Alarm lamp	1

Installation

Automatic Sliding Gate Motor is applicable to gate weight less than 600kg, and length of the sliding gate less than 8m. The drive mode adopts the sprocket and chain transmission. This gate opener must be installed inside the enclosure or yard for protection.

Installation Drawing

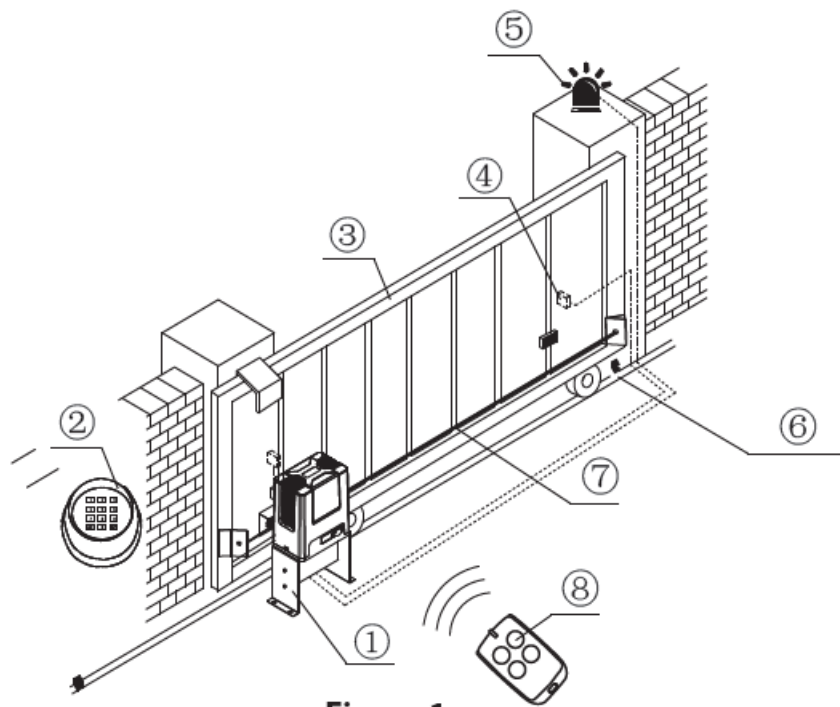
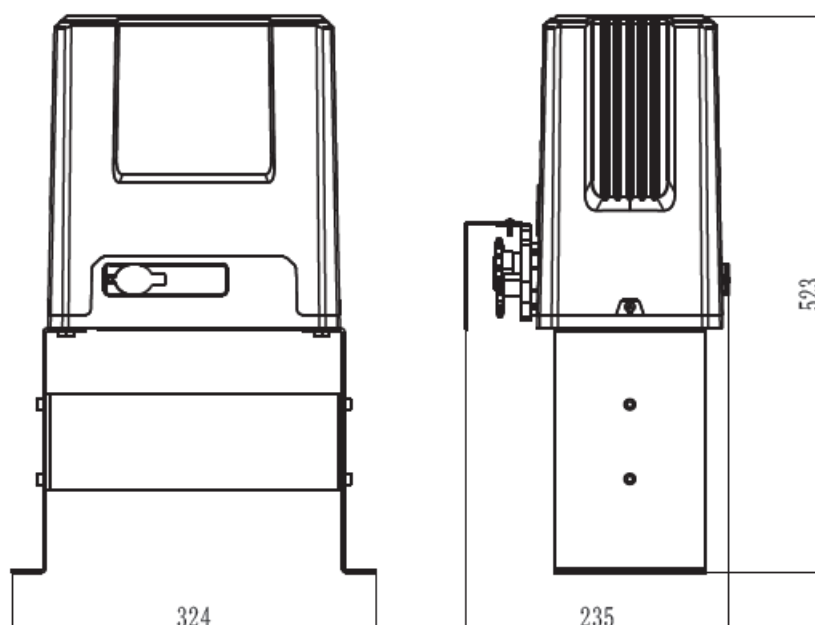


Figure 1

1. Gate opener;
2. Wireless keypad (optional);
3. Gate;
4. Infrared sensor (optional);
5. Alarm lamp (optional);
6. Safety stop block;
7. Chain;
8. Remote control;

Size of main engine and accessories

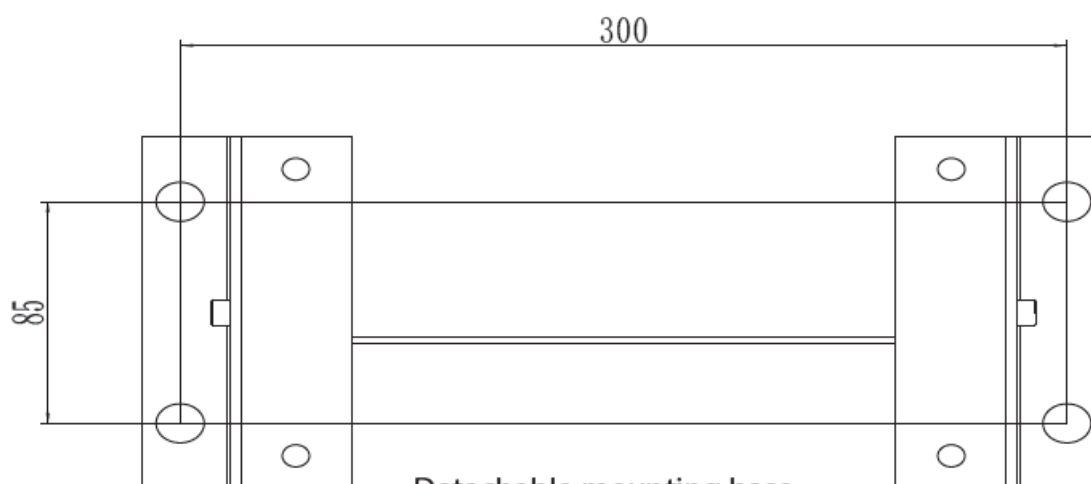
Size of main engine



Detachable mounting base

Figure 2

Size of embedded hole



Detachable mounting base

Figure 3

Installation procedures

Preparation work before installation

Please make sure that the sliding gate is correctly installed, the gate rail is horizontal, and the gate can be manually moved smoothly before installing the gate opener.

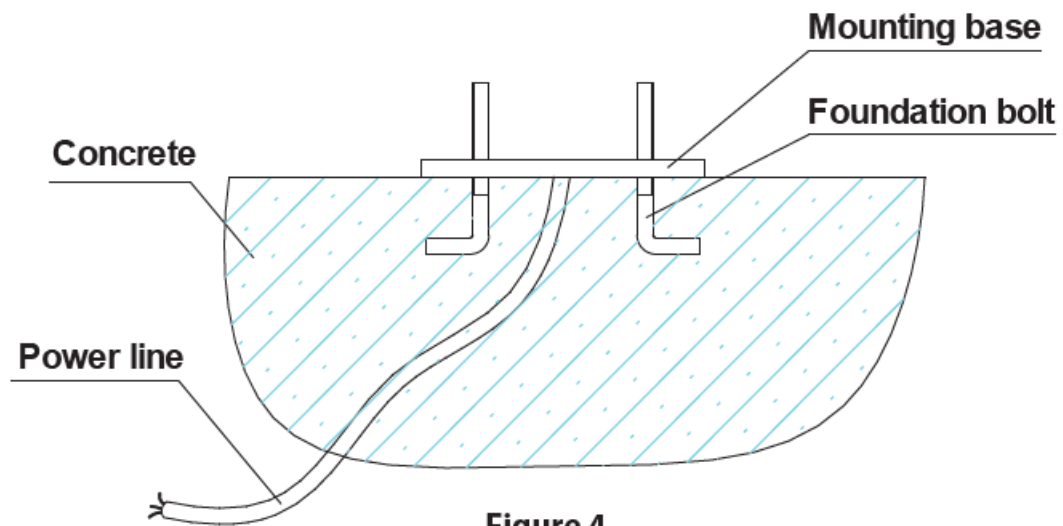
Cable installation

In order to guarantee the normal operation of the gate opener and protect the cables from damages, please bury the motor & power cable and controlling cable separately with two PVC tubes.

Concrete pedestal

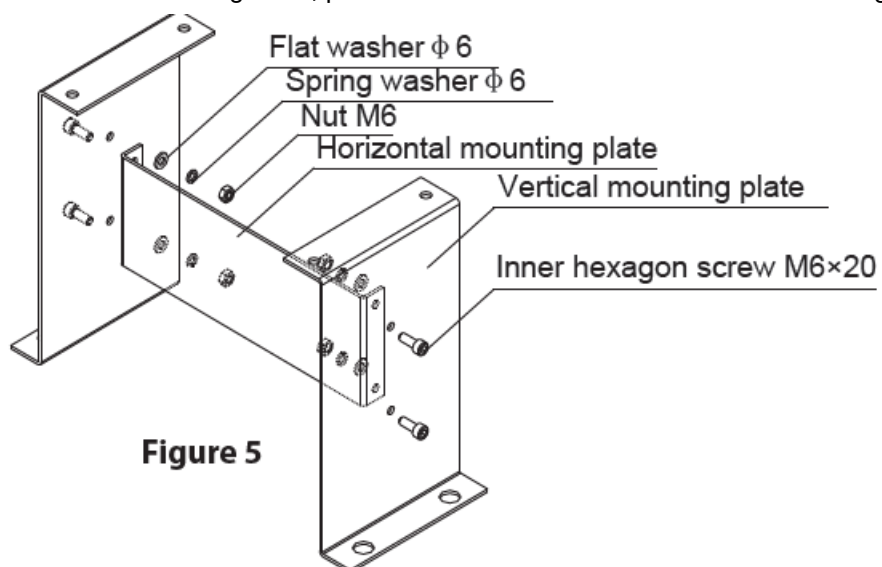
Please precast a concrete pedestal with the size can be 500mm x 300mm, depth be 250mm in advance, so as to firmly install Automatic Sliding Gate Motor. Please make sure the distance between the gate and gate opener is appropriate before casting the pedestal.

Embedded screws

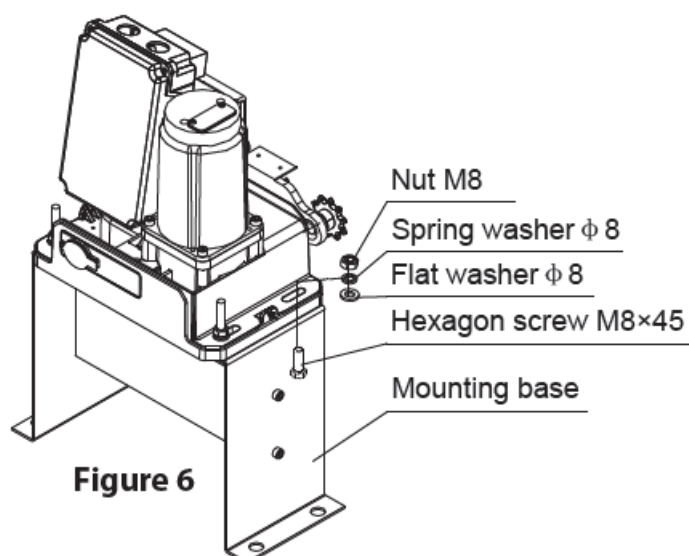


Main engine installation

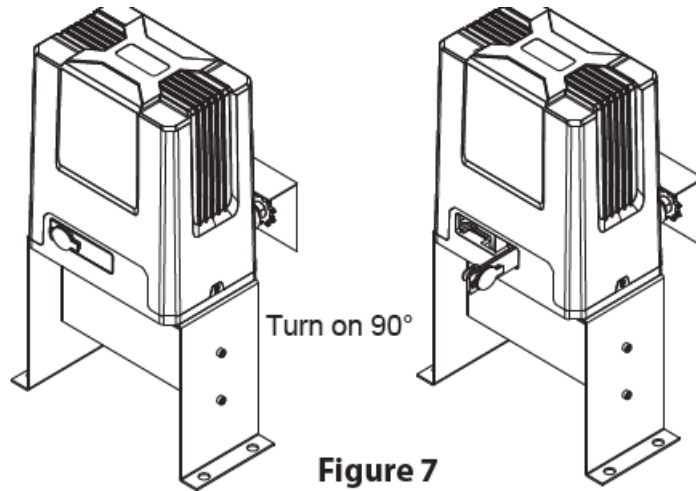
- Dismantle the plastic housing on the main engine before installation and keep relevant fasteners properly;
- If you select the detachable mounting base, please assemble the base first as shown in Figure 5;



- Assemble the machine engine to the mounting base as shown in Figure 6;



- Prepare the power line for connecting the mounting plate to the main engine (the number of power supply cable cores should not be less than 3 PCS, the sectional area of cable core should be over 1.5mm² and the length should be determined by users according to the situation on installation spot)
- Unlock the main engine before installation, the unlock method is: take out the key cover, insert the key, and open the manual release bar till it rotates by 90° as shown in Figure 7. Then turn the output sprocket and the sprocket can be rotated easily;

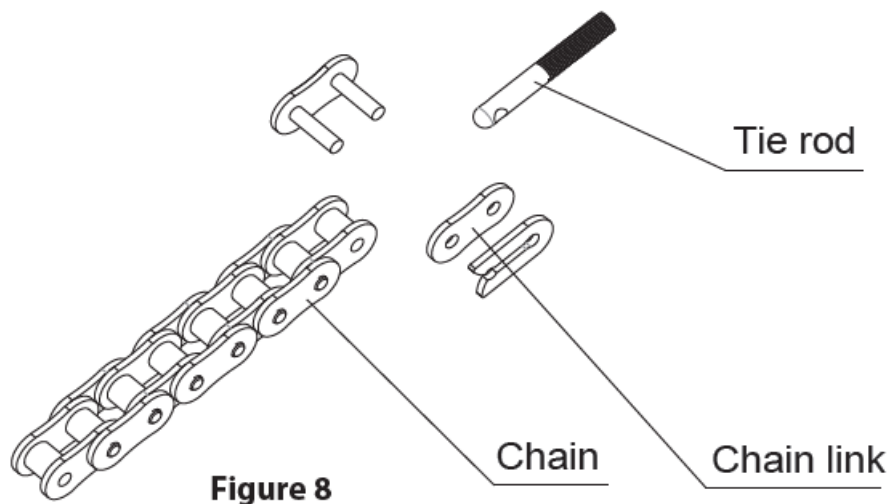


Chain installation

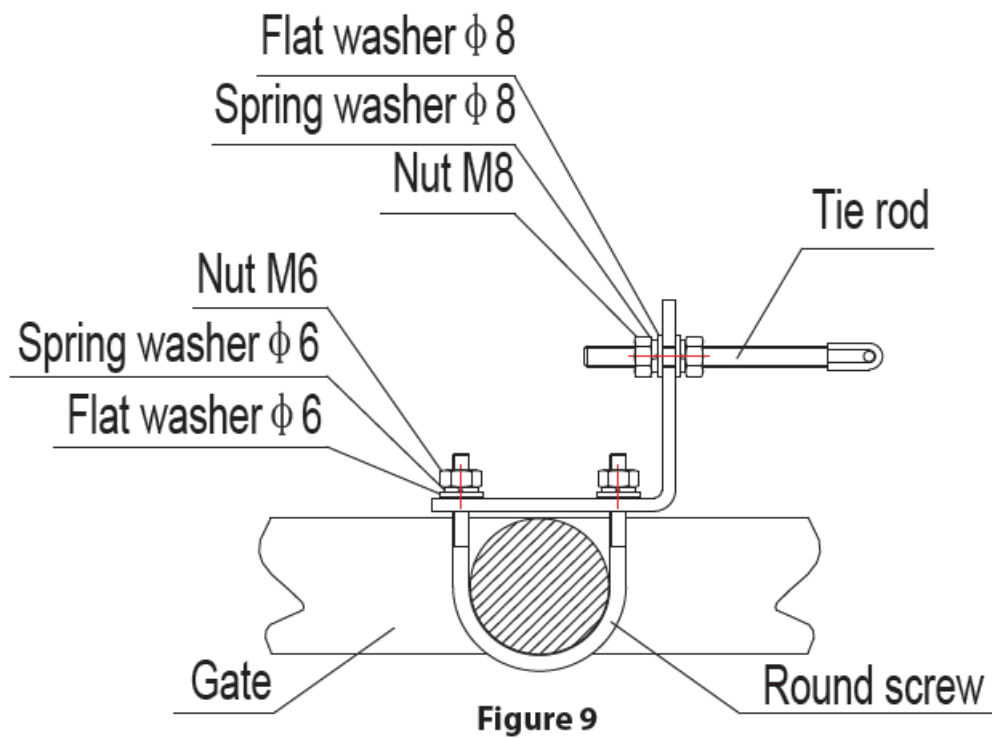
Close the gate; connect the tie rod with chain through chain link; fasten the tie rod to the door connecting plate with washers and nuts as shown in Figure 8.

If necessary, the elasticity of the chain can be adjusted through the tie rod at both ends as shown in Figure 9 and 10. If necessary, the chain can be shortened.

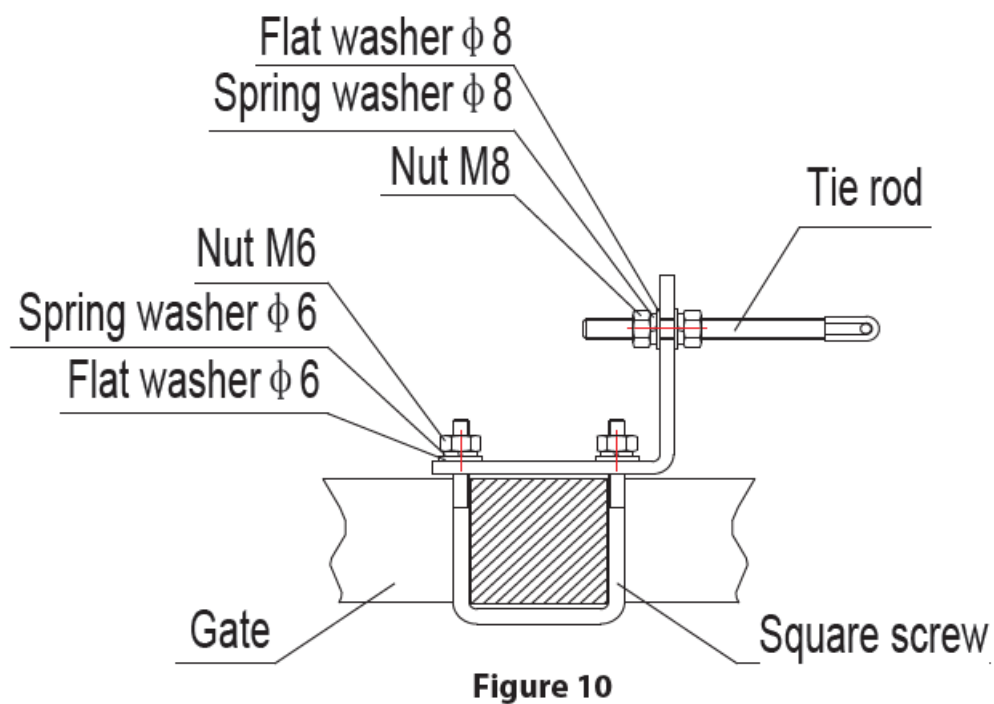
If it needs to be lengthened, make sure to use the same type of chain.



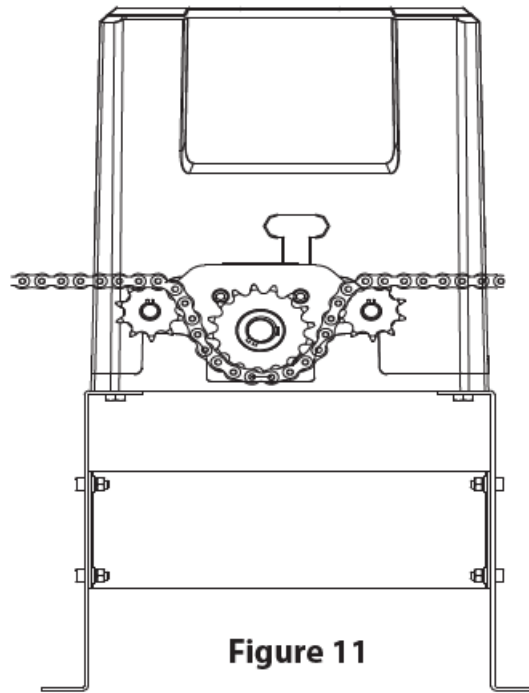
If door frame is round, please use the round screw as shown in Figure 9:



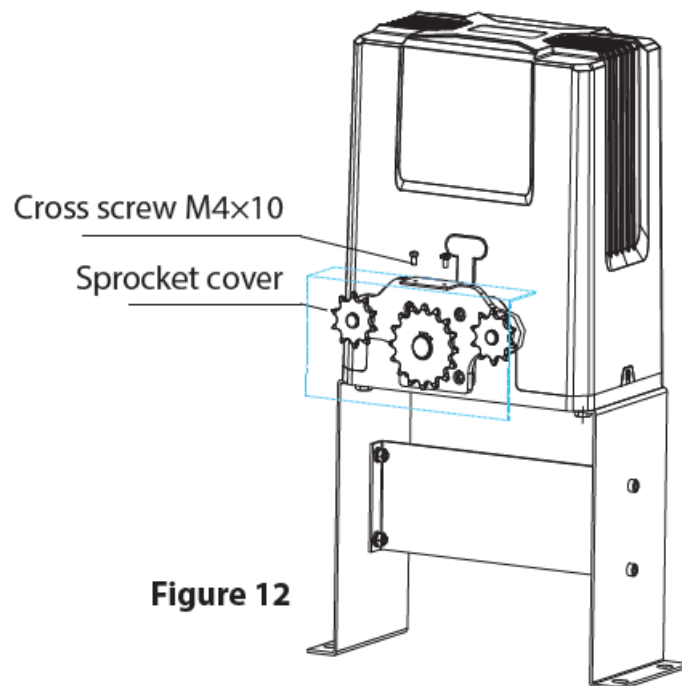
If door frame is square, please use the square screw as shown in Figure 10



Installation of the chain between the small and big sprocket as shown in Figure 11



Installation of the sprocket cover as shown in Figure 12



The distance between main engine and chain ends should be at least 30CM, as shown in Figure 13.

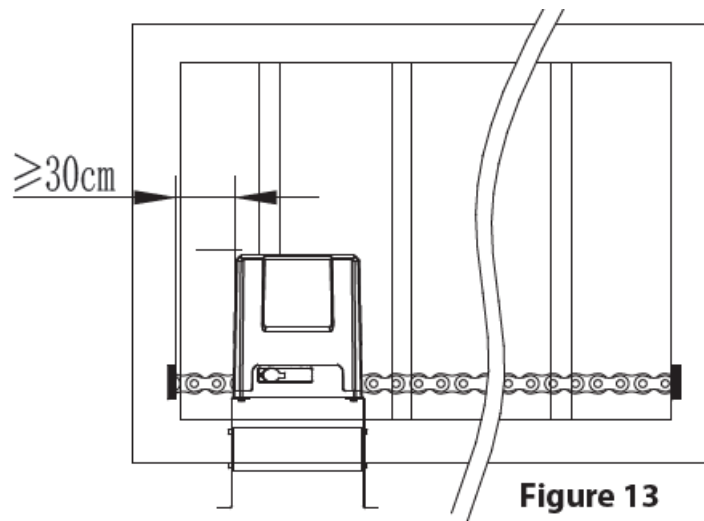


Figure 13

Warnings

- To ensure safety, install safety stop blocks on both ends of the rails to prevent the gate from running out of the rail. Before installing the main engine, make sure that the safety stop blocks are in place and whether it has the function of preventing the gate from running out of the rail or safety range.
- Please make sure that the main engine and its components have good mechanical properties, and the gate can be operated flexibly when manually moved before installing the main engine.
- Please note that for this product, one control can only drive one main engine, otherwise, the control system will be damaged.
- Earth leakage circuit breaker must be installed in where the gate movement can be seen, and the minimum mounting height is 1.5m to avoid being touched by children.
- After installation, please check whether the mechanical property is good or not, whether gate movement after manual unlocking is flexible or not, whether the installation for infrared sensor (optional) is correct and effective.

Limit switch adjustment

Use the manual release key to unlock gate opener and manually move the gate to the predetermined position; fix the magnetic limit switch block and close the clutch; testing run after power on, slightly adjust the position of the magnetic limit switch block until the gate reaches the desired open and close limit location. Installation position of magnetic limit switch as shown in Figure 14 and Figure 15

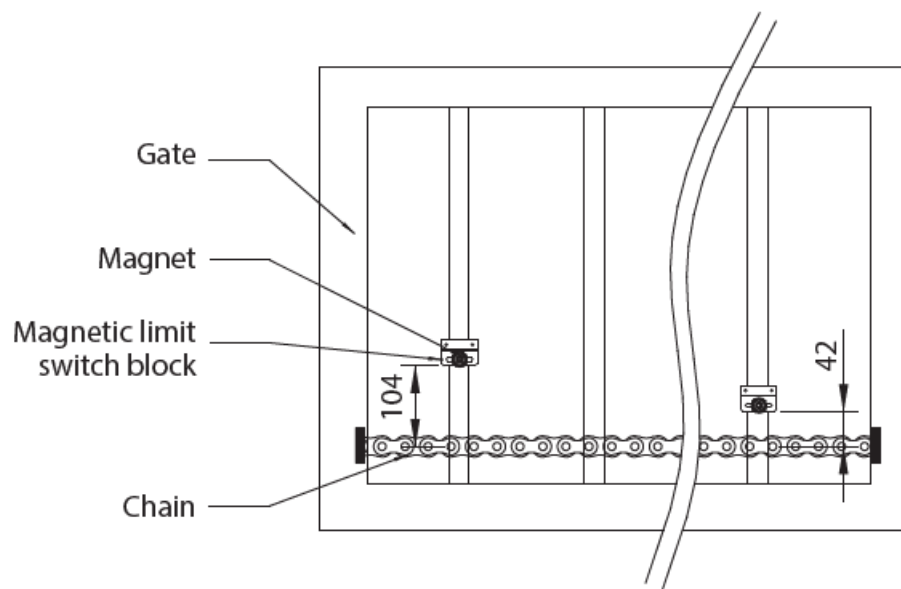


Figure 14

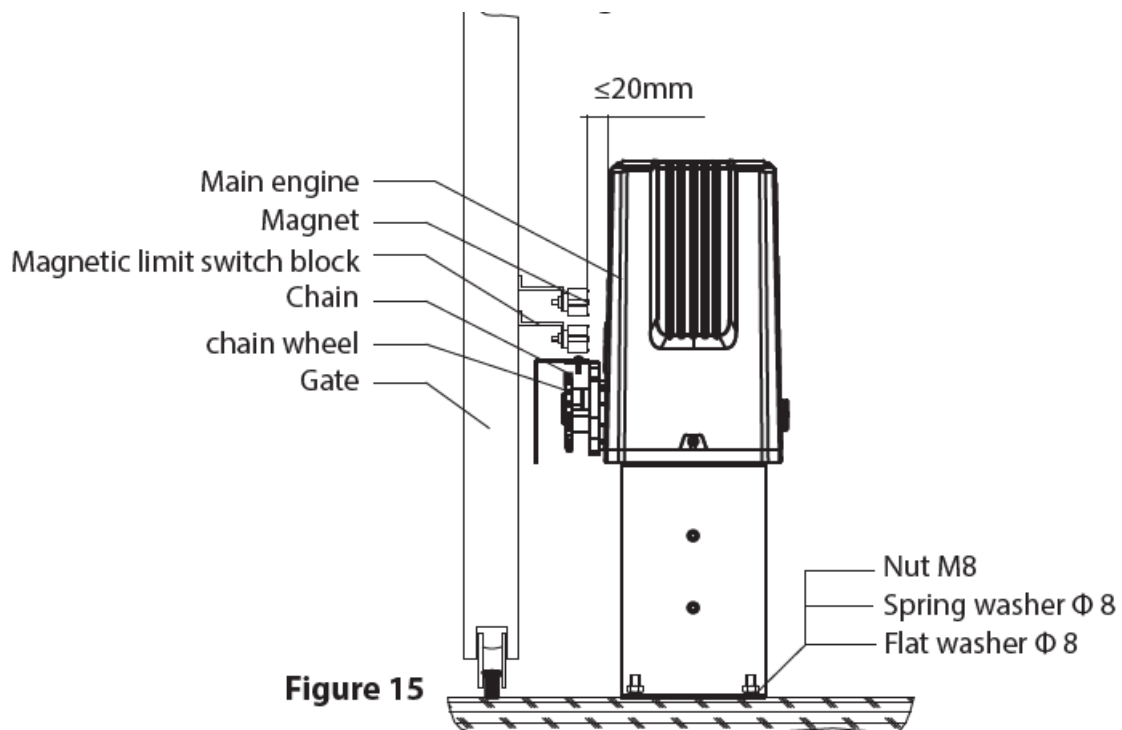


Figure 15

Note:

The default setting is right side mounting. (According to actual situation, please refer to the “Note” of section 4.3.5.1 and 4.3.5.2 “Adjustment and operation” to adjust.)

Control board wiring

Standard control board

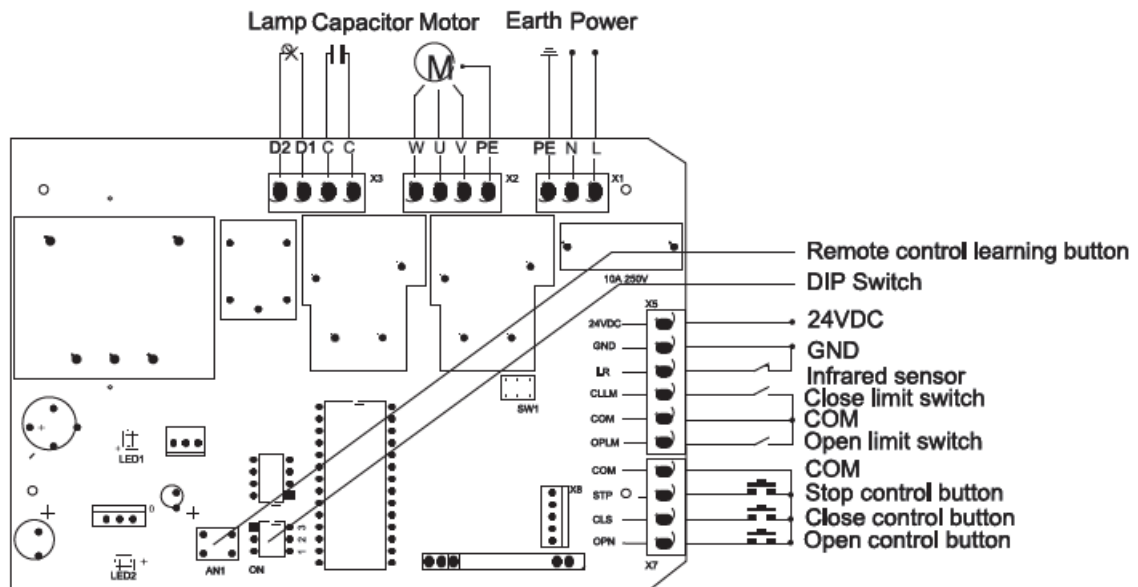


Figure 16

Wiring instruction:

1. Connect L and N to the power supply of AC220V/50HZ; AC110V/60HZ; L is Live wire, N is Neutral wire, and PE is grounding wire.
2. Connect LAMP to D1, D2; voltage: AC220V/50HZ; AC110V/60HZ.
3. Connect the motor wire U to the REV motor wire, connect W to the FWD motor wire, and connect V to the motor common wire.
4. Connect C, C to the capacitor wire.

X5 Terminal

- 24VDC Power supply for Flttings +24VDC (Electric current 50mA);
- GND Power ground;
- I.R Photocell input (N.C.);
- CLLM Close limit switch;
- COM Limit switch common terminal;
- OPLM Open limit switch

X7 Terminal

- COM Control button common terminal;
- STP Stop control button (N.O.);
- CLS Gate close control button (N.O.);
- OPN Gate open control button (N.O.).

DIP Switch

1. External button switch. ON – Three button switch; OFF – Single button switch (X7 terminal CLS button can be

used to circularly control OPEN/STOP/CLOSE/STOP of the main engine)

2. Automatic close time.

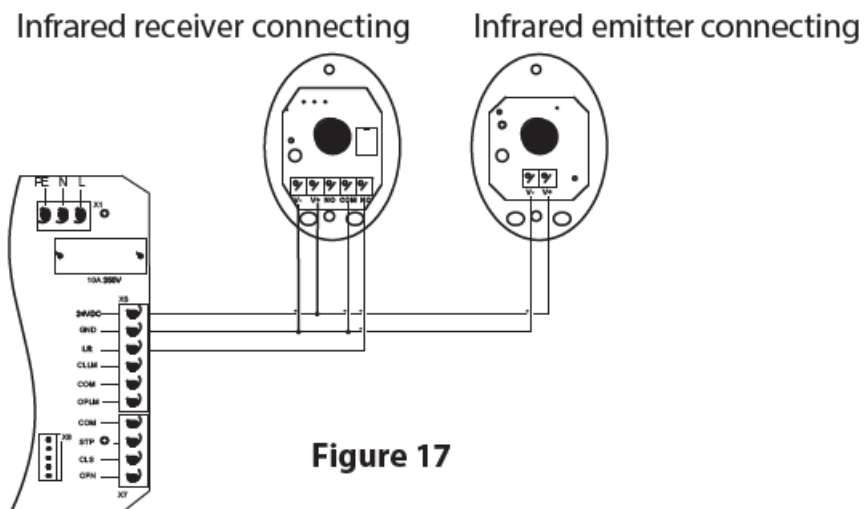
3. Automatic close time.

Setting for automatic close time:

1. 2 ON 3 OFF: automatic close time is 15s,
2. 2 OFF 3 ON: automatic close time is 30s,
3. 2 OFF 3 OFF: automatic close time is 45s,
4. 2 ON 3 ON: cancel automatic close function.

Infrared Connection

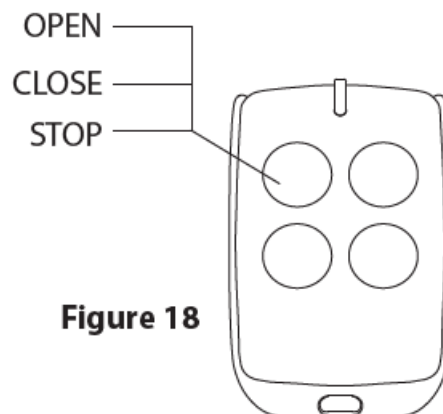
Infrared photocell function: In the closing process, when infrared ray of the photocell is covered by people or objects during its detection range, the gate will open immediately for security protection. The distance between photocell receiver and photocell emitter should be more than 2 meters, otherwise will affect the induction of the photocell. If connect the infrared photocell, please remove the short connection between I.R and GND on the X5 terminal.



Adjustment and operation

Remote control operation

Single button mode remote control: OPEN/CLOSE/STOP of main engine are controlled by one button circularly on the remote control.



Add extra remote control (remote control learning):

Remove the main engine housing, then take out the upper cover of the control box, press the learning button AN1 on the control board, and indicator light LED2 will flash. Press the button that to be learned on the remote control once, The LED2 will be off. Press the same button on the remote control twice, the LED2 will flash several times

and be off; remote control learning complete. A maximum of 25 remote controls can be learned.

Delete remote control:

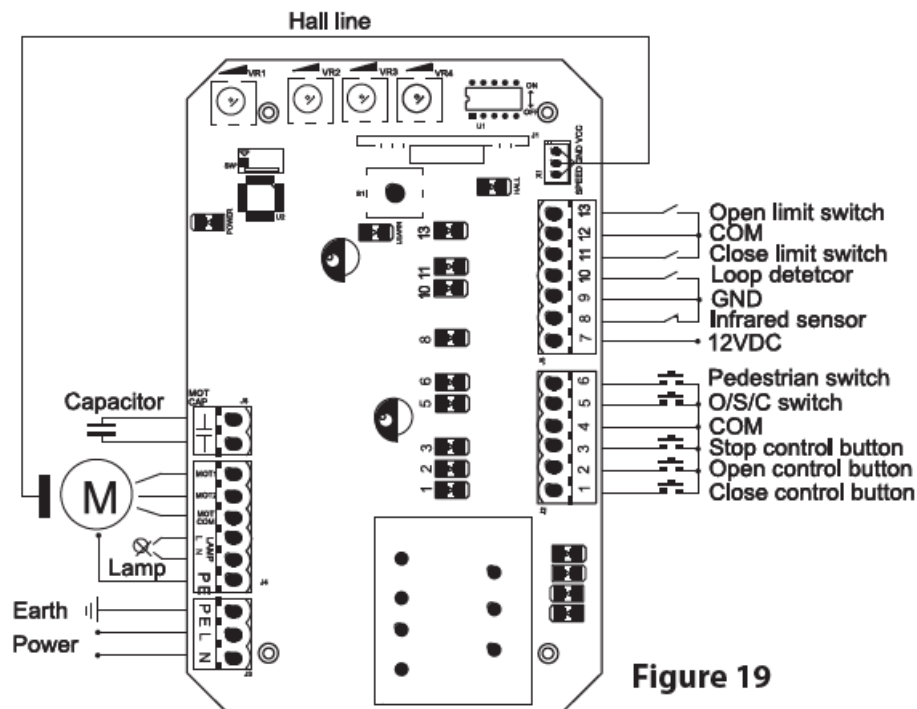
To delete remote control that have been learned: press and hold the learning button AN1, the indicator light LED2 will be on; Then release it until LED2 is off. After the steps, all the matched remote controls will be deleted.

Note:

To disengage gate opener, move the gate to the middle position, then close the clutch and press the open button of external button switch to open the gate.

If the gate opening direction is wrong, you can change the direction through the toggle switch SW1 on the control board or exchange the motor phase-sequence lines U and W. If the opening or closing limit is wrong, please exchange limit switch lines CLLM and OPLM on the control board.

Intelligent control board



Wiring instruction:

1. Connect L and N to the power supply of AC220V/50HZ; AC110V/60HZ; L is Live wire, N is Neutral wire, and PE is grounding wire.
2. Connect LAMP to caution light; voltage: AC220V/50HZ; AC110V/60HZ.
3. Connect the motor wire MOT2 to the REV motor wire, connect MOT1 to the FWD motor wire, and connect MOTCOM to the motor common wire.
4. Connect MOTCAP to the capacitor wire.

J2 Terminal (For the convenience of wiring, this terminal is accompanied with failure diagnosis light)

1. Gate close control button (N.O.)
2. Gate open control button (N.O.)
3. Stop control button (N.O.)
4. Control button common terminal

5. Open/Stop/Close/Stop loop control button (N.O.)

6. Pedestrian mode control button (N.O.)

Press the button while the door is closed, it will open for 1 meter which is for pedestrian only.

J5 Terminal (For the convenience of wiring, this terminal is accompanied with failure diagnosis light)

7. Power supply for fittings: +12VDC Electric current $\leq 100\text{mA}$

8. Photocell input (N.C.); short out the device with terminal 9 (GND) if not used.

9. GND

10. Loop detector (sensor coil) connector (N.O.)

In the closing process, once vehicles are detected by the loop detector, the gate will open immediately; when the vehicle passes, the gate will close automatically. When the gate is in a halted state, it will keep this state when vehicles are detected; after the vehicle passes, the gate will close automatically. In the above loop detector function, users can make the gate close automatically 12 seconds later after the vehicle passes.

Change the No.4 key of the dip switch on circuit board, and the gate will close automatically 12 seconds later after the vehicle passes.

11. Close limit switch

12. Limit switch and other input signal common terminal

13. Open limit switch

Function adjustment

Functional parameters of the control board equipped with microprocessor can be adjusted through potentiometer and dip switch, so as to meet different installation requirements.

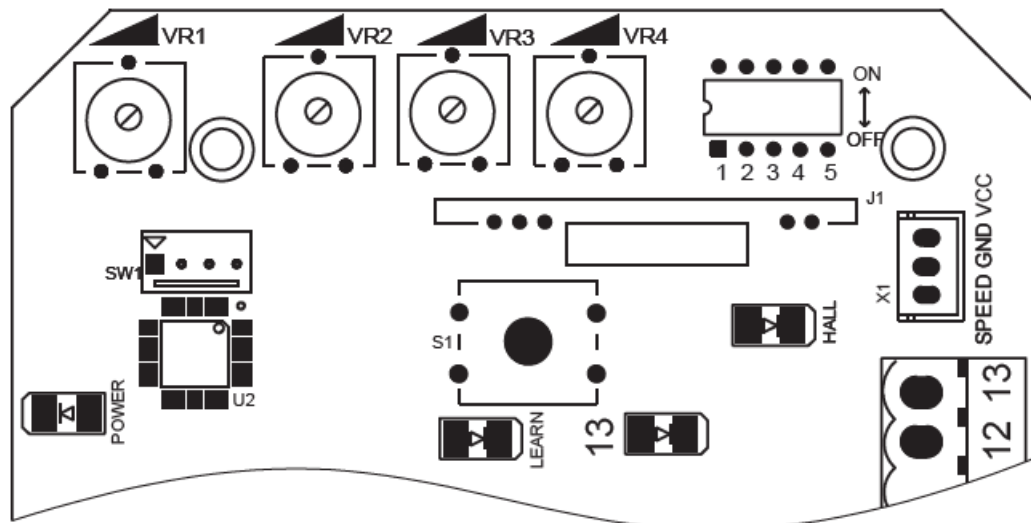


Figure 20

Adjusting knob

VR1: When meet obstacle reverse function is enabled (DIP switch 5 on OFF position and the motor assembled with the hall line). This knob is used for sensitivity adjustment of meeting obstacle.

Clockwise rotation to reduce sensitivity of obstacle, counter-clockwise rotation to increase sensitivity of obstacle. When meet obstacle reverse function is disabled (DIP switch 5 on ON position).

This knob is used for motor working total time adjustment. Clockwise rotation to increase, counter-clockwise rotation to reduce. The total time can be set to 10 seconds as minimum and 90 seconds as maximum.

VR2: For brake force adjustment in limit position. Clockwise rotation to increase, counter-clockwise rotation to reduce. Rotate to minimum to cancel brake function in place.

VR3: For slow stop width adjustment. Clockwise rotation to increase, counter-clockwise rotation to reduce. Rotate to the minimum to cancel the slow stop function.

VR4: For motor output force adjustment to keep safe usage.

Clockwise rotation to increase, counter-clockwise rotation to reduce.

Note:

The default setting is VR1, VR2, VR3, VR4 are the maximum value, and the user can adjust according to the actual requirement.

Warning:

The motor output force cannot be set too large, just to be able to drive the gate.

Dip switch

1. Soft start function. OFF – enabled; ON – disabled.
2. Limit switch setting. OFF- normal open (N.O.); ON – normal close (N.C.).
3. Automatic close time.
4. Automatic close time.

Setting for automatic close time:

1. 3 OFF 4 ON: automatic close time is 12s,
 2. 3 ON 4 OFF: automatic close time is 24s,
 3. 3 ON 4 ON: automatic close time is 36s,
 4. 3 OFF 4 OFF: no automatic close function.
5. Meet obstacle reversal function. OFF – enabled; ON – disabled.

Infrared connection

Infrared photocell function: In the closing process, when infrared ray of the photocell is covered by people or objects during its detection range, the gate will open immediately for security protection. The distance between photocell receiver and photocell emitter should be more than 2 meters, otherwise will affect the induction of the photocell. If connect the infrared photocell, please remove the short connection between 8 and 9 on the J5 terminal.

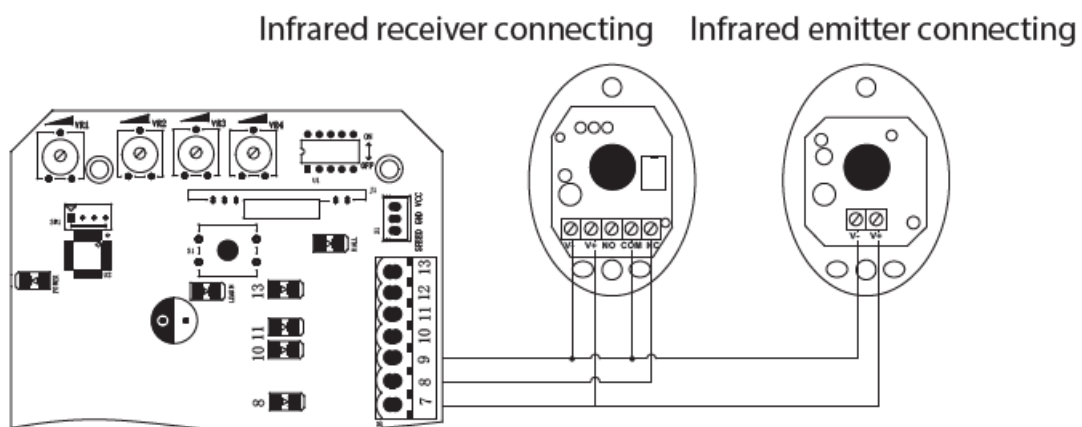


Figure 21

Adjustment and operation

Remote control operation

Single button mode remote control: OPEN/CLOSE/STOP of main engine are controlled by one button circularly on the remote control.

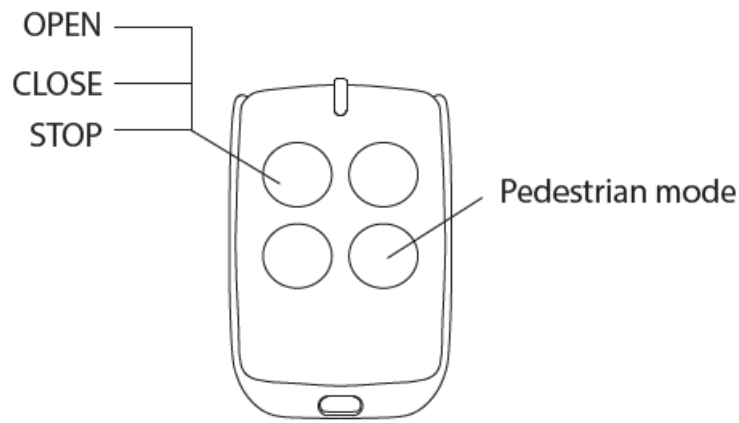


Figure 22

Add extra remote control (remote control learning):

Remove the main engine housing, then take out the upper cover of the control box, press and hold the learning button S1 for 2 seconds, then the indicator light LEARN will be on; press the button that to be learned on the remote control twice, the LEARN will flash several times and be off; remote control learning complete. A maximum of 40 remote controls can be learned.

Delete remote control:

To delete remote control that have been learned; press and hold the learning button S1, the indicator light LEARN will be on; Then release it until LEARN is off. After the steps, all the matched remote controls will be deleted. The fourth button on the remote control is for pedestrian mode, press the button while the door is closed, it will open for 1 meter which is for pedestrian only.

Note:

To disengage gate opener, move the gate to the middle position, then close the clutch and press the open button of external button switch to open the gate. If the gate opening direction is wrong, you can exchange the motor phase-sequence lines MOT2 and MOT1. If the opening or closing limit is wrong, please exchange limit switch lines which are connected to the corresponding terminal 11 and 13 on the control board.

Others

Maintenance

Check whether the gate operates normally every month.

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 has the right to change the instruction without prior notice.

Troubleshooting

Problems	Possible Reasons	Solutions
The gate cannot open or close normally, and LED does not light.	<ol style="list-style-type: none"> 1. The power is off. 2. Fuse is burned. 3. Control board power wiring with problem. 	<ol style="list-style-type: none"> 1. Switch on the power supply. 2. Check the fuse (code FU), change the fuse if burnt. 3. Rewiring according to instructions.

The gate can open but cannot close.	<ol style="list-style-type: none"> 1. Photocell wiring with problem. 2. Photocell mounting with problem. 3. Photocell is blocked by objects. 4. Sensitivity of obstacle is too high (Intelligent type). 5. Hall switch parts is damaged (Intelligent type). 	<ol style="list-style-type: none"> 1. If not connect photocell, please make sure that the infrared port and GND short circuit; if connect infrared sensor, please make sure the wiring is correct and the photocell is N.C. 2. Make sure that the photocell mounting position can be mutually aligned. 3. Remove the obstacle. 4. Reduce the sensitivity of obstacle. 5. Change hall switch parts.
Remote control doesn't work.	<ol style="list-style-type: none"> 1. Battery level of the remote control is low. 2. Remote control learning is not completed. 	<ol style="list-style-type: none"> 1. Change the remote control battery. 2. Re-conduct remote control learning.
Press OPEN, CLOSE button, the gate is not moving, motor has noise.	<ol style="list-style-type: none"> 1. Capacitor is broken. 2. Capacitor is poor connected. 3. Gate moving is not smoothly. 	<ol style="list-style-type: none"> 1. Change capacitor. 2. Check the capacitor wiring. 3. According to the actual situation to adjust the motor or the gate.
Not stop at the limit position when opening / closing.	<ol style="list-style-type: none"> 1. The limit direction is wrong. 2. The mounting of magnetic limit switch with problem. 	<ol style="list-style-type: none"> 1. Check whether the limit switch wiring is consistent with the actual direction of operation. 2. Check whether the distance between magnetic limit switch and motor, and the height of
		the magnetic limit switch can reach up the mounting requirement.
Leakage switch tripped.	Power supply line short circuit or motor line short circuit.	Check wiring.
Remote control working distance is too short.	Signal is blocked.	Connect external receiver antenna, 1.5 meters above ground.

<i>The gate moves to the middle position to stop or reverse.</i>	1. <i>Motor output force is not enough (Intelligent type).</i> 2. <i>Sensitivity of obstacle is too big (Intelligent type).</i> 3. <i>Gate meets obstacle.</i>	1. Adjust the VR4. 2. Adjust the VR1. 3. Remove the obstacle.
<i>Gate opens automatically</i>	<i>Automatic close function has been turned on but with incorrect opening direction.</i>	Please refer to the attentions under 4.3.5.1 and 4.3.5.2 to change the opening direction.

Warranty

Warranty Ordinance

1. To repair against this warranty card and invoice during the warranty period.
2. Warranty period: 1 year after the date of invoice.
3. Without unauthorized dismantling, any product broken or damage due to quality problem, we'll offer the repair service for free or replace for free.
4. The malfunction and damaged caused by incorrect use or man fault is not covered by this warranty.

What's in the Box:

- (1) Gate Opener
- (2) RT11 Remote Transmitters
- (1) Detachable Mounting Base
- (1) 6m Chain
- (2) Emergency Release Key
- (1) Full Set of Required Installation Hardware
- (1) Warning Sign
- (1) Gift Insert Card

Features:

- Black Motor Cover
- Magnetic Limit Switch
- Built-in Control Board without Soft Start-Slow Stop Function
- 10-90 Seconds Gate Opening/Closing Time Depends on the Gate Weight and Length
- Easy to Install
- Suitable for All Types of Sliding Gates
- Perfect for Driveway Gates Made by Steel, Wood, Vinyl, and Shaped as Tube, Panel and Chain Link
- Safe to Use and Switch
- Constructed with an Aluminum Alloy Chassis
- Corrosion Resistant and Light Enough for One Person to Carry and Install

- Heavy Duty Gate Motor Opens Gates
- Strong and Durable Enough to Stand Up to Regular Activity
- Includes 2 Remotes with Codes that are Entirely User Programmable and User Erasable

Technical Specs:

- Power Supply: AC 220V/50Hz; 110V/60Hz
- Motor Power: 280W
- Max. Torque: 16 Newton Meters (Nm)
- Max. Gate Weight: 1322 lbs.
- Max. Gate Length: 26 ft.
- Gate Moving Speed: 13m/min
- Maximum Loading Weight: 600Kg
- Remote Control Distance: $\geq 30\text{m}$
- Remote Control Mode: Single Button Mode
- Limit Switch: Magnetic Limit Switch
- Working Noise: $\leq 56\text{dB}$
- Working Duty: S2, 20min
- Recording of Up Remote Controls: 25
- Remote Frequency: 433.92 MHz
- Working Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Battery Cell Type: Lithium Metal
- Remote Control Battery Type: CR2032 Batteries (Not Rechargeable)
- Construction Material: Aluminum Alloy Reduction Gearbox + Plastic Cover
- Product Dimensions (L x W x H): 12.76" x 9.25" x 20.59" -inches


Questions? Issues?

We are here to help!

Phone: (1) 718-535-1800

Email: support@pyleusa.com

Documents / Resources

 <p>serenelife</p> <p>SLGATEOP Automatic Sliding Gate Motor Sliding Gate Motor for Slide Gates Up to 1322lbs</p> <p>Owner Manual</p>	<p>serenelife SLGATEOP Automatic Sliding Gate Motor for Slide Gates [pdf] User Manual SLGATEOP Automatic Sliding Gate Motor for Slide Gates, SLGATEOP, Automatic Sliding Gate Motor for Slide Gates, SLGATEOP Automatic Sliding Gate Motor, Sliding Gate Motor for Slide Gates, Automatic Sliding Gate Motor, Sliding Gate Motor, Gate Motor</p>
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References

-  [Innovative Lifestyle Products Just For You | SereneLife](#)