ALTECH

YOUR KEY TO AUTOMATION

300KG PER LEAF

SW-05

AUTOMATIC SWING GATE OPENER
USER MANUAL

NOTES

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Safety Installation Information

1. READ and FOLLOW all instructions.

2. The gate opener is intended for use with class I vehicular swing gates.
   Class I denotes vehicular gate opener (or system) dwellings, or a garage or parking area associated therewith.

   Install the gate opener only when the opener is appropriate for the construction and the usage class of the gate.

3. Gate opening system designers, installers, and users must take into account the possible hazards associated with each individual application. Gate system design and installation must reduce public exposure to potential hazards. All exposed pinch points must be eliminated or guarded. Any other use, not expressly indicated may damage the product or be a source of danger.

   This product must be installed by well-trained skilled personnel in compliance with the safety regulations in the field of residential and commercial swing gate opener devices. Unqualified personnel and inappropriate operations may damage the instruments and cause harm to the public. Therefore by installing this product the installer and user accept full responsibility for following and noting the installation and safety instructions.

4. Electric Power must be DISCONNECTED PRIOR to installation, or performing any maintenance. If the electric cable is damaged or broken, it must be replaced by whole and adequately insulated wires, to avoid electric shock or hazardous environments.

5. A gate opener can create high levels of force during normal operation. Therefore, safety features must be incorporated into every installation. Specific safety features include safety sensors.

6. The gate must be properly installed and work freely in both directions prior to the installation of the gate opener.

7. The gate must be installed in a location so that enough clearance is provided between the gate and adjacent structure when opening and closing to reduce the risk of entrapment. Swinging gates shall not open into public access areas.

8. The opener is intended for use only on gates used for vehicles. Pedestrians must be supplied with a separate access opening.

   The pedestrian access opening shall be designed to promote pedestrian usage. The pedestrian access shall be located such that persons will not come in contact with the moving vehicular gate.

9. Pedestrians should never cross the pathway of a moving gate. The gate opener is not acceptable for use on any pedestrian gate. Pedestrians must be supplied with a separate pedestrian access.

10. For an installation utilizing non-contact sensor (safety sensors), see product manual on the placement of non-contact sensors (safety sensors) for each type of application.

A. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the safety sensor while the gate is still moving.

B. One or more non-contact sensors (safety sensors) shall be located where the risk of entrapment of obstruction exists, such as the perimeter reachable by a moving gate or barrier.

11. Do not install the products in corrosive, inflammable, and/or explosive environments.

12. 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. Controls are to be placed at least 6' (1.8m) from any part of the moving gate.

13. Controls intended to be used to reset an operator after 2 sequential activations of the entrapment protection device or devices must be located in the line of sight of the gate, or easily accessible controls shall have a security feature to prevent unauthorized use. Never allow anyone to hang pon or ride the gate during the entire travel of the gate.

14. To AVOID damaging gas, power, or other underground utility lines, contact underground utility locating companies BEFORE digging.

Swing Gate Motor - Model PKM-C05

PKM-C05 swing gate motor is suitable for light - medium-small heavy weight gates.
Do not use it on large sized gates which exceed the maximum recommended gate weight and length.
Wrong selection of motor will result in an unreliable operation.

Swing Gate Opener Kit Include

A x2	B x1	C x1	D x4	E x2
F x2	G x2	H x2	I x8	J x2
K x2	L x4	M x2	N x4	O x4
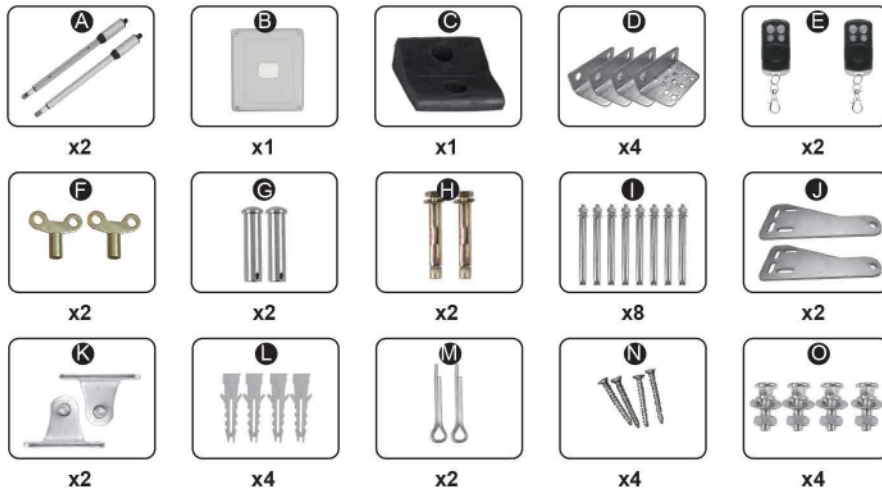
Warning: Please disconnect the power before repairing.

1. Wipe the gate opener shaft with a clean, dry cloth, and then use silicone spray to reduce friction. In cold climates where the temperature reaches 1°C (30°F) or lower, spray silica gel on the actuator every 4 to 6 weeks to prevent freezing.

2. Regularly check the gate hinge to ensure that the gate swings smoothly and freely. If necessary, use grease on the hinges.

3. Check your installation regularly. If the hardware and posts will be replaced, thebracket may need to be adjusted, or the hardware may need to be tightened.

4. Maintain the area around your gate. Keep these areas free of objects that can prevent the gate from swinging freely. Note: If a malfunction is observed or suspected, inspection and service should be carried out in short time. It is recommend- ed to take a multimeter to the operator when working on site.

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 damages caused by incorrect use or man fault are not covered by this.

Check Date	Check Content	Maintained by

Trouble Shooting

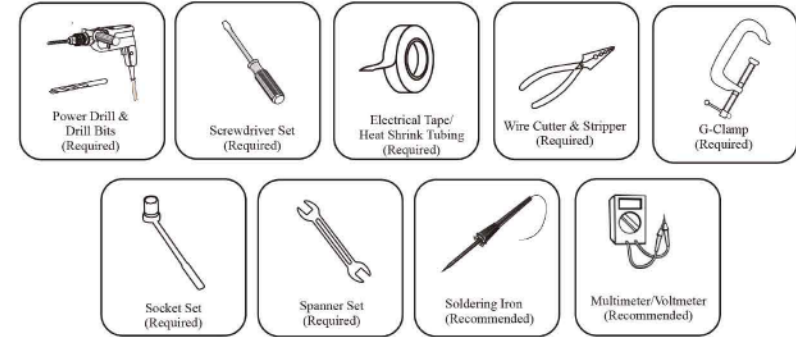| Problems	Possible Reason	Solutions
The gate doesn't open	1.The power is off. 2.Fuse is burn. 3.Control board is wrongly power wired. 4.Sensitivity of obstacle is too high.	1.Switch on the power supply 2.Check the fuse,change it if it is burnt 3.Re-wiring according to instruction 4.Reduce the sensitivity level of obstacle (P1-P4). Adjust them until the gate works normally
Remote control doesn't workt	1.Battery level of the remote control is low. 2.Remote control is not paired.	1.Change the remote control battery. 2.Re-conduct remote control Learning.
How to restore factory factory sttings.	Restore factory sttings	1. Long press (FUN) to enter the menu and select the mode Po 2. Short press (FUN) to confrm, the display shows "-".

P3	Motor 2 low speed running stall force adjustment	0~20	6	
P4	Motor 2 high speed running stall force adjustment	0~20	10	
P5	High speed running time setting	0-33	5	
P6	Auto close time after swipe card	0-99	10	
P7	Open interval time setting	0-10	0(close)	
P8	Close interval time setting	0-10	0(close)	
P9	Auto close time setting	0-99	0(close)	
PA	Lamp/alarm output control setting	0-3	0	0:Alarm on monostability mode, lamp stop work after gate close 30s 1:Alarm on monostability mode, lamp stop work once gate closed fully 2:Alarm on bistability mode, lamp stop work after gate close 30s 3:Alarm on bistability mode, lamp stop work once gate closed fully
Pb	Lock time control setting	0-2	0	0:Lock output 1s 1:Lock output 1.5s 2:Lock outpt 2s Note: The gate motor will delay 0.5s to open
PC	Single/double gate open setting	0-3	3	0:The gate could not open by remote 1:Open one single gate 2:Open double gate 3:Open one single gate as well as double gate
Pd	Photocell work in NC or NO	0-1	1	0:Normal close 1:Normal open
PE	Single gate or double gate working mode	0-1	0	0:Double motors working 1:Single motor working
Po	Reset			RESET

How to Operate

The user may operate the opener once all adjustment setting is finished.

● With the gate in its closed position, press and release the remote control, the gate will move to the programmed opening position and stop.

● With the gate in its opened position, press and release the remote control, the gate will move to the programmed closing position and stop.

● While the gate is moving, press and release the remote control, the gate will stop moving immediately. The next command from the remote will reverse the gate direction and the gate will stop at its programmed opening/closing position.

● The gate will stop in case of obstruction during opening. The command from the remote control will reverse the gate direction and the gate will stop at its programmed closing position.

● The gate will reverse in case of obstruction or stall force during closing, and it will move to the programmed opening position.

• Tools Required

Power Drill & Drill Bits (Required)   Screwdriver Set (Required)   Electrical Tape/ Heat Shrink Tubing (Required)   Wire Cutter & Stripper (Required)   G-Clamp (Required)

Socket Set (Required)   Spanner Set (Required)   Soldering Iron (Recommended)   Multimeter/Voltmeter (Recommended)

Technical Specification

Specifications			
Input Power	40W*2	Max Single-Leaf Weight	300KG
Motor Voltage	24V DC	Max Single-Leaf Length	3 meters
Actuator Speed	2.5 cm/s	Working Temperature	-20°C ~ +50°C
Max. Actuator Travel	300MM	Protection Class	IP55
Max Gate Opening Angel	110°		

Swing Gate Opener Features & Options:

1. In case of power failure: Use the manually spanner to release to separate the motor and gate, open or close the gate manually.

2. When Gate is Obstructed: Gate stops.

3. Optional: The Gate Opener Controller can be connected to a solar system, a flash light warning, a photocell, back up battery, keypad and other access control devices.

4. Speed Control: Gate opening and closing speed can be adjusted.

5. Gentle Start: The Gate Opener is equipped with a soft start function.

6. Auto Close: The Gate Opener System is equipped with auto close function with adjustable closing time delay.

7. Single or Dual Gate: Either Single or Dual Swing Gate can be opened.

8. Multiple Remote Transmitters: The controller can easily accommodateseveral unique extra remotes to control the swing gate opener.

9. Battery Back Up: DC 24V back up battery can be incorporated.

10. Optional Devices: DC 24V gate lock, photocell ,keypad , photocell, push button, large size or small size control box.

11. The Gate Opener can be configured to allow smooth noiseless operation.

12. The Gate Opener can be configured to enable open condition as default, or close condition as default depending on the placement of the provided hardware bracket brackets.

Specific (Product Overview) Dimensions

17MM | 788MM | 31MM
836MM

17MM | 1188MM | 31MM
1236MM
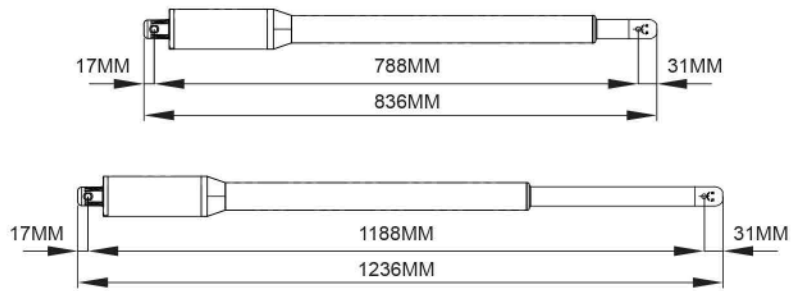
How to Adjust the Limit Switch of Swing Gate Opener

Limit switch is a kind of sensor to detect and control the mechanical movement from exceeding the limit position. For the swing gate opener, a limit switch can stop the actuator from exceeding an extended or retracted length. Adjustable limit switch is designed to stop the actuator at a predetermined point during extension or retraction, which allows you to set the travel limits in accordance with your needs.

PKM-C05 swing gate opener is equipped with a magnetic switch. When the magnet senses the limit switch, the gate opener controller will cut off the power to the motor, which makes it stop spinning. Reliable electromagnetism limit switch is easy to adjust. Controlled by electromagnetic induction, the gate will automatically stop on your desired position with this technology.
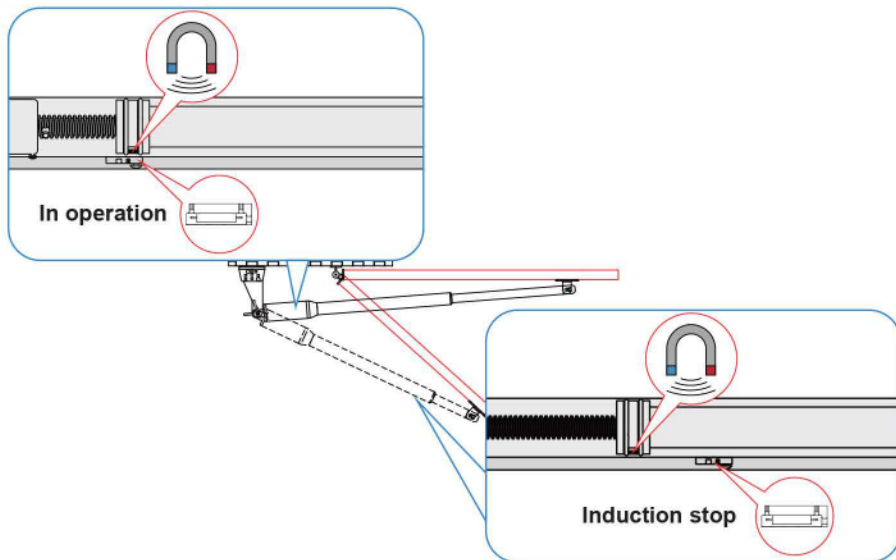
In operation

Induction stop

Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.
Press the [FUN] button to store the data when the auto close time chosen, then the auto close time setting finished. (factory set 0).

7. PA: To set lamp/alarm output control:

When digital display indicate **PA**, the gate opener is on **lamp/alarm output control setting**.
There is 0-3 for optional. "0" means the alarm on monostabillity model and the lamp without voltage output after the gate total close 30s, other time with voltage output. "1" means the alarm on monostabillity model and the lamp would only flash when gate running. "2" means the alarm on bistabillity model and the lamp without voltage output after the gate total close 30s, other time with voltage output. "3" means the alarm on bistabillity model and the lamp would only flash when gate running.

Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.
Press the [FUN] button to store the data when the auto close time chosen, then the lamp/alarm output control setting finished. (factory set 0)

8. Pb: To set lock time:

When digital display indicate **Pb**, the gate opener is on **lock time control setting**. The lock control time means the time we could control the lock. There is 0-2 for optional. "0" means the lock control time is 1s, "1" means the lock control time is 1.5s, "2" means the lock control time is 2s. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1. Press the [FUN] button to store the data when the lock control time chosen, then the lock time setting finished. (factory set 0)
Note: The gate motor will open delay of 0.5s to help unlock the electric lock.

9. PC: To choose single/double gate opener:

When digital display indicate PC, the gate opener is on single/double gate open setting. There is 0-3 for optional. "0" means the gate could not open by remote, "1" means just can open one single gate, "2" means can just open double gate, "3" means can open one single gate as well as double gate. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1. Press the [FUN] button to store the data when the single/double gate open chosen, then the remote button setting finished. (factory set 3)

10. Pd: To choose photocell work in NC or NO

When digital display indicate Pd, you could choose **the photocell work in NO or NC.**
Value "0" means work in NC, value "1" means work in NO. (factory set 1)

11. PE: To choose single gate or double gate working mode:

When digital display indicate **PE**, you could choose the gate working mode for double gates or single gate.
When set value "0", the control board work for dual motor. (factory set 0).
When set value "1", the control board only work for single motor.

12. Po: Return to factory reset

When digital display indicate **Po**, the gate opener is on **rest setting**.
After enter Po setting, press the [FUN] to store and then now the reset successfully.

Menu		Options	Factory set	Description
P0	The soft start time setting	0~6	2	
P1	Motor 1 low speed running stall force adjustment	0~20	6	
P2	Motor 1 high speed running stall force adjustment	0~20	10	

3. P5: To set the high speed running time of gate opener

When digital display indicate **P5**, the gate opener is on **high speed running time setting**.
There is 0-33s for optional. "0" means without high speed running, gate opener would keep running in slow speed. Max high speed running time 33s.

Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the high speed running time chosen, then the high speed running time setting finished. (factory set 5s).

4. P6: To set the auto close time after swipe card

When digital display indicate **P6**, the gate opener is on **auto close time setting** (NOTE！ This auto close time just means the auto close function which realize through external device).

There is 0-99s for optional. "0" means the gate opener would not auto close after swipe card. Max auto close time after swipe card 99s.

Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the auto close time after swipe card chosen, then the auto close time after swipe card finished. (factory set 10s).

5. P7-P8: To set the interval time:

(1) When digital display indicate **P7**, the gate opener is on **open interval time setting**.
There is 0-10s for optional. "0" means double gates open simultaneously. "1" means the Motor 2 start to open 1 second before Motor 1 start to open. Max open interval time 10s.
Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.
Press the [FUN] button to store the data when the open interval time chosen, then the open interval time setting finished. (factory set 0s).

(2) When digital display indicate P8, the gate opener is on close interval time setting. There is 0-10s for optional. "0" mean double gates close simultaneously. "1" means the Motor 1 start to close 1 second before Motor 2 start to close. Max close interval time 10s. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1. Press the [FUN] button to store the data when the close interval time chosen, then the close interval time setting finished. (factory set 0s).

6. P9: To set auto close time

When digital display indicate **P9**, the gate opener is on **auto close time setting**.
There is 0-99s for optional. "0" mean the gate opener would not auto close. Max auto close time is 99s.

PKM-C05 swing gate opener uses mechanical limit. The gate block works as the limit switch.
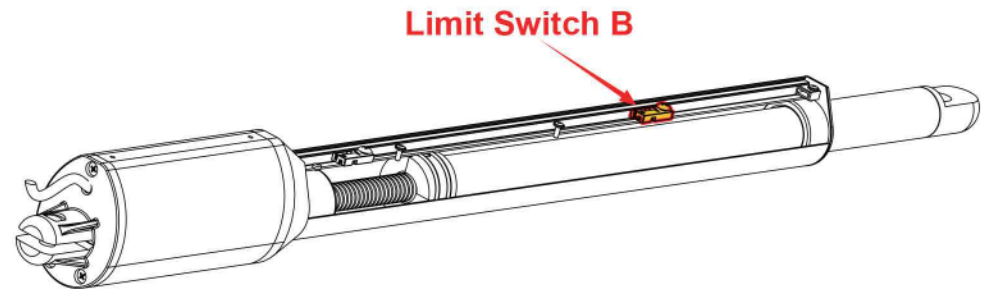No matter dual or single swing gate openers, please note that:

● Before adjusting the limit switch, make sure that the rod is fully retracted when the gate is in the fully open position (for Pull-to-Open installation), or in the fully closed position (for Push-to-Open installation).
● The limit switches are located on the arm underneath. For the purpose of adjustment only, you might find it easier to turn over the arm to access the limit switch screws. Once the adjustment is completed, please remember to turn back the arm to its correct position.
● Phillips Screwdriver is needed for adjustment.
● The position of **Limit Switch A** was fixed in factory, do not adjust it again.
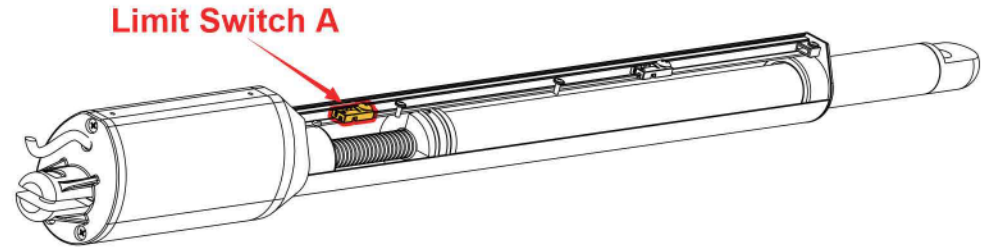
Limit Switch A

Adjustments for Pull-to-Open Installation Mode:

When the rod is entirely retracted, the gate is in the **fully open position**. Adjust the **Limit Switch B** to determine the closed position:

1. Turn on power to operate the gate opener, then the arm extends to close the gate.
2. If the gate closes over the desired closed position, press the remote control to stop the opener. Use the screwdriver to loosen the screw of the **Limit Switch B**, slightly slide it inwards.
3. If the gate closes halfway and fails to get to the desired closed position, loosen the screw of the **Limit Switch B** and slightly slide it outwards.
4. Please repeat the above steps, until the gate could arrive and automatically stop at the desired closed position. Then tighten the screw firmly.

Limit Switch B

Pull TO OPEN GATES INWARDS Fixing example of the gate opening inwards

Pier or Post

Gate Block

Pier or Post
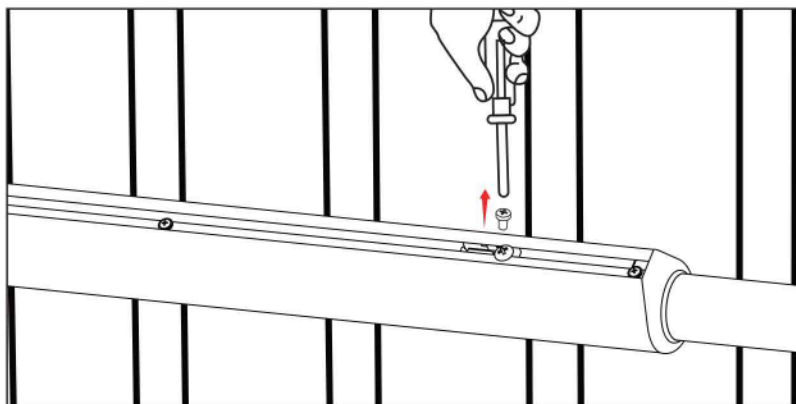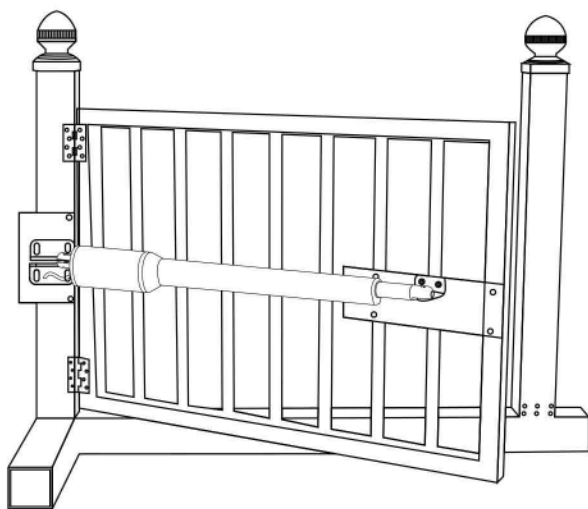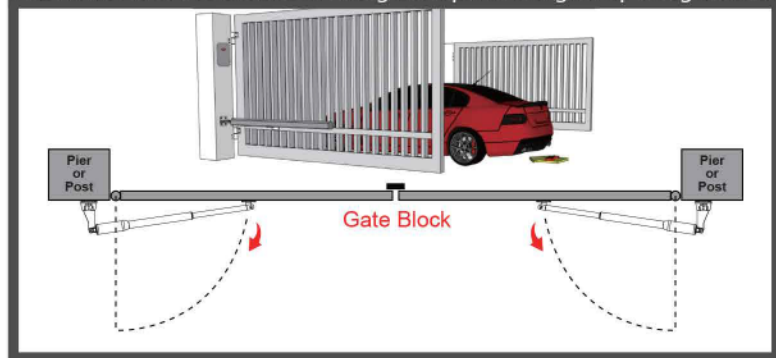
Setting of The Control Board:

Check again for complete and correct assembly of your swing gate opener and gate. Plug the Power Grounded Cord into the nearest AC outlet or with Solar Power System. After power on, digital display will self-check from 00-99 with buzzer sound. If indicator LED light on, buzzer stop sound, it means the system is normal.

Basic operation method:

● Press and hold the [FUN] button until the digital display shows "P0". Now you enter the menu setting. You could through adjust the [INC+] [DEC-] to increase or decrease the serial number or numerical value.

● After data adjust well, then press [FUN] to store the data. With one sound of buzzer, the store successfully. After store the data, the digital display would still on the menu number you just set, if you need to enter next menu setting, please press [INC+] or [DEC-] to choose and confirm with [FUN] to enter the menu number you want to set. Such as after you store the P0 value and press [FUN] to store it, then now the digital display would still show the number P0, and if you want go further to adjust P1, please press one [INC+], then digital display show P1, later press [FUN] to enter the P1 setting.

● If you not need to enter next menu setting, you could press [LEARN] button to exit the menu setting.

1. P0: To set the soft start time of gate opener

When digital display indicate **P0**, the gate opener is on **the soft start time setting**. The soft start time adjustable from 0-6s, "0" means close the soft start time, max soft start time 6s.

Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the soft start time chosen, then the soft start time setting finished (factory set 2s).

2. P1-P4：To set the stall force of gate opener：

(1) When digital display indicate **P1**, the gate opener is on **Motor 1 low speed running stall force adjustment**.

There is 0-20 levels for optional. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the stall force level chosen, then the stall force of Motor 1 low speed running stall force adjustment finished. (factory set 6 level).

(2) When digital display indicate **P2**, the gate opener is on **Motor 1 high speed running stall force adjustment**.

There is 0-20 levels for optional. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the stall force level chosen, then the stall force of Motor 1 high speed running stall force adjustment finished. (factory set 10 level).

(3) When digital display indicate **P3**, the gate opener is on **Motor 2 low speed running stall force adjustment**.

There is 0-20 levels for optional. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the stall force level chosen, then the stall force of Motor 2 low speed running stall force adjustment finished. (factory set 6 level).

(4) When digital display indicate **P4**, the gate opener is on **Motor 2 high speed running stall force adjustment**.

There is 0-20 levels for optional. Each time you press and release the [INC+] button, the figure increase by 1; each time you press and release the [DEC-] button, the figure decrease by 1.

Press the [FUN] button to store the data when the stall force level chosen, then the stall force of Motor 2 high speed running stall force adjustment finished. (factory set 10 level).

18. 24V DC alarm output.
19. Motor1 terminal is used for connecting the motor 1 installed on the gate that opens later and close first. This terminal connect 1st red wire (counted from your left hand side to right hand side).
20. Motor1 terminal is used for connecting the motor 1 installed on the gate that opens later and close first. This terminal connect 2nd blue wire (counted from your left hand side to right hand side).
21. Motor2 Delay terminal is used for connecting the motor 2 installed on the gate that opens first and close later.

This terminal connect 1st blue wire (counted from your left hand side to right hand side).
NOTE！If for single gate, the gate motor just can connect the Motor2 Delay terminal.
22. Motor2 Delay terminal is used for connecting the motor 2 installed on the gate that opens first and close later.

    This terminal connect 2nd red wire (counted from your left hand side to right hand side).
23. AC24V input is used for connecting the transformer.
24. AC24V input is used for connecting the transformer.
25. Digital display is used for showing you the setting data.
26. INC+ is used for figure increase when setting the data.
27. FUN is used for store the data.
28. DEC- is used for figure decrease when setting the data.
29. Learning button is used for program/erase remote.

How to Learn or Erase The Remote
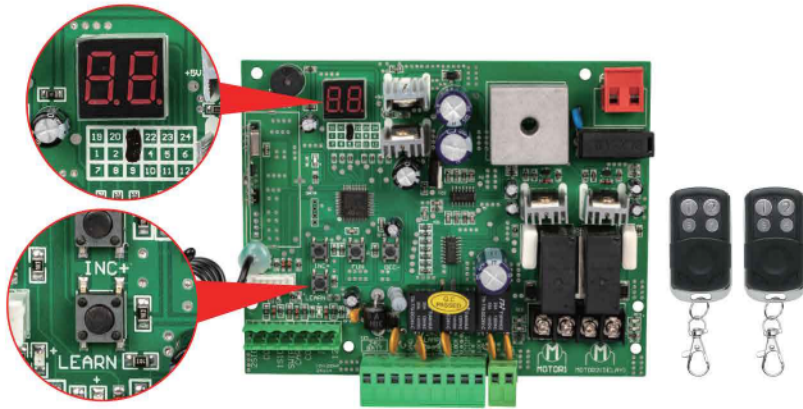
Program new remote control
● Press and hold the LEARN button about 1 second, the LED will turn off, then it means have already enter learning mode.

● Press any button of the new remote control for about 2 second, then digital display would show the remote number (eg. The first remote learning will display " 01 "), while indicator LED on board starts flash four times with one buzzer sound, now the remote control has been learnt successfully.

● Please Note！After you press the LEARN button, if the board does not receive the new remote signal within 5s, the indicator LED will turn on and exit learning.
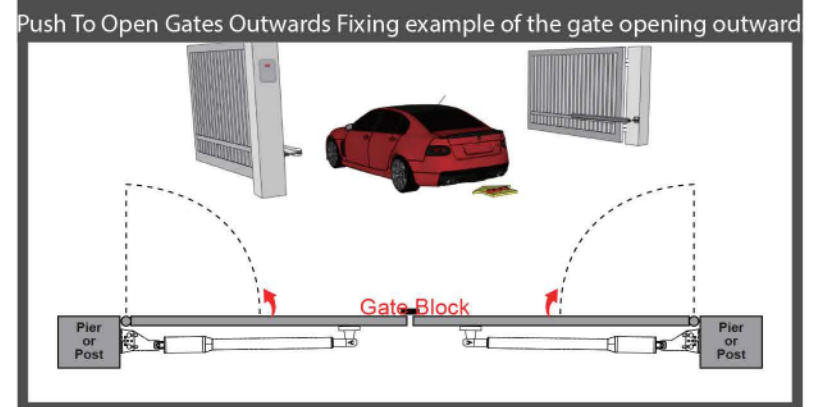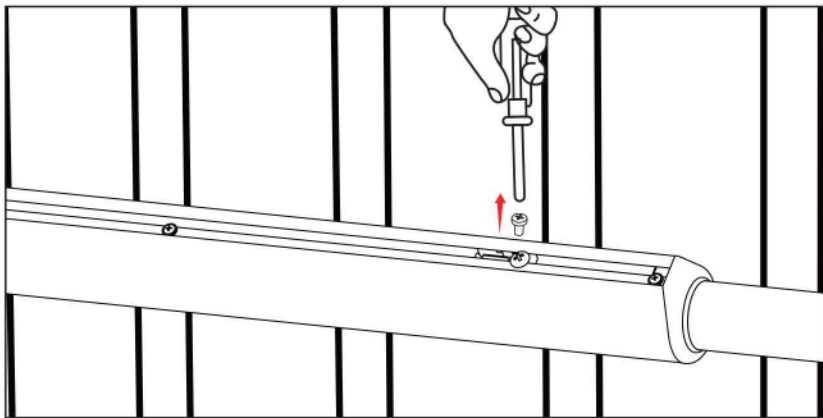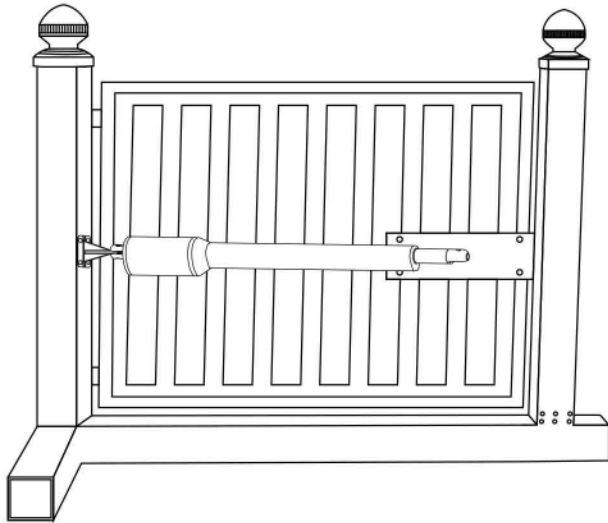
Erase all remote control:
● Press and hold the LEARN button for about 5 second, if with one buzzer sound and indicator LED light on, then it means erase all the remotes successfully

● Caution: if you lose one of any remote control, please learn all other remote controls to have a new code for safety.
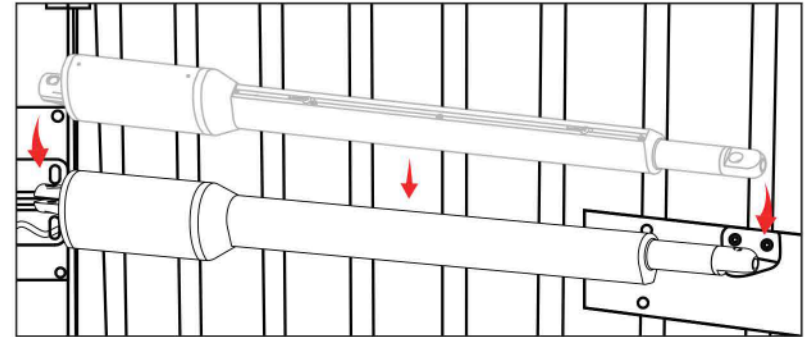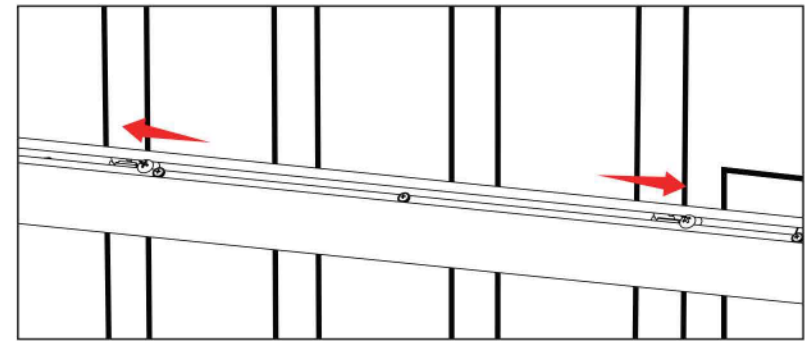
Adjustments for Pull-to-Open Installation Mode:

When the rod is entirely retracted, the gate is in the fully closed position. Adjust the limit switch B to determine the open position. The process is totally same as the above. Over the desired open position, slide the limit switch B inwards; conversely, outwards.

Push To Open Gates Outwards Fixing example of the gate opening outward
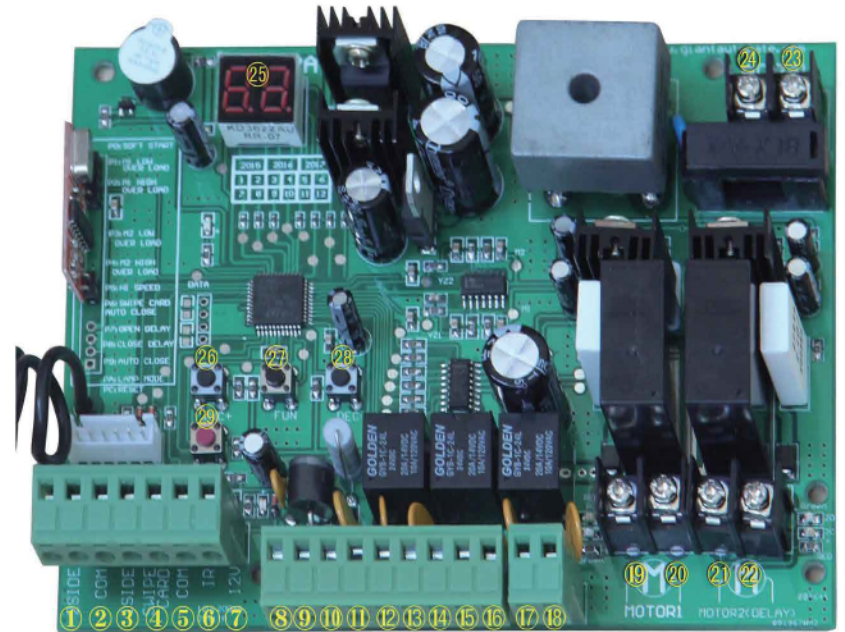
Gate Block

Pier or Post
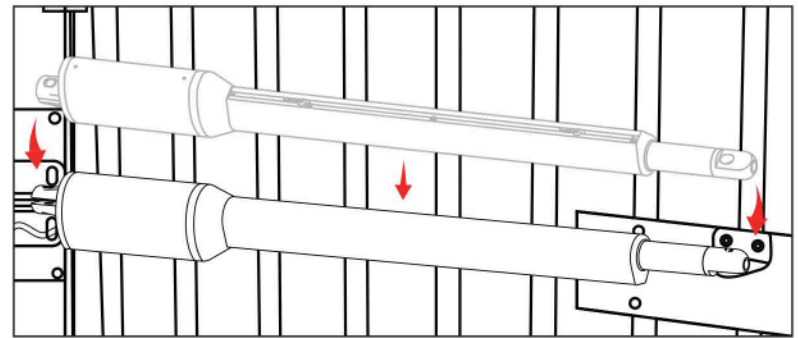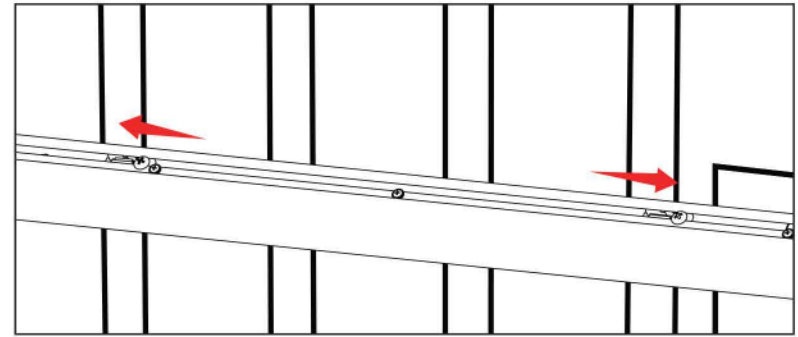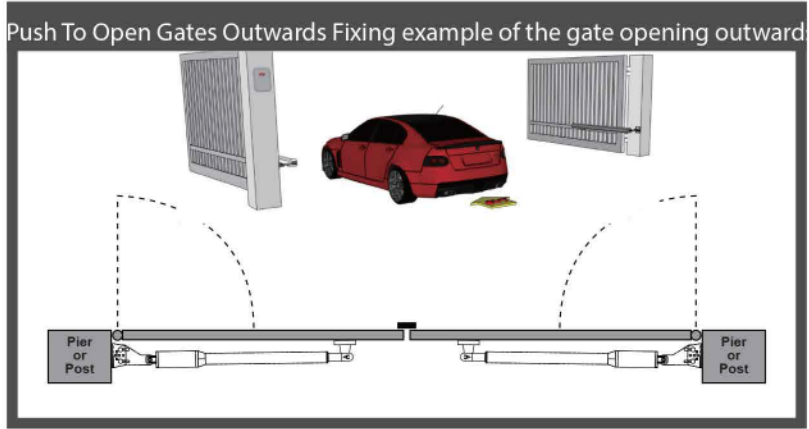
Pier or Post

Control Board Instruction

Technical Parameters:

1. Control Panel Power: DC 24V Available for adding 24V backup battery.
2. Application: Used for double or single DC 24V swing gate opener.
3. Encoder For transmitter: Factory owns rolling code.
4. Allowed Transmitters Quantity: Up to 120PCS.

1. 2 SIDE terminal is used for connecting any external device that operates double gate.
2. COM terminal is COMMON used for connecting the "ground" of external devices.
3. 1 SIDE terminal is used for connecting any external device that operates single gate.
4. Swipe Card terminal is used for connecting any external devices that will operate to open the gate.
5. COM terminal is COMMON used for connecting the "ground" of external devices.
6. Infrared terminal is used for connecting photo electric sensor.
7. 12V DC output is used for connecting photo electric sensor (Continuous output current <=200mA).
8. 24V battery output is used for connecting the back up battery +.
9. 24V battery output is used for connecting the back up battery -.
10. 24V DC output is used for connecting external device. (such as photo electric sensor, max current output 1A).
11. GND is used for connecting the "ground" of external devices.
12. 24V DC lamp output is used for connecting flash light +.
13. 24V DC lamp output is used for connecting flash light -.
14. 24V DC lock output—the NF terminal which used for connecting the electromechanical lock.
15. COM is COMMON used for connecting the "ground" of lock.
16. 24V DC lock output—the NA terminal which used for connecting the magnetic lock.
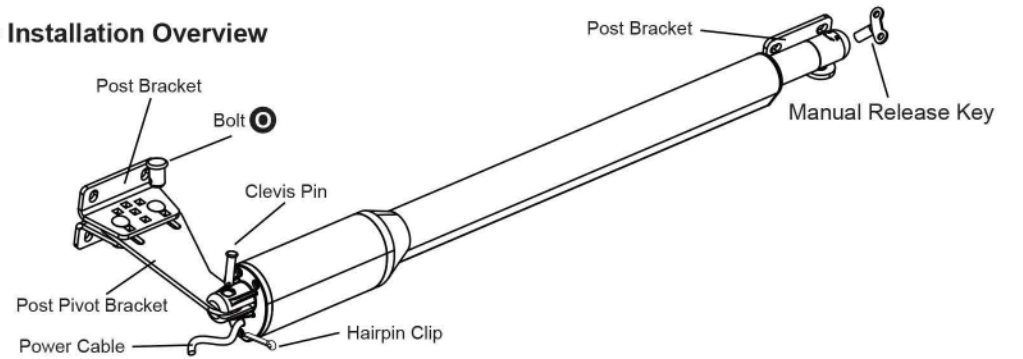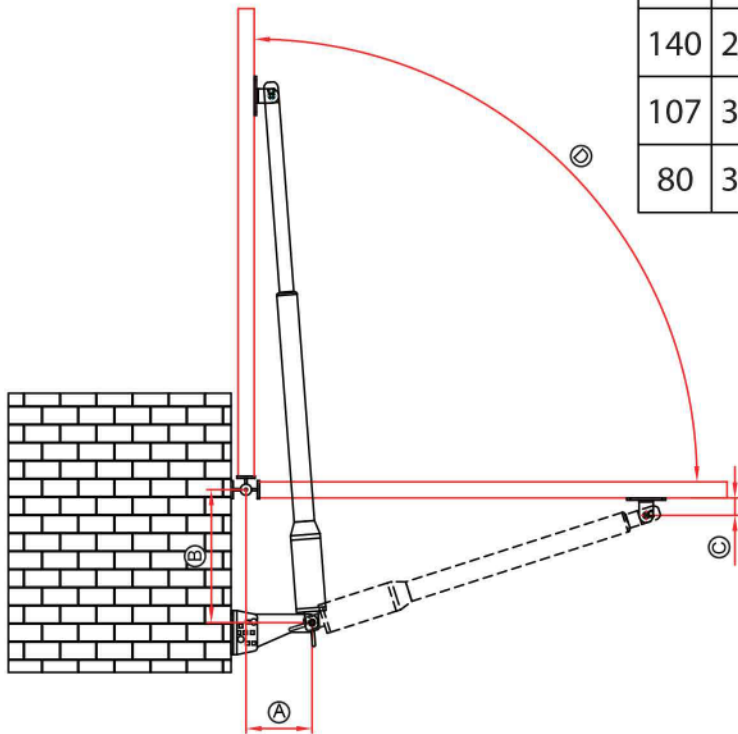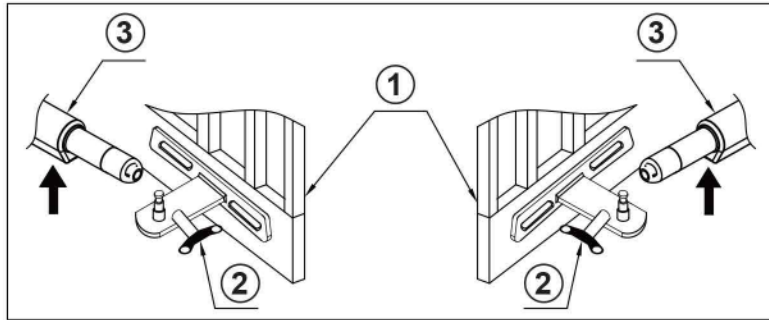17. 24V DC alarm output.

Push-To-Open Installation Mode:

Push To Open Gates Outwards Fixing example of the gate opening outward

A	B	C	D
160	259	39	90°
140	290	39	90°
107	342	39	90°
80	393	39	90°

Installation

• **Installation Overview**

Post Bracket
Bolt
Clevis Pin
Post Pivot Bracket
Power Cable
Hairpin Clip
Post Bracket
Manual Release Key

• Open the gate manually: Release by spanner then lift it

① Gate ② Release Key ③ Release by key then lift it and separate the motor from gate

• Single Gate Overview

CONTROL BOX
CABLE TO:
SOLAR PANEL
(10M CABLE
SUPPLIED)
OR TRANSFORMER
(CABLE NOT
SUPPLIED)
PRIMARY BRACKET
ACTUATOR ARM
CAUTION SIGN
SECONDARY BRACKET
GATE BRACKET
GATE STOP
CONDUIT
POWER CABLE
FENCE POST SET IN CONCRETE

• Dual Gate Overview

CABLE TO:
SOLAR PANEL
(10M CABLE
SUPPLIED)
OR TRANSFORMER
(CABLE NOT
SUPPLIED)
CONTROL BOX
CAUTION SIGN
PRIIMARY BRACKET
ACTUATOR ARM
GATE BRACKET
ACTUATOR ARM
JUNCTION BOX
SECOND BRACKET
CONDUIT
POWER CABLE
POWER CABLE
GATE STOP
FENCE POST SETIN CONCRETE

STEP 4. Installation Types

There are two installation types for the gate opener, check for Proper Gate Installation & Direction of Gate.

Pull-To-Open Installation Mode:

Pull TO OPEN GATES INWARDS Fixing example of the gate opening inwards

Pier or Post

Pier or Post
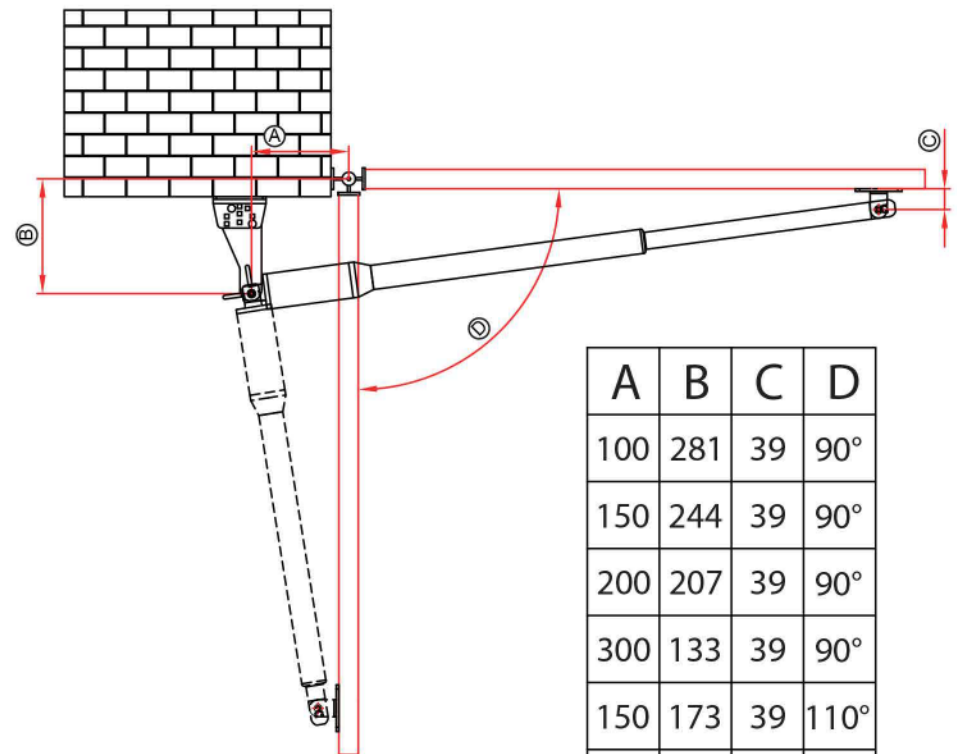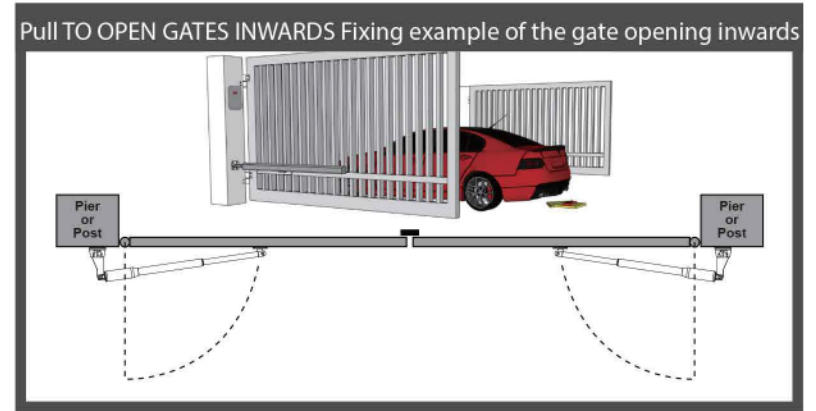
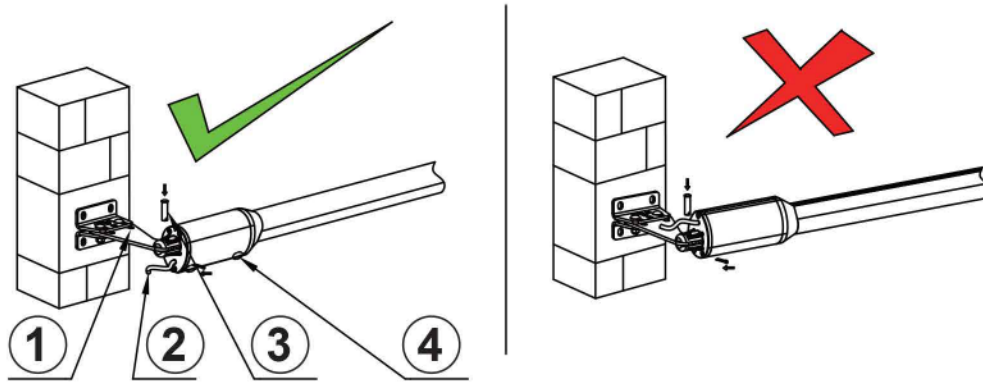| A	B	C	D
100	281	39	90°
150	244	39	90°
200	207	39	90°
300	133	39	90°
150	173	39	110°
200	113	39	110°

(5) Considerations.

Figure left, Power Cable And Rain Drainage Aperture Placed Correctly
Figure right, Power Cable And Rain Drainage Aperture Placed Incorrectly

① Post Rear Fixed Bracket   ② Power Cable   ③ Lock Pin   ④ Rain Drainage Aperture

Notice: Incorrect Installation, Figure right:

Cable must not be installed above the motor arm. It may pinch and strip the cable and causes electric shock. Follow correct installation as shown in Figure left.

2. Attach the rear bracket（Part B）to the gate body
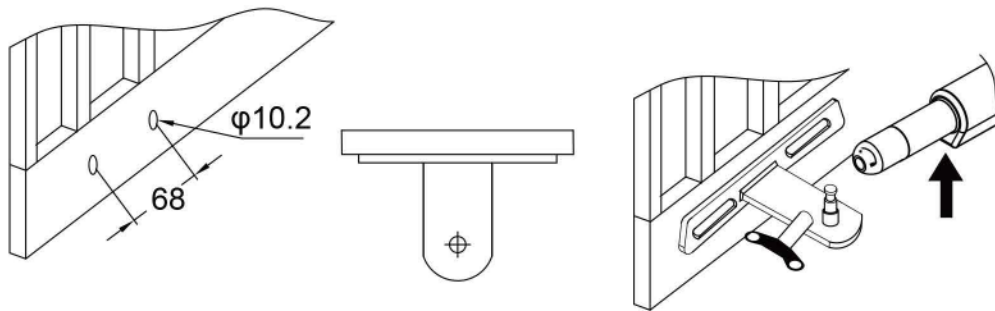
A. Drill 2 Holes of 10.2mm Diameter With Space 68mm Between 2 Holes.

B. Locate the 2 Slotted Holes Gate Bracket above the Drilled Holes.

C. Place the End Motor Bracket to the Gate Bracket using the Appropriate Bolts and Tighten Properly (Please note these bolts used to fixed front bracket to the gate are not provided due to the thickness of each gate is different).

D. Insert the Lock Pin and Clamping Washers.

Swing Gate automation Features & Options
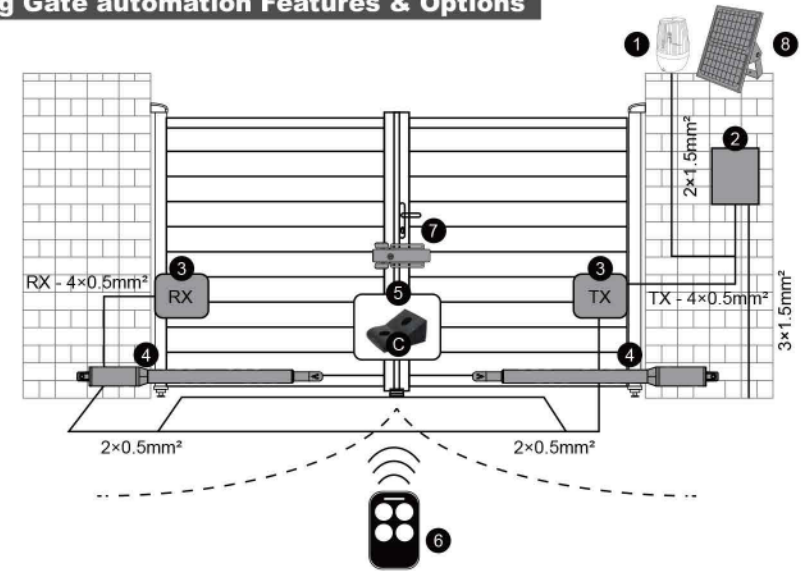
❶ FLASH LAMP   ❸ Photocell   ❺ Rubber stop   ❼ Electric Lock (Optional)
❷ Control box   ❹ Swing gate motor ❻ Remote control   ❽ Solar System (Optional)
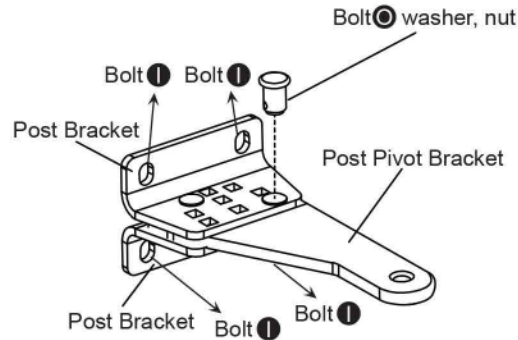
Installation Step

STEP 1. Post Bracket Height
Ensure that the Post bracket height is in the same exact level with the gate bracket height. Failing to ensure accurate common heights will cause the motor arm to bend leading to failure. Also, the force to push or pull the gate will be be reduced causing the motor to open or close the gates with difficulty or may not operate successfully at all. Severe different in height will damage the motor and the motor arm.
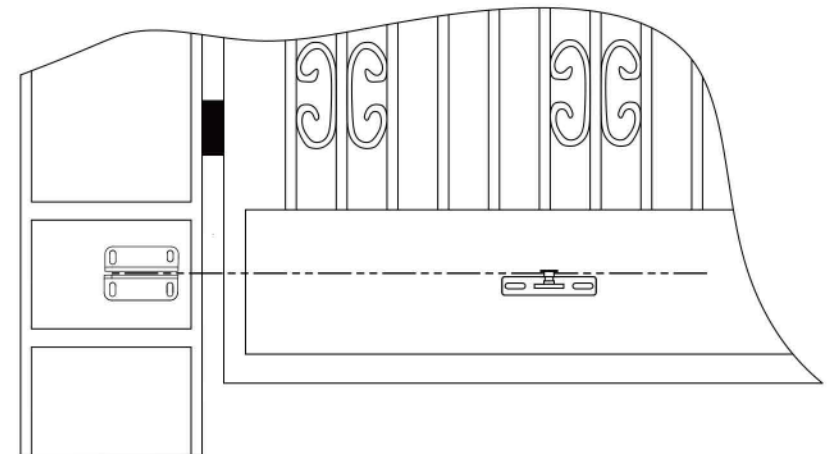
Step 2. Post Bracket Installation

Insert the Bolt through the center hole of the post bracket and post pivot bracket as shown.
Place the washer, nut on the bottom of the bolt and hand tighten.
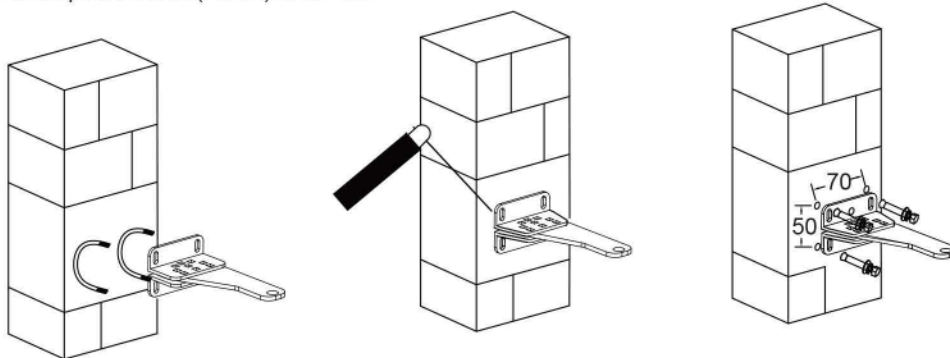

STEP 3. Install the post bracket of motor to the wall and gate.

Install the post bracket of motor to the wall and gate. Attached the gate bracket and post bracket assembly to the opener.
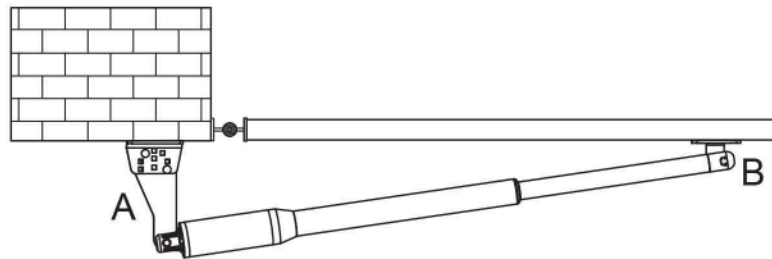
1. Fix the post bracket (Part A) to the wall

(1) Construction Drill and Bolts, Figure 5 right:

A. Drill 4 Holes of 8mm Diameter.

B. Insert the 4 Provided Concrete Bolts and Tighten Properly (Do not over tighten as you may strip the bolt out of the concrete or the brick).

C. Place the Motor Connecting Bracket and Tighten with the Provided Screws.

(2) Construction Drill and Weld, Figure 5 middle:

A. Drill 4 Holes of 8mm Diameter.

B. Locate the 4 Slotted Holes Post Bracket above the Drilled Holes.

C. Weld the Motor Bracket to the Post Bracket.

(3) Precast U Bolts, Figure 5 left:

A. Locate the 4 Slotted Holes of the Post Bracket above the End of U Bolts.

B. Apply the Appropriate Screws.

C. Place the Motor Connecting Bracket and Tighten with the Provided Screws.

(4) Adjusting different angles of Rear Bracket Fixed Plate to fit different Installing condition .
   According to the diagram, the post bracket plate is attached the fixed bracket with an appropriate angle. Take out the gate opener arm to install the gate brackets and post brackets on the gate machine (the bracket angle is adjustable).