Single Swing Gate Opener User's Manual Model:

EK 280 EK 365 EK 700M

- ★ Please read and follow all warnings, precautions and instructions before installation and use.
- * A 24VDC battery (NOT INCLUDED, 2PCS 12VDC batteries can be connected in series to become 24VDC) is required to power the gate opener. Adapter which is included in the package is used to charge the battery.
- ★ Never connect the solar panel to the control board directly to charge the battery.
- * Periodic checks of the opener are required to ensure safe operation.
- * Save this manual.

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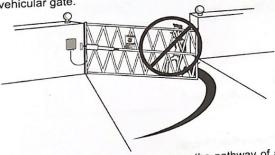
Safety Installation Information

- READ and FOLLOW all instruction.
- 2. The gate opener is intended for use with Class I vehicular swing gates.

Class I denotes a 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.

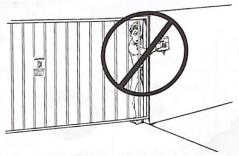
- 3. Gate opening system designers, installers and users must take into account the possible hazards associated with each individual application. Improperly designed, installed or maintained systems can create risks for the user as well as the bystander. Gate system design and installation must reduce public exposure to potential hazards. All exposed pinch points must be eliminated or guarded.
- 4. 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.
- The gate must be properly installed and work freely in both directions prior to the installation of the gate opener.
- 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.
- 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.



Pedestrians should never cross the pathway of a moving gate. The gate opener is not acceptable for 1

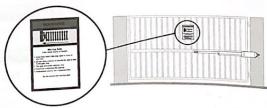
use on any pedestrian gate. Pedestrians must be supplied with supplied with a separate pedestrian access.

- 9. For an installation utilizing non-contact sensors (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.
- 10. 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.



- 11. 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 on or ride the gate during the entire travel of the gate.
- 12. Each gate opener is provided with two safety warning placards. The placards are to be installed on the front and back of the gate where they are plainly visible. The placards may be mounted using cable ties through the four holes provided on each placard.

All warning signs and placards must be installed where visible in the area of the gate.



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

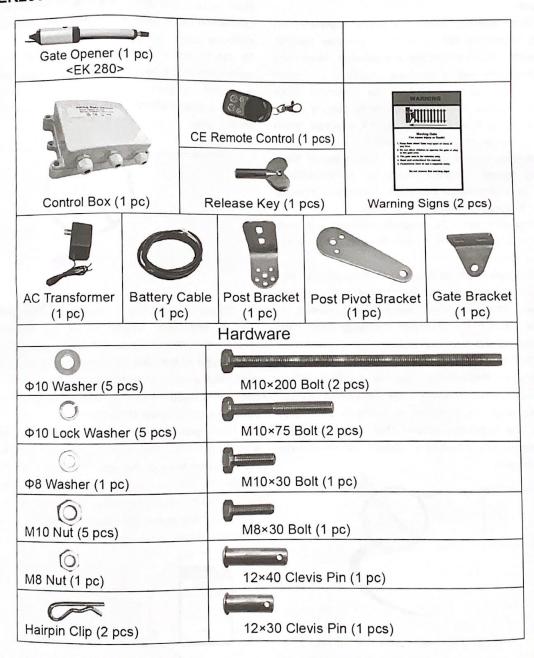
SAVE INSTRUCTION.

WARNING

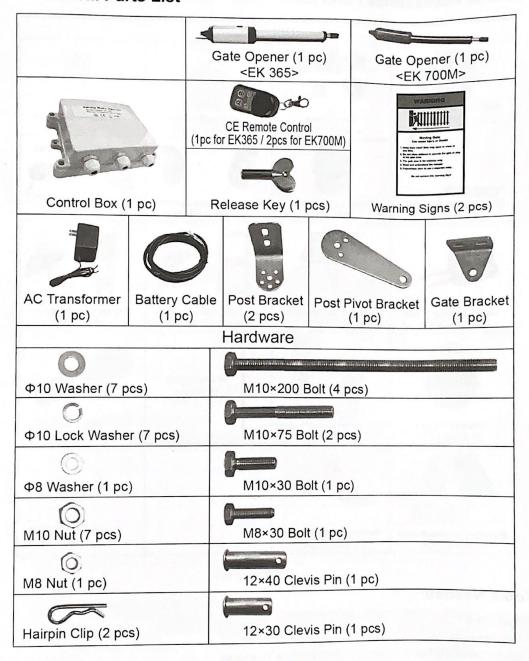
To prevent SERIOUS INJURY or DEATH from a moving gate:

- Install warning signs on the front and back of the gate in PLAIN VIEW.
- Permanently secure each warning sign in a suitable manner using fastening holes.
- 14. Do not permit children to play on or around the gate and keep all controls out of their reach.

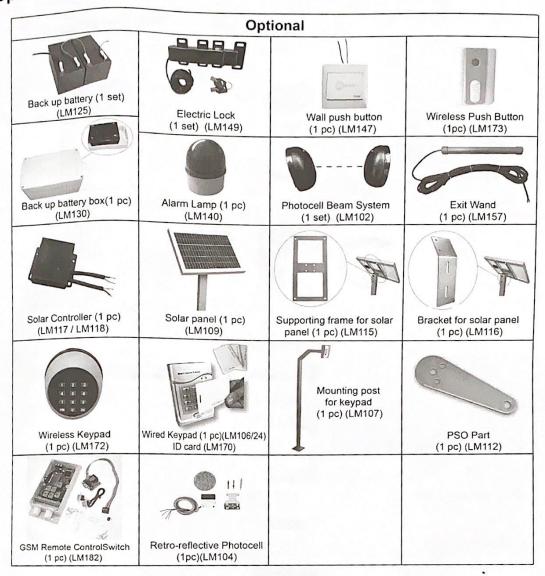
EK280 Parts List



EK365/700M Parts List



Optional Accessories Parts List



Tools Needed:

- Power Drill
- Tape Measure
- Open End Wrenches 14# &17# or Adjustable Wrenches
- · Wire Strippers
- C-Clamps small, medium, and large
- Level
- Hacksaw or Heavy Duty Bolt Cutters
- Phillips Screwdriver
- An extra person will be helpful

Technical Specifications & Features

	Specific	cations				
	EK 280	EK 365	EK 700M			
Input:		120V/60Hz or 230V/50H	17			
Motor voltage:		24VDC	14			
Power:	30W	50W	80W			
Current:	1.5A	2A	3A			
Actuator speed:		16mm/s				
Max. actuator travel:	385mm					
Ambient Temperature:	-20°C ~ +50°C (-4°F to 122°F)					
Protection class:	IP44					

Gate Capacity of EK280

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140 kg	1	NR	NR	NR	NR
110 kg	1	1	NR	NR	NR
90 kg	1	4	1	NR	NR
70 kg	1	4	1	1	NR
50 kg	1	1	1	1	1
	1.2 m	1.8 m	2.4 m	3 m	3.6 m

Gate Length

Gate Capacity of EK365

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250 kg	1	NR	NR	NR	NR	NR
200 kg	1	4	NR	NR	NR	NR
160 kg	1	1	4	NR	NR	NR
110 kg	1	4	1	1	NR	NR
70 kg	1	4	1	1	1	NR
50 kg	1	1	1	1	√	√
	1.2-1.8 m	2.4 m	3 m	3.6 m	4.3 m	5 m

Gate Length

Gate Capacity of EK700M

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340 kg	1	1	NR	NR	NR	NR	NR
300 kg	1	1	1	NR	NR	NR	NR
250 kg	1	1	1	1	NR	NR	NR
200 kg	1	1	1	1	√	NR	NR
160 kg	1	1	1	1	1	√	NR
110 kg	1	1	1	1	1	✓	1
110 kg	1.2-1.8 m	2.4 m	3 m	3.6 m	4.3 m	5 m	5.5 m

Gate Length

Features:

- Soft start and soft stop
- Emergency release key in case of power failure
- · Fast selecting push/pull to open
- Stop in case of obstruction during gate opening.
- · Reverse in case of obstruction during gate closing.
- Built in adjustable auto-close (0-100 seconds)
- · Built in max. Motor running time (MRT) for multiple safety protection (40 seconds)
- Reliable electromagnetism limit for easy adjustment
- Can be equipped with a wide range of accessories

Installation Overview

Single Gate Overview

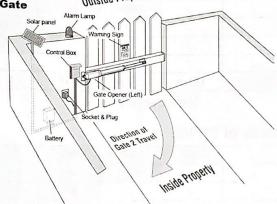
Pull-to-Open Gate

WARNING

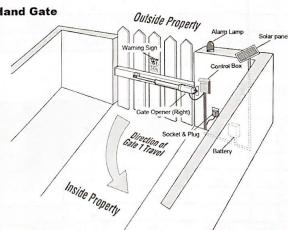
To prevent SERIOUS INJURY or DEATH, at least one non-contact sensor should be located where the risk of entrapment or obstruction exists.

Left-Hand Gate

Outside Property



Right-Hand Gate



preparation for Installation

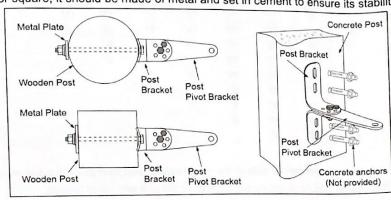
There are two installation types for the gate opener, Pull-to-Open and Push-to-Open.

In the Push-to-Open installation, gate opens out from the property. A Push-To-Open Bracket (PSO part) is required to be used for each gate.

NOTE: Ensure the gate does not open into public areas.

The gate opener is mounted to the gate and to the gate post. Both round and square posts can be used because the Post Brackets are curved. When mounting the Post Brackets, use bolts long enough to pass through the entire post. M10 x 200 bolts are included. Concrete anchors are not provided.

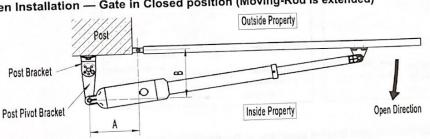
When mounting the Post Brackets to wooden posts, a larger-size washer or metal plate should be used between the bolts and the wooden post to ensure the stability of the fastening hardware. If the post is smaller than 6" diameter or square, it should be made of metal and set in cement to ensure its stability.



Install the Gate Opener on the Gate

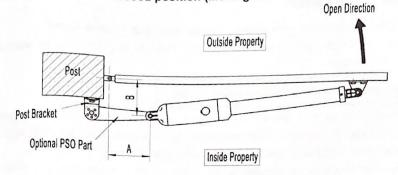
The position of Post Bracket is very important. The following illustrations and tables are required to determine the proper mounting position for the Post Bracket. The tables show the maximum opening angle of the gate for a given A and B. For example, if A is 15cm and B is 20cm, the maximum opening angle of the gate is 110°.

Pull-to-Open Installation — Gate in Closed position (Moving-Rod is extended)



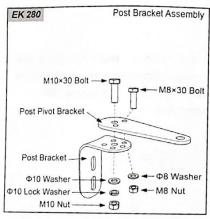
			No. Sansasi		, control		1-11	A=15cm	A=16cm	A=17cm	A=18cm	A=19cm	A=20cm	A=21cm	A=22cm
	A=8cm	A=9cm	A=10cm	A=11cm	A=12cm	A=13cm	A=14cm	-	-		102°	98°	95°	93°	91°
	-			98°	101°	104°	106°	108°	110°	105°			-	90°	89°
3=19cm	90°	93°	96°	-		-	107°	110°	104°	99°	96°	94°	92°		03
3=20cm	91°	93°	95°	98°	100°	103°		-	99°	96°	93°	91°	89*	88°	
	-	93°	95°	97°	100°	103°	106°	103°	-		90°	89°	87°		
B=21cm	91°	-			99°	101°	103°	98°	95°	92°	1		01		
B=22cm	91°	94°	95°	97°			98°	94°	92°	90°	88*	86*			
	92°	94°	96°	98°	100°	103°	-			87°	85°				
B=23cm	-			97°	99°	97°	93°	91°	88°		/		1000		
B=24cm	90°	92°	95°		-	92°	90°	87°	85°	840		-			
B=25cm	90°	92°	94°	97°	96°	-	_	84*							
		92°	94°	95°	91°	88°	86°	04	-				100		
B=26cm	90°				870	85°	1								100
B=27cm	90°	92°	95°	90°		- 00									
B=28cm	90°	93°	89°	86°	84°										

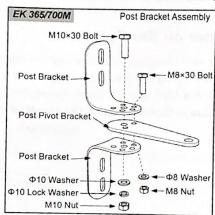
Push-to-Open Installation — Gate in Closed position (Moving-Rod is retracted)



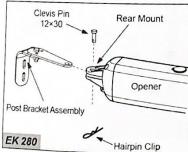
	A=10cm	A=12cm	A=14cm	A=16cm	A=18cm	A=20cm	A=22cm	A=24cm	A=26cm
B=9cm	90°	100°	111°	120°	125°	117°	108°	99°	90°
B=11cm	90°	98°	107°	115°			100°	92°	86°
B=13cm	90°	97°	104°	110°	120°	111°	94°	87°	00
B=15cm	90°	98°	105°	112°	109°		89°	01	
B=17cm	90°	96°	101°	108°	101°	97° 91°	83°		
B=19cm	90°	95°	100°	106°	93°	85°	03		
B=21cm	90°	94°	99°	97°	87°	03			
B=23cm	90°	93°	97°	90°	81°				
B=25cm	90°	93°	94°	83°	01				-
B=27cm	90°	92°	86°	00					

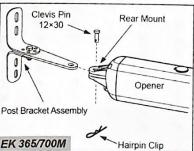
1. Insert the M10 x 30 bolt through the center hole of the post bracket and post pivot bracket as shown. Place a ϕ 10 washer, ϕ 10 lock washer and M10 nut on the bottom of the bolt and hand tighten.

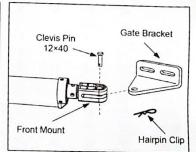




2. Attach the gate bracket and post bracket assembly to the opener by inserting a clevis pin. Secure the clevis pins using the hairpin clips.

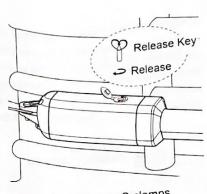


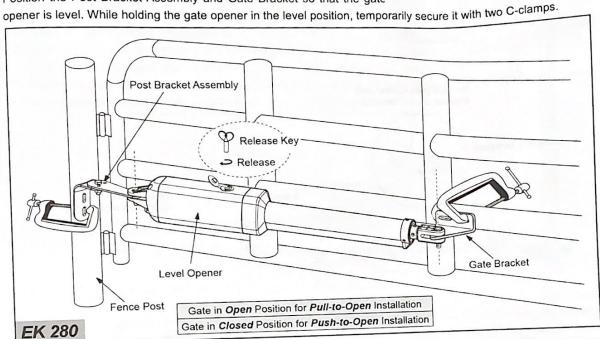


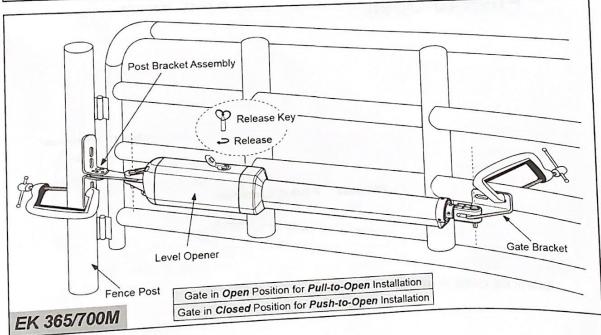


3. Open the release hole plug on the top of the gate opener, insert the release key, and turn the key 90° clockwise. This releases the motor and allows the push-pull rod to be manually extended and retracted. To restore normal operation, turn the key 90° counterclockwise.

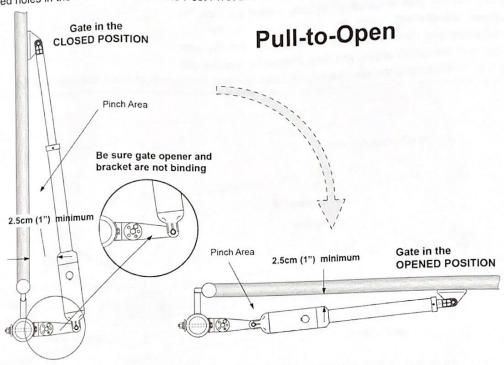
4. With the opener fully retracted and with the gate in the fully open position (for Pull-to-Open installation) or fully closed position (for Push-to-Open installation), place the gate opener with the Post Bracket Assembly and Gate Bracket on the gate post and the gate. Position the Post Bracket Assembly and Gate Bracket so that the gate

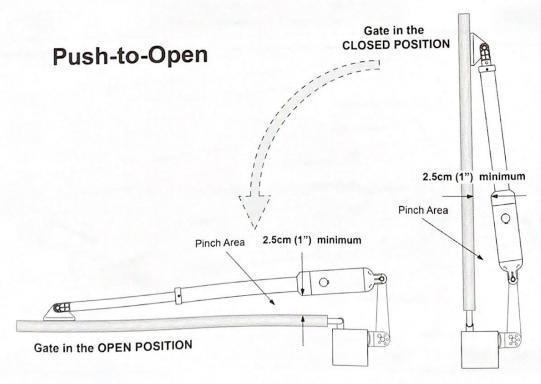






5. Make sure that there is a minimum clearance of 2.5cm between the gate and the opener and that the opener and the Post Pivot Bracket are not binding in both the gate-open and gate-closed positions. If there is not at least 2.5cm of clearance or if the opener and the Post Pivot Bracket are binding, rotate the Post Pivot Bracket and/or move the Post Bracket Assembly to obtain the minimum clearance and eliminate the binding. When the minimum clearance has been obtained and any binding has been eliminated, place the M8 x 30 bolt through the aligned holes in the Post Bracket and the Post Pivot Bracket.





- 6. Sign the bolt-hole point on the gate bracket and gate. Do this by placing a punch or a sign in the middle of each boll slot on the post bracket assemblies and the gate bracket. It allows slight adjustments to the post bracket. Then remove the post bracket and gate bracket by taking off the C-clamps.
- 7. Drill 10.5 mm diameter holes through the post and the gate at the marked locations.
- Assembly EK 365 / 700M Assembly 8. Attach the post bracket assemblies to EK 280 the gate posts by inserting M10 x 200 bolts through each post bracket assembly and the drilled holes in the gate post. Fasten each bolt with one ⊄10 washer, one ⊄10 lock washer, and one ⊄10 nut.

Post Bracket

Mark fence post through

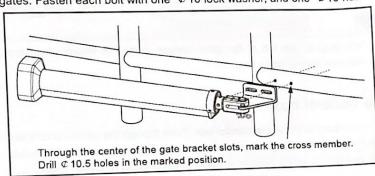
middle of bracket slots and drill Φ10.5 holes

Mark fence post through

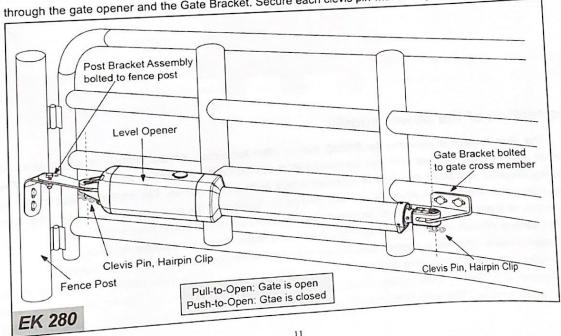
middle of bracket slots and drill Φ10.5 holes

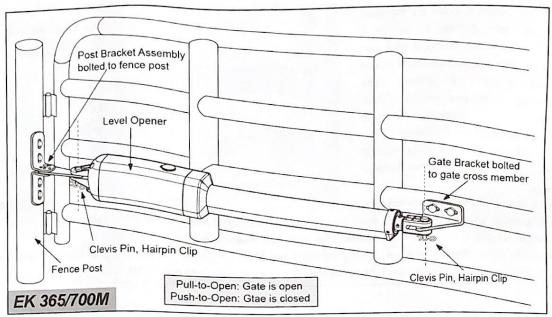
Post Bracket

9. Attach the gate brackets to each gate by inserting two M10 x 75 bolts through the gate brackets and the drilled holes in the gates. Fasten each bolt with one ⊄10 lock washer, and one ⊄10 nut.



- 10. Cut off any part of the bolts that extend beyond the tightened nuts.
- 11. With the gate opener fully retracted and with the gate in the fully open position (for Pull-to-Open installation) or fully closed position (for Push-to-Open installation), attach the gate opener to the Post Bracket Assembly and the Gate Bracket by inserting a clevis pin through the gate opener and the Post Pivot Bracket and another clevis pin through the gate opener and the Gate Bracket. Secure each clevis pin with a hairpin clip.





12. Open the release hole plug on the top of the gate opener, insert the release key, and turn the key 90° counterclockwise. This restores normal operation.

Mounting of the control box

Use 2 deck screws (not provided) to install the control box. Even though the control box is waterproof designed, for safety reason and a longer service life, it is recommended to install the control box inside a secure surface and at least 100 cm (40 inches) above the ground to avoid being flooded or buried under snow.



Connection of the power supply

The gate opener is powered by 24VDC battery (Not included). 24VDC battery is required to be installed with the gate opener. You can connect 2 PCS 12VDC battery in series to become 24VDC. The following diagram will show you how to connect 2 PCS batteries in series. The charging type could be either Adapter or solar panel. Also the two can charge the battery at the same time. Please note the wire connection of them is very important. Incorrect wire connection will damage the control board.

A The battery should be waterproof type or you should place them in a waterproof case.

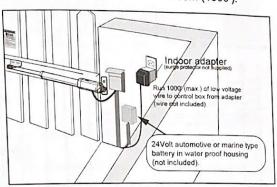
A Please ensure other wire connections are completed before connecting the power supply.

Please refer to the illustration "wire connection of the control board" to connect the battery and Adapter to the control board. The "24V+" of the battery should be wired to the BAT+ (#11) terminal, "24V-" should be wired to "BAT-" (#12) terminal. The wire (2*0.75mm2, 1meter long) for connecting the battery has been provided

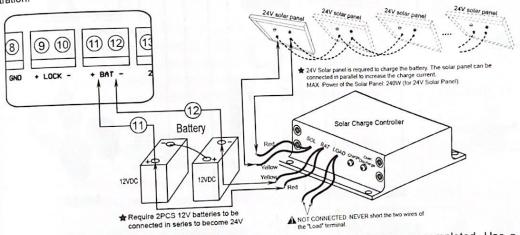
and connected to the control board in factory. Adapter should be wired to the "ADAPTER" (#13, #14) terminals of the control board, no matter the polarity.

the length of the wire of the adapter is 1.5m (5'). So if the distance between the outlet and the control box is longer than that, you should use an extended wire to connect the adapter to the control board. The wire size should be at least 16AWG. If the distance is more than 100m (300'), the wire size should be at least 14AWG. The maximum distance from the adapter to the control box is 300m (1000').

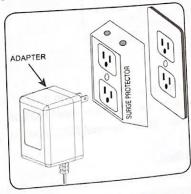
TM



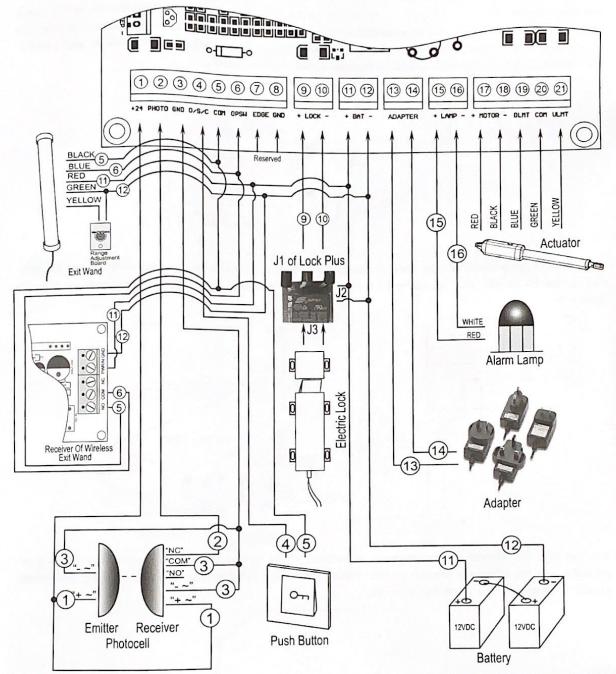
If you want to use an optional solar panel to charge the battery, a solar charge controller must be used to control it to charge the battery. You can connect the solar panel and the solar charge controller refers to the following illustration.



You can plug the adapter into the electrical outlet after all the wire connections are completed. Use a surge protector with the adapter is strongly recommended. If electrical outlet is located outdoors, outlet and adapter should be protected by a weatherproof cover.



Connection of the control board



1. Actuator

Insert the stripped cable wires into the appropriate terminals on the opener terminals block. The **red** wire should be inserted into the "+MOTOR" terminal(#17), the **black** wire into "MOTOR-" terminal (#18), the **blue** wire into "DLMT" terminal(#19), the **green** wire into "COM" terminal(#20), and the **yellow** wire into "ULMT" terminal (#21).

2. Battery (Required but not included)

The "24V+" of the battery should be wired to the +BAT (#11) terminal, "24V-" should be wired to "BAT-" (#12) terminal. 2*12VDC batteries can be connected in series to become 24V.

3, Adapter (Only used to charge the batteries) 3. Adapter (#13) terminals to the control board. No matter the polarity.

4. Alarm Lamp (optional)

4. Alarm Land land should be inserted into either LAMP (#15) terminal, the white wire into the other one (#16).

5. Photocell Beam System (PBS) (optional) 5. Photosale to connect the "+ ~" terminal of the photocell's emitter to the "+24"(#1) terminal, the "- ~" use a 2-core cable to connect the "+ ~" terminal of the photocell's emitter to the "+24"(#1) terminal, the "- ~" to the "GND" (#3) terminal. Also the "+ ~" and "- ~" terminals of the photocell's receiver should be connected to the "+24" and "GND" terminals in parallel.

Use another 2-core cable to connect the "NC" terminal of the receiver to the "PHOTO" (#2) terminal, the "COM" terminal to the "GND" (#3) terminal.

6. Push Button (optional) The push button should be wired to the "#4 and "#5" terminals. No matter the polarity. The gate operator works allernately by pressing the button (open-stop-close-stop-open).

7. Electric Lock (optional)

A lock plus board (should be purchased separately) is required to connect the electric lock to the control board. The 2 wires of J1 of lock plus should be wired to the "9#" and "10#" terminal of the control board. No matter the polarity. Red wire of J2 should be wired to the 11# terminal and yellow wire of J2 should be wired to the 12# terminal. Red wire of J3 should be connected to the red wire of electric lock and also the yellow wire of J3 should be connected to the yellow wire of electric lock.

8. Exit Wand (optional)

The BLACK wire of the exit wand should be connected into the "#5" terminal.

The BLUE wire of the exit wand should be connected into the "#6" terminal.

The RED wire of the exit wand should be connected into the "#11" terminal.

The GREEN wire of the exit wand should be connected into the "#12" terminal.

The sensitivity adjustment board should be wired to the GREEN wire and the YELLOW wire of the wand. No matter the polarity.

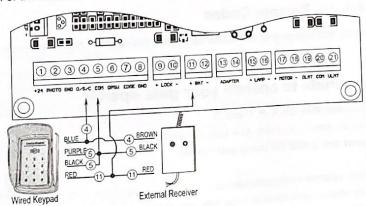
9. Wireless Exit Wand (optional)

The "NO" terminal of the receiver should be wired to the "#5" terminal of the control board.

The "COM" terminal of the receiver should be wired to the "#6" terminal of the control board.

The "PWR" terminal of the receiver should be wired to the "#11" terminal of the control board.

The "GND" terminal of the receiver should be wired to the "#12" terminal of the control board.



The RED wire of the wired keypad should be connected into the "#11" terminal.

The BLACK wire of the wired keypad should be connected into the "#5" terminal.

The PURPLE wire of the wired keypad should be connected into the "#5" terminal.

The BLUE wire of the wired keypad should be connected into the "#4" terminal.

TM

11. External receiver (optional)

The RED wire of the external receiver should be connected into the "#11" terminal.

The BLACK wire of the external receiver should be connected into the "#5" terminal.

The BROWN wire of the external receiver should be connected into the "#4" terminal.

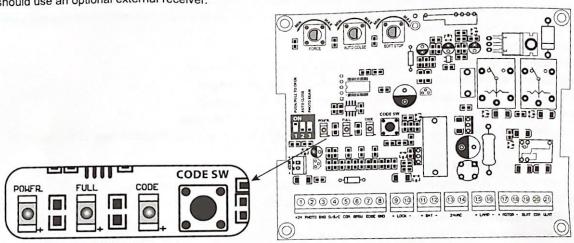
Note: Using of the exit wand, keypad and external receiver would cause the battery exhaused quickly. Big capacity of battery and big power of solar panel (if the solar panel is used as main charger) is required if you want to use either of them.

How to Program the Remote to the Opener

You must program the remote to the opener before operating. You can follow the below steps to program the remote to the opener.

Press and release the **CODE SW** button, the **CODE** LED will be ON, then press the key in the remote twice in 4 seconds, the **CODE** LED will flash for 3 seconds and then to OFF. Now the remote has been programmed successfully.

NOTE: The button of the remote control should be pressed and hold for more than 2 seconds while programming. Max. 10 remotes can be programmed for the opener. If you want program more remotes, you should use an optional external receiver.



How to Erase All the Remote Codes

Press and hold the **CODE SW** button until the **CODE** LED from ON to OFF. Now all remote codes have been erased.

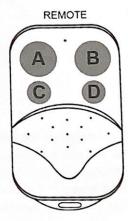
How to use the remote to operate your gate opener

Each remote has four buttons, they are A, B, C and D.

You may use this remote to operate as many as 4 sets our swing gate opener or 1 set our sliding gate opener and 2 sets our swing gate opener.

1. Use this remote to only operate swing gate opener

A,B,C and D four buttons share same function once they are programmed with our swing gate opener. You may choose any button to program it with our swing gate opener. Every press of the button is able to active the gate opener to work alternately (open-stop-close-stop-open).

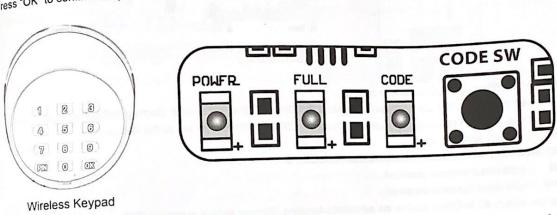


Use one remote to operate swing gate opener & sliding gate opener at the same time 2 Use one to the same time 2 Use one realize opener have midway mode. B is designed to realize midway function (refer to more details and gate opener manual). So it is must program A butter and prog All of our sliding gate opener manual). So it is must program A button with sliding gate opener, while you may gither C button or D button with swing gate opener. in our situate program either C button or D button with swing gate opener.

Wireless keypad programming

You can follow the below steps to program wireless keypad to the opener. Press the CODE SW button until the CODE LED is ON, then release the button. Then press "OK" button on keypad and CODE LED will flash for 3 seconds and then be OFF which indicates the keypad has been programmed successfully. You can use the default password "888888" to operate the opener after programming. You can press "PIN" "8 8 8 8 8 8" and then press "OK" to confirm to operate the opener.

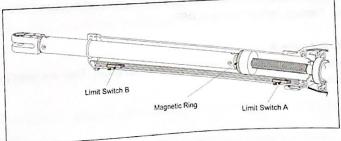
Also you can change the password of the keypad follow the below steps. Press "PIN" and then input the six digits old password and then press "PIN" again, the CODE LED will be ON. Input the six digits new password and then press the "PIN" to confirm the new setting, CODE LED will flash for 3 seconds and then be OFF which and their street has been changed successfully. You can press "PIN" "6 digits new password" and then indicates the password the passwor press "OK" to confirm to operate the opener.



NOTE: Every step for pressing button during program must be finished within 1 second to ensure successful programming.

Adjusting the Limit Switch

The position of Limit Switch A was fixed in factory, do not adjust it again. Plug on the power to running gate opener, use a screwdriver to loosen the screw of Limit Switch B, slide Limit Switch B to the desired closed position and fix it.



Limit setting for Gate 1 is finished now.

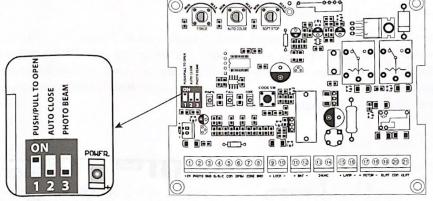
NOTE: Always place the magnetic ring between the Limit Switch A and B.

Setting of the Control Board

WARNING: Ensure the gate opener is Power Off when you make any adjustment of the gate opener. Keep away from the gate during you set the gate opener system in case of the unexpected gate moving. Carefully adjust the DIP switches to avoid the risk of machine damage and injury or death. Always ask the help of professional technician /electrician if you have any question.

1. DIP Switches

The DIP switches are used to select pull/push to open, enable/disable auto close function, enable/disable photocell function.



DIP Switch #1: Select push/pull to open

If the gate opens into the property (**pull to open**), the DIP Switch is set to **OFF** (factory default setting). If your gate opens out from the property (**push to open**) the DIP Switch must be set to the **ON** position. Factory default setting is **OFF**.

DIP Switch #2: Auto close function enabled/disabled

ON - Auto close function enabled

OFF - Auto close function disabled

Set the switch #2 to ON to enable the auto close function. Factory default setting is OFF.

DIP Switch #3: Photocell function enabled/disabled

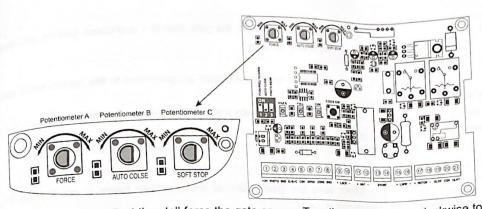
ON - Photocell function enabled

OFF - Photocell function disabled

You must set the switch #3 to ON to enable the photocell function if you want to use the photocell with the gate opener. Factory default setting is **OFF**.

2. Potentiometers

There are 3 potentiometers located in the control board. They are used to adjust the stall force, auto-close time and soft stop period.



Motentiameter A is used to adjust the stall force the gate opener. Turn the potentiameter clockwise to increase potentialists and turn it counter-clockwise to decrease the stall force.

potentiometer B is used to adjust the auto close time of the gate opener. Turn the potentiometer clockwise to potentionies. Potentionies. Potentionies of the gate opener. Turn the potentiometer clockwise to decrease the auto close time, and turn it counter-clockwise to decrease the auto close time. The auto close time

an be adjusted steplessly from 3 to 120 seconds. potentiometer C is used to adjust the soft stop period of the gate opener. Turn the potentiometer clockwise to potentialities. From 1 to 5 seconds can be adjusted steplessly from 1 to 5 seconds.

Trouble Shooting

Have a multimeter to check voltage and continuity. Use caution when checking high voltage terminals.

Symptom	Possible Solution(s)						
The opener does not run. Only the CODE LED is ON slightly.	1. The batteries are not connected to the control board or the wire connection of the batteries is loosened. Please note that a 2*12V batteries is required to power up the gate opener. The Adapter which is included in the package is only used to charge the batteries.						
The opener does not run. Power LED flash rapidly (the LED is ON 200ms per second, normally the LED ON 500ms per second).	Battery is over-dsiacharge. Check the voltage of the battery. The voltage of the battery should above 22V to make the gate opener work normally.						
The opener does not run. Power LED does not ON.	Check the fuse in the control board. Replace the control board if necessary. Check the control board. Replace the control board if necessary.						
Gate moves a little and then reverse or	to mice to increase the re-						

stop	Disconnect the gate from the gate operator and check that the gate slides freely without any binding.
Gate opener does not run when you press the remote control	 Make sure the remote has been programmed to the control board before using. The battery of the remote may be exhausted. Replace the battery and try it again. Check the control board. Replace the control board if necessary.
Gate can open but does not close	 Make sure the connection of the photocell beam is not blocked if the photocell is used. Check if the close limit switch is broken. Check the control board. Replace the control board if necessary.
Gate automatically opens, but does not automatically close	Setting of DIP switch #1 would be wrong. Please set the dip switch correctly according to the push/pull to opener installation of the gate opener.



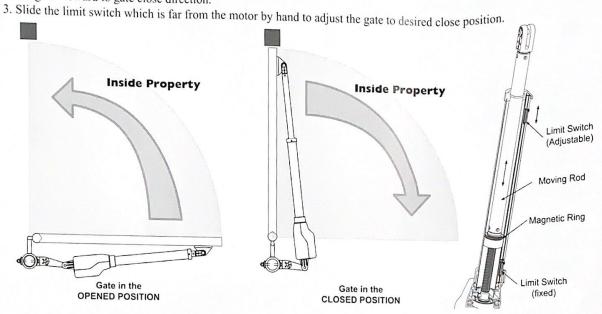
According to Waste of Electrical and Electronic Equipment (WEEE) directive, WEEE should be separately collected and treated. If at any time in future you need to dispose of this product please do NOT dispose of this product with household waste. Please send this product to WEEE collecting points where available.

IMPORTANT

When you start to adjust the limit switch to determine the gate open and close position, the moving rod inside actuator should be in fully retracted position which is taken as the desired open position (in pull-to-open installation) or desired close position (in push-to-open installation). Base on this position, slide the limit switch to adjust the gate close and open position accordingly. See attached Figure.

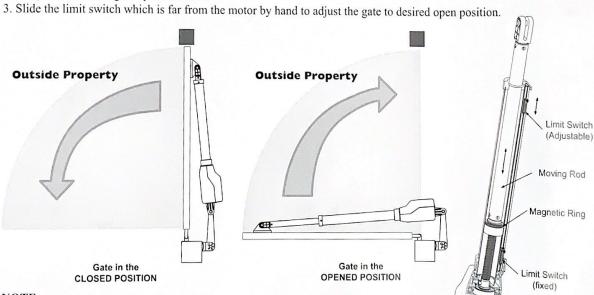
A. Pull-to-Open (Recommended)

- 1. Actuator is in fully retracted position
- 2. Check and determine the desired gate open position with retracted actuator firstly, then operate the actuator to extend its moving rod toward to gate close direction.



B. Push-to-Open

- 1. Actuator is in fully retracted position.
- 2. Check and determine the desired gate close position with retracted actuator firstly, then operate the actuator to extend its moving rod toward to gate open direction.



NOTE:

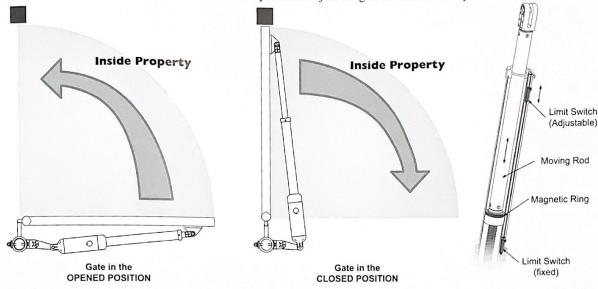
- 1. The limit switch which is near the motor is fixed in the factory with ONLY 2cm stroke. It is not recommended to slide it to adjust the opening or closing position.
- 2. Temporarily secure the actuator in the gate and pull or push the gate by manual before adjusting the limit switch. Visually inspect for a minimum 1cm clearance between the gate and actuator, so as to avoid damage or squeezing to the actuator in gate operation. For more information, please refer to user's manual.

IMPORTANT

When you start to adjust the limit switch to determine the gate open and close position, the moving rod inside actuator should be in fully retracted position which is taken as the desired open position (in **pull-to-open** installation) or desired close position (in **push-to-open** installation). Base on this position, slide the limit switch to adjust the gate close and open position accordingly. See attached Figure.

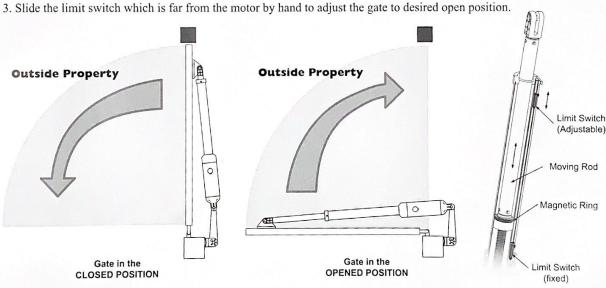
A. Pull-to-Open (Recommended)

- 1. Actuator is in fully retracted position
- 2. Check and determine the desired gate open position with retracted actuator firstly, then operate the actuator to extend its moving rod toward to gate close direction.
- 3. Slide the limit switch which is far from the motor by hand to adjust the gate to desired close position.



B. Push-to-Open

- 1. Actuator is in fully retracted position.
- 2. Check and determine the desired gate close position with retracted actuator firstly, then operate the actuator to extend its moving rod toward to gate open direction.



NOTE:

- 1. The limit switch which is near the motor is fixed in the factory with ONLY 2cm stroke. It is not recommended to slide it to adjust the opening or closing position.
- 2. Temporarily secure the actuator in the gate and pull or push the gate by manual before adjusting the limit switch. Visually inspect for a minimum 1cm clearance between the gate and actuator, so as to avoid damage or squeezing to the actuator in gate operation. For more information, please refer to user's manual.