GatekeeperLtd.

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Guard Your Yard

SKC-500DC SLIDING GATE OPENER

OWNER'S MANUAL

OUTLINE

Gatekeeper Ltd.
P.O. Box 752
Laceys Spring, AL 35754
http://www.gatekeeperltd.com

IMPORTANT SAFTEY INFORMATION

Installing the SKC-500DC Gate Opener requires installation of standard 110V electrical wiring. This work should only be performed by a trained technician. Miswiring could cause personal injury or DEATH. To prevent the risk of electrocution, be sure to turn off all power to the SKC-500DC until installation is complete.

- Fingers, hands, and loose clothing may be dragged into chain sprockets, please keep hands, fingers and loose clothing away from chain and rotating sprockets.
- The Gate may move at any time, ensure all persons are clear of the gate when It is moving to avoid the risk of injury. Do not touch the gate while it is in operation. Do not attempt to go through the gate while it is still in motion. This operator is intended for vehicular use only.
- Do not allow children or pets near your gate. Keep the remote controls away from children. Place controls where they cannot be accessed by reaching through the gate.
- To Avoid electric shock, unplug unit before opening case.
- Make sure the battery inside the operator is charged fully before using.
- Before installation, the clutch should be unlocked.
- The auto-reverse function must be checked during installation to ensure that the gate can auto-reverse in the event of obstruction, and it should be inspected regularly.
- The automatic gate opener must be grounded.
- Install the gate opener on the inside of the property, DO NOT install it on the outside of the property where the public has access to it!
- Additional safety equipment such as photoelectric sensors, safety edges, roller guards and warning signs must be installed to prevent injury.
- In the event of power failure, an emergency release key allows you to operate the gate manually.
- Please erase and reset the code after installing the opener.
- The gate opener should be installed by a qualified technician; otherwise, serious personal injury or property damage may occur.

For service, call an experienced technician. Do not in any way modify the components of the automated system; otherwise serious personal injury or property damage may

occur. We do not accept responsibility for damage or injury resulting from installing of this operator.

Class I: A vehicular gate opener (or system) intended solely for use in a single family home, or an associated garage or parking area.

ADDITIONAL FEATURES

- Keypad / single button interface.
- Infrared safety beam interface.
- Supports up to 25 RF remotes, 2 included.
- User programmable and user erasable remote codes.
- RF hopping code technology prevents thieves from guessing your remote code.
- Auto-close feature is available for this opener.
- For your safety, the SKC-500DC will stop and reverse if is encounters an obstruction on closing and stop when it encounters an obstruction on opening, as required by UL-325 safety standards.
- Manual key release design for emergency purposes.
- Self-locking at any position.
- Battery Backup for loss of power conditions
- Supports Keypad interface and Magnetic Loop Detectors simultaneously

Specifications

Transformer Output	16V AC/ 30 VA
Motor Input	12V DC 100W
Output Torque	Max 7NM
Output Speed	40RPM
Limit Switch	NC (Normally Closed)
Remote Control Operating Range	>30M
Remote Control Frequency	433.92Mhz
Noise	<58db
Environmental temperature	-10°C - +40°C
Battery	12V 7AH
MCU logic voltage	DC5V
Relay coil voltage	DC12V
Net weight	21 Kg
Emergency release key in case of power failure	

Necessary Tools and Equipment

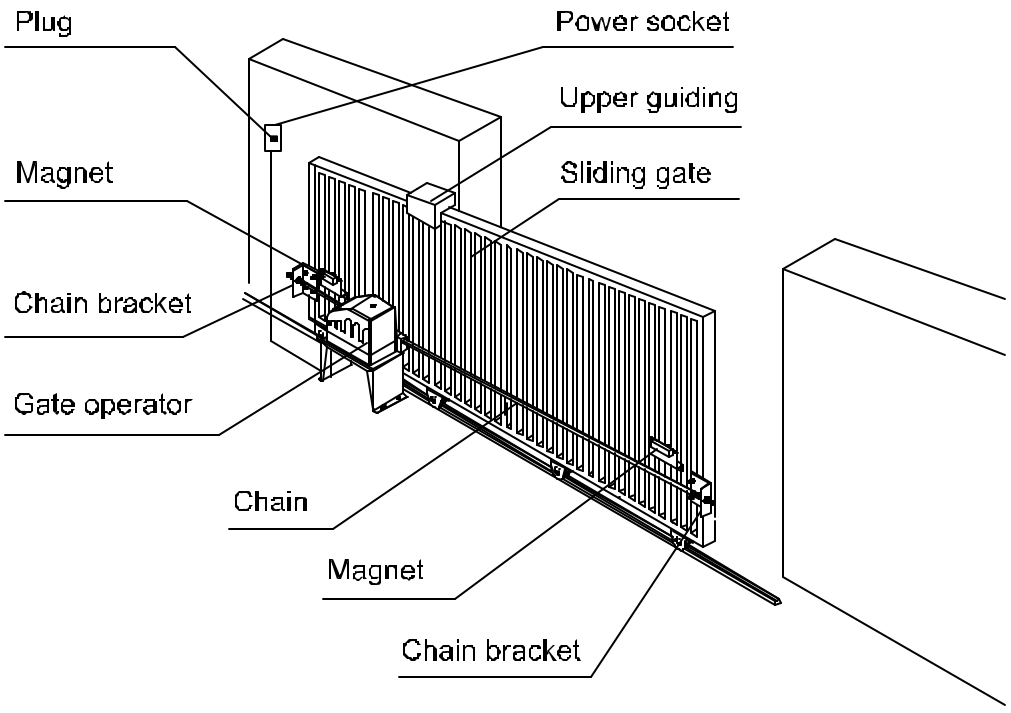
The following tools may be necessary to install the SKC-500DC Gate opener. You will need standard and Philips screw drivers, an electric drill, wire cutters and a wire stripper, a socket set, and possibly access to a welder.

Site Preparation

Before you begin the opener installation, the gate should be mounted and moving freely, there should be little resistance in the movement of the gate. The gate and post must be suitable for being automated. Check that the structure is sufficiently strong and rigid, and that its dimensions and weights conform to those listed in the specifications table of this document. Make sure that the gate is plumb and level. The fence posts must be mounted in concrete. The SKC-500DC is powered by 110V/60Hz AC power; therefore, if you have not already done so, wire a waterproof outlet near the gate following proper safety standards for your area. If you are not experienced with this type of wiring or if your area requires it, hire a professional electrician to perform this as well as wire in the SKC-500DC in the electrical section. The SKC-500DC requires at least a 10A service. Make sure your electrician takes into account the voltage drop involved in running many feet of wire to your installation location. If an insufficient gauge of wire is used, there will be insufficient power at the site to operate the opener. If you plan to use solar panels to power your gate, verify that you have sufficient solar power to charge the battery and provide power for the number of openings and closings you plan to need. Different areas of the planet receive varying amounts of sunlight, and that amount varies on the time of the year. Make sure you account for all this in any solar installation. If insufficient power is available, the opener battery can be permanently damaged and this is not covered under the warranty.

Parts List

(1) Sliding gate operator
(1) Operator Base
(1) Magnetic limit switch
(2) Remote control (2) Master Links
(2) 10 ft. Chain
(2) Chain Bolts
(2) Chain Brackets
(4) “U” Bolts for 2_ (51mm) for square & round gate frame
(4) 2 ¾_ (70mm) #48 Bolts for mounting operator to the base and washers
(4) 2 ½_ (64mm) Bolts for mounting Magnet brackets and washers
(4) 3 ¾_Anchor bolts, Anchors, Washers and Nuts (In the same bag with Manual release key)
(4) 5/8_ (15mm) Socket Head Cap screws for mounting chain box
(2) Manual release key
(2) Magnet brackets
(2) Magnets
(1) 1m BVR 0.7mm^2 antenna (1) Owner's manual



Mechanical Installation

Installation and Adjustment

The SKC-500DC Chain-driven Gate Opener operates by forcing a straight piece of chain through its chain box. This length of chain is extended between two chain brackets located at opposite ends of the gate. The entire configuration is shown in the diagram above.

Concrete Pad

The base unit of the gate opener requires a concrete pad in order to maintain proper stability. The concrete pad should be approximately 24" (600mm) x 12" (300mm) x 18" (460mm) deep in order to provide for adequate operation. The pad should be 3" (70mm) above finish grade. Be sure to locate the pad so that it will not interfere with the gate. In locations where ground freeze is possible, extend the pad below the frost line.

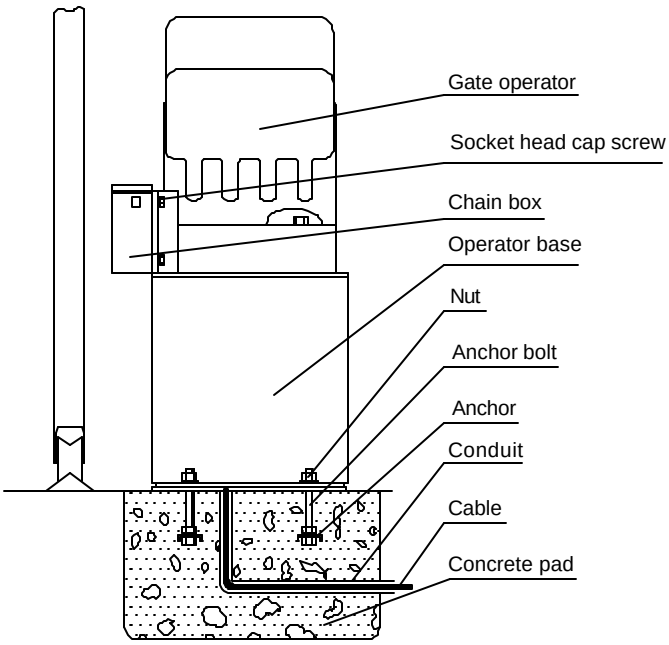
Once the gate is mounted adequately, electrical power is available, and the concrete pad is poured, you are ready to proceed.

Anchors

You can use the anchors that are provided with the opener, 3 ¾ anchor bolts (4), anchors, washers, and nuts. These anchors must be set into the concrete when it is poured, or you can use wedge anchors (1/4" x 4").

Operator Base

Mount the gate opener base to the concrete pad. The distance between the gate and the base should be no more than 2 ½ " (64mm). Verify that the opener is leveled properly.

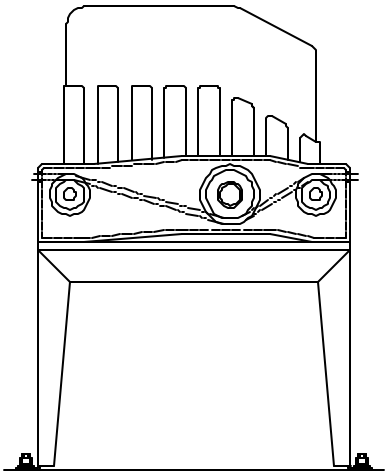


Chain Box

Make sure the ends of the guide chain are out of the chain holes on both sides of the chain box. Remove the cover and insert the manual release key and turn counter-clockwise to disengage the clutch. Remove the elastic band from the shaft and line up the key on the shaft with the sprocket at the chain box. Insert the sprocket from the chain box into the operator shaft. Place the operator on top of the base and use (4) 5/8 " (15mm) socket head cap screws to mount the chain box in to the base.

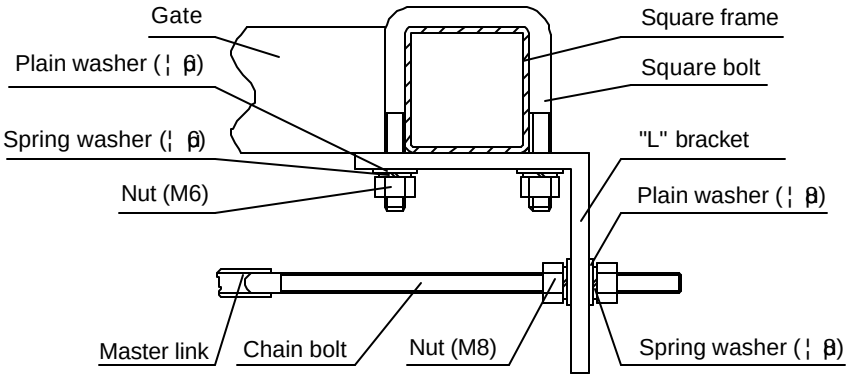
Opener

Mount the gate opener to the base using (4) 2 ¾ " (70mm) #48 bolts and washers. Make sure there is no more than 1/8" (2mm) of space between the cover and the chain box. Check the opener and make sure it is lined up with the gate.

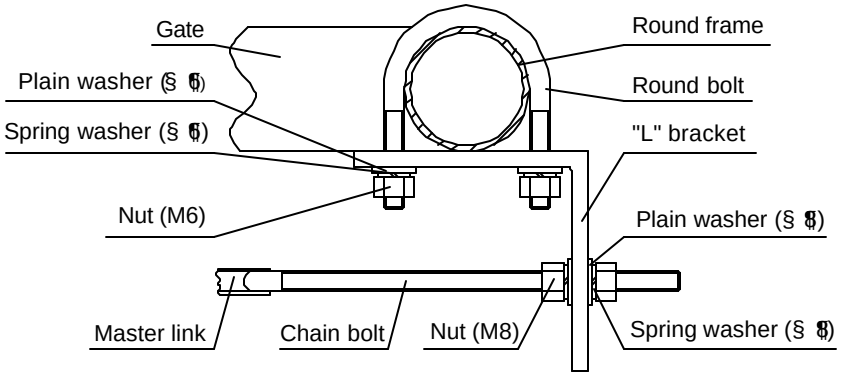


Chain Brackets

Use the appropriate bolts to attach the chain bracket to the frame of the gate. If the gate is of square frame style, use the square bolts shown.

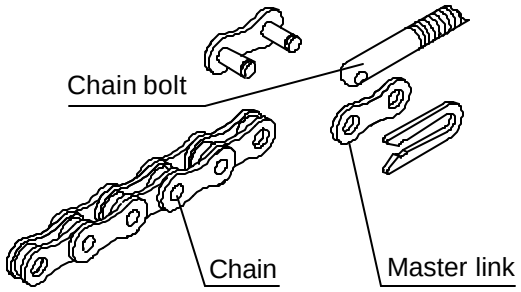


If the gate is of round frame style, use the round bolts shown.



Chain

Close the gate and attach a chain bolt to the piece of chain that comes with the chain box using enclosure master links. Tighten the chain bolt to the bracket with washers and nuts. Pull the chain through the chain wheel box to the other chain bracket at the opposite end of the gate. Connect the other end of the chain and the chain bolt, and then tighten the chain bolt to the chain bracket. Thread up the chain by adjusting the chain bolt. Cut the chain to length if necessary. Make sure that the chain is perfectly aligned with the chain holes on the chain box. Tighten the chain by tightening the chain bolts at either end. See illustration below.



Electrical

Power

The control box should be equipped with a single-phase breaker (10A). Make sure that the power is OFF before making any electrical connections. Remove the cover of the control box, perform the wiring and replace the cover again. (See Fig.3 and wiring notes for control board)

Connect the supplied transformer to the control board at the AC IN terminal on JX-1 and plug the transformer into an outlet. Verify that all electrical connections are water proof by electrical outlets into exterior grade boxes with waterproof covers. Make sure that whenever an electrical connecter enters or exits a box, it is sealed. If using solar, verify that all connections are water proof and install solar power terminals into + and – terminals in JX-1.

RF Remote Control

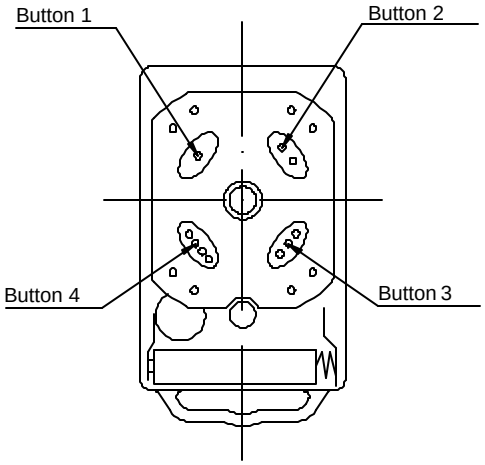


Fig.2 Remote control

- The remote control works in a single channel mode. It has four buttons. The function of button 1, button 2, and button3 are the same. With each press of the remote control button which has been programmed, the gate will open, stop, close or stop cycle. Button 4 is available to set pedestrian mode. Note: if you cancelled the pedestrian mode, the function of button 4 is same as the other three buttons.
- Warning: Notify the users that the gate is never to be operated unless it is in full view.
- **Adding extra remote control (learning)**: Press the 'LEARN' button on the control board. Then the 'LED2' will flash and turn off. Then press the transmitter button on the remote control which you want to use. The 'LED2' will flash again and turn off. Press the same button again. The 'LED2' will continuously flash about 5 seconds at 1/2Hz frequency. Wait until the 'LED2' stops flashing. This indicates that the learning process is complete.
- If the remote control fails to set, the 'LED2' will turn off after lighting 1 second. You should reset as above steps. Up to 25 remote controls may be used. Additional RF Remote controls can be obtained through your dealer. To find a dealer in, go to www.gatekeeperltd.com/dealers
- **Erase remote controls**: To erase existing remote controls, press and hold the 'learn' button for about 15 seconds until the 'LED2' turns off.
- **Verify open direction**: If the gate does not move in the desired direction, then you will need to reverse the motor operating direction. You can do this by exchanging wires 'D' and 'D', 'OP' and 'CL', then insert the wire connector terminal block.
- **Set auto-close function** (This feature can be selected to make the gate stay open for some seconds before it automatically closes. The auto-close time can be adjusted to between 0 and 44 seconds.): Make the first switch of SW (DIP-switch) *see Control Board Scheme* to ON position (down), press remote control button (button 1, button 2 or button 3) that has been programmed to open the gate (see **Verify open direction** section). Stop the gate at any position by pressing the same button, wait for some seconds as your requirements (1~44 sec.), this period of time is regarded as 'auto-close time'. Close the gate by pressing the same button. Press the button again to stop the gate or the gate will stop at its closed position automatically. After this setup is complete, make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the auto-close function' has been set.
- **Cancel auto-close function**: Make the first switch of SW (DIP-switch) to ON position (down), press remote control button (button 1, button 2 or button 3) that has been programmed to open the gate (see **Verify open direction** section). Stop the gate at any position by pressing the same button, wait until the gate close automatically (45 sec.).

Press the same button again to stop the gate or the gate will stop at its closed position automatically. After this setup is complete, then remember to make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the auto close function' has been cancelled.

- **Set width / auto-close function of pedestrian mode:** Pedestrian mode can be used to open gate about 0.3~1.5 meters for people pass through.

  ? Set width of pedestrian mode: Make the first switch of SW (DIP-switch) to ON position (down), press button 4 to open the gate (see **Verify open direction** section). Wait until the gate travels the distance as your requirements (the distance range is 0.3m~1.5m or wait for 3~10 sec.), it is regarded as 'the width of pedestrian mode'. Then press the same button to stop the gate, wait for some seconds (1~44 sec.). Close the gate by pressing the same button. Press the same button again to stop the gate or the gate will stop at its closed position automatically. Then make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the width of pedestrian mode' has been set.

  If you open the gate with button 4, the gate will stop at the expected position that you have set.

  ? Set auto-close function of pedestrian mode: Make the first switch of SW (DIP-switch) to ON position (down), press button 4 to open the gate (see **Verify open direction** section). Wait until the gate travels the distance as your requirements (about 3~ 10 sec.). Then press the same button to stop the gate, wait for some seconds as your requirements (1~44 sec.), this period of time is regarded as 'auto-close time of pedestrian mode'. Close the gate by pressing the same button. Press the same button again to stop the gate or the gate will stop at its closed position automatically. Then remember to make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the auto-close function of pedestrian mode' has been set. (Note: the new width of pedestrian mode has been re-programmed and replaced the original width that you have set in **Set width of pedestrian mode** section.) If you open the gate with button 4, the gate will stop at the new expected position that you have set. After some seconds as what you have set, the gate will close automatically.

- **Cancel width / auto-close function of pedestrian mode**

  ? Cancel width and auto-close function of pedestrian mode (factory preset): Make the first switch of SW (DIP-switch) to ON position (down), press button 4 to open the gate (see **Verify open direction** section). Wait for more than 15 sec.. Then press the same button to stop the gate, wait until the gate close automatically (45 sec). Stop the gate by pressing the same button or the gate will stop at its closed position. Then make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the width and auto-close function of pedestrian mode' have been cancelled.

  ? Cancel width of pedestrian mode, keep auto-close function of pedestrian mode: Make the first switch of SW (DIP-switch) to ON position (down), press button 4 to open the gate (see **Verify open direction** section). Wait for more than 15 sec.. Then press the same button to stop the gate, wait several seconds as your requirements (1~44 sec.), then close the gate by pressing the same button, press the same button again to stop the gate or the gate will stop at its closed position automatically. Then make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the width of pedestrian mode' has been cancelled. 'The auto-close function of pedestrian mode' has been reserved. (Note: the new auto-close time of pedestrian mode has been re-programmed in the device and replaced the original auto-close time of pedestrian mode which you have set in **Set auto-close function of pedestrian mode** section.)

  ? Keep width of pedestrian mode, cancel auto-close function of pedestrian mode: Make the first switch of SW(DIP-switch) to ON position(down), press button 4 to open the gate(see **Verify open direction** section). Wait until the gate travels the distance as your requirements (the distance range is 0.3m~1.5m or wait for 3~10 sec.). Then press the same button to stop the gate, wait until the gate close automatically (45 sec.). Stop the gate by pressing the same button or the gate will stop at its closed position automatically. Then make the first switch of SW (DIP-switch) to OFF position (up) immediately. Thus 'the width of pedestrian mode' has been reserved, 'the auto-close function of pedestrian mode' has been cancelled. (Note: the new width of pedestrian mode has been re-programmed in the device and replaced the original width.)

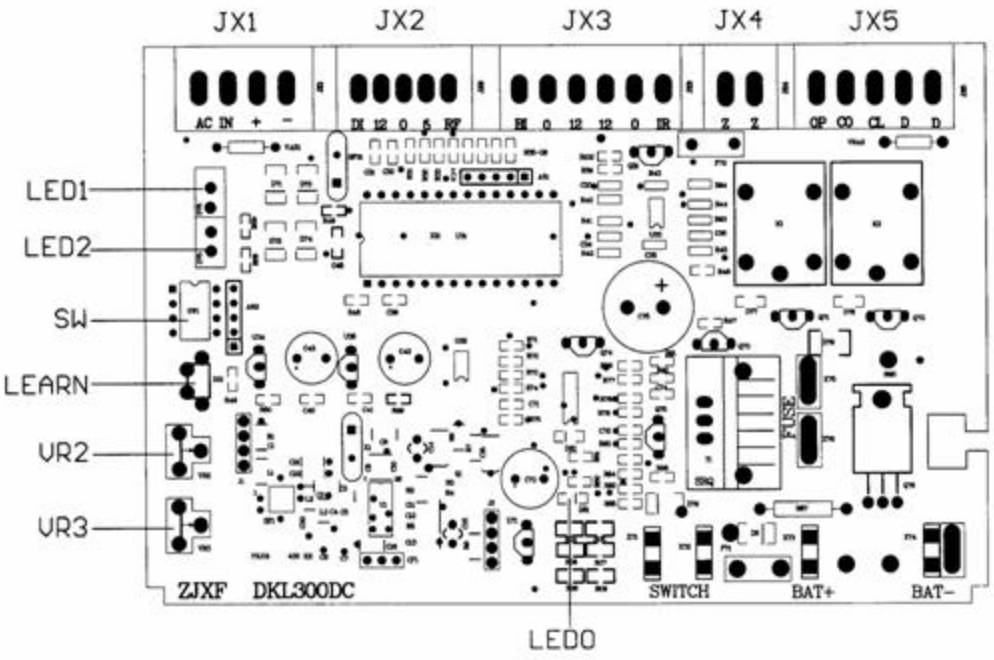
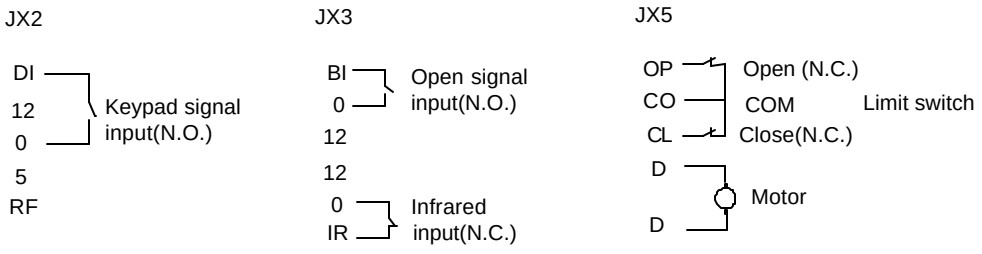


Fig.3 Control Board Scheme

Terminal blocks: Figure 4

Terminal block	Mark	Description
JX1	AC IN	Battery charge power supply input (i.e. transformer output: 16 V AC/30 VA)
	+ –	Solar input
JX2	12, 0, 5	Power supply output (DC12V, GND, DC5V)
	RF	Remote control signal input (only suitable for our remote control)
	DI	Keypad signal input
JX3	12, 0	Power supply output (DC12V, GND)
	IR	Infrared photocell input
	BI	Open signal input
JX4	Z Z	Alarm lamp (DC12V)
JX5	OP, CO, CL	Limit switch (open limit, common, close limit)
	D, D	Motor
SW (DIP-switch)	1	It is used to adjust the auto-close time and pedestrian mode.
	2	No connection
	3	No connection
	4	It is used for open and close limit adjustments.
Others	LED1	Battery charge indicator light
	LED2	Status indicator light
	LEARN	Learn button
	VR2	Set the open force

	VR3	Set the close force



Limit Switch

? Limit switch: The switch is used to accurately stop the gate in the open and closed positions.

If the gate stops at the opened position when the limit switch is reached, the gate will not move if it receives open signals.

If the gate stops at the closed position when the limit switch is reached, the gate will not move if it receives close signals.

Adjust the limit switch (see Fig.8)

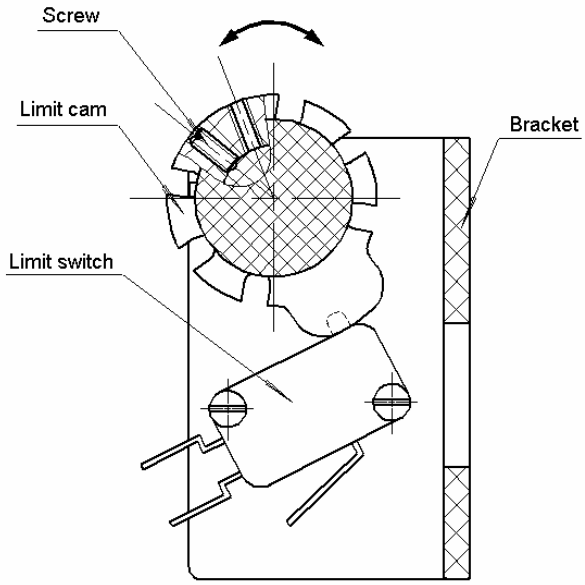
Please adjust the close limit prior to the open limit. The close limit adjustment has three steps which include rough adjusting, fine adjusting and micro adjusting. Once you have set up the close limit you can follow the same three steps for setting of the open limit.

- Rough adjusting: close the gate by using a remote transmitter that has been programmed into the SKC-500DC operator, stop the gate approximately 30-40cm before the gate is fully closed using the pre-programmed transmitter. Making sure the limit cam hasn't activated on the limit switch. Once you have stopped the gate adjust the limit cam until the limit switch is activated. Open the gate so the closed limit switch is de-activated, the motor can be stopped at any time once the closed limit has been cleared. Finally close the gate and ensure that the gate stops at approximately 30-40cm from the gatepost once the limit switch is reached.
- Fine adjusting: adjust the limit cam carefully to make the gate approach the closed position. When the limit cam clicks, the gate can move about 10cm. Repeat this step until the gate is less than 10cm from the closed position. Also the gate can be manually closed once released, which will allow the movement of the gate closer to the fully closed position. Adjust limit cam until limit switch is activated. Open the gate until the closed limit has been cleared and re close the gate to check that the closed position is less than 10cm from the fully closed position.

  Note: If the closed limit adjustment exceeds the gatepost, the gate will auto reverse after hitting the gatepost.
- Micro adjusting: after fine adjustment, measure the distances from the gate to the closed position (for example 6cm), making sure that the limit switch has been activated via the limit cam in the closed position. Then turn on the fourth DIP-switch (the last switch) to the down position. Open the gate using the remote transmitter to allow the closed limit switch to be cleared and stop the gate at any time using the remote transmitter. Close the gate again using remote transmitter, the gate will auto stop when the limit switch is reached. Then with every press of the LEARN button the gate operator will be programmed to move 1cm past the limit cam. (For example, if there is about 6cm for the gate to be fully closed, the LEARN button needs to be pressed 6 times, and the LED2 will flash each time the LEARN button is pressed). After this setup is complete, return DIP-switch 4 to the OFF position (up).
- After adjusting, you can open the gate then close the gate and observe whether the gate has successfully reached the closed position. If the gate does not reach the closed position by more than 1cm the micro adjusting process can be re-programmed to suit the desired distance. (**Useful experience:** using the 6cm example as above, the micro

adjusting can be achieved in two stages. Beginning with a 4cm adjustment. After the 4cm process has been tested if an additional 2cm is required a final micro adjustment can be done. The maximum micro adjustment is 10cm. If you exceed this limit any previous adjustment will be cancelled and micro adjustment will have to be re programmed.

- The open limit adjusting process also has three steps: rough, fine and micro adjusting. The process is the same as the close limit adjusting as above.



Manual operation (see Fig.1)
If the gate has to be operated manually due to a power cut or malfunction of the automated system, use the release key as follow:

- Fit the supplied key in the hole.
- Turn the key counter-clockwise to disengage the clutch.
- Open and close the gate manually.

Safety Auto Reverse

Obstruction Sensor
The Obstruction Sensor continuously monitors the gate movement for any obstructions. If any obstructions are detected when the gate is closing, the gate will stop and reverse back to the open position. If any obstructions are detected when opening, the gate will stop. The factory setting is set at ***MAXIMUM*** sensitivity. You may need to increase or decrease depending on the weight and the condition of your gate.

Adjustment of the Auto-Reverse Function

? Tuning the auto-reverse safety function: To adjust the opening force, rotate the 'Open Force VR2' knob (See control board scheme Figure 3) with a screwdriver. The resistance may be increased or decreased by rotating clockwise or counterclockwise. To adjust the closing force rotate the 'Close Force VR3' knob (See control board scheme Figure 3) with a

screwdriver. The resistance may be increased or decreased by rotating clockwise or counterclockwise. By turning the overload variable resistors, you can adjust how much force it will take to cause the gate to stop and auto reverse when closing or stop if opening.

Note: (1) With each press of the button the gate will open, stop, close or stop. If the direction of the gate movement is wrong, or if the auto reverse direction is wrong, exchange the wires 'D' and 'D', 'OP' and 'CL'. (2) When the gate meets the correct place in both open and closed positions, it will auto-stop and switch off automatically; otherwise, exchange the two wires 'OP' and 'CL'.

WARNING: Do not attempt to tune the gate by placing your hand, arm or other body part in the path of the gate, as serious injury could result. Damage to the gate opener motors may also occur by placing a heavy immovable object in the path during the testing phase. If the setting is still too high, place a light object in the path (e.g., a chair or trash can) which can be pushed out of the way without causing damage to gate motors. Note: This auto reverse function should be regularly inspected and adjusted if necessary. Once the tuning is complete you may replace the cover.

External Interfaces

Keypad/ Button Switch

The SKC-500DC is equipped with an interface for an external switch or keypad. The interface type is a NO (Normally Open) momentary switch to ground. To activate the opener, the keypad or other device must short the 0 and DI terminal momentarily on Box JX2. This type of switch is very common. To install, attach one lead of your keypad to the DI terminal and the other to the 0 terminal. The keypad will function in single channel mode just like the RF remote. If the gate is closed, then activating the keypad will open the gate, if the gate is open, then activating the keypad will close the gate; if the gate is moving, then activating the keypad will stop the gate. If your keypad requires DC power, then you can use the 12 or 5 terminals and the 0 terminal for ground as required by your device. See Figure 4 for a diagram of external interface connections. Consult your manufacturer's documentation for details. The keypad device can be obtained through your dealer. To find a dealer, go to www.gatekeeperltd.com/dealers

Loop detector

A magnetic loop detector detects vehicles that are within proximity to the gate. A magnetic loop detector can be used to open the gate when a car pulls up either from the inside or the outside depending on which side of the gate you install it. A magnetic loop is usually buried under the ground, and the wires run to the gate opener control board. Magnetic loops usually require DC power + and – DC terminals, and provide a normally open momentary switch interface to the control board and its ground or common interface. Wire the magnetic loop's DC + wire to the 12 terminal on block JX3, wire the power common or ground to 0. Wire the magnetic loop's normally open trigger wire to terminal BI and the normally open ground or common to 0 both on block JX3. The terminal BI is a "free open" terminal. This means that it will only open the gate, if the gate is already opening, it will have no effect, if the gate is closing, it will override and open the gate, but triggering the terminal BI will never close the gate. Consult your manufacturer's documentation for details. See Figure 4 for a diagram of external interface connections. The Loop Detector device can be obtained through your dealer. To find a dealer, go to www.gatekeeperltd.com/dealers

Safe guard (Infrared device or Photocell)

It is recommended that the installer purchase and install infrared photocells for additional safety. Photocells work by inhibiting the movement of the gate if the beam is broken. Infrared safety devices may be required by law in some areas. If the infrared beam is broken during closing, the gates will reverse and open immediately. During opening, the beeper will ring. Infrared photocells come in active and passive varieties. Active photocells require power on both sides of the driveway, passive photocells employ a reflector plate so that power is only required on one side of the driveway. Most photocells will provide DC power input wires + and -, and normally closed switch wires. To install the photocell, attach the DC power + wire to terminal 12 on jack JX3, and the common, ground or – DC wire to 0 on jack JX3. Attach the normally closed wire to IR and the common normally closed wire to 0. In most cases these signal wires are not polarized so they can be interchanged without issue. Consult your manufacturer's documentation for details. See Figure 4 for a diagram of external interface connections. The infrared device can be obtained through your dealer. To find a dealer, go to www.gatekeeperltd.com/dealers

Maintenance

Every six months check the following items for proper operation of the unit:

- Check the chain lubricant and add 1# grease regularly.
- Lubricate shafts and sprockets.
- Keep opener clean at all times. Check inside cover for insects.
- Check and tighten anchors bolts.
- The operator can be powered by battery in case of power failure. It still can provide enough power for operating 10 cycles after power disruption. Operating should be less than 20 cycles a day. Please switch off the battery if no power is available for more than 5 days (remove the plastic cover, Turn the switch on top of the operator to the off position). Failure to comply with the above instructions may damage the battery or shorten its life.
- We recommend you put some grease in the keyhole to avoid rusting, also regularly grease the wheels and axles if the gate was jammed or cannot be moved smoothly. Occasionally inspect the chain to ensure that it is well lubricated, and oil the chain as necessary.

Table 3 Troubleshooting

Trouble	Possible cause s	Solutions
Motor only runs in one direction.	The wire connector terminal block becomes loose.	Check wire connector terminal block make sure it is plugged in terminal block 10 (X8).
	The limit switch wire connector terminal block becomes loose.	Check limit switch wire connector terminal block make sure it is plugged in terminal block 9 (X9). Check the limit switch mode.
	The electric component on the control board such as Q2, Q91 or Q92 may be damaged.	Replace the electric component Q2, Q91 or Q92 (BTA16/600) or replace the board.
Gate auto-closes immediately after opening.	The auto-close time is too short.	Reset the auto-close time. See **Set auto-close function** section.
When you use button 4 of remote control to open the gate (pedestrian mode), gate travels too short.	The width of pedestrian mode is too narrow.	Reset the width of pedestrian mode. See **Set width of pedestrian mode** section.
When you use button 4 of remote control to open the gate (pedestrian mode), but the gate will auto-close immediately.	The auto-close time of pedestrian mode is too short.	Reset the auto-close time of pedestrian. See **Set auto-close function of pedestrian mode** section.
The gate will not open or close.	The limit switch wire connector terminal block becomes loose.	Check the limit switch mode (see table 1 Dip-switch).
	Connecting wires or terminal blocks are too loose.	Check the connecting wires and terminal blocks.
	The electric component on the control board such as Q2, Q91 or Q92 may be damaged.	Replace the electric component Q2, Q91 or Q92 (BTA16/600) or replace the board.
	Power switch is OFF	Make sure power switch is ON.
Remote control does not work	The indicator light of remote control does not light.	Check the batteries on your remote control.
	Remote control is not suitable for receiver.	After making sure the codes are correct, erase remote controls and then re-program the codes in the device. See **Adding extra remote controls (learning)** section.
	Broken receive board	Replace receive board.
When you open the gate by using the remote control, gate will stop in mid-travel or reverse before reaching the fully limit position.	The Force Adj. (VR1) is adjusted too small.	Check the Force Adj. (VR1). Adjust VR1 to increase force.
	Gate is obstructed.	Remove the obstruction.
The remote control operating distance is too short.	Signals are shielded by the gate.	Link a new antenna (1~1.2m BVR 0.75mm^2 see parts list) to the old antenna. Then fix the antenna on the wall vertically, make sure the total height from the top of antenna to the ground is approx. 1.5m.

Gatekeeper Ltd. Limited Warranty

Gatekeeper Ltd. Warrants the SKC-500DC Sliding Gate Opener to be free of defects in materials and workmanship for a period of 1 year from the date of purchase subject to certain limitations.

This warranty shall not apply in the following circumstances, misuse, vandalism, accident, neglect, unauthorized repair or modification, acts of God (lightning, flood, insect damage etc.), power surge, corrosive environments, incorrect installation or application, damage to mechanism due to wrong type of gate, incorrect weight, gate not operating freely or not on level ground etc.

The warranty set forth here shall be entirely exclusive and no other warranty, either written or verbal is expressed or implied, Gatekeeper Ltd specifically disclaims any and all implied warranties of merchantability or fitness for a particular purpose. It is the purchaser's sole and exclusive responsibility to determine whether or not the equipment will be suitable for a particular purpose. In no event shall Gatekeeper Ltd be held liable for direct, indirect, incidental, special, or consequential damages or loss of profits whether based on contract, tort, or any other legal theory during the course of the warranty or at any time thereafter. The installer, purchaser and /or end-user do agree to assume all responsibility for all liability in use of this product, releasing Gatekeeper Ltd of all liability.

For service under this warranty, please contact your dealer. All parts, accessories, service and support for Gatekeeper products is supplied through our network of dealers. Dealer information can be obtained at www.gatekeeperltd.com/dealers

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