



Skyline Gate Automation

Smart and Secure Access

User Manual 24V DC Boom Gate System (SGA-BG-DC)



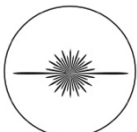
**Keypad
Input**



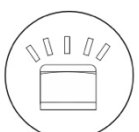
**Push Button
Input**



**Exit Wand
+ Loop Input**



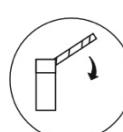
Safety Beam



**Courtesy Light
Output**



**Smart
Sensitivity**



Auto Close

Specifications and Features:

Model:(DC) Motor

Power supply: 220VAC 50HZ / 110VAC 60HZ

Motor's power: 80W 24VDC

Max length of boom: 6m

Time for up/down: 3S(for 1~3m),6S(for 4~6m)

Environment temperature: -20⁰C-50⁰C

Protection class: IP55



Control Board for DC Motor

Input terminals:

Photocell, Air wave switch, Loop detector, Back-up battery, Toll gate system.

Output terminals:

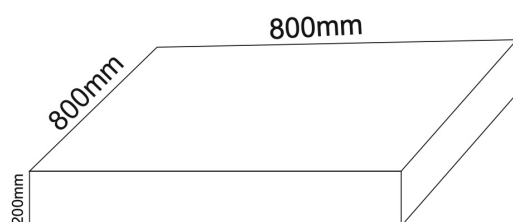
Motor, Lamp

Functions:

Reverse when meet obstacle.

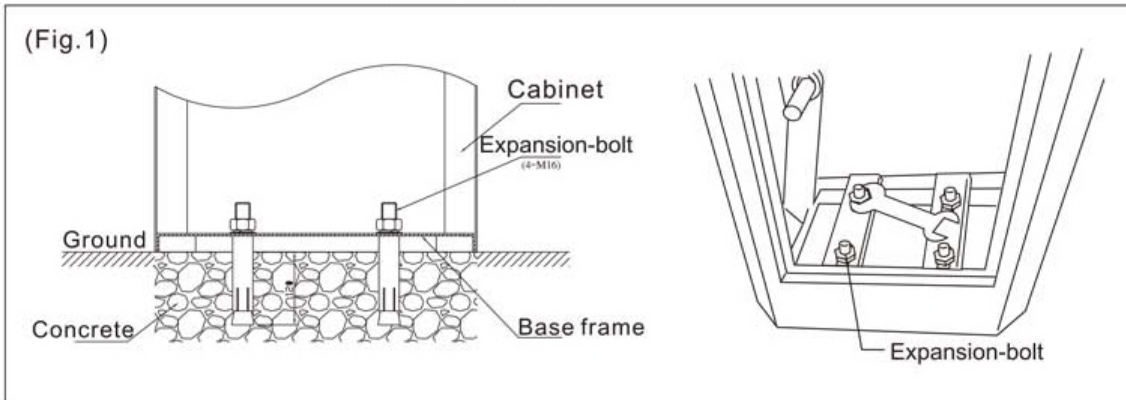
Force of opening and Closing in adjustable.

Concrete Footing Size:



Installation:

1. Install the machine on the ground (Fig.1)



2. Install boom(Fig.2)

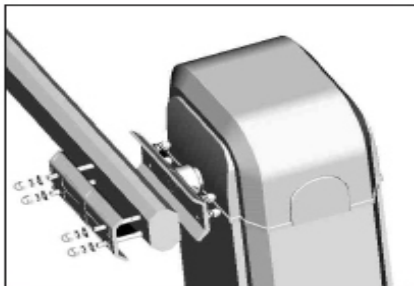
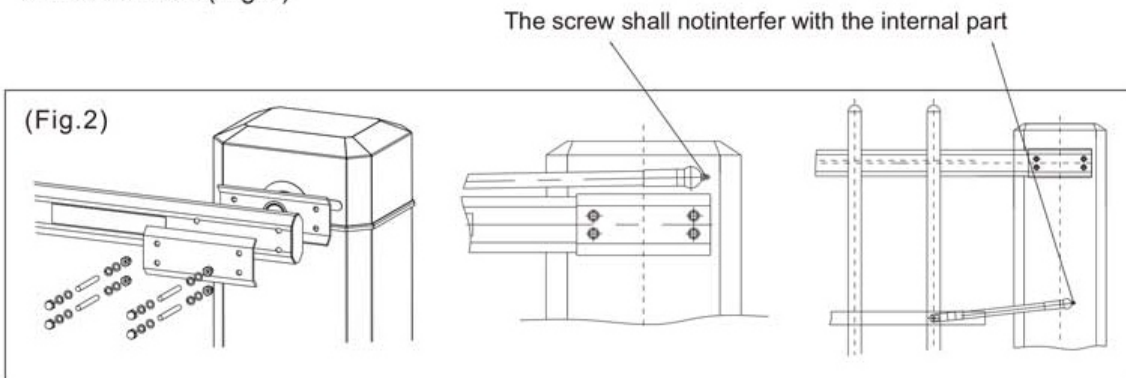
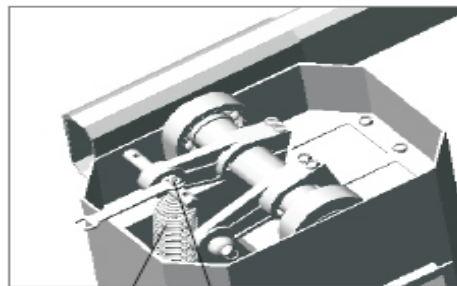


Fig.2

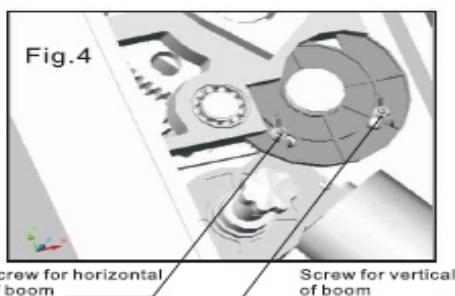


Spring Adjust nut Fig.3

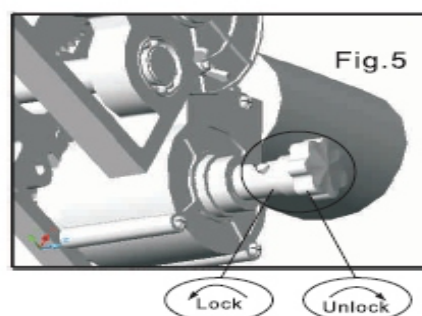
3.Adjust the limit position

BARRIER is supplied to you with the magnet limit switch and the mechanical limit switch that are already set to allow optimum boom movement.

Do not change the limit position.



Screw for horizontal of boom Screw for vertical of boom

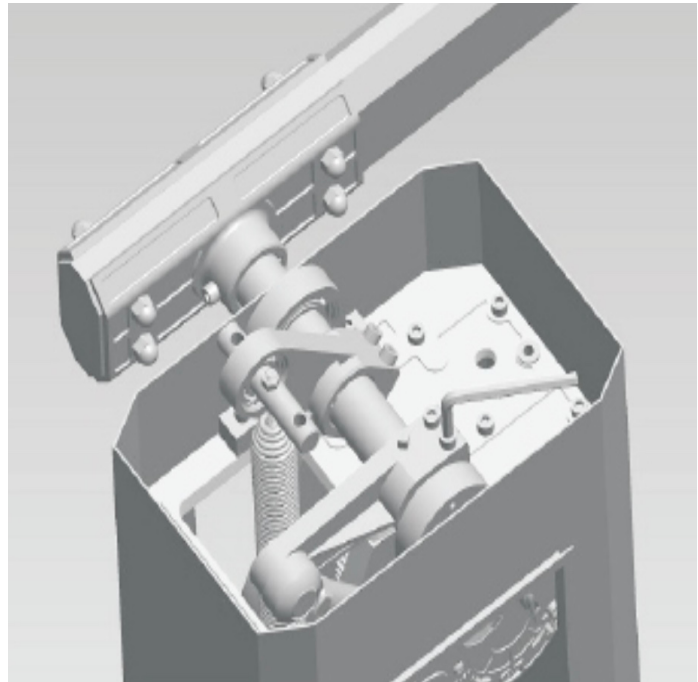


Lock Unlock

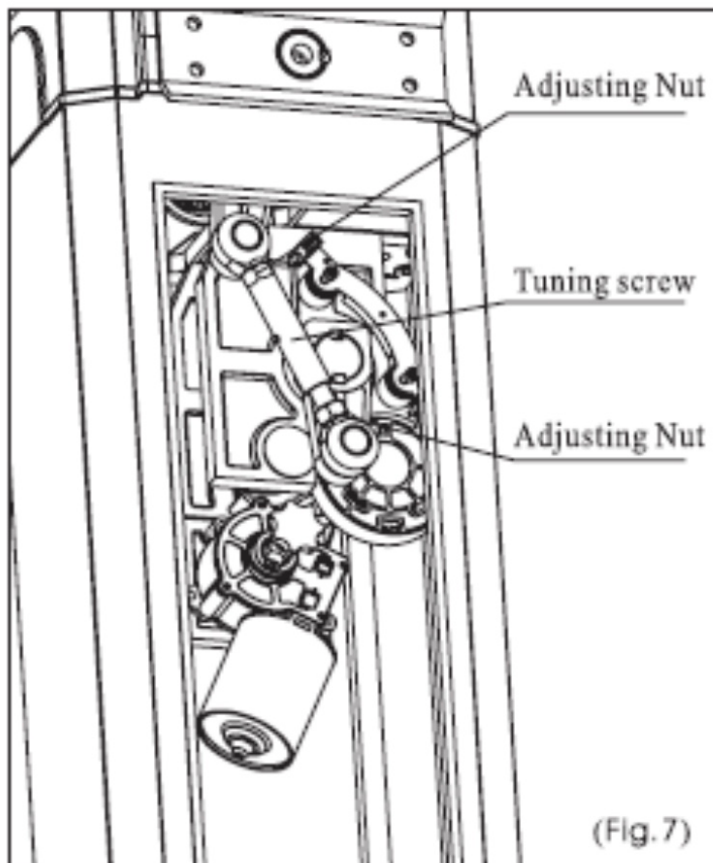
Mechanism:



2 series mechanism



Horizontal and Vertical Position Adjustment of Boom Arm (If required):

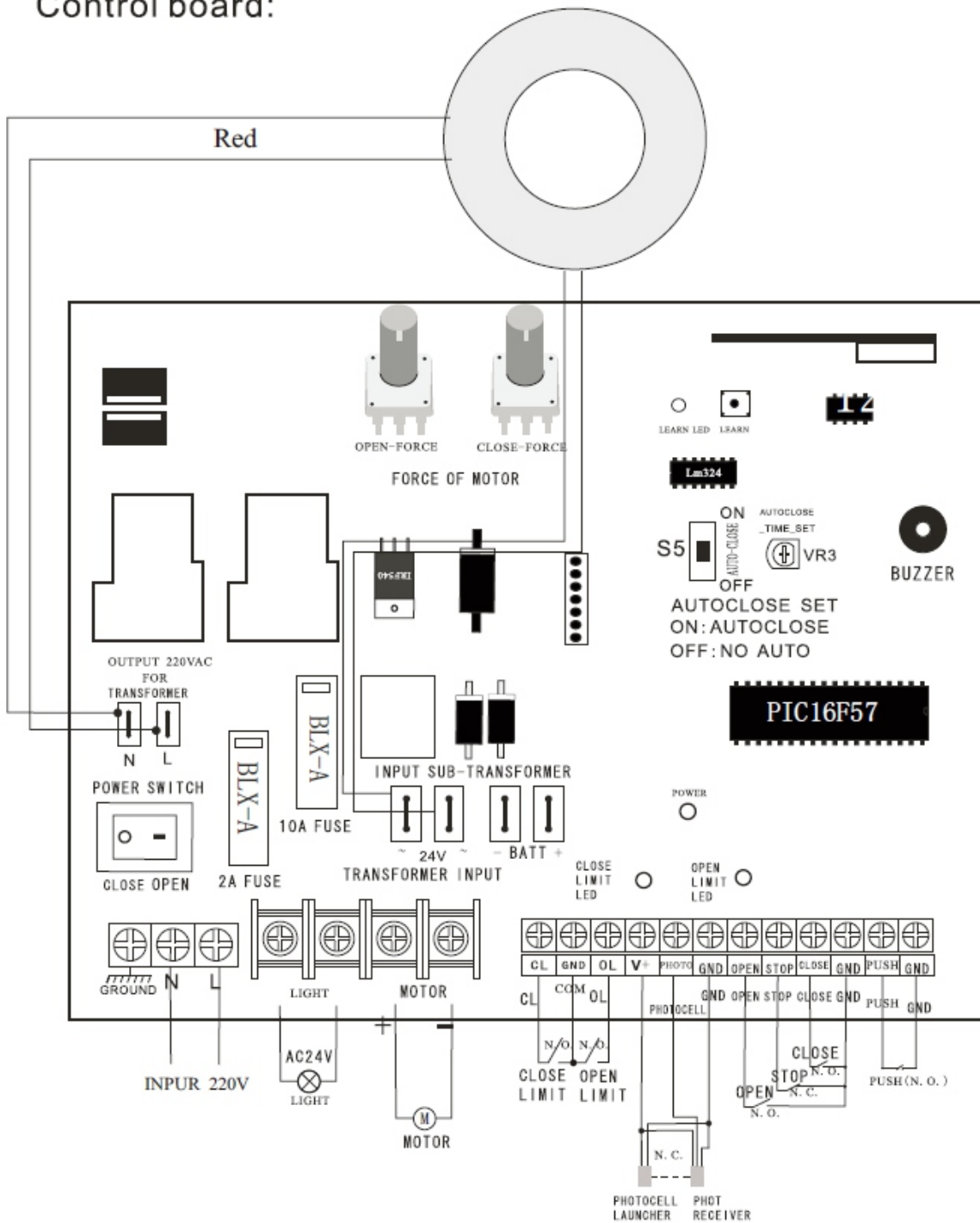


1. Loosen the adjusting nuts.
2. Adjust the turning screw to make the boom arm perpendicular to the ground in open position and parallel to the ground in closing position.
3. Tighten the adjusting nuts once boom arm position is set as required.

(Fig. 7)

Electrical Connection:

Control board:



Remotes Learning/ Pairing:

a) Learning Remote Code

Press “LEARN” button on the main board for one second, the LED will illuminate, then press the button you desire on the remote for one second. the LED will flash. Repeat these steps for more remotes.

Note: 1. The original remotes are already programmed to the control board.

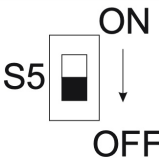
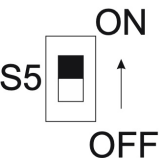

2. New remotes need to be programmed as above.

b) Erasing Remote Code

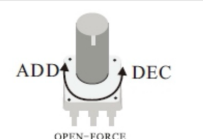
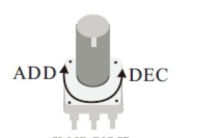
Press and hold the “LEARN” button for 8-10 seconds and it will delete all the stored remotes codes.

Auto-close Function:

The Boom will automatically close after a set time.

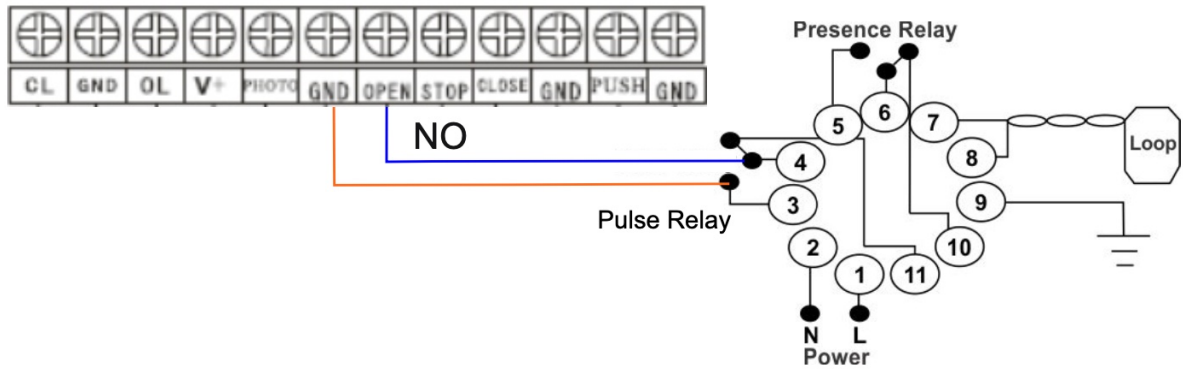
	<p>Disables the Auto-closing function</p>
	<p>Enables the Auto-closing function</p>
	<p>If the auto-closing function is enabled, then the delay time of auto-closing can be adjusted by this regulation-resistance.</p> <p>Clockwise- More Delay Time Anticlockwise- Less Delay Time</p>

Boom Force Adjustment (If required):

	<p>Adjust the force of opening boom Clockwise is more, counter clockwise is less.</p>
	<p>Adjust the regulation resistance. Clockwise is more, counter clockwise is less.</p>

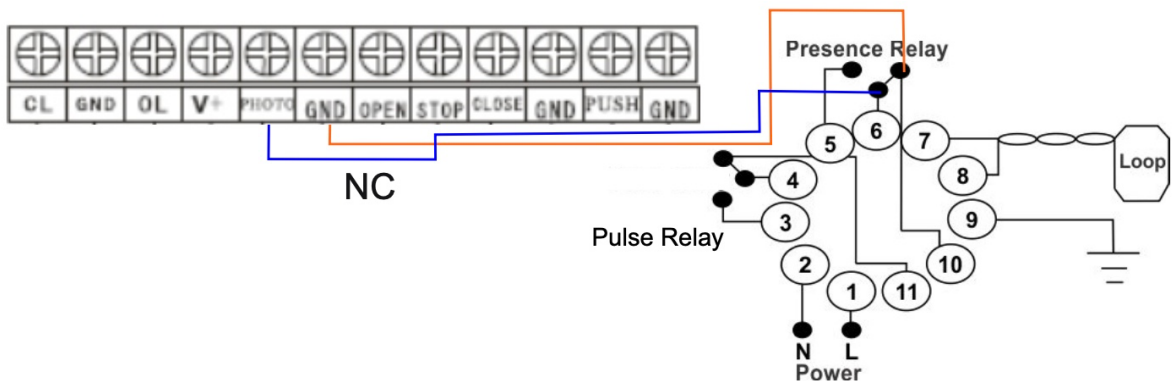
Loop Detector Connections for Auto Opening:

SGA Loop Detectors can be used for automatic opening of boom gate when it senses a vehicle. It must be used in conjunction with the specific loop detector cable.



Loop Detector Connections as a Safety Device:

SGA Loop Detectors can also be used to prevent the closing of boom gate until the vehicle is over the induction ground loop. It must be used in conjunction with the specific loop detector cable.



Connecting PE Sensor Receiver/ Retro Reflective Sensor (SGA-RR11):

