eSSL-HG-1200 Sliding Gate User Manual

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Sliding Gate eSSL-HG-1200
www.esslsecurity.com

WARNING TO THE INSTALLER AND USER

1. **CAUTION!** For personal safety, it is important to follow all the instructions carefully. Incorrect installation or misuse of the product may cause serious harm
   to people.
2. Keep the instructions in a safe place for future reference.
3. This product was designed and manufactured strictly for the use indicated in this document. Any other usage not expressly indicated in this Document, may damage the product and/or be a source of danger.
4. BS accepts no responsibility due to improper use of the automatic machine (opener) or uses other than that intended.
5. Do not install the machine in an area subject to explosion hazards.Inflam able gasses or fumes are a serious safety hazard.
6. BS will not accept responsibility if the rules of good workmanship are disregarded in installing the closing elements to be motorized if any deformation occurs during the use of the said elements.
7. Before carrying out any work on the system, turn off the electricity supply.
8. The safety devices(e.g.photocells, sensitive edges, etc…) may be used to prevent any potential risk in dangerous areas where the moving mechanism is located, such as crushing, dragging, or shearing.
9. BS accepts no responsibility regarding the safety and correct operation of the machine, should components made by manufacturers other than we are used in the system.
10. Do not make any alterations to the components of the automatic mach line (opener and accessory).
11. The installer must supply full information regarding the operation manual of the system in the event of any emergency and provide the system user with the “INSTRUCTION” included with the product.
12. Do not allow children or other people to stand near any moving part of the opener or door construction while in operation.
13. Keep transmitters away from children to prevent the machine from being activated accidentally.
14. The user must refrain from attempting to repair or adjust the system personally and should only contact professional personnel.
15. Frequently examine the installation, in particular check cables, springs, and mountings for signs of wear, damage, or imbalance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury.
16. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
17. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
18. Disconnect the supply when cleaning or other maintenance is being carried out if the appliance is automatically controlled.
19. The temperature range marked on the drive should be suitable for the location.
20. The electrical cord plug must plug in the indoor outlet or waterproof cover outlet.

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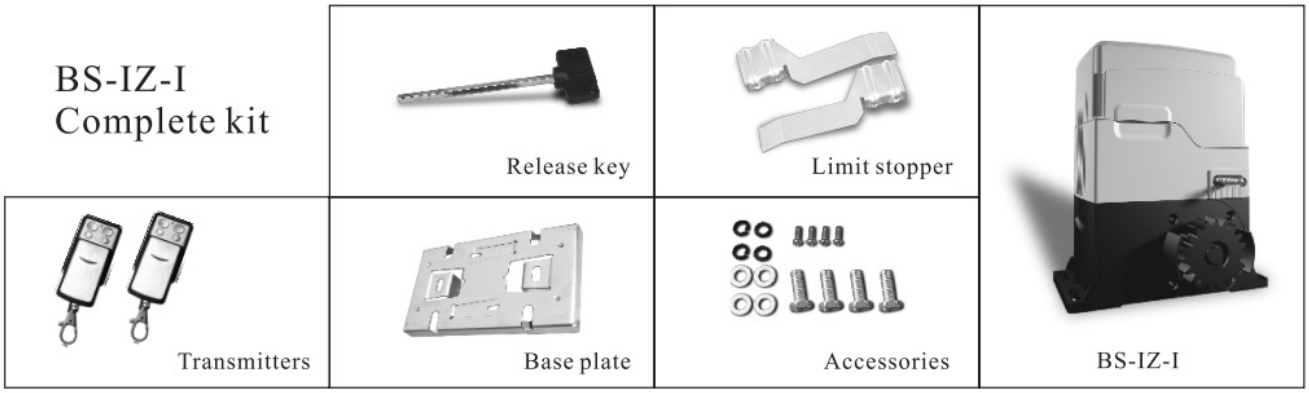
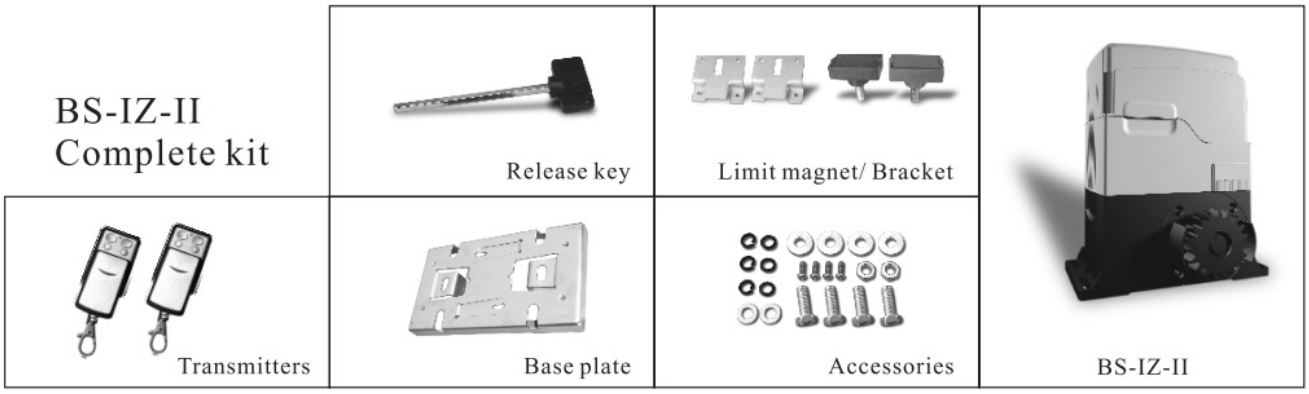
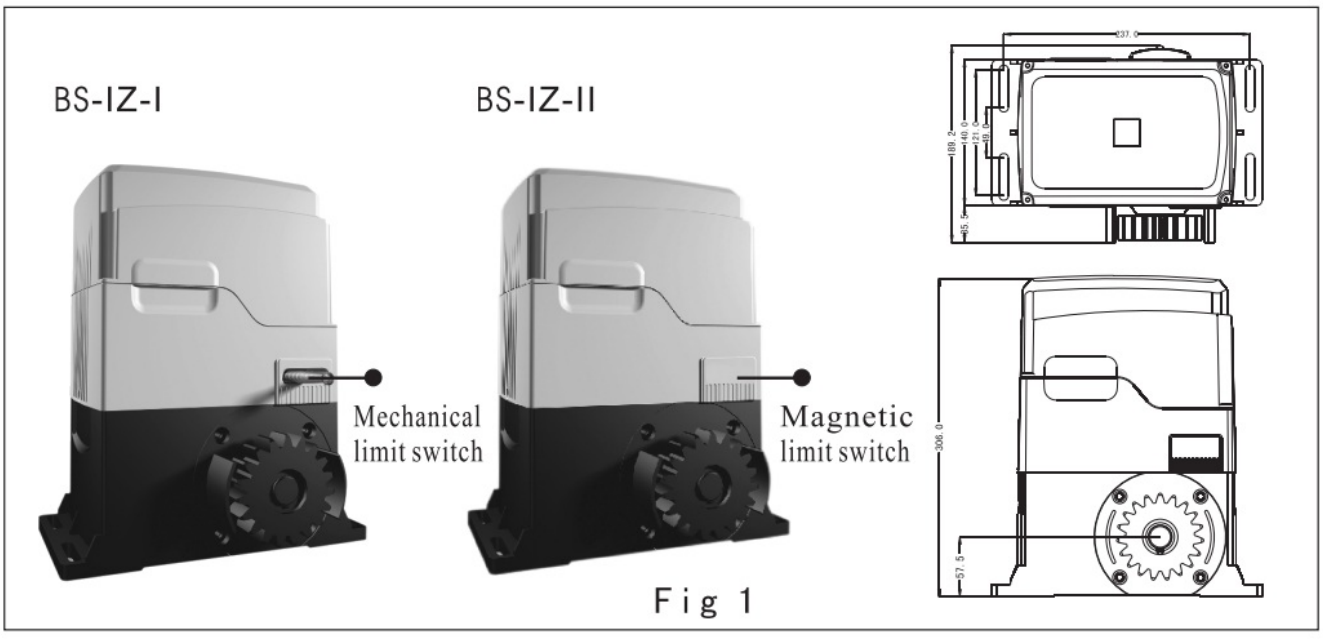
Introduction







Built-in control board.

- Terminals for Push button, Photocell, Alarm lamp.
- Auto-closing is available, time delay is adjustable.

Technical Specifications

Model	BS- IZ1000	I BS-I 2 1500
Power supply	220V/50Hz or 110V/60Hz	
Motor power	370W	I 450W
Absorbed current	3A	
Motor rotational speed	1400r/min	
Thermal protection on the motor winding	120t	
Ambient temperature	-20r –55r	
Max weight of the gate	< 1000kg ……<1500kg	

Installation

- Before using the machine, check the power supply, grounding, voltage, etc.
- Check whether it is connected according to the demand of the wiring diagram.
- The gate should be pulled easily and smoothly manually when the worm gears are released.
- The worm gears will be coupled before power on.
- The product must be installed by a professional person.

2.1 Example of a sliding gate operator installed

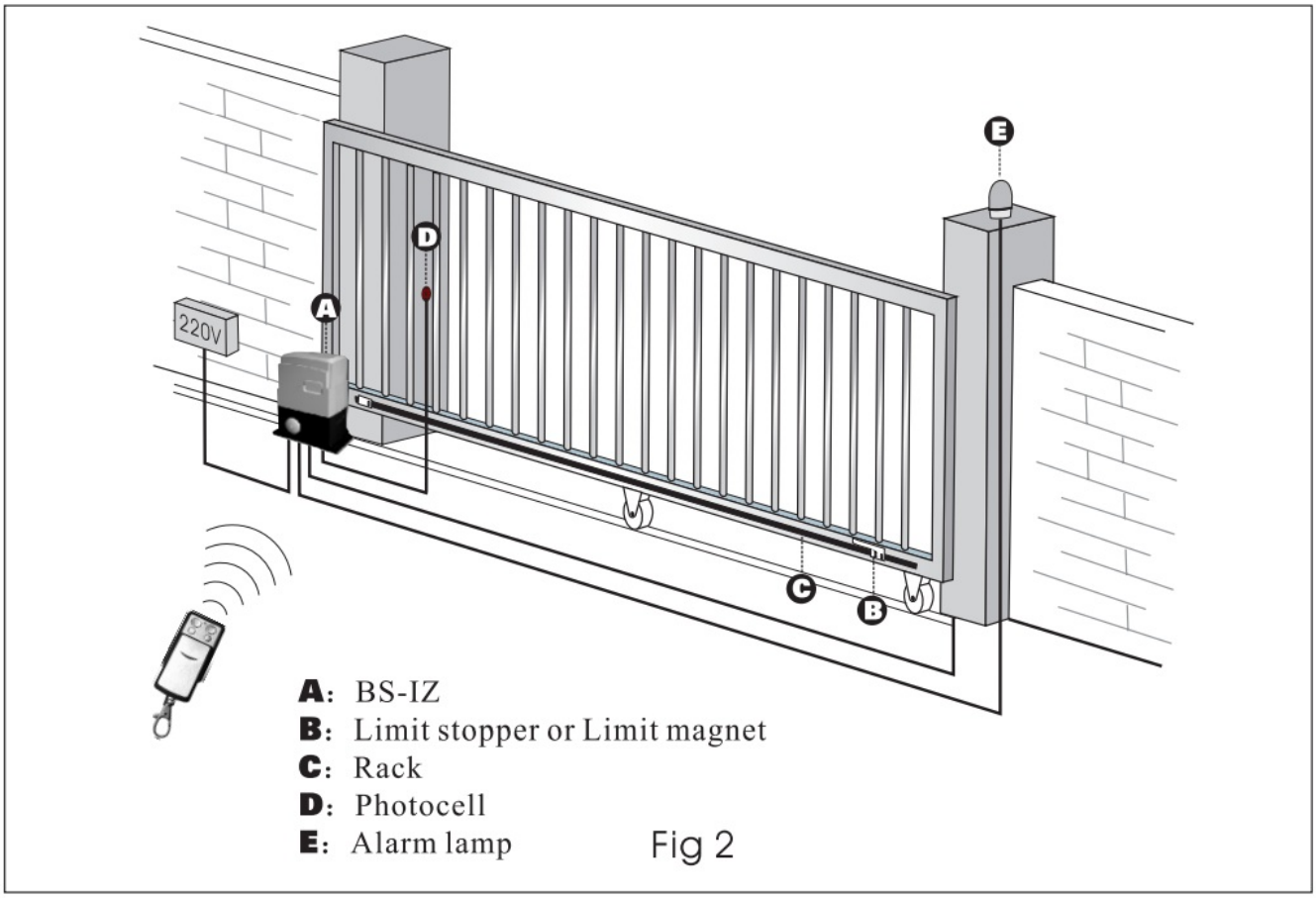


Fig 2

2.2 Installation and adjustment

2.2.1 Install the baseplate on the ground, then, fasten the sliding motor on the base plate.

Key: Ensure baseplate on level position.

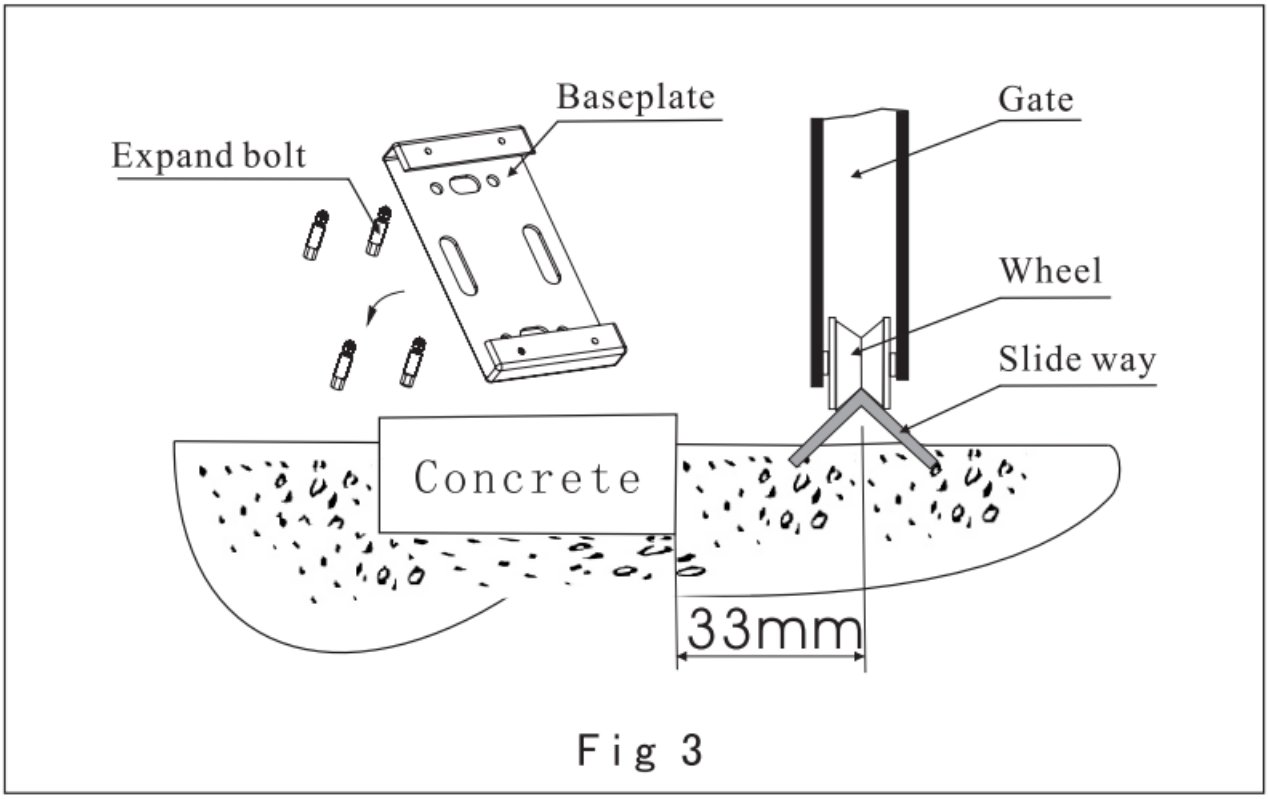


Fig 3

2.2.2 Install the limit stopper or limit magnet at the proper position on the steel rack.

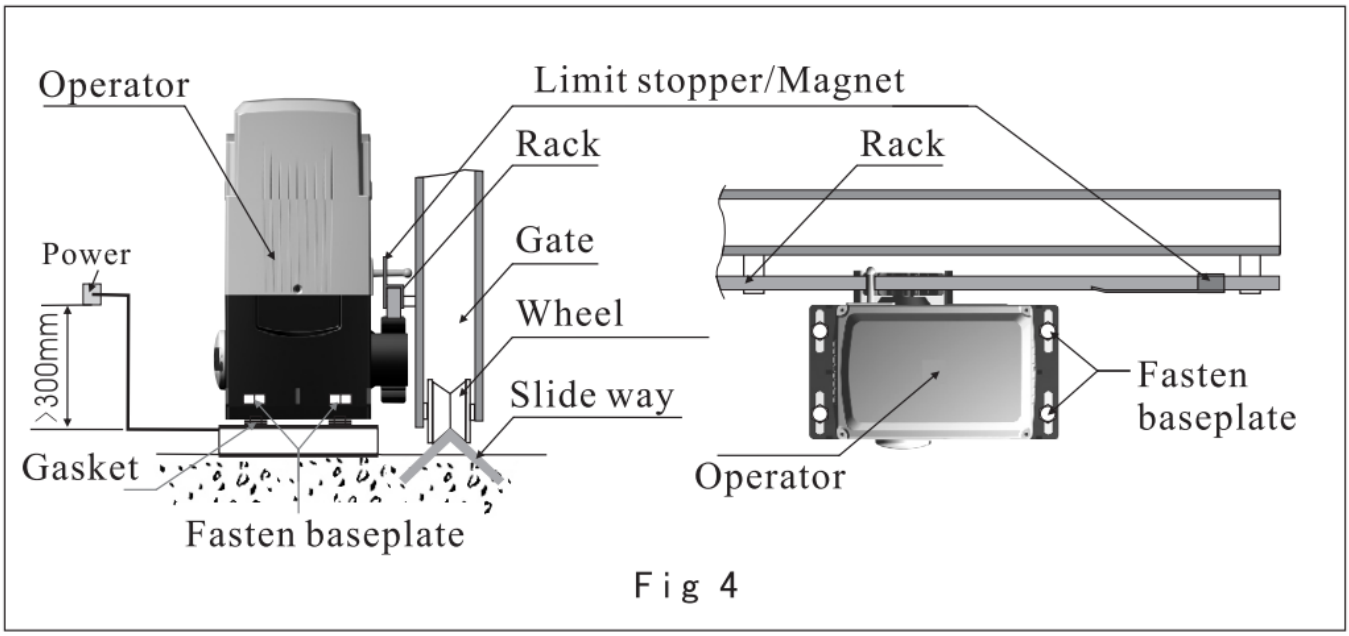


Fig 4

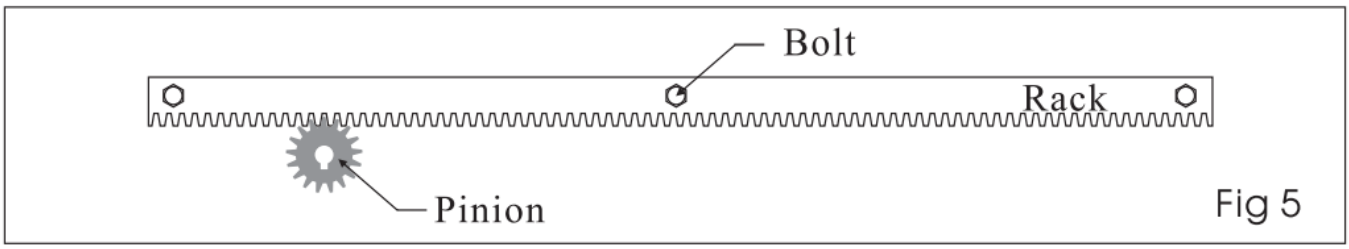


Fig 5

Before place, the limit sloper or magnet on the rack, the gearbox of the operator must be released. As per Fig 6A or fig 6B, Use the key to turn clockwise to release the gear.

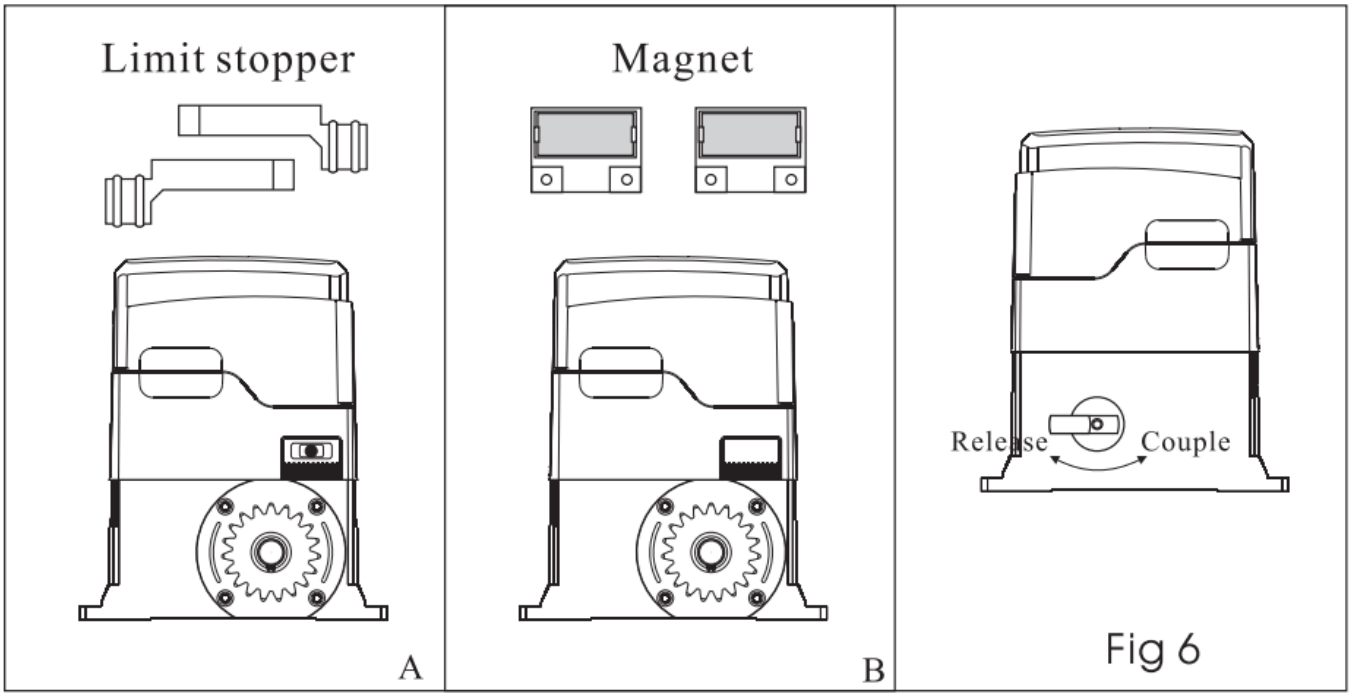
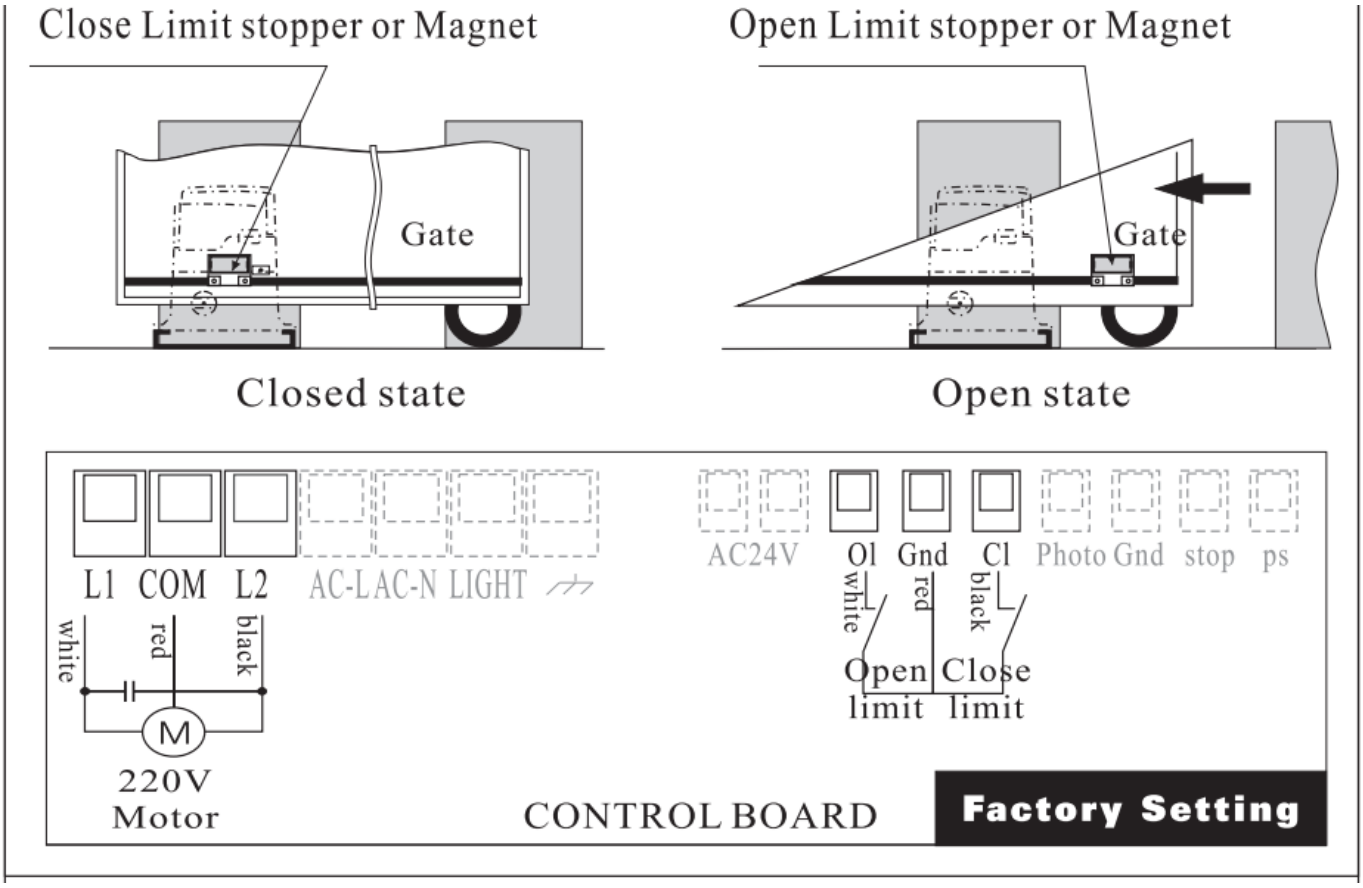


Fig 6

Move the gate manually to the open limit and close limit, and mark the points on the Rack, then, fix the limit Stoppers or Magnets at the limit points on the Rack.

When the Operator is installed on Left Side.



When the Operator is installed on the Right Side.

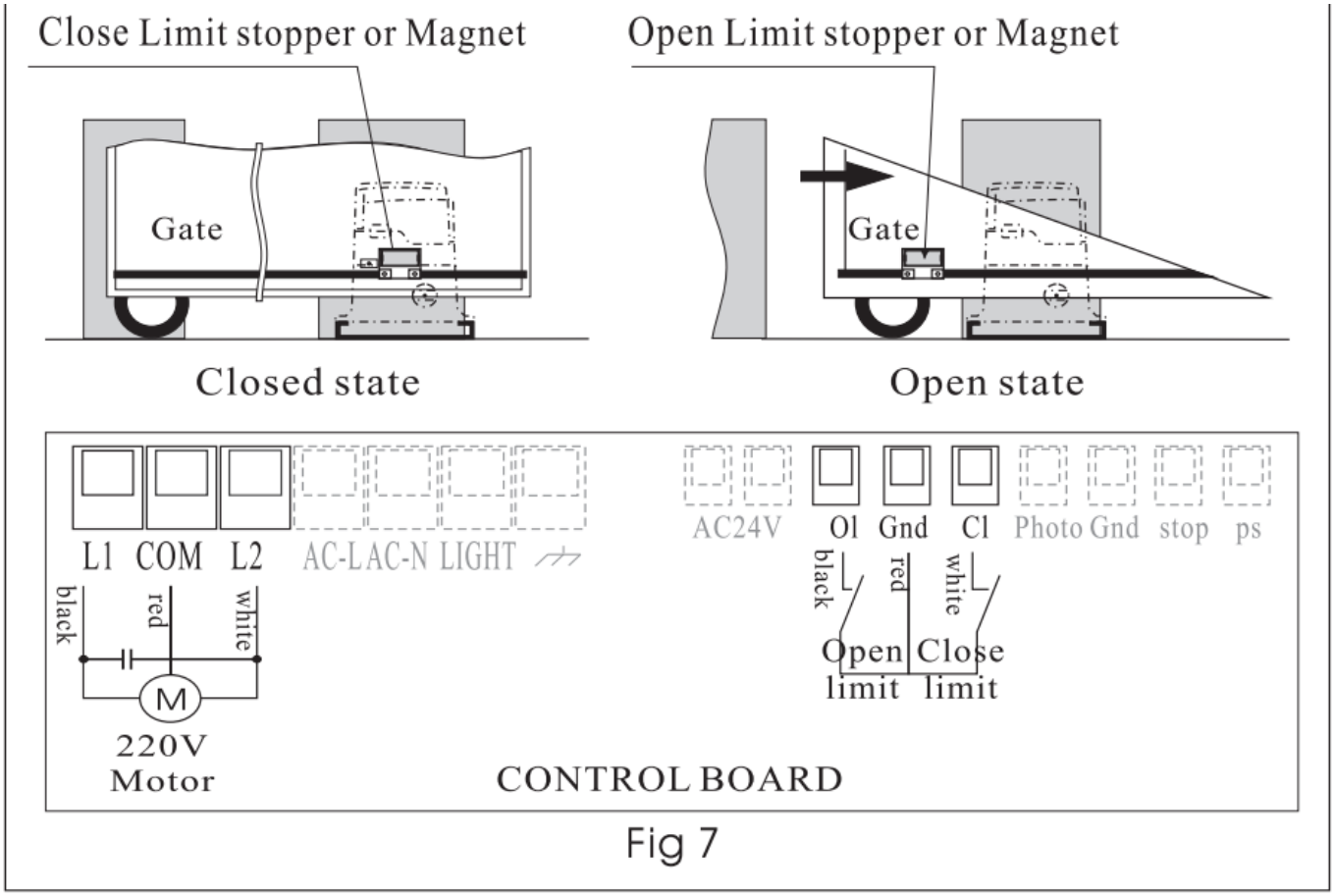
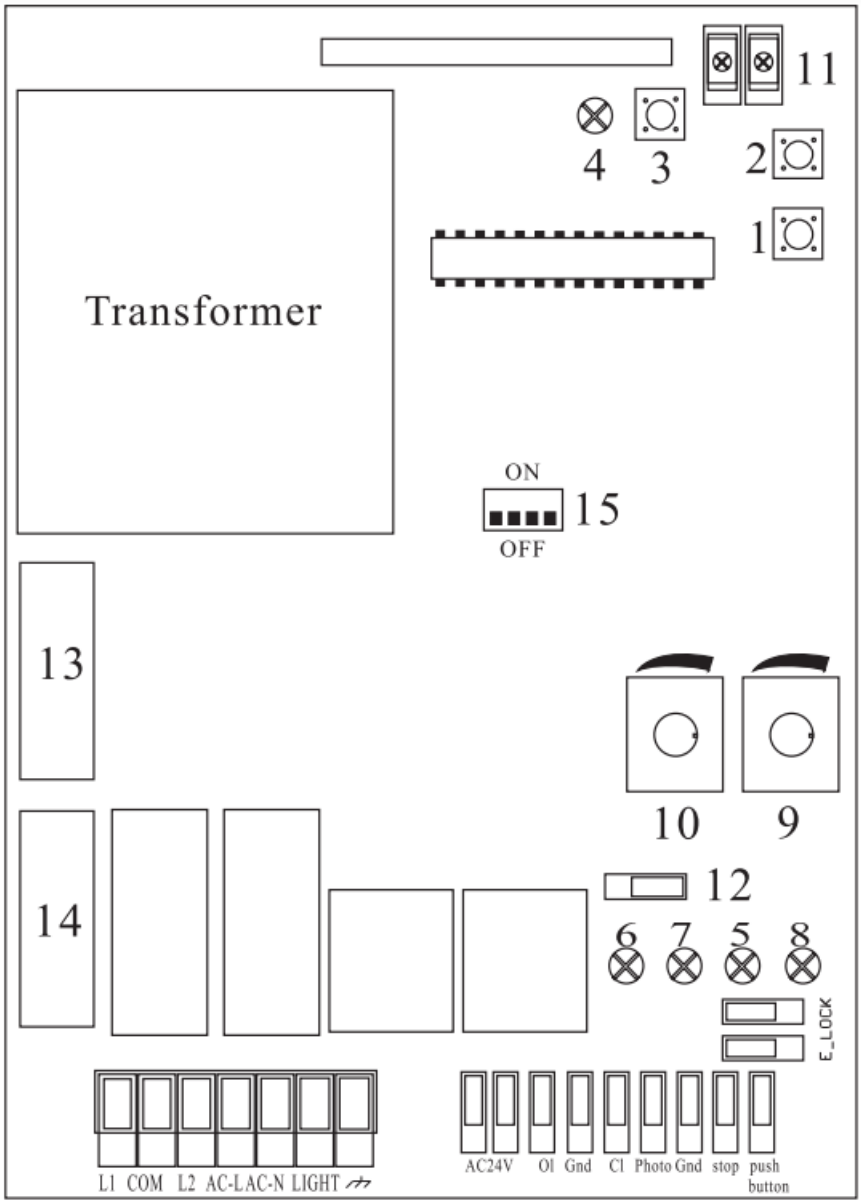


Fig 7

NOTE: The magnet must be 10mm~20mm space from the operator, and must be the same height with the Magnetic switch inside of the Operator.

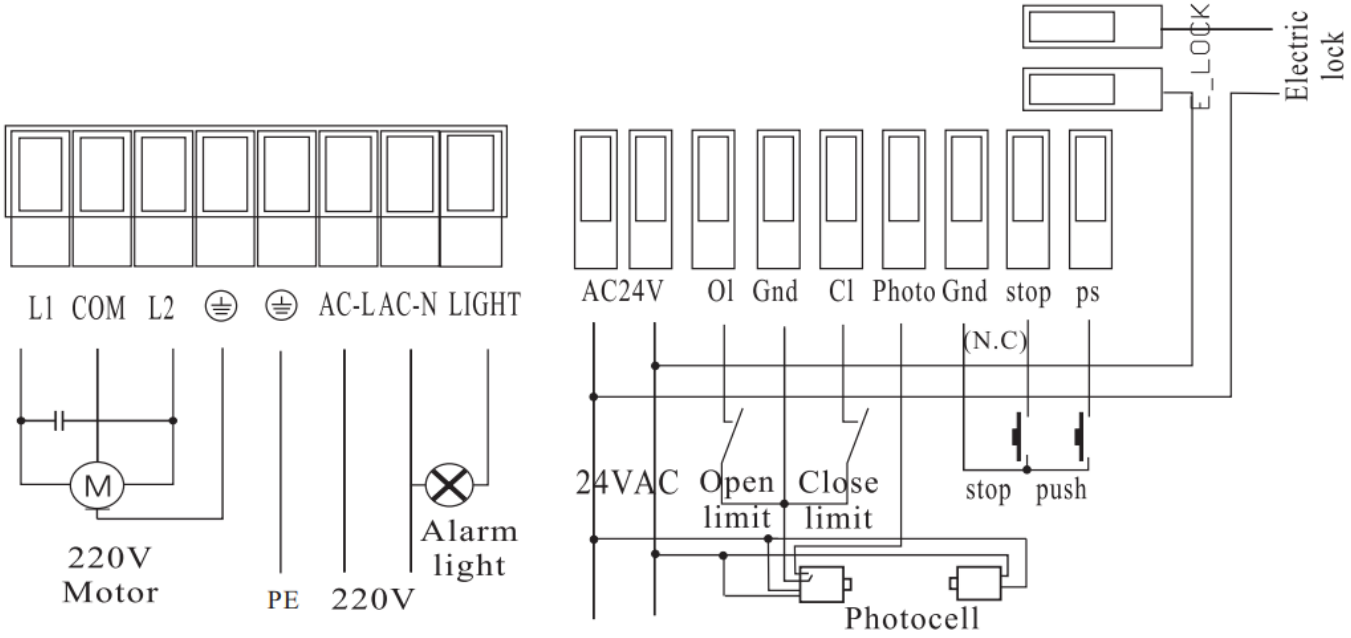
Control Board

3.1 Layout of PCB and Definition



1. PI1. Set running time
2. P2. Set auto-Closing delay time
3. SI: Set transmitter
4. LEDs: Set transmitter LED
5. LED2: Running state LED
6. LED3: Open limit LED
7. LED4: Close limit LED
8. LED5: Power LED
9. VR: Adjustpowerofmotor
10. VR2: Adjust resistance obstacle
11. J3: Terminal for Antenna
12. J4: Jump er for reverse function (ON: valid)
13. F 1: Fuse for transformer (0 .2A)
14. F2: Fuse for motor (JOA)
15. S4: DIP switch for function choice

3.2 Diagram



3.3 Set running time:

After finishing the installation and connecting, Power on, and Press “P1 “for 3 seconds, the gate will open and close at the limit point one cycle, and the running time is remembered by the control system. If no limit stopper or limit magnet on the rack, you also can press “P1” when the gate opens and close to the right limit points.

DIP3: ON, Soft stop

DIP4: ON, Soft start

3.4 Set Auto-closing delay time:

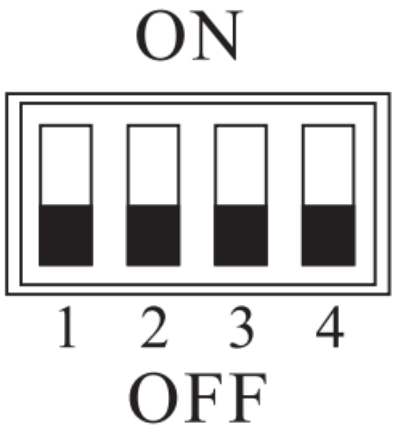
When the motor is stand-by, Press “P2” for 3 seconds, LED2 lightens, the time-counter starts, then Press “P2” again after the needed delay time. LED2 is out, the delay time is set.

DIP 1: ON, Auto-closing

3.5 Set Reverse function:

Try to adjust VR2 again and again till the sensitivity is exact to reverse when the running gate meets an obstacle.

3.6 DIP switch programming



DIPl: ON: Auto-closing is valid OFF: Auto-closing is invalid DIP2: ON: When the gate is running to close, press the button on tran smitter, the gate opens immediately OFF: Single button control and “Step-by-Step” mode carry out “ Open-Stop-Close-Stop-Open”	DIP3: ON: soft stop OFF: No Soft stop DIP4: ON: soft start OFF: No Soft start

3.7 Transmitter's code setting

Press "LEARN BUTTON", the "LEARN LED" light, then, press the button which you choose on the transmitter till the "LEARN LED" flashes and goes out, Now, the transmitter is coded. Other transmitters can be coded in this way Specification may be changed without prior notification.

3.8 Erasing the transmitter's code

Erasing transmitter codes: Press" LEARN BUTTON" and hold on to make the "LEARN LED"light till going out. Now, all codes of transmitters that had been learned are cleared.

Trouble Shooting

Member	Trouble	Cause	Shooting
1	the motor can not work	•No power supply *Break fine . capacitor decay •Sums load *Effected by thermal Nowlin	'Oak power supply 'Cliagefuse 'Cluigccapacitec 'fled if say Wrier ea track 'Restart after 20 minutes
2	Can open (close) but can not close (open)	*Position of the limit switch is set correct •Limiuwitch is damaged •utether1l'COML2wiressrecomandillmt •Magnmic-steeldroppedand position isn't right	•Adjest position 'Chine limn switch *Connect directly mord* to wiring diagram tge adiutmitatric. getipoiltieu
3	can not locate accurately	•Distance of limit switch is too large •limit switch is *whether COM, CLOSE. OPEN was connected •magnetic-steel' %position is wrong	•Adjust the position of a limit switch *Change the limit switch *Connect correctly according to the wiring diagram •Re-adjust the position
4	Release device	*Operating handle is broken •Worm gears are jammed	•Change the handle •Rotate the pinion
5	Push the"open" button but the gate close	. whether!. L1/L,2wires are connected wrong	•Connect comedy according to the wiring diagram
6	The motor can turn but can not work	•Compression spring of clutch is dead 'Gearbox is released	•Change the spring •Couple the worm gear

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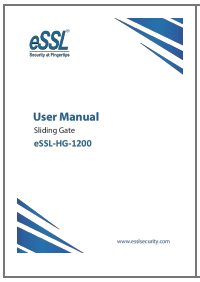
Documents / Resources

	eSSL eSSL-HG-1200 Sliding Gate [pdf] User Manual eSSL-HG-1200 Sliding Gate, eSSL-HG-1200, Sliding Gate

References

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