SLIDING GATE OPERATOR

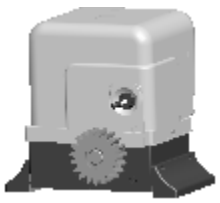
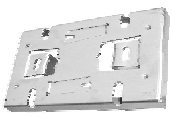
INSTRUCTION

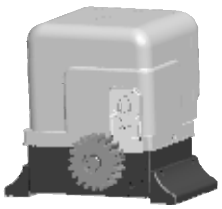
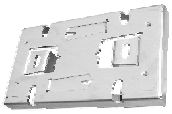
PLEASE READ THE MANUAL CAREFULLY
BEFORE INSTALL AND USE

WARING TO THE INSTALLER GENERAL SAFETY OBLIGATIONS

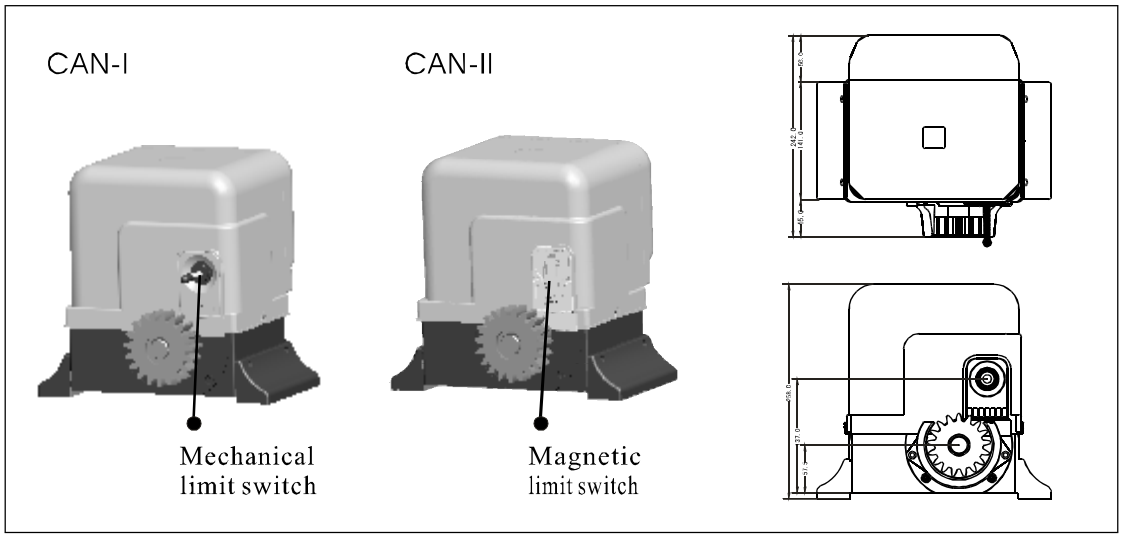
1) CAUTION! It is important for personal safety to follow all the instructions carefully. Incorrect installation or misuse of the product may cause people serious harm.
2) Keep the instructions in a safe place for future reference.
3) This product was designed and manufactured strictly for the use indicated in this documentation. Any other usage not expressly indicated in this documentation, may damage the product and/or be a source of danger.
4) We accepts no responsibility due to improper use of the automatic machine (opener) or use other than that intended.
5) Do not install the appliance in an area subject to explosion hazard: inflammable gasses or fumes are a serious safety hazard.
6) We will not accept responsibility if the principles of good workmanship are disregarded in constructing the closing elements to be motorised, any if and deformation occurs during use of the said elements.
7) Before carrying out any work on the system, switch 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 located , such as crushing, dragging, or shearing.
9) We accepts no responsibility regarding safety and correct operation of the automation, should components made by manufacturers other than be used in the system.
10) Do not make any alterations to the components of the automatic machine (opener and accessory).
11) The installer must supply full information regarding manual operation of the system in the event of an emergency and provide the user of the system with the "INSTRUCTION" included with the product.
12) Do not allow children or other persons to stand near any moving part of the opener or door construction while in operation.
13) Keep transmitters away from children, to prevent the automation from being activated accidentally.
14)The user must refrain from attempting to repair or adjust the system personally and should contact qualified personnel only.
15) Anything other than expressly provided for in these instructions is not permitted.
16）Connect the product to a properly earthed general purpose 230Vmains power outlet installed by a qualified electrician.
17）The safety beam sensors must be installed when the auto close feature is enabled.

1. Introduction

CAN-I Complete kit	 Release key	 Limit stopper	
 Transmitters	 Base plate	 Accessories	CAN-I

CAN-II Complete kit	 Release key	 Limit magnet/ Bracket	
 Transmitters	 Base plate	 Accessories	CAN-II

1.1 Dimension



* Built-in control board.
* Terminals for Push button, Photocell, Alarm lamp.
* Auto-closing is available, time delay is adjustable.

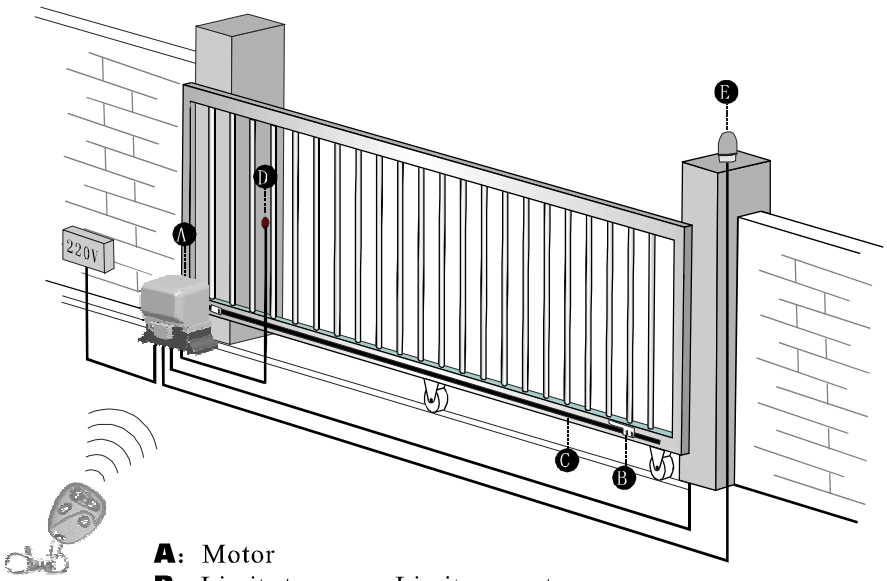
1.2 Technical Specifications

Model	CAN-AC	CAN-DC
Description	AC MOTOR	DC MOTOR
Power supply	220V+10% 50HZ	220V+10% 50HZ
Power of Motor	220VAC 250W	24VDC 80W
Current	3A	3A~4A
Motor rotational speed	1400r/min	1200r/min
Max weight of gate	800kg	300kg
Thermal protection on motor winding	120℃	/
Working environment	-20℃~55℃	-35℃~55℃

2. Installation,

* Before using the machine, check power supply, grounding, voltage, etc.
* Check whether it is connected according to the demand of 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 professional person.

2.1 Example of an installed automatic sliding gate



A: Motor
B: Limit stopper or Limit magnet
C: Rack
D: Photocell
E: Alarm lamp

Fig 2

2.2 Installation and adjustment

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

Key: Ensure baseplate on level position.

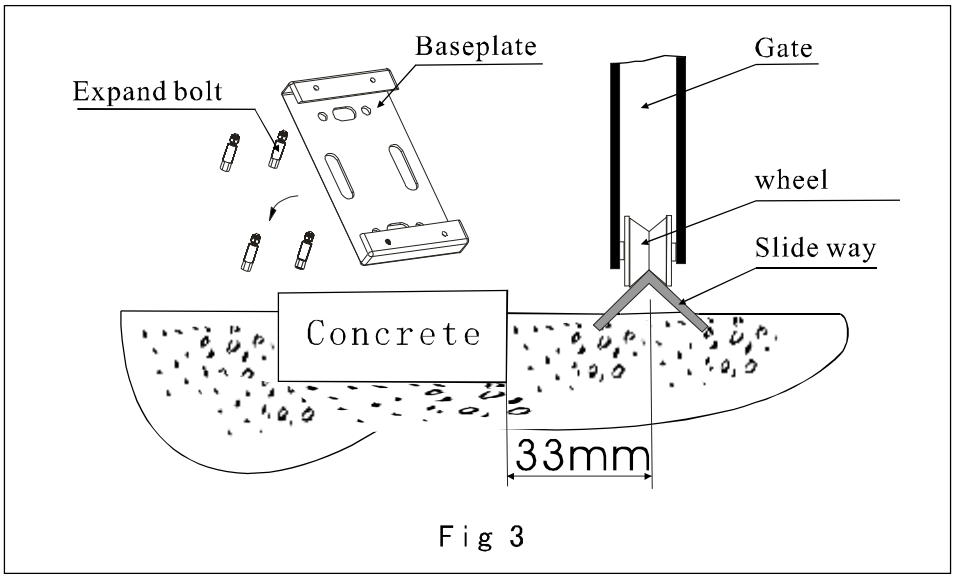


Fig 3

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

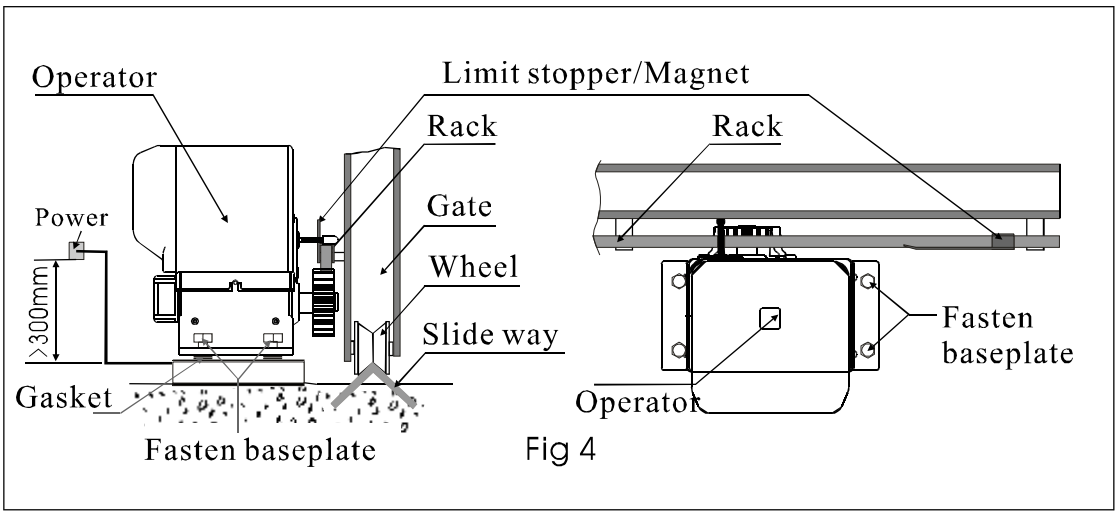


Fig 4

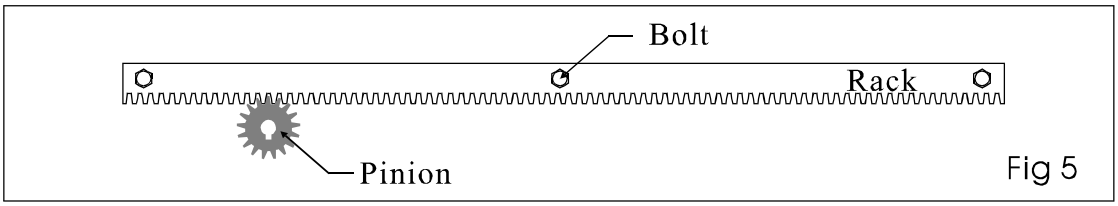


Fig 5

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

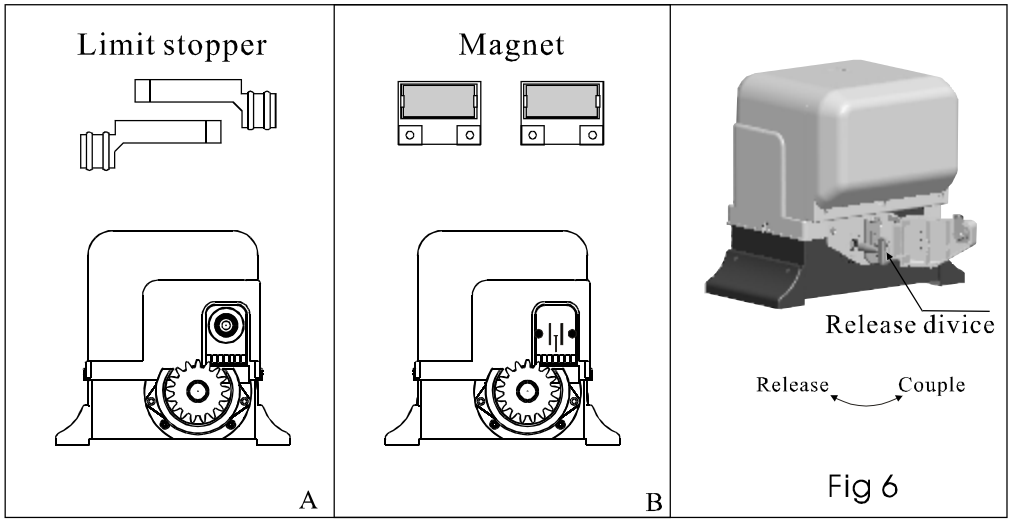


Fig 6

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

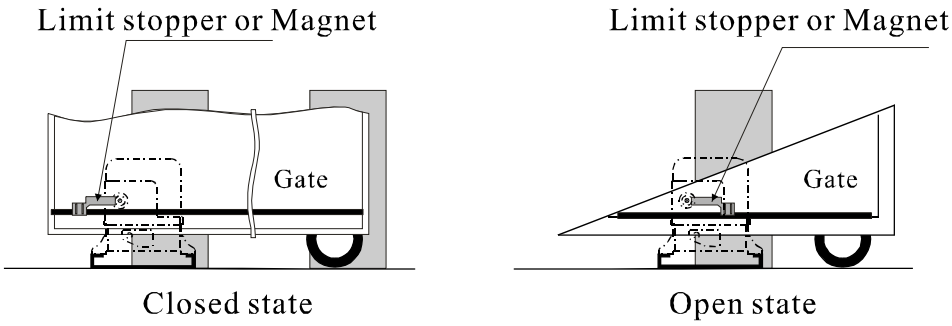


Fig 7

NOTE: Magnet must be 10mm~20mm space from the operator, and must be same height with the Magnetic switch inside of the Operator Blue Magnet is for Open Limit, Red Magnet is for Close Limit.

3. Layout of PCB and wiring diagram

3.1 24VDC control board:

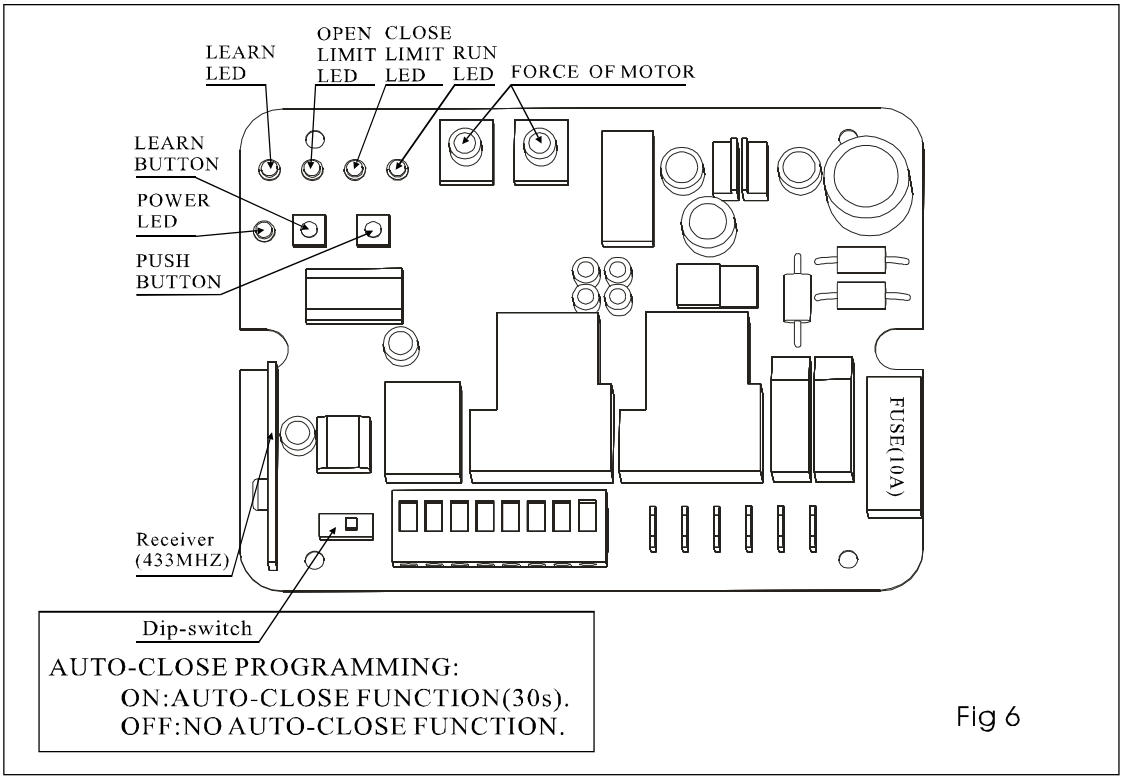
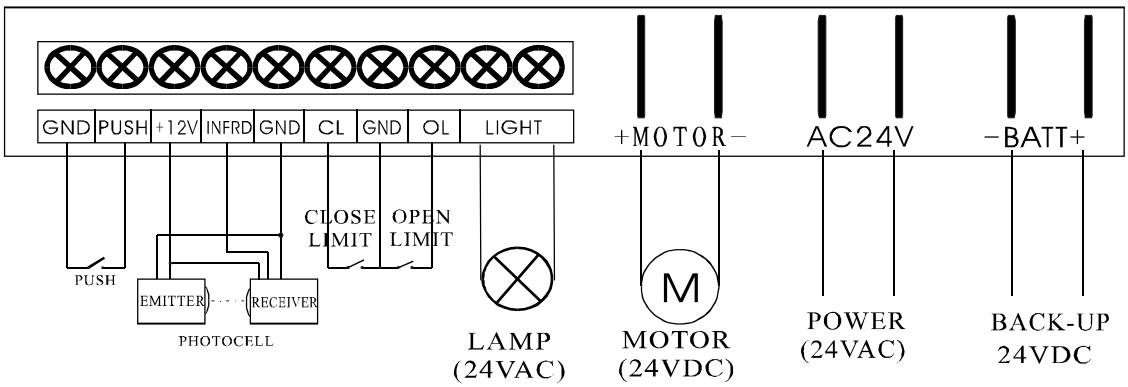


Fig 6



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 " flash and go out, Now, the transmitter is coded. Other transmitters can be coded as this way

Transmitter's code erasing

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

3.2 AC control board:

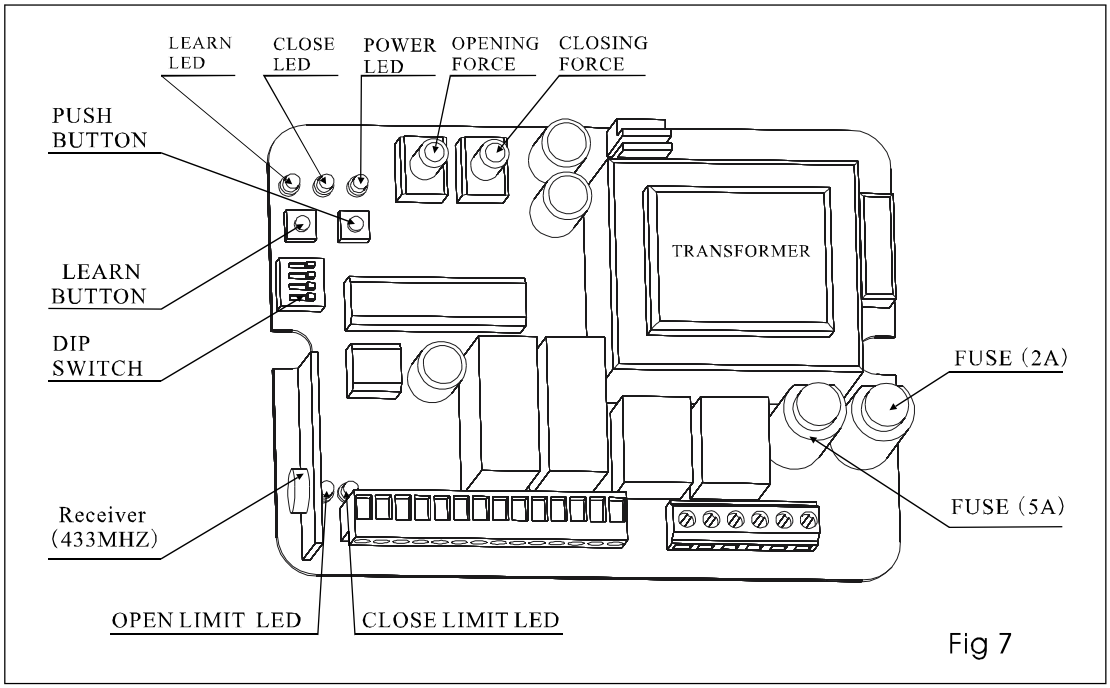
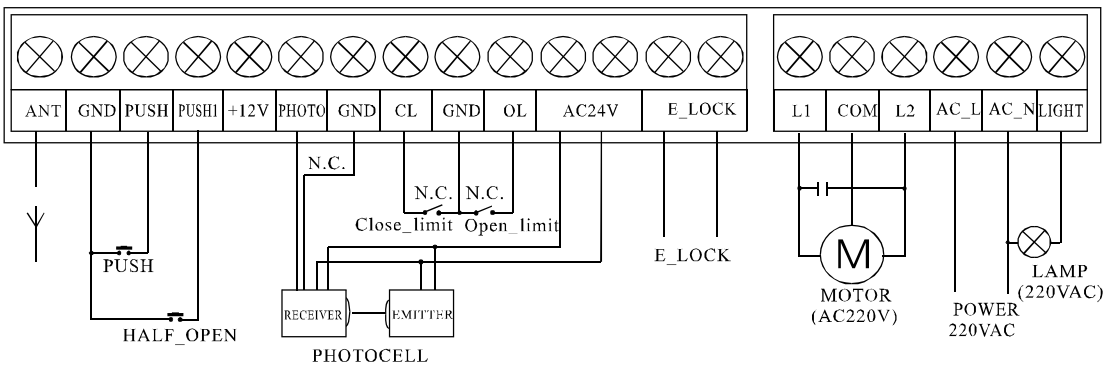
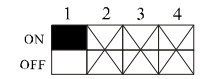
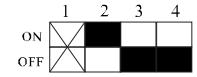
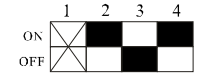
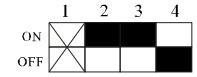
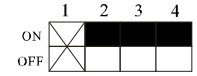


Fig 7



Dip-switch programming:

	Connect Electrical lock
	Auto-close (20s)
	Auto-close (30s)
	Auto-close (45s)
	Auto-close (60s)

Transmitter's code setting

First, press "LEARN BUTTON", the "LEARN LED" light, then, press the button you choose in transmitter till the "LEARN LED" flash and go out, This button control motor step-by-step.
Second, press "LEARN BUTTON" twice, the "LEARN LED" light, then, press another button you choose in transmitter till the "LEARN LED" flash and go out, This button control half-open.
Now, the transmitter is coded, other transmitter can be coded as this way.

Transmitter's code erasing

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

4. Trouble Shooting

Number	Trouble	Cause	Shooting
1	motor can not work	*No power supply *Break fuse * capacitor decay *Surpass load *Effected by the thermal protection	*Check power supply *Change fuse *Change capacitor *Check if any barrier on track *Restart after 20 minutes
2	Can open (close) but can not close (open)	*Position of limit switch is not correct *Limit switch is damaged *whether L1\COM\L2 wires are connected wrong *Magnetic-steel dropped and position isn't right	*Adjust position *Change limit switch *Connect correctly according to wiring diagram *Re- adjust magnetic-steel position
3	can not locate accurately	*Distance of limit switch is too large * limit switch is *whether COM、CLOSE、OPEN were connected *magnetic-steel' s position is wrong	* Adjust position of limit switch *Change limit switch *Connect correctly according to 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\L2wires are connected wrong	*Connect correctly according to wiring diagram
6	Motor can turn but can not work	* Compression spring of clutch is dead * Gear box is released	* Change the spring * Couple the worm gear

Specification maybe changed without a prior notification.