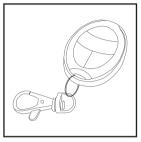
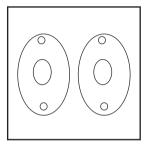
SOLAR MOTOR SLIDING GATE



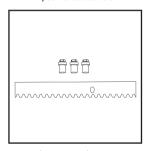
PLEASE READ THE MANUAL CAREFULLY
BEFORE INSTALL AND USE

A kit of motor includes

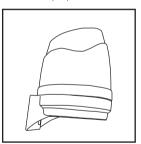




4pcs Remote controls



2 pair photocell



1 pcs lamp

4pcs gear rack



1 PC Solar charger



2 PCS Battery 12Ah



1PC Solar panel

WARNING TO THE INSTALLER AND USER

- 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 use other than that intended.
- Do not install the machine in an area subject to explosion hazard.
 Inflammable 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 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 safety and correct operation of the machine, should components made by manufacturers other than we 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 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 person.

1. Introduction

MVO6 Complete kit





Accessories



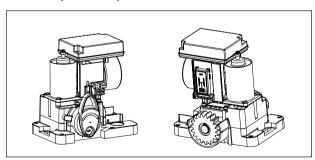
Key



1.2 Technical Specifications

Model	MVO6
Power supply	110V-60HZ ,
Power of Motor	24VDC 60W
Motor rotational speed	2200r/min
Max weight of gate	400kg
Thermal protection on motor winding	P55
Working environment	-10℃~55℃

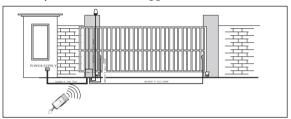
1.3 Description of Components



2. Installation

- * Before using the Operator, 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 before installing Operator
- * The product must be installed by professional person.

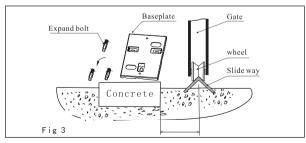
2.1 Example of an installed sliding gate

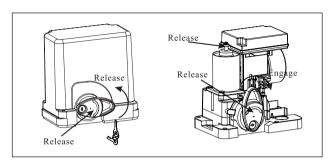


2.2 Installation and adjustment _

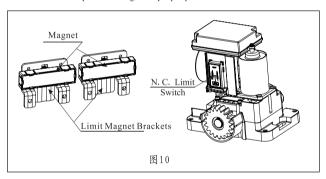
2.2.1 Install baseplate on the ground, then, fix the sliding motor on the baseplate.

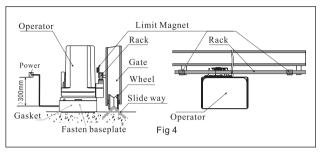
Note: Ensure baseplate on level position.

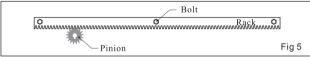




2.2.2 Install the open limit magnet at proper position on the steel rack.

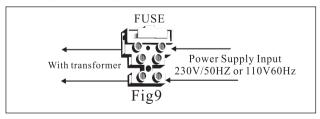






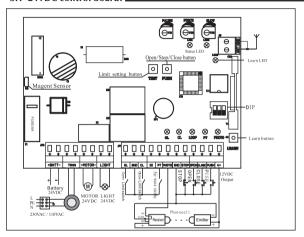
NOTE: Magnet must be 10mm~20mm space from the operator, and must be same height with the Magnetic sensor inside of the Operator.

2.3 Description of components:



3. Layout of PCB and wiring diagram

3.1 24VDC control board: _____



3.2 DIP-Switch setting-

ON 1 2 3 OFF	Auto-close Valid	OFF	Auto-close Invalid
OFF	Light flashing when working	OFF	Light on when working
OFF	Step by step mode	OFF	

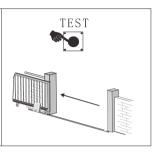
3.3 Difinition of Trimmers -

PAUSE	Trimmer of Auto - Close delay time when open limit status.
FORCE	Trimmer of force adjustment in working status.
€ SLOW	Trimmer of power adjustment in slowing status.

4. Open and Close Limits Setting_

Note: Before Setting, make sure position of Open/Close Limits is correct.

4.1 Press"TEST" button for 3 seconds until the motor working. The gate starts to open until stop automatically at Open Limit.



4.2 The gate will recerse automatically to the Close Limit after stop 1 sec. Now the Open and Close Limit have been saved in memory.



5. Transmitter:

5.1 Learing a button on transmitter for step by step operation:

Shortly press "LEARN" button on control board, "LEARN" LED light on, then press and hold the required button on transmitter till the "LEARN" LED flashes and goes out.

5.2 Learing a button on transmitter for only openning operation:

Shortly press "LEARN" button twice control board, "LEARN" LED flashes twice, then press ANOTHER button on transmitter till the "LEARN" LED flashes and goes out.

■ This way, more transmitters can be learnt.

5.2 Erasing transmitter's code: _____

Erasing transmiter 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.

6. Trouble Shooting

Number	Trouble	Cause	Shooting
1	motor can not work	*No power supply *Break fuse * eapacitor decay *Surpass load *Effected by the thermal protection	*Check power supply *Change fuse *Change capacitor *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 LI/COMIL2 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 motor wires 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

