

# **GARAGE DOOR OPENER**

## **INSTALLATION MANUAL**

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## Attention to security

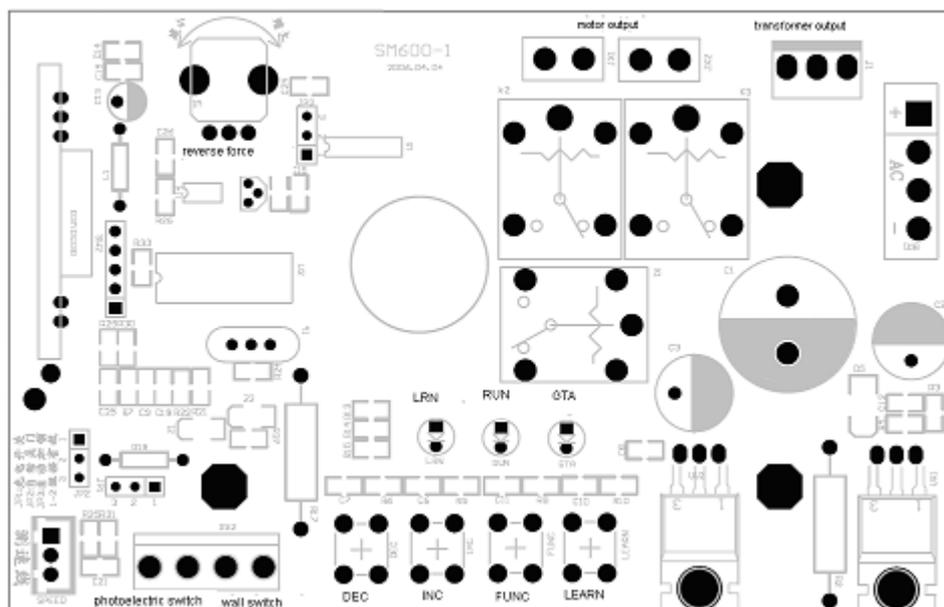
To ensure your safety, reduce accidents happens ,before installation please must read the installation manual carefully, and operation is strictly comply with the installation manual. If you have some questions, please ask the specialists and the dealers.

- 1) The installation worker must inspect the door before installation, only allows installation the opener at balance state, Otherwise it could have serious consequences.
- 2) When the door is running, no people and object can across, or stay below the door.
- 3) It is forbidden to use the remote control when you can not see the door running, avoid accidents and misuse of the garage door opening.
- 4) The mechanical limiters should add the doors two side to prevent the body slid off the door.

**Note :if you do not have the side door ,please must installation blackouts unlocking device so as to open the door by hand when blackout.**

## Installation and adjustment

### 1.The layout of control board



## **2. Instruction of electricity**

Puts through the power source, the code light ,running light ,state light will flash three times, it indicate that the program is work normally.

### **3. Programming and canceling of remote control**

**3.1** Press button "code " over one second, the code light is brightened ;then press any button , release ,press this button again ,the code light is flash quickly , After the code light off, which indicates the successful learning of remote control.

**3.2** If need learning other remote control, reprogram according to step 1), the opener can study 20 remote controls at most.

**3.3** Canceling the remote control: press button code until the code light is glow. Over 8 seconds, the code light is off, all memory was cleared.

**Suggestions: if miss the remote control, so for your safety concerns you need to clear all remote control, then learning again.**

### **4. Limit levels of learning**

**4.1** Press button setting until the running light is flash ,press this button for 2 seconds, the running light is change flash all the time ,the program has got into the open /close door and reverse force state of learning.

**4.2** Press increase button, the motor moved for opening direction, press this button the motor continuous operation, at the same time the running light is brighten which indicate the motor operator for opening position .when the door reach desired position release this button, the motor stopped. If press decrease button, the motor moved for closed door position, the state light is flash. Use two buttons can adjust the limit level position.

**4.3** If the position is desired ,press setting button for once, the running light quickly flash and then off ,it indicate that successfully learning opening position ;at the same time, state light is flash ,it indicate that turn into close position learn state

**4.4** Use increase button and decrease button to adjust open and close state, when it reaches desired position, press button setting until state light is flashing, and then release. When the state light is off, it means that learning process is over. (Please note that you must learn opening process firstly, learn closing process secondly)

## **5. The adjustment of reverse force**

**5.1** To insure the door operation normally, the lift is not need to adjust; the program has setting the Max lift. If the lift than the setting lift, when opening the door, the door will stop automatically, avoid damage the door and the motor.

**5.2** The adjustment of reverse force, adjust the reverse force anticlockwise ,adjust electric limit switch, then press remote control make the door operation downward, and test the reverse force ,if too large or too small ,clockwise /anticlockwise adjust electric limit switch

until desirable.

**5.3** When finished, operate the motor for several time to insure the door can normally running the closing or opening position, it indicate that the adjustment is fit, if it does not, it need to adjust the reverse force again until desirable.

### **6. The use of photoelectric switches**

When need to connect external photoelectric switch, short of photoelectric switches jumper JP1 1-2 foot. After finished, during opening door, if the switch is hidden, the door will stop at once, after prolong time it turn into opening door ;during the opening ,do not examine the switch.

If do not use photoelectric switch, it need to short of photoelectric switches jumper JP1 2-3 foot. It does not need to connect the switch, the program will not exam the photoelectric switches.

### **7 .Turn off light automatically**

It has turned off light function so do not need to set.

When the motor is running, the light is brighten automatically .If have no wall switch and press any button in three minutes, the light will be off automatically.

### **8 .Close door automatically**

If need to this function, it need to short of photoelectric switches jumper JP2 1-2 foot., then have this function .When the door is not close, if have no wall switch and press any button in 5 minutes ,the program has close door automatically function . You can cancel this function short 2-3 foot.

## **Optional accessories installation**

### **1) Wall switch**

The wall switch install indoors, it can control close/open door. The wall switch must install the position where see the door running, and the height should be more than 1.3m avoid misuse by children.

First open the light cover, use the screws connect one side of the twin-signal line with circuit board which shows “wall switch” ,and the other side connect with wall switch back.

### **2) Photoelectric switch**

The photoelectric switches is an untouched safety system which provide one invisible light, when the door closing if someone or other obstacles hidden the light ,the door will stop at once ,and then running to opposite direction in 2 seconds, return to opening position , so reach to safety protect.

#### **(1) Limit photoelectric switch**

The shelf of switch's height should more than 150mm, and make it far away door hole, avoid sunlight. Use expending screws fasten the shelf, and keep the shelf level, if the two side of wall is not in a level it needs to use liner to adjust. Use M6\*30 bolts to install the inner parts.

#### **(2) wiring**

First open the light cover, find “photoelectric switch” in circle board. Use the screw to connect one side of the twin –signal line .And then bring the level signal line to shelf, then union and divide into two signal wires. Respectively connect with photoelectric switch. Two signal lines have no polarity, you can connect freely.

## **Power failure clutch lock**

If your garage door is in the open state, when encountering power failure, you can pull the emergency release handle manually to disconnect the clutch with the chain connector, and then pull the door panel downward to the closing position manually; door panels will be blocked by the limit hole.( The erector installation according to actual position which is the distance of clutch ,use electric drill make a hole about 8mm)

## **Maintenance and repair**

Check the safety protection function of the opener at least one month regularly whether the closing state changed , it is sensitive for error recognition ,the door is keep balance and adjust in time ,so as to keep the best state,. It is necessary for find a specialist to check and adjustment.

## **Technical parameter**

- a、 Rated voltage: AC220V 50Hz
- b、 Rated output torque :6N\*M/8N\*M
- c、 Remote controlling distance:  $\geq 20$ m
- d、 Max. Speed: 80mm/s

## The common stoppage and trouble shooting

Fault	Cause	Remedy
No response for the operator, LED off	<ul style="list-style-type: none"> <li>•Disconnection between door opener and power supply</li> </ul>	<ul style="list-style-type: none"> <li>•Check the electrical outlet</li> </ul>
No response for the operator ,LED flashed very quickly	<ul style="list-style-type: none"> <li>• The programming is wrong</li> </ul>	<ul style="list-style-type: none"> <li>•Restart the programming</li> </ul>
While opening or closing doors, it stops in its way, and runs at opposite way,the LED flash quickly	<ul style="list-style-type: none"> <li>•The resistance is stronger than the system,activate the protect system</li> </ul>	<ul style="list-style-type: none"> <li>•Check the balance system of the door</li> <li>•Increase the load force of the door</li> </ul>
The door can not run for the position of close,can not close the door	<ul style="list-style-type: none"> <li>•The photoelectric switch is shelter from the obstacle</li> <li>•The system has this function,but disconnect.</li> </ul>	<ul style="list-style-type: none"> <li>•Remove the obstacle</li> <li>•Do not use photoelectric switch or connect</li> </ul>
The door can not open or close completely	<ul style="list-style-type: none"> <li>•Programme is wrong</li> </ul>	<ul style="list-style-type: none"> <li>•Restart learning the travel</li> </ul>
The wall switch can use ,but remote control does not work	<ul style="list-style-type: none"> <li>• The remote control does not learn</li> <li>• No battery in remote control</li> </ul>	<ul style="list-style-type: none"> <li>•Learning the remote control according to the manul</li> </ul>
The remote control distance is get near ,the light is become dark	<ul style="list-style-type: none"> <li>•The battery is powerless</li> </ul>	<ul style="list-style-type: none"> <li>•Replace the battery</li> </ul>
The remote control is work,but the wall switch does not work	<ul style="list-style-type: none"> <li>•The wire of wall switch is loose or turn off</li> </ul>	<ul style="list-style-type: none"> <li>•Check the connection wire of wall switch</li> </ul>

## Maintain record

Name		Installation time	
Maintain time	Cause	Remark	