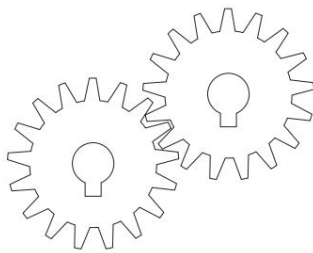


SLIDING GATE OPENER

INSTRUCTION



MODEL:1041.109



Please read this manual carefully before use

HANGZHOU SAFEDOOR AUTOMATION & HARDWARE CO., LTD.

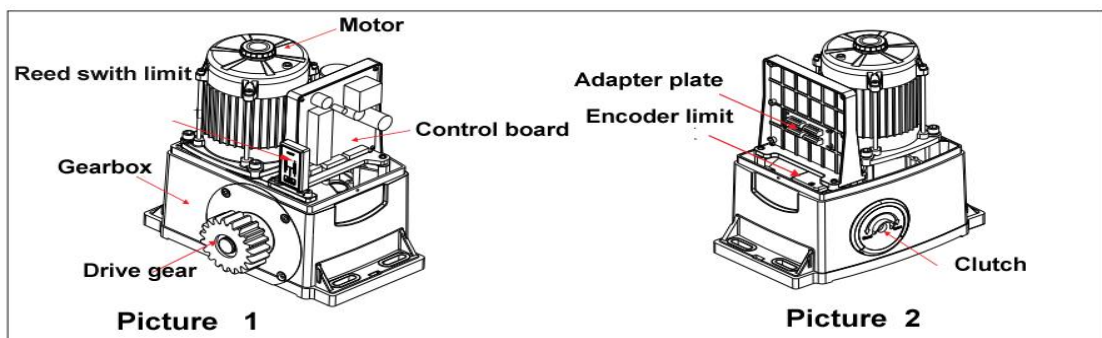
CAUTION!

Bs series door opener requires professional installation

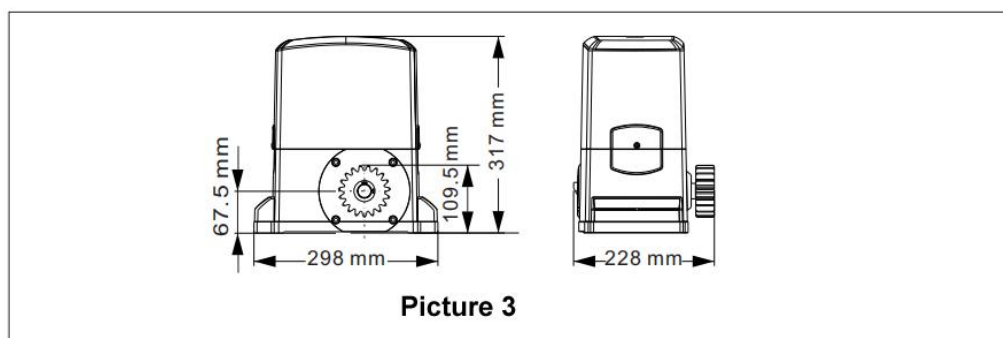
- (1) Please read the insductions carefully before installing the product;
- (2) Attention ! Follow the instructions carefully,this is very imporment for personal safely; Improper installation or misuse of products may cause serious damage to people and property;
- (3) Installation must comply with the relevant standards of different countries;
- (4) The voltage of the power supply should meet the requirements of the machine and be well grounded;
- (5) Power should be cut off before system maintenance;
- (6) It is strongly recommended to install safety devices(such as infrared photocell),and it should be checked frequently to ensure normal operation;
- (7) The company shall not be responsible for the consequences caused by improper or out-of-scope use;
- (8) The company shall not be responsible for any problems caused by inoring the process requirements of precision components or deforming them during construction;
- (9) This product was designed and manufactured strictly for the use indicated in this document. Any other not expressly indicated use may damage the product or be a source of danger.
- (10) The company shall not be responsible for safety problems or abnormal operation caused by accessories not manufactured by the us;
- (11) Do not make any changes to the components of the system;
- (12) The installer must introduce the operation method and relevant regulations under emergency conditions in detail to the user,and submit product manual to the user;
- (13) When installing the product;children and other irrelevant personnel are strictly prohibited to approach;
- (14) Keep the remote control out of reach of children in case of accidents;
- (15) Users are strictly prohibited to try to repair or adjust the system without permission,and should contact professionals;
- (16) Keep the instruction manual for future use.

1.Product description

(1) Internal structure



(2) Dimensions (picture 3)



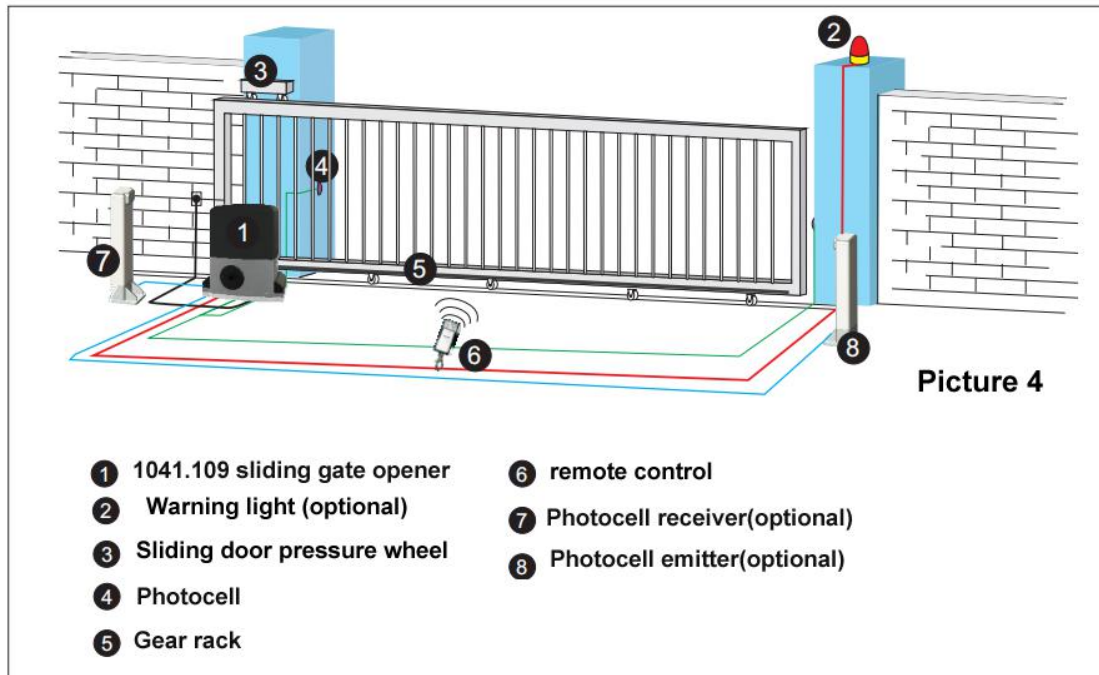
(3) The main technical parameters

Product number	1041.109	1041.109T	1041.109DC
Type description	AC motor	Inverter motor	DC motor
Power	220V	Three phase/220V	36V
Power	500W	500W	350W
Motor speed	1400r/min	1440r/min	1400r/min
Max weight of gate	<3000KG	<=3000KG	<2000KG
Working temperation	-20°C~55°C		
Thermal protection temperature	130°C		
Max length of gate	<20M		

(4) Features:

1. The motor has over-heat protector with over-heat protection function;
2. The prудuct is equipped with clutch,just put the clutch key into the clutch window clockwise rotation 3 times can promote the door;
- 3.With soft start, the whole machine starts more smoothly;
- 4.Optional resistance return and open door stop function;
- 5.Optional slow in-position or limit brake function;
- 6.With optional delay automatic door-closing function, delay time can be investigated;
- 7.The product has a door opening interface for the access control system;

2. Installation plan reference



1. Product installation and investigation test

(1) Power socket

Please install the power socket in a proper position according to the safety standards. (picture 5A)

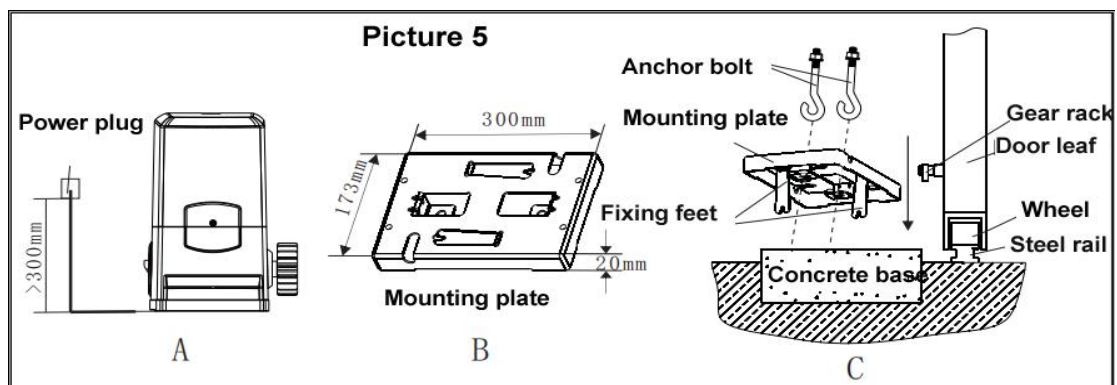
(2) Fix mounting base plate

When fixing the mounting base plate, bend the fixing feet on the mounting base plate as shown in picture 5C.

Insert the fixing feet and anchor bolt into the concrete, pre-bury it, pour it with the base, and then tighten the nut of the anchor bolt to fix the mounting base plate.

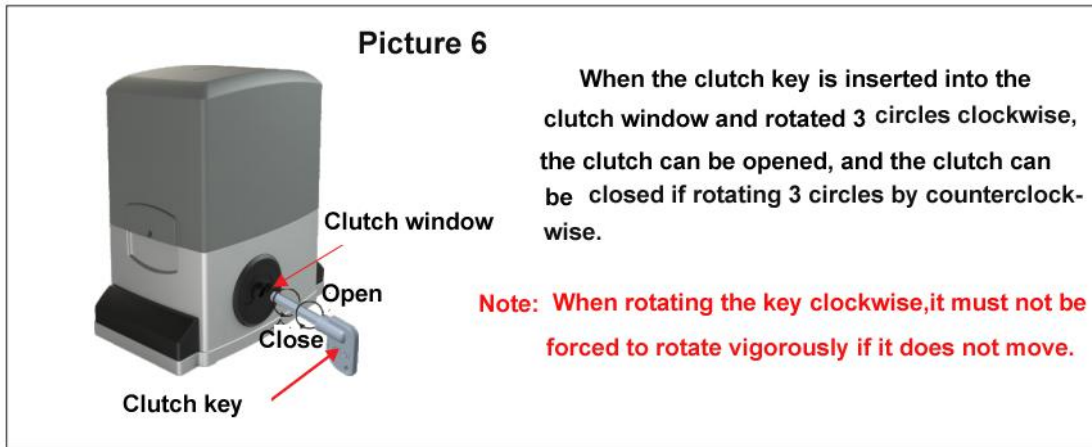
Attention:

- Please confirm the proper position of the mounting base plate relative to the door leaf, so as to facilitate the installation of the sliding gate opener.
- Guarantee the level of the mounting base plate.

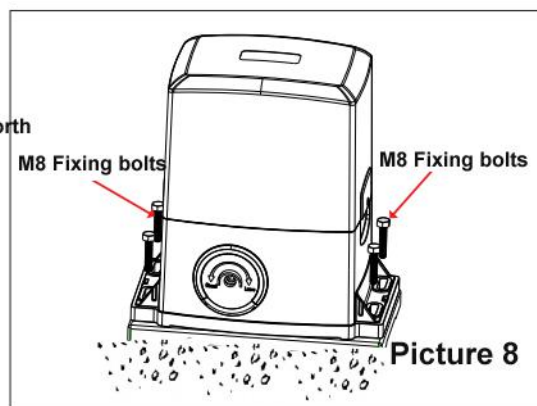
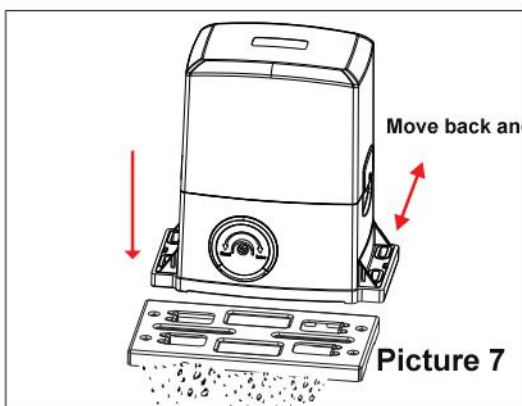


(3) Install the sliding gate opener

- a. The clutch must be disengaged before installing the sliding gate opener, Operate as shown in picture 6.

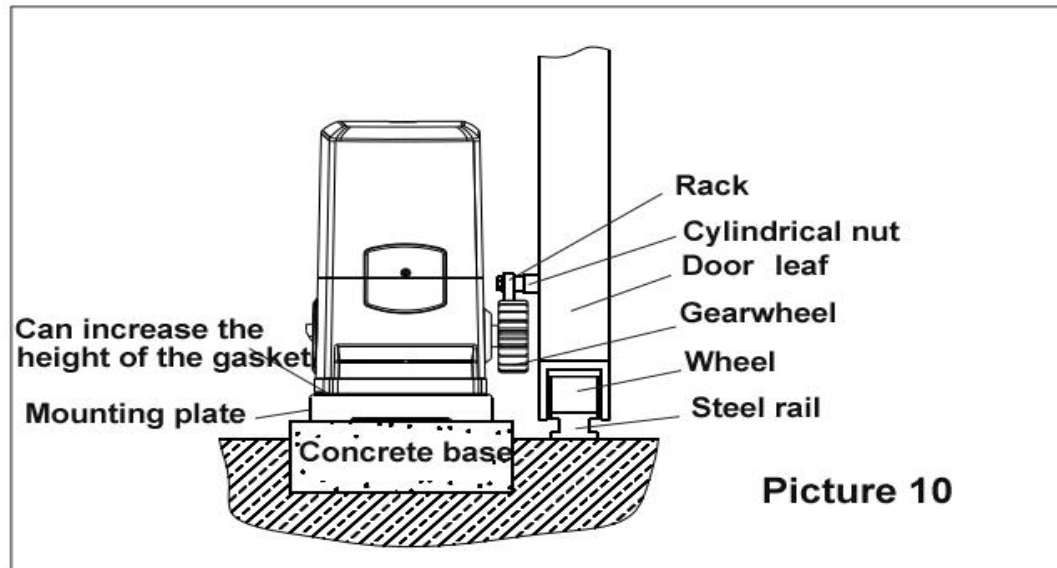
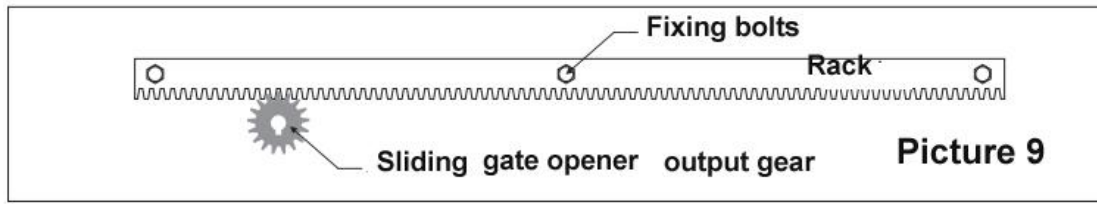


- b. Remove the plastic foot fittings of the sliding gate opener, place the sliding gate opener on the mounting base plate, move the sliding gate opener back and forth, and adjust the distance between the output gear and to the gear rack; Appropriate padding between the sliding door machine and the mounting base plate can be helpful to adjust the gear spacing between the output gear and the gear rack, as shown in Figure 7. Note that the gear-to-rack tooth gap is 1~1.5mm, as shown in Figure 10; After the position of the sliding gata opener is located, tighten the fixing bolts and fix the sliding gata opener firmly on the mounting base, as shown in picture 8.



(4) Mounting gear

Weld the cylindrical nut of the gear rack to the appropriate position on the lower part of the gate, and then bolt the rack to the nut. Adjust the toothing gap of the rack and the gear by adjusting the spacer between the sliding gate opener and the mounting base, as shown in Figure 9 and 10. (Note: The rack and pinion clearance should be 1~1.5mm)



Warning:

The product must be installed by a professional. Otherwise, the company will not be liable for personal or property damage.

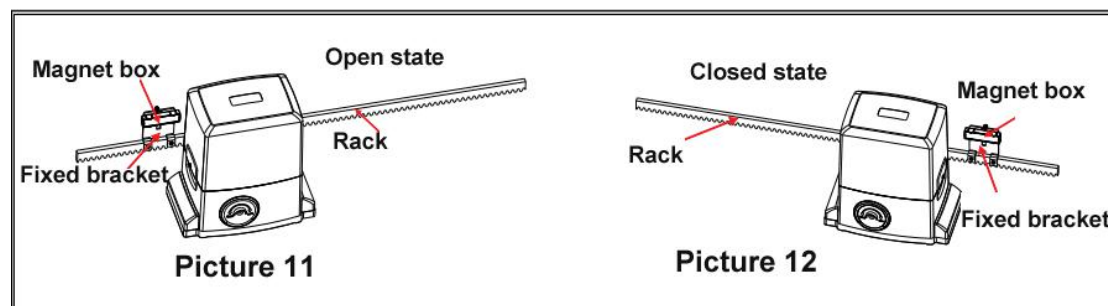
3. Limit adjustment scheme reference

The commercial sliding gate adopts magnetic limit switch limit or encoder limit switch.

When installing the limit magnet box, first use the clutch key (included) to disengage the clutch, push the sliding gate to the desired initial starting position of the gate, and then screw the fixing bracket of the magnet box to the rack (Figure 11);

Then, close the clutch and electrically operate to move the gate to the required closing position, then fix the other bracket with the magnet box on the rack (Figure 12);

The gate can be opened and closed electrically to optional status by adjusting the front and rear positions of the fixing bracket.

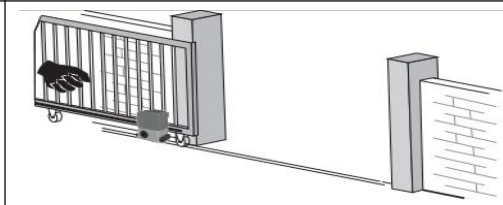


4. Stroke learning process

Attention: Locate the opening and closing limits in the correct position before learning the stroke.

4.1 Open the door completely

Disengage the clutch, manually pull the door to the fully open position, and make sure the limit indicator "right" goes out and close the clutch.



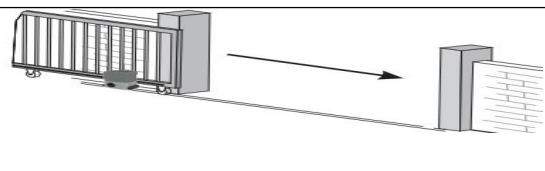
4.2 Clear the stroke data and start the stroke learning function

Press and hold the function key "SET" until "LED1" flashes and then release.



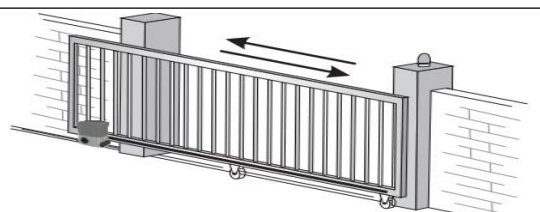
4.3 Start stroke learning

Click on the remote control and the gate will start to close.



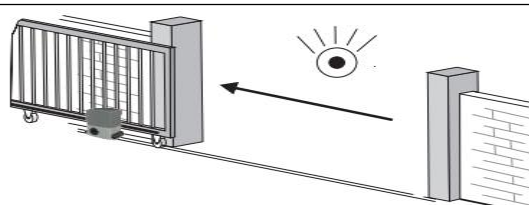
4.4 Looking for the closing limit

When the gate is completely closed, the limit indicator "left" will be extinguished and it will automatically stop and then open again.



4.5 Looking for the opening limit

When the gate reaches the limit position of the door opening, the limit indicator "RIGHT" is extinguished. At this time, the "LED1" indicator flashes several times and then goes out, and the stroke learning is completed.



5. Remote control

5.1 Remote control learning:

1. One-button step by step control key learning:

Click the learning key "LEARN" once, the indicator "LEARN LED" lights up, then press and hold a button on the remote control until the "LEARN LED" flashes and then turns off;

2. Open button learning

Press the "LEARN" button twice, the indicator "LEARN LED" flashes twice and then lights up, then press and hold another button on the remote control until the "LEARN LED" flashes and then turns off;

* Learn the rest of the remote control by the above learning methods ;

5.2 Erase remote control

Press and hold the learning key "LEARN" until the learning indicator "LEARN LED" flashes. The indicator "LEARN LED" flashes several times and then turns off.

* **Now all remote control codes are cleared**

6. Trouble shooting

No.	problem	cause	Solution
1	The motor does not work	*no power *fuse tube burned out *overload *clutch not closed	*check the power supply *replace the fuse *whether the door is blocked by heavy objects *close the clutch
2	No slow down or brake on limit function	*No stroke learning *main board thyristor is damaged	*Re-learn the stroke *Replace the thyristor component of the same type
3	Remote control distance is too short	*remote control battery is low *receive module is damaged *The machine is by interfered the same frequency range	*Replace the battery with a new one *Replace the new receiver module *Replace a receiver with a different frequency
4	Press the "push" button, but the door only opens the door	*The motor line is only one side *No infrared or infrared is not shorted *One side of the limit is not connected or loose	*Reconnect the motor line *Connect the infrared or short-circuit infrared interface until the infrared indicator lights up *Connect the limit cable correctly
5	The motor can turn, but the gear does not turn	*Clutch spring is broken *Clutch is not closed	*Replace clutch spring *Close the clutch
6	Set the automatic closing time, but no automatic closing function	*This feature is not activated *Infrared is blocked or damaged	*Activate this function (see DIP switch settings) *Eliminate obstacles that block infrared or replace a pair of good photocell

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