

Blütezeit



SLIDING GATE OPENER USER MANUAL

1800/2700/4000/5300 LB



WARNING: ONLY QUALIFIED AND EXPERIENCED TECHNICIANS SHOULD ATTEMPT INSTALLATION OR SERVICE TO THIS UNIT, OTHERWISE, SERIOUS PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE MAY OCCUR.



READ ALL SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATING THIS TOOL. PLEASE KEEP THESE INSTRUCTIONS FOR FURTHER REFERENCE.

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PRODUCT SPECIFICATIONS

Model No.	MD370	MD550	MD750	MD1200
Motor Power	370W	550W	750W	1200W
Max. Lifting Weight	1800 LB	2700 LB	4000 LB	5300 LB
Horse Power	0.5HP	0.75HP	1HP	1.6HP
Output Torque	18 N.m	26 N.m	35 N.m	45 N.m
Package Weight	43.7 lb	47.4 lb	48.3 lb	52.5 lb
Rated Voltage	AC 110V, 50/60Hz			
Motor Speed	1400 rpm			
Max. Gate Length	40ft (12m)			
Work Duty	S2, 15 minutes			
Gate Moving Speed	39.4 ft/min (12m/min)			
Remote Control Range	100ft (30m)			
Recording of Remotes	40pcs (2 are included)			
Working Temperature	-77°F ~ 131°F			

SAFETY GUIDELINES

WARNING

Before installing or using this product, carefully read and understand the enclosed safety instructions. Failure to follow the safety warnings and instructions listed below may lead to electric shock, fire, and/or severe personal injury. Keep the safety instructions for future reference.

- **Professional Installation:** The gate opener should only be installed by a qualified technician to prevent any potential risks to personal safety and property.
- **Voltage Match:** Ensure that the power voltage used matches the gate opener's supply voltage (AC110V). Keep control devices and remotes out of the reach of children.
- **Safety Around the Gate:** Never operate the gate when anyone is near the main engine or gate to avoid accidents.
- **Children Safety:** Keep children away from automatic gates and remote controls to prevent unintentional gate activation.
- **Control Box Warning:** The control box contains high voltage. Always switch it off before making any repairs or opening its cover.
- **Proper Grounding:** Ensure the gate operator is adequately grounded and consider employing short circuit or current leakage protection.
- **Caution with Racks:** When working with the racks, ensure they do not come into contact with open electrical circuits.
- **Installation Location:** Install the gate opener on the inside of the property, away from public access points.
- **Located Blocks:** Install located blocks on both ends of the guide for smooth gate operation.
- **Mind Moving Parts:** Be cautious around moving parts to avoid any possibility of pinching hands or fingers.
- **Control Device Placement:** Position control devices to prevent access through the gate.
- **Emergency Release:** In case of a power failure, use the emergency release key to operate the gate manually.
- **Protection from Elements:** Shield the control box from direct sunlight and rainwater exposure.
- **Proper Disposal:** Dispose of all packing materials (plastic, cardboard, polystyrene etc.) according to current guidelines and ensure they are out of reach of children.

MACHINE INFORMATION

1. MAIN FEATURES

- **Enhanced Safety:** Equipped with an obstruction detection mechanism and infrared sensor, providing double protection by automatically stopping and reversing the gate.
- **Multiple Remote Control Support:** The gate opener can store up to 40 remote controls.
- **Auto-Close Feature:** Set a time delay (5s/10s/20s) for automatic gate closure after opening.
- **Over-Heat Protection:** Ensures safe and reliable operation with built-in over-heat protection.
- **Manual Key Release:** The operator's clutch can be manually opened for emergencies or power outages, allowing manual gate operation.

2. WORKING PRINCIPLE & MAIN STRUCTURE (Fig.1)

The motor drives the worm gear, which, in turn, powers the driven gear. The driven gear engages with the rack, ensuring smooth gate movement. The motor's energy is efficiently transferred to the socket through the worm and driven gear. When the clutch is engaged, both gears rotate in tandem, providing effortless electrical control for opening and closing the gate.

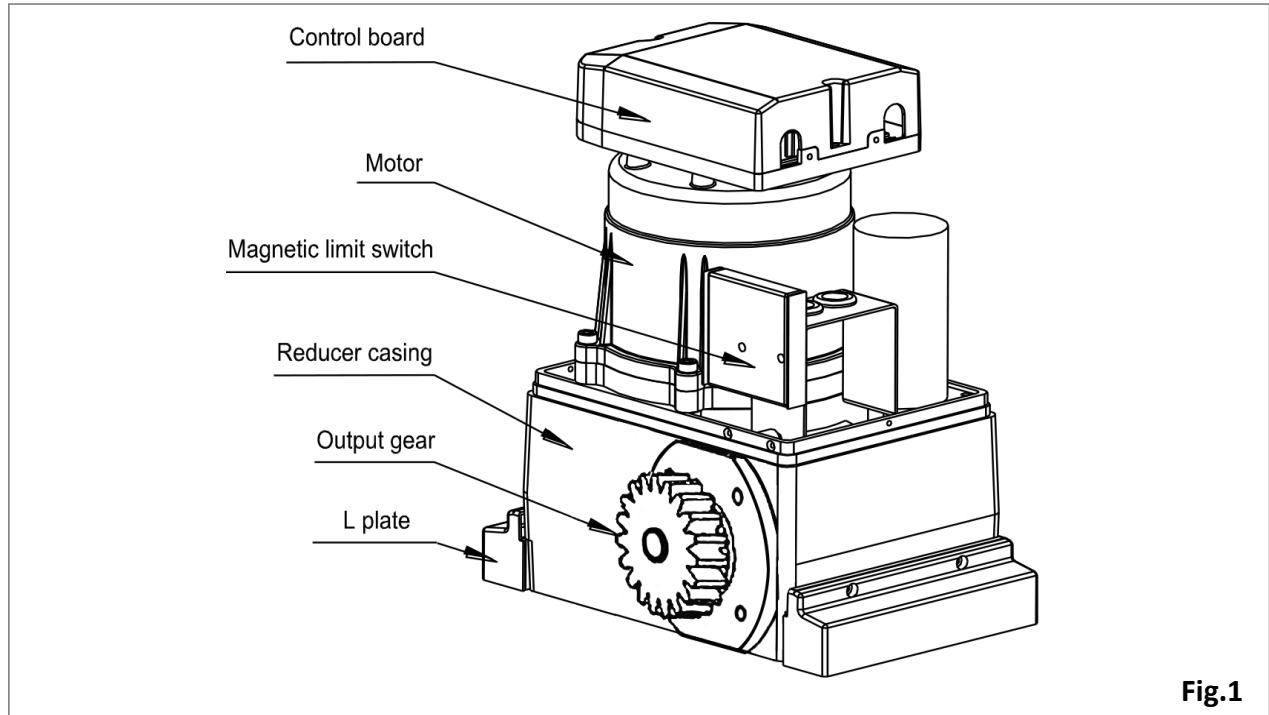


Fig.1

3. MANUAL OPERATION (Fig.2)

In case of a power failure, use the manual release key to open or close the gate manually following these steps:

- Insert the release key in the lock.
- Turn the key 90° clockwise to unlock.
- Open or close the gate manually.

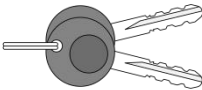
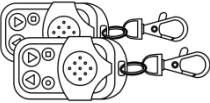
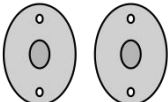
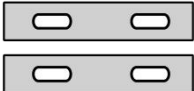
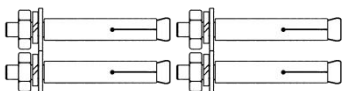
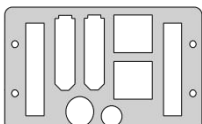
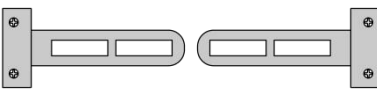
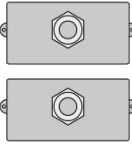
Note: *If the gate is obstructed and cannot be opened electrically, manually move the gate a few inches by hand, then use the key to release and open or close the gate manually.*



Fig.2

PACKAGE CONTENTS

After receiving the product, you should make an unpack-inspection, in which you should check whether the product was damaged. You should find the following items in our standard packing:

No.	Item	Diagram	Quantity
①	Main Engine		1pc
②	Manual Release Key		2pcs
③	Remote Control		2pcs
④	Infrared Sensor		1 pair
⑤	Metal Plates for base mounting		2pcs
⑥	Anchor Bolts for base mounting		4pcs
⑦	Mounting Base for base fixing		1pc
⑧	Magnet Bracket		2pcs
⑨	Magnetic Block for limit switch		2pcs
⑩	Screws for metal bracket fixing		4pcs
⑪	1.64ft Gear Racks		8pcs
⑫	Mounting Nuts for racks		16pcs

INSTALLATION PROCEDURE

1. Pre-Installation Steps

- **Sliding Gate Checking:** Ensure that the sliding gate is properly installed, and the gate rail is level, allowing for smooth manual movement before proceeding with the gate opener installation.
- **Cable Routing:** To ensure optimal performance and protect the cables from damage, it is essential to bury the motor, power cable, and control cable in separate PVC tubes.
- **Concrete Foundation:** For stable operation, use a concrete pad measuring approximately 16 x 10 x 8 inches deep to support the base unit of the gate operator. Place the provided metal mounting base (Fig.4) on the pad for proper installation.

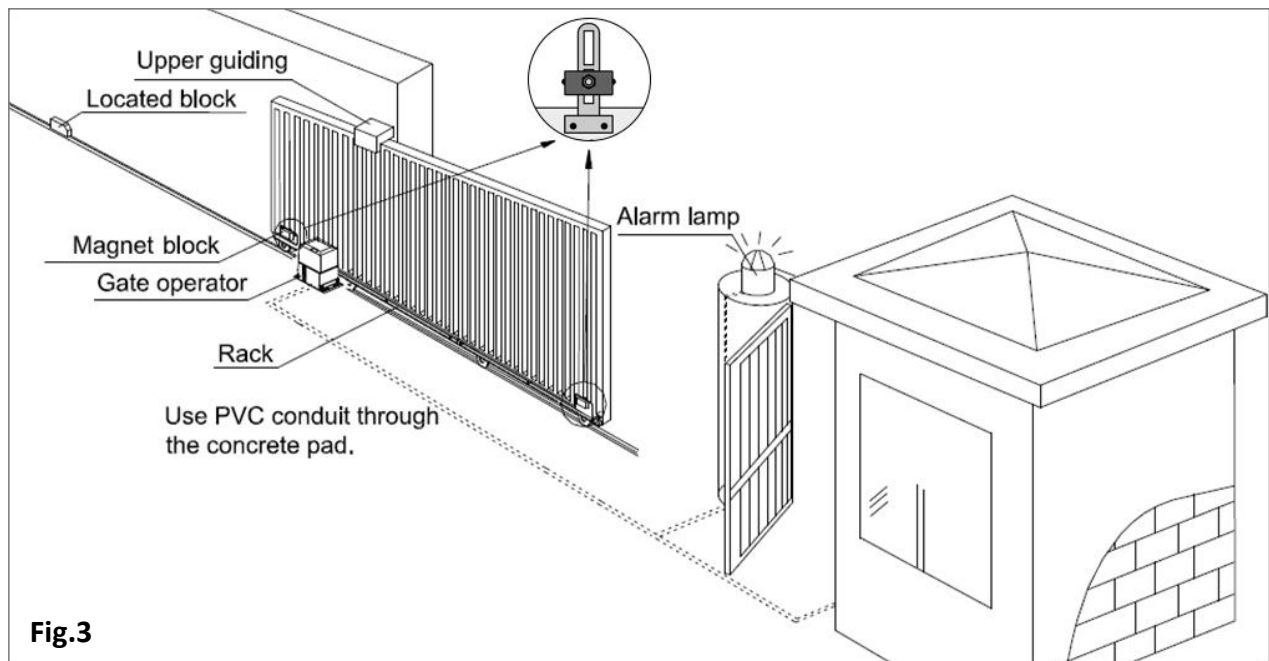


Fig.3

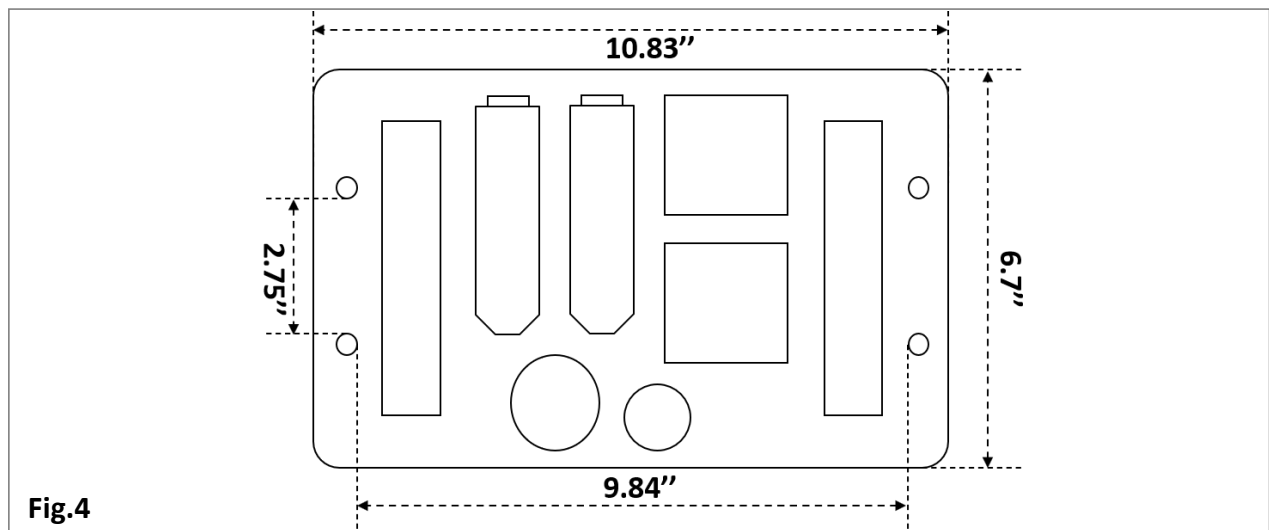
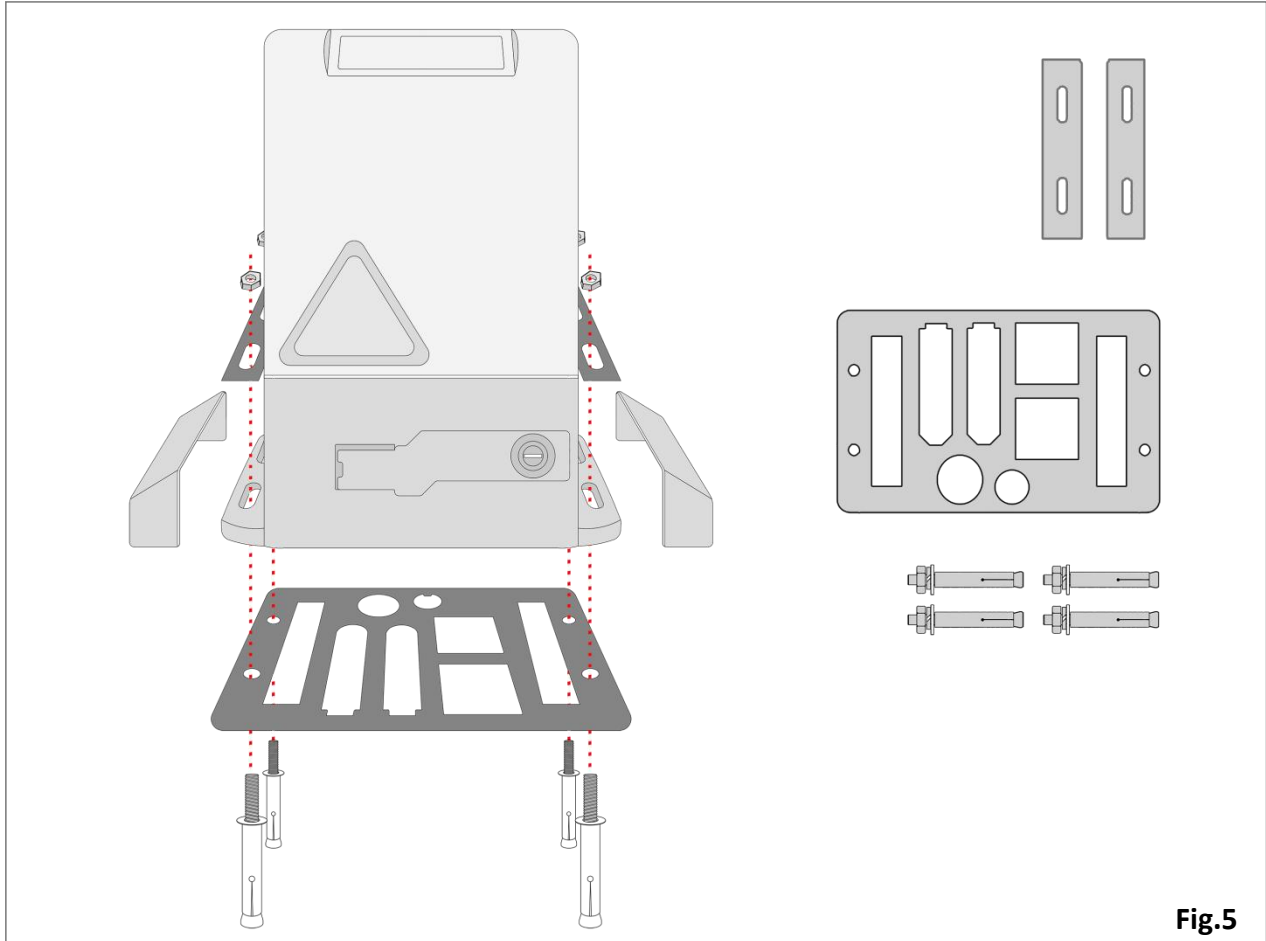


Fig.4

2. Main Engine Installation (Fig.5)

- Remove the "L" plates from the gate opener. Place the metal base⑦ on the ground and position the gate opener onto the metal base, ensuring that the 4 holes are aligned.

- b. Use a marker pen to mark the positions for the 4 holes. Remove the nuts from the bolts and securely install the bolts⑥ into the ground.
- c. Place the gate opener onto the bolts protruding from the ground. Attach the metal plates⑤ to the two sides of the opener, and tighten the nuts to secure the opener base.
- d. Reattach the "L" plate covers to the two sides of the opener.



Important Notice for Main Engine Installation

- Before installing the main engine, remove the cover and store the relevant fasteners securely.
- Prepare a power supply cable with a minimum of 3 cores to connect the mounting plate to the main engine. Adjust the cable length as needed for installation.
- Unlock the main engine before installation by inserting the manual key and opening the clutch until it rotates 90° clockwise (Fig.2). Then, turn the output gear to ensure smooth rotation.

3. Rack Installation (Fig.6)

- a. Put the rack on the gear of the machine to ensure the gear teeth and rack are fully engaged.
- b. Confirm the position of the rack on the gate using a level and ensure it is horizontally aligned. The space between the rack and gear should be approximately 1-2mm for proper alignment.
- c. Manually move the gate to check if the rack is correctly resting on the gear teeth.
- d. Once aligned, weld the first mounting nut⑫ onto the gate at the appropriate position.
- e. Double-check the alignment again before welding the second nut onto the gate.
- f. Position the next rack element adjacent to the previous one and repeat the process for alignment and welding of the nuts.
- g. Continue this process until the entire gate is fully covered with the racks.

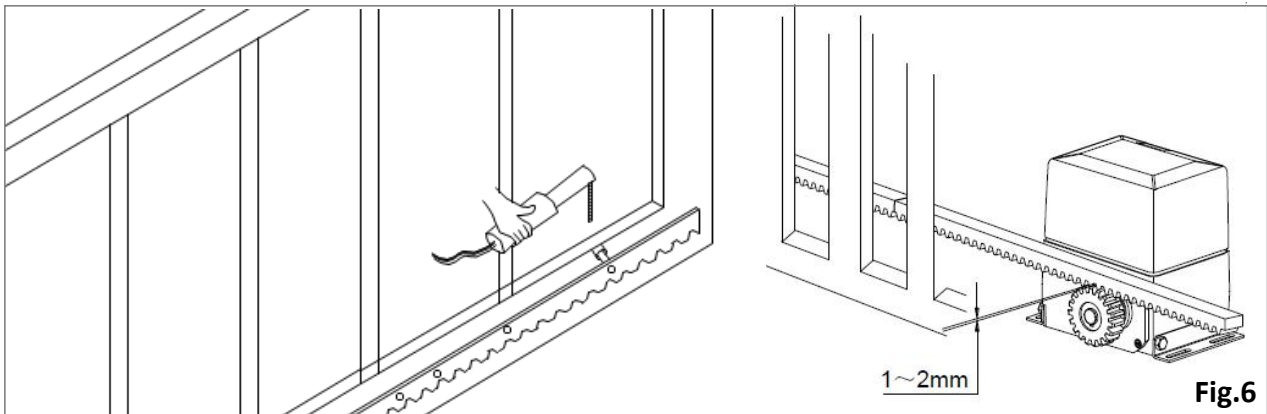


Fig.6

Important Notice for Racks Installation (Fig.7)

- Avoid putting excessive weight on the gear by distributing the gate's weight evenly along the entire length of the rack.
- Ensure that the gate rail is perfectly LEVEL to ensure smooth operation of the gate opener.
- DO NOT weld the rack directly onto the gate.
- DO NOT weld the nuts with the rack.
- DO NOT weld the racks together; each rack should be installed individually.
- ONLY weld the nuts onto the gate to secure the racks in place effectively.
- Maintain a 1-2mm distance between the rack and the gear of the gate opener.

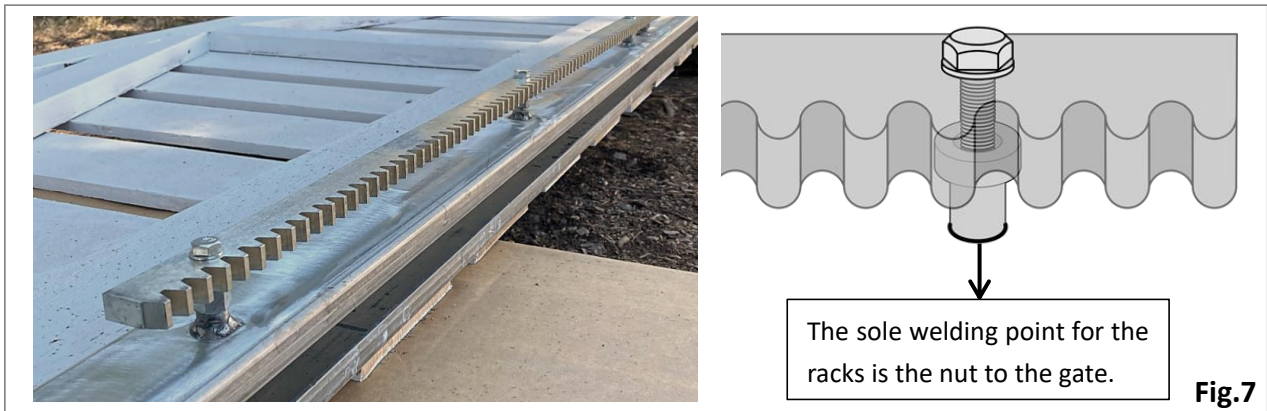


Fig.7

⚠ WARNING

- To ensure safety, install safety stop blocks on both ends of the rail to prevent the gate from running out of the rail. Before installing the main engine, ensure that the safety stop blocks are in place and have the function of preventing the gate from running out of the rail.
- Please make sure that the main engine and its components have good mechanical properties, and the gate can be operated flexibly when manually moved before installation.
- Please note that for this product, one control can only drive one main engine; using one control for multiple main engines may damage the control system.

4. Magnet Placement

- Unscrewing the magnet blocks⑨ and then fix them to the metal brackets⑧. **When the gate is in the CLOSED position, make sure to install the magnet located near the gate opener at the LOWER position. Conversely, the magnet located on the side of the gate, positioned farther from the gate opener, should be placed at the HIGHER position.**

- b. Place the metal brackets^⑧ with the magnets on the rack^⑪ in the desired position. Align them with the limit switch module on the gate opener.

Note: *The limit switch on the motor consists of two parts that must be aligned with the corresponding magnets. Align the magnet for OPENING with the UPPER part of the limit switch module and the magnet for CLOSING with the LOWER part (Fig.8).*

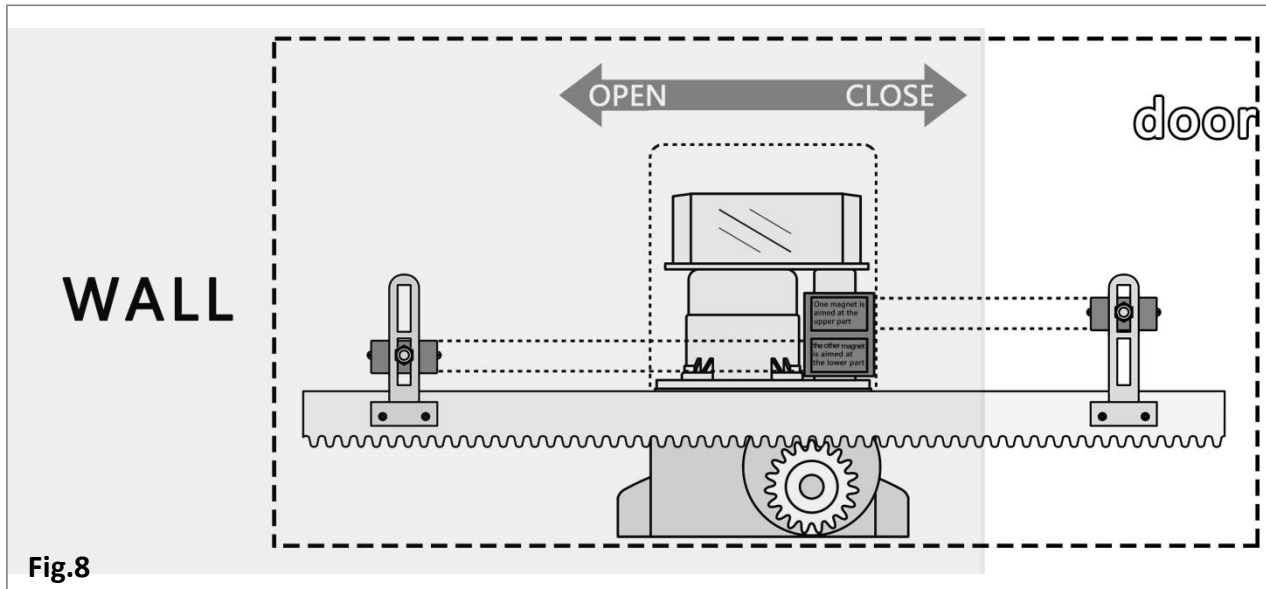


Fig.8

- c. Use the four screws^⑩ provided in the set to securely attach the metal bracket to the two sides of the rack. Tighten the screws firmly to fix the bracket in place securely.
- d. To adjust the magnet position, release the opener clutch, and manually push the sliding gate to a predetermined position.

Note: *The magnets' position is crucial for proper gate operation. The gate's single stroke should be within 40ft, and the motor will automatically stop running if it exceeds this distance.*

- e. Ensure the magnets are positioned approximately 10-15mm away from the limit switch. If the magnets are too far away, the limit switch may fail to work correctly. (Fig.9)

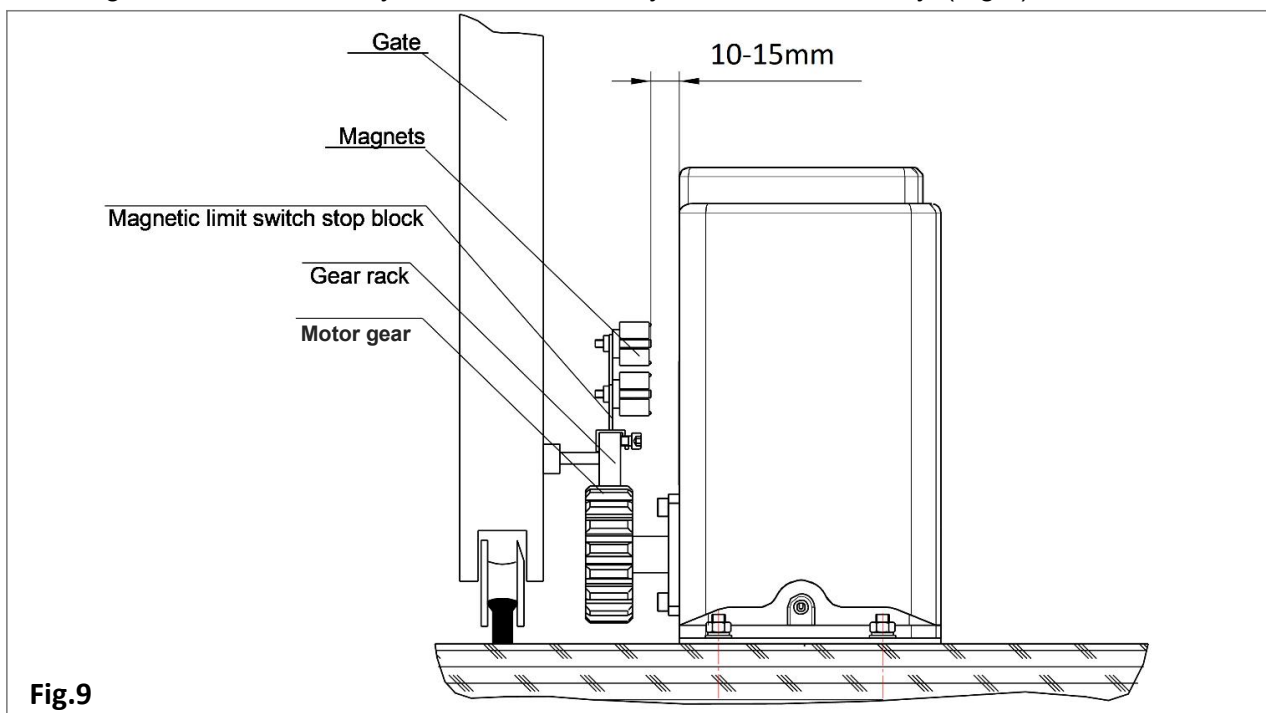


Fig.9

Important Notice for Magnet Installation

- If the motor is installed on the RIGHT side to open the gate (viewed from inside the gate), place the left magnet higher and the right magnet lower. **Make sure to turn the "Motor Rotation" on the PCBA to the RIGHT.** (Fig.10)

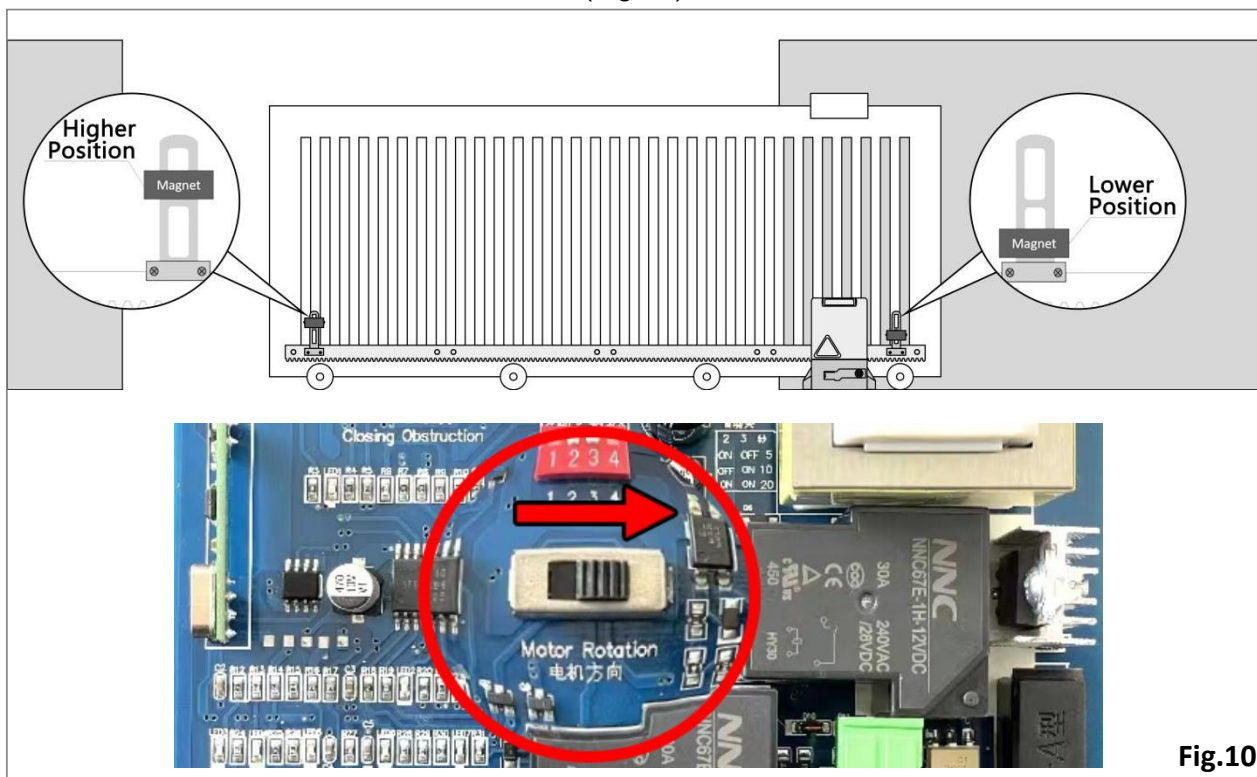


Fig.10

- If the motor is installed on the LEFT side to open the gate (viewed from inside the gate), place the left magnet lower and the right magnet higher. **Make sure to turn the "Motor Rotation" on the PCBA to the LEFT.** (Fig.11)

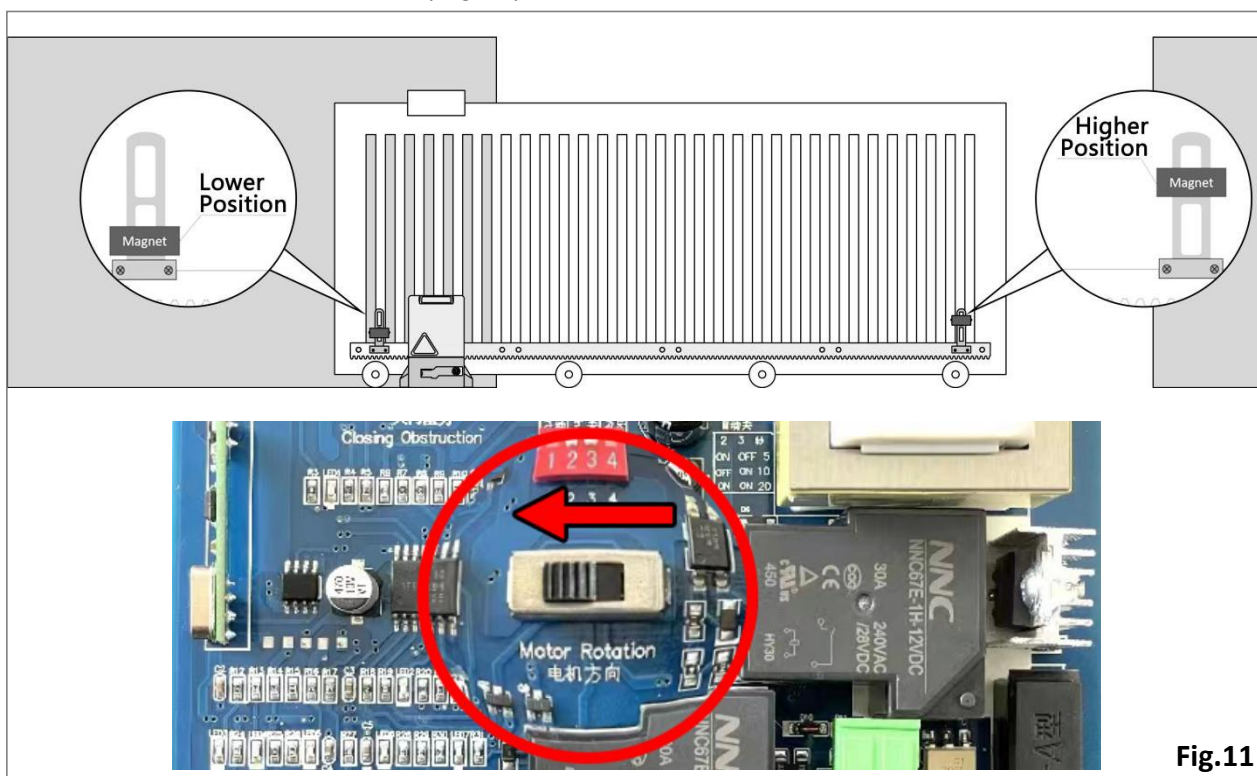


Fig.11

⚠ WARNING

- An earth leakage circuit breaker must be installed in a location where the gate's movement is clearly visible. Ensure that the minimum mounting height is 1.5m to prevent accessibility by children.
- Upon completing the installation, conduct a thorough inspection to assess the mechanical integrity. Confirm the gate's movement after manual unlocking is smooth and unhindered. Additionally, verify the correct and effective installation of the infrared sensor.

5.3 Auto-Close Function

This feature allows you to set a specific duration for the gate to remain open before it automatically closes. The auto-close time can be easily adjusted using the DIP-switch.

Auto-close time	5 seconds	10 seconds	20 seconds	Invalid
Switch 2	ON ↑	OFF ↓	ON ↑	OFF ↓
Switch 3	OFF ↓	ON ↑	ON ↑	OFF ↓

5.4 Limit & Motor Wiring Diagram (Fig.13)

- Please be informed that the wiring configuration located under the PCBA (Printed Circuit Board Assembly) of your gate opener is set to the default factory settings. These wiring connections are carefully designed to ensure the proper functioning and safe operation of your gate opener.
- We strongly advise against removing or rewiring any of the lines under the PCBA. Altering these wiring connections may lead to unexpected issues and malfunctions in the operation of the gate opener. If you encounter any wiring-related concerns or require adjustments, please refer to our user manual for proper guidance or contact our customer support for assistance.

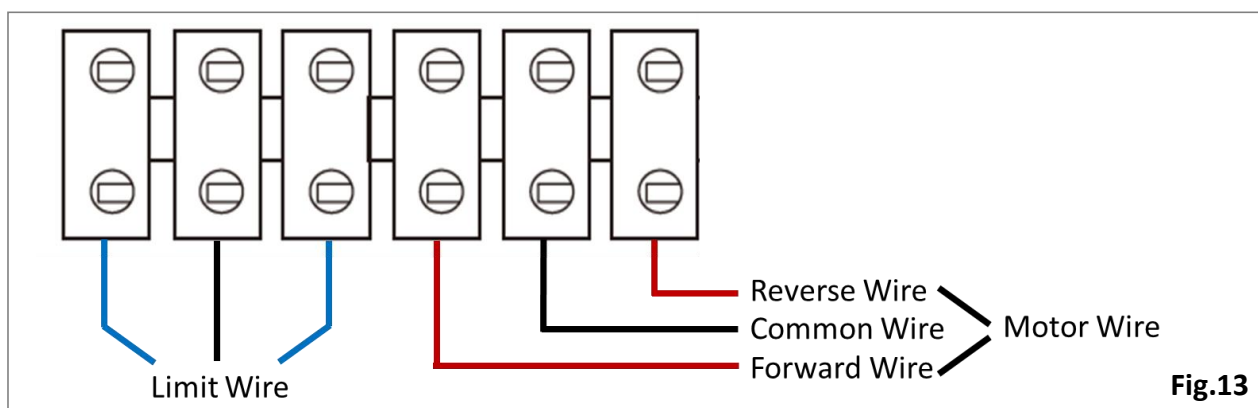


Fig.13

5.5 Power Supply Test

- Before using the gate opener, carefully check the power supply voltage and frequency to ensure they meet the requirements. Verify the grounding is adequate.
- Connect the gate opener to the power supply and start the unit.
- Observe the operation of the sliding gate to ensure it functions correctly.
- If needed, adjust the magnet position until the gate's opening and closing positions meet your requirements.

5.6 Over-Heating Protection

The device is equipped with a thermal protector. If it runs continually for an extended period of

time, the motor may get hot. When the motor temperature exceeds 234°F, the thermal protector will automatically stop it. The motor can be restarted after its temperature drops to a safe level.

5.7 Additional Installation Information

The controller has a power-off automatic memory function. The manufacturer performs a debugging test for limit detection before the products leave the factory. During installation, the gate needs to be pushed to the middle position.

6. Infrared Sensor Wiring (Fig.14)

- **Infrared Photocell Function:** During the gate's closing process, if the infrared ray between the photocell receiver and emitter is interrupted by people or objects within its detection range, the gate will halt immediately and open to ensure security protection.
- **Distance and Alignment:** To guarantee optimal induction and performance of the photocell, maintain a minimum distance of **6.6ft (2m)** between the photocell receiver and emitter.
- **Proper Wiring and Indication:** Ensure correct wiring configuration to achieve the desired results. When the power is correctly connected, the RED light should be illuminated. In the event of obstruction detection, the GREEN light should activate, triggering the sensor to prompt the gate's reversal.

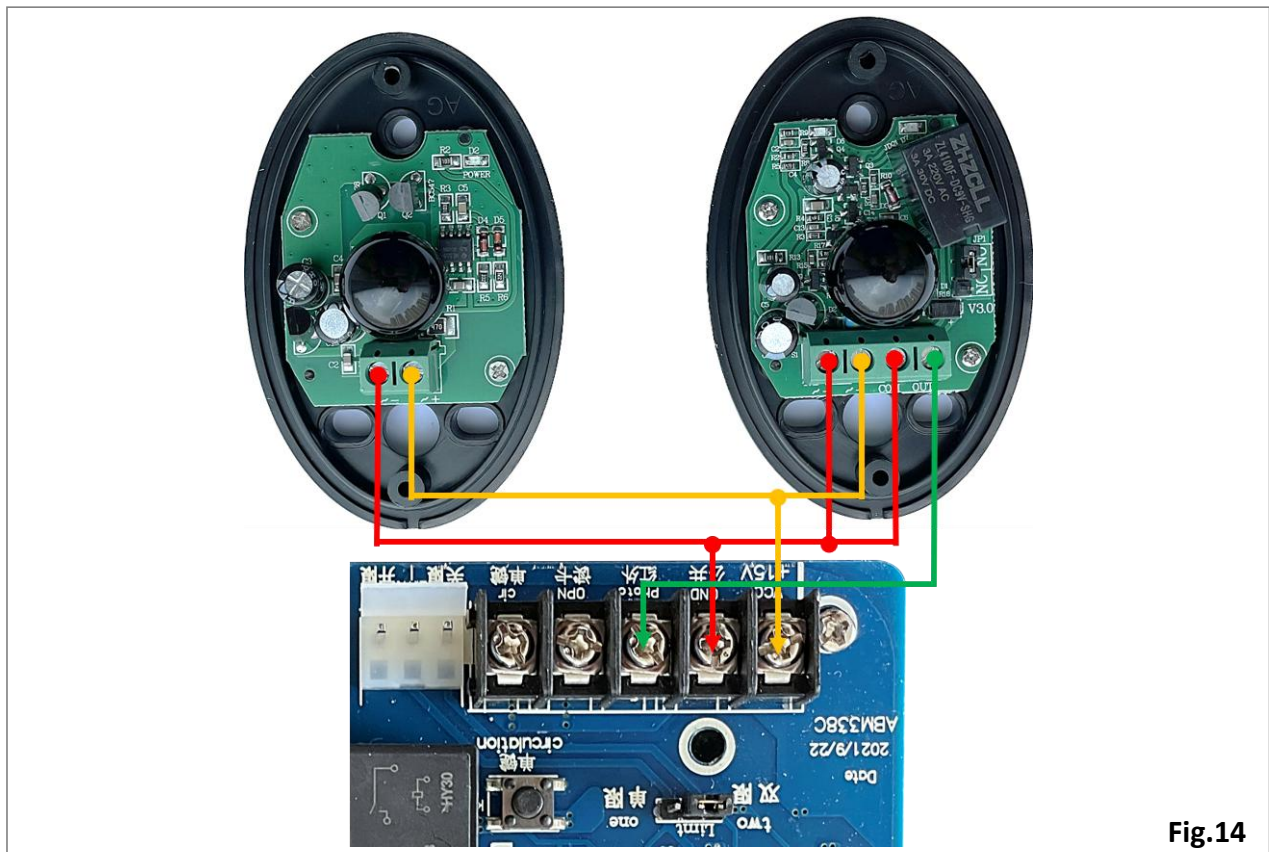
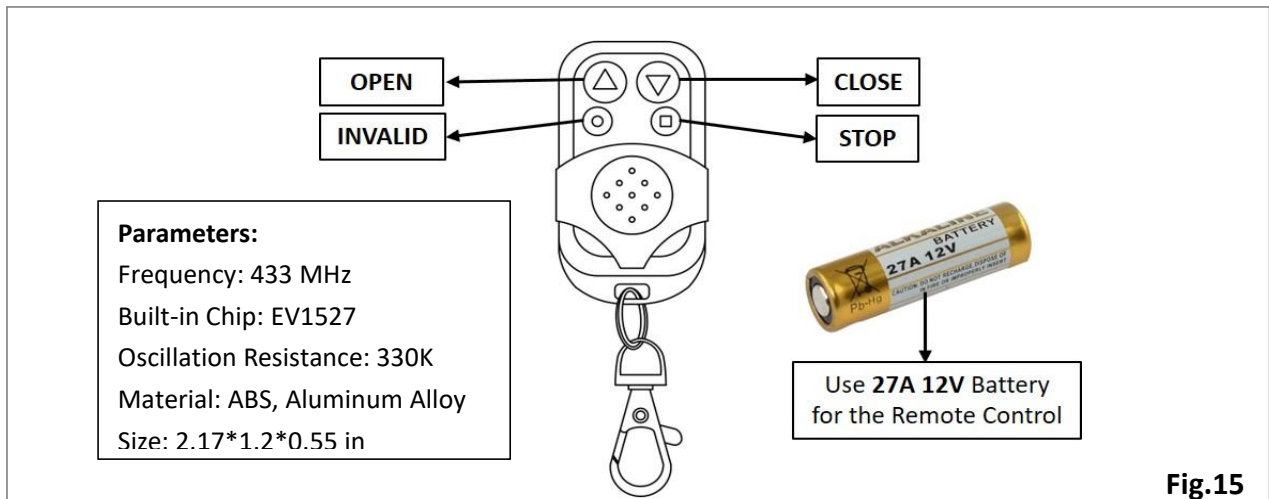


Fig.14

7. Remote Control Operation (Fig.11)

7.1 Remote Control Learning

- Press and hold the learning key on the main board (PCBA) for **2 seconds** until the red indicator light LED1 will be on.
- Press and hold any button on the remote control for 1 second to complete the coding. The indicator LED1 will flash several times to indicate successful learning.
- The remote control learning is now complete. You can pair up to 40 remote controls.



7.2 Remote Control Deletion

- Press and hold the learning key for **12 seconds**. The indicator LED1 will turn on, indicating the deletion process has started.
- Release the learning key when the indicator LED1 turns off. This indicates that all the matched remote controls have been successfully deleted.

7.3 Duplication of Keypad / Wall Remote / Antenna Remote

Blütezeit offers various remote controls, including keypad, wall remotes, and antenna remotes. These remotes are duplicators and copy codes from the original 4-key remote control; they don't directly learn codes from the gate opener. For step-by-step instructions on duplicating codes, refer to the video on their respective product pages.

MAINTENANCE

To ensure the smooth operation and longevity of the gate opener, regular maintenance is essential. Here are some important maintenance tasks:

- **Electrical Safety Check:** Periodically inspect and ensure that the operator is correctly earthed and properly terminated. Regularly check the electrical connections for any signs of damage, looseness, or moisture. If any issues are detected, they should be addressed promptly to maintain safe and reliable operation.
- **Lubrication:** Regularly grease the wheels and axles of the gate to ensure smooth movement. Before applying grease, always switch off the power and remove the cover to avoid any accidents. Proper lubrication reduces friction and prevents wear and tear on the moving parts.
- **Cleaning and Inspection:** Keep the gate opener clean at all times. Regularly inspect the entire system for any signs of wear, damage, or debris buildup. Ensure that all wires are intact and securely connected. If any wires are broken, they should be replaced or repaired immediately.
- **Anti-Rust Grease:** Apply a small amount of anti-rust grease to the end of the worm gear mandrel located in the manual release keyhole. This helps prevent rusting and ensures smooth operation of the manual release mechanism.
- **Grounding Check:** Regularly check the electrical grounding to ensure it is in good condition. Proper grounding is crucial for safety and ensures effective protection against electrical hazards.

FREQUENTLY ASKED QUESTIONS

Q1: Can I install the gate opener myself, or do I need professional help?

A1: While installation can be done by a skilled DIYer, it's recommended to involve a professional if you're not familiar with electrical and mechanical work.

Q2: What is the recommended length of the racks for gate installation?

A2: It's advisable to install the racks approximately 1 foot longer than the gate itself, allowing for the necessary space for gate opener installation.

Q3: Is it possible to install this gate opener on a slightly declining ground level?

A3: Yes, this gate opener can accommodate a slight decline in the ground level for installation. However, we recommend avoiding inclines, as the opener's performance may be compromised on an upslope, potentially causing difficulty in gate operation.

Q4: Can I add an external switch or timer relay for the gate opener?

A4: Yes, you can connect an external switch or timer relay by wiring terminals 2 (GND) and terminal 5 (cir) on the circuit board (PCBA). The sequence of switch control adheres to the single-key logic of "open-pause-close" regulations.

Q5: What's the function of the "Single Key Circulation" button on the circuit board?

A5: "Single Key Circulation" button allows you to control the gate with the open-pause-close sequence. Pressing the switch will "open" the gate, pressing it again will "pause" movement, and a third press will initiate the "close" action.

Q6: What's the difference between "Single Limit" and "Double Limit" on the circuit board?

A6: Single limit mode ("one" on PCBA) controls the gate with one limit switch, while double limit mode ("two" on PCBA) uses two limits for opening and closing. Blütezeit gate openers default to double limit mode. The limit switch module consist of upper and lower parts. Use single limit mode only if one switch is damaged, ensuring magnets align with the working limit.

Q7: Does the opener support battery hookup?

A7: The gate opener operates on AC power (AC110V) and doesn't support batteries. A UPS (Uninterruptible Power Supply) offering AC power may be used, ensuring compatibility and providing AC power during outages. Confirm with the seller that the UPS meets the requirements.

Q8: What to do in case of a power outage?

A8: The package includes two manual release keys to open the clutch of the gate opener. Disengage the clutch, and manually push the gate open or closed. This option ensures gate operation even without power.

Q9: Can I use just one remote to control both sides of a dual gate which opens from the middle and has two installed openers?

A9: Yes, Blütezeit offers a 6-key antenna remote that supports code duplication. You can replicate the codes from the provided 4-key remotes of the two gate openers onto the 6-key remote. This setup enables you to control both openers from a single remote, giving you the option to open or close either side of the dual gate as needed.

Q10: Can I add a keypad or other remote controls from other brands?

A10: Only remote controls operating at 433MHz are compatible with Blütezeit gate openers. Use other brands' remotes at your own risk. Blütezeit offers various remote controls, including keypad, wall remotes, and antenna remotes, in our store. For step-by-step instructions on duplicating codes, refer to the video on their respective product pages.

Q11: Will the motor halt if the gate encounters an object along its track?

A11: Absolutely, our gate opener is equipped with an infrared sensor that detects obstacles, ensuring that the gate halts and reverses immediately upon detection. This prevents any physical contact between the gate and the object or person. If the infrared sensor occasionally misses an object, you can tailor the rebound response by tweaking the "Closing Force", which is set by default to its maximum value, you can customize the rebound resistance to suit your gate's weight. To activate this adjustment, simply press down on DIP switch "4," allowing the forcing adjustment to be activated. Then, on the PCBA, rotate the "Closing Force" knob. This ensures that the gate will halt and reverse if it touches an object, adding an extra layer of safety.

Q12: What should I do if I encounter a problem that's not covered in the user manual?

A12: If you encounter any issues not addressed in the manual, feel free to reach out to our customer support via blutezeit.service@outlook.com or through Amazon messaging. Provide photos or videos of the issue along with your order number for efficient assistance.

TROUBLE SHOOTING

No.	Problems	Possible Reasons	Solutions
1	The power indicator is OFF.	a. No 110V power input. b. Fuse is burned. c. Socket not properly inserted. d. Circuit board power wiring problem.	a. Check the power supply circuit. b. Check and replace the fuse if burnt. c. Rewire according to the diagram.
2	Motor doesn't work.	d. No power supply. e. Fuse is burned. a. Overload. b. Thermal protection triggered. c. Limit switch is damaged. d. Wire is broken, loose or disconnected.	a. Check the power supply. b. Replace the fuse. c. Check for obstacles in the gate track. d. Wait for 20 minutes and turn on. e. Replace the limit switch. f. Correctly connect the wire.
3	Motor rotates but doesn't work.	a. Clutch pressure spring invalid or lacks elasticity. b. Clutch disengaged. c. Friction clutch pressure spring invalid or loose.	a. Check, adjust, or replace the pressure spring. b. Ensure proper clutch alignment. c. Adjust or replace the spring pressure.

4	Power Indicator is ON, but pressing OPEN and CLOSE button doesn't move the gate.	a. The clutch is not closed. b. The circuit board is damaged due to short circuit or severe overload of external devices.	a. Close the clutch. b. Contact after-sales service team for a replacement or solution.
5	Gate can open but not close, or can close but not open.	a. Limit switch is damaged. b. Controller or motor issues.	a. Replace the limit switch. b. Check for open circuits.
6	Gate stops automatically before reaching limit switch or does not stop upon reaching the module.	a. Short circuit or open circuit in the limit switch wiring. b. The limit switch is too far from the magnet block. c. Limit switch damaged.	a. Check the wiring and rectify as needed. b. Move the limit switch closer to the magnet. c. Replace the limit switch.
7	Cannot limit the gate position.	a. Sensor switch distance too far. b. Incorrect sensor switch position. c. Magnet loss or wrong position. d. Limit switch damaged.	a. Adjust the position and wiring as per diagram. b. Check for open circuits. c. Place the magnet correctly. d. Replace the sensor switch.
8	Manual clutch failure.	a. Clutch handle damaged. b. Incorrect rotation direction. c. Clutch binding.	a. Replace the clutch handle. b. Rotate in the correct direction. c. Rotate the output gear leaf correctly.
9	Remote control distance becomes shorter.	Low battery.	Replace the battery with a new one (27A/12V).
10	Power indicator on the infrared sensor is ON, GREEN indicator lights up when OPEN button is pressed. But the gate halts and reverses when CLOSE button is pressed.	a. Short circuit of the infrared probe wire. b. Infrared probe is damaged.	a. Check the wiring to identify and rectify any short circuit issues in the probe wires. b. Replace the infrared probe if it's found to be damage.
11	Both the motor and infrared sensor are functioning, but when the infrared sensor detects obstacles, the gate doesn't reverse; instead, it continues to close.	Motor rotation is wrongly set.	Rotate the "Motor Rotation" button in the direction that corresponds to the gate's opening direction based on the left or right installation position of the opener.

WARRANTY

Warranty Information

Blütezeit provides a comprehensive warranty for this gate opener to the original purchaser with proof of purchase. The warranty period covers a duration of **ONE YEAR (1)** from the date of purchase and protects against defects in materials, parts, or workmanship.

Warranty Coverage

1. **Technical Support:** We offer dedicated technical support to assist you with any issues related to the gate opener at any time.
2. **Faulty Parts Replacement:** In the event of any faulty parts, we will promptly replace them within the limited time period from the date of purchase.
3. **Exchange or Return:** If the product experiences any quality issues within one month from the date of purchase, you can avail yourself of an exchange or return option.
4. **Efficient Customer Service:** Our team is always available to address your concerns. Please contact us at blutezeit.service@outlook.com or through Amazon messages. For a quick resolution, kindly provide photos or videos that clearly show the problem, along with your order number.

Items Excluded from Warranty

The warranty does not cover the following scenarios:

1. Failure due to the use of improper tools or unauthorized repair procedures.
2. Damage caused by unauthorized or inappropriate disassembly of the product.
3. Use of non-supplied or modified parts/components.
4. Damage due to abnormal voltage, improper installation, improper use, or connection to an inappropriate power source.
5. Damage resulting from external factors such as fire, lightning, wind, flood, insects, or other natural agents.
6. Inoperability caused by misuse, commercial use, abuse, neglect, accidents, improper maintenance, or alteration.
7. Failure to operate or maintain the product correctly as outlined in the user manual.
8. Normal wear and tear, routine maintenance items such as lubricants, and normal deterioration of the exterior finish due to use or exposure.
9. Please note that Blütezeit does not cover any shipping, freight, or transportation fees associated with the return or replacement unless it is directly related to a quality issue.

We value your satisfaction and stand behind the quality of our products. Rest assured that we are committed to providing you with reliable and efficient solutions. If you have any further questions or need assistance, please do not hesitate to contact us. Your trust in our products is essential, and we are dedicated to ensuring your positive experience with Blütezeit.

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Blütezeit Sliding Gate Opener

Bring you more conveniences.

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