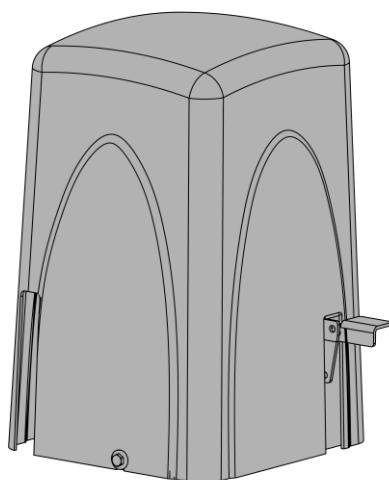


TOPENS®

LC1100

Installation Manual

For sliding gate installation



Installation Video



The opener can be powered by AC electricity ONLY.

CONTACT US

For Technical Support and Installation Assistance

Visit our website at www.topens.com and fill out the online form

Alternatively, you can send an email to our service team at support@topens.com

To ensure prompt and effective assistance, kindly include the following information in your email:

- **Where Did You Purchase?** _____
- **Order Information** _____
- **Your Contact Information** _____
- **Gate Information (Weight and Length)** _____
- **Did You Purchase Any Accessories? (If Yes, Please List Them)** _____
- **Issue Description (Include Any Relevant Photo or Video)** _____

For Warranty Registration

To register your warranty, please visit www.topens.com

If you have any questions regarding what is covered by the TOPENS warranty, refer to the detailed policy at www.topens.com/pages/topens-limited-warranty.

Email Us: support@topens.com

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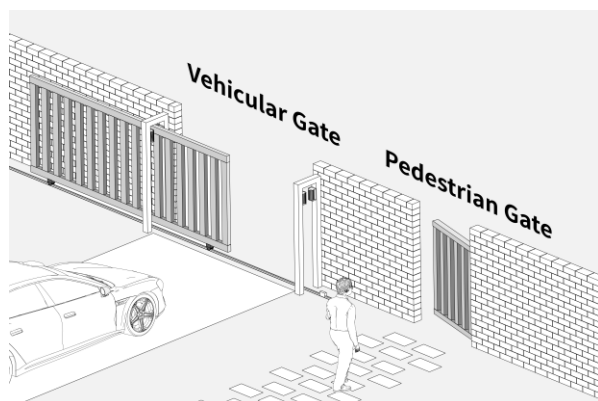
Important Safety Information

Thank you for choosing the TOPENS LC1100 sliding gate opener. When installed correctly and used properly, your opener will offer years of reliable service.

This manual is designed to guide you through the proper installation of your LC1100 sliding gate opener. Please carefully review all instructions before commencing the installation and operation of this automatic gate opener.

Before Installation

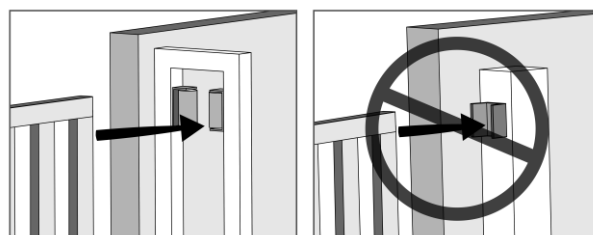
- ◆ **GAIN UNDERSTANDING OF THE INSTALLATION PROCESS:** Please read this installation manual or view our online installation video before installing the gate opener.
- ◆ **LOCAL INSTALLATION COMPLIANCE:** Prior to installation, please verify that your planned installation complies with all relevant local building codes and ordinances. Dispose of packaging materials in accordance with local regulations.
- ◆ **SEPARATE PEDESTRIAN ACCESS:** The gate opener is intended for installation only on gates used for vehicles. Pedestrians should use a separate entrance to avoid contact with the moving vehicular gate.



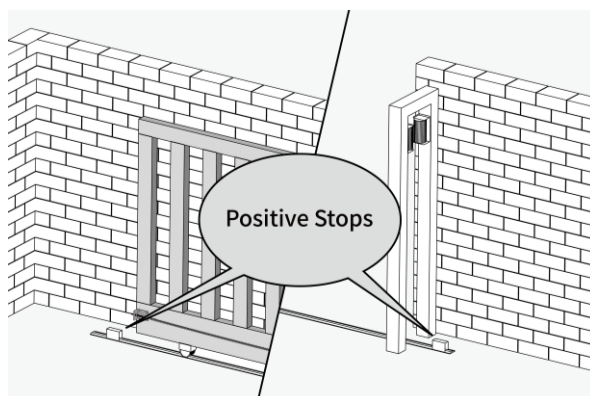
- ◆ **SLIDING GATE PREPARATION:** Ensure that the gate is plumb, level, and slides smoothly in both directions without binding or dragging on the ground. Wheels and guide rollers should rotate easily and be free of dirt or grime. Confirm that the gate track is straight, horizontal, and firmly

affixed. Secure the fence posts in the ground with concrete. Repair or replace all worn or damaged gate hardware prior to installation.

- ◆ **POST OR WALL PROTECTION:** Avoid using the post or wall as a stopping mechanism, either directly or indirectly. This precaution helps protect the post or wall from potential damage due to the impact of the sliding gate.



- ◆ **POSITIVE STOPS:** Positive stops must be installed at each end of the gate track to assure that the gate does not exceed its limit of travel and derail while opening or closing fully.



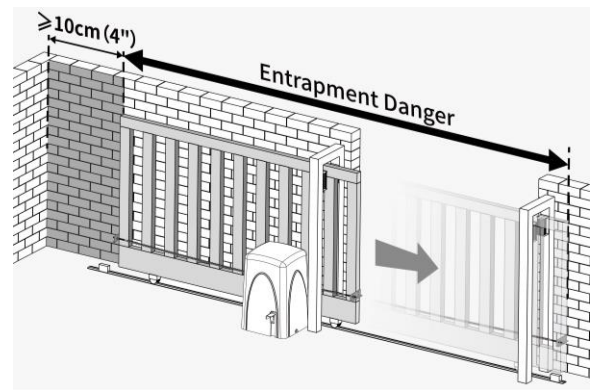
Important Safety Information

During Installation

- ◆ **INSTALLER AND END USER RESPONSIBILITY:** An experienced installer should perform the installation. Improper installation may result in property damage, severe injury or death. The gate opener is only part of the entire gate operating system, and it is the responsibility of the installer and end user to ensure that the total system is safe for its intended use.
- ◆ **DISCONNECT THE POWER SUPPLY:** Ensure that the gate opener is powered off before electrical wire connections or making any adjustments.
- ◆ **INSTALLATION POSITION:** Only install the gate opener on firm, level ground and on the inside of the property or fence line. Ensure there is sufficient clearance between the gate and adjacent structures when opening and closing to minimize the risk of entrapment. Avoid installing it on the outside of the gate where the public has access to it. Avoid installing it in areas prone to flooding or in locations exposed to flammable or explosive fumes.
- ◆ **INSTALL SAFETY SENSOR:** The gate opener is designed to stop or reverse the gate when the gate comes in contact with an obstruction. It is highly recommended to install the included TC102 infrared photocell sensor in the following situations for safety: if you have children or pets at your property, the gate opener auto close function is set to ON, the gate opener stall force is set to the maximum, a vehicle exit

sensor is installed, or other gate control devices are used.

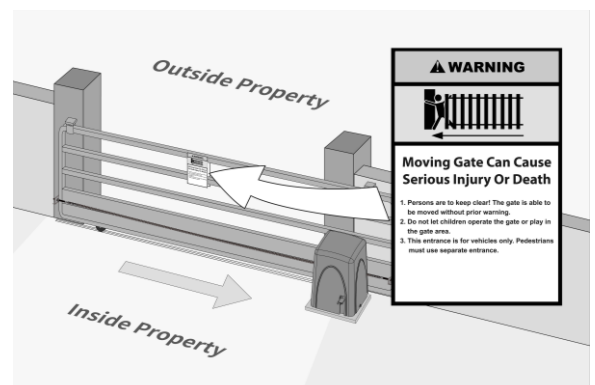
- ◆ **ENTRAPMENT ATTENTION:** Ensure when the gate is fully open, the end of the sliding gate keeps at least 10cm (4") away from any walls or objects. Exercise caution around moving parts and avoid approaching areas where fingers or hands could get caught. Always keep children, pets and livestock clear of the gate and its path of travel. Never cross the path of a moving gate.



- ◆ **GATE CONTROL ACCESSORIES PLACEMENT:** Gate control accessories intended for user activation must be located at least 1.5 meters (5') away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.

After Installation

- ◆ **WARNING SIGNS:** Attach the provided warning signs to both sides of the gate in highly visible locations to alert the public about the automatic gate opener system. If your signs are damaged or missing, please reach out to TOPENS Customer Support for replacements.



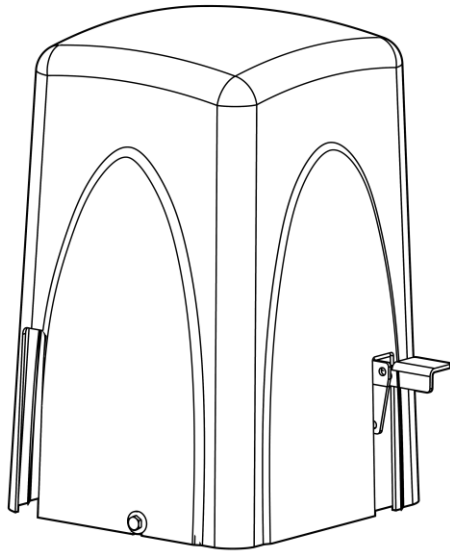
Important Safety Information

- ◆ **AWAY FROM MOVING GATES:** Keep children, pets and livestock away from the gate opener system as moving gates can be dangerous.
- ◆ **SECURE GATE CONTROL ACCESSORIES:** Prevent children from operating or playing with gate controls by keeping remote transmitters, keypads, and push buttons out of their reach. Store in a secure area when not in use.
- ◆ **MAINTENANCE OF GATE OPENER SYSTEM:** Keep the gate properly maintained and its track free of grime and debris. Periodically check that it slides smoothly under manual operation and tighten any loose hardware as needed. Turn off the power to the gate opener before performing any maintenance.
- ◆ **OBSTRUCTION PROTECTION TESTING:** Test the gate opener monthly. The gate must stop or reverse on contact with a rigid object or when an object activates the non-contact sensors. After adjusting the stall force or limit travel, retest the gate opener. Failure to adjust and retest the gate opener properly can increase the risk of injury or death.
- ◆ **POWER DISCONNECTION AND MANUAL OPENING:** Understand how to disconnect the power and manually open the gate. Disconnect the gate opener from the gate only when the gate is not in motion and the gate opener system is turned off.
- ◆ **RECOGNIZE POTENTIAL RISKS IN AUTOMATED GATE SYSTEMS:** Save the installation manual. Make sure everyone who is using or will be around the gate and gate opener are aware of the dangers of automated gate systems. If a replacement manual is needed, you can download a copy from the TOPENS website (www.topens.com).

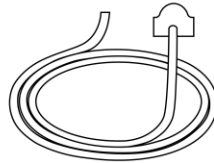
Note For Warranty

- ◆ **WARRANTY LIMITED TO TARGET MARKET:** The warranty is limited to the target market (Contiguous United States, Canada, UK, and Germany). Customers using the product outside these regions will be responsible for any additional expenses during the warranty replacement process.
- ◆ **GATE OPENER ABUSE:** TOPENS does not cover damage resulting from abuse, such as attempting to operate the gate opener beyond its specified capacity or using it for unintended purposes.
- ◆ **GATE OPENER MISUSE:** TOPENS does not cover damage resulting from misuse, including but not limited to operating the gate opener with incompatible power sources or using it in environments not recommended by TOPENS.
- ◆ **ALTERATIONS OR MODIFICATIONS:** Alterations or modifications made to the gate opener without prior consultation with TOPENS will also invalidate warranty coverage.
- ◆ **NON-COMPLIANCE WITH INSTRUCTIONS:** Failure to follow the installation instructions, including but not limited to improper installation, maintenance will void the warranty.
- ◆ **THIRD PARTY ACCESSORIES:** TOPENS does not cover damage caused by third party accessories, except those specifically recommended by TOPENS Customer Support. It is important to use only compatible accessories to ensure compatibility and prevent damage to the gate opener.
- ◆ **CONTACT TOPENS SUPPORT:** Please ensure that the gate opener is installed, operated, and maintained in accordance with the guidelines outlined in the installation manual to avoid voiding the warranty. If you have any questions regarding proper usage or need assistance with compatible accessories, please contact TOPENS Customer Support for guidance.
- ◆ **DETAILED WARRANTY POLICY:** If you have any questions regarding what is covered by the TOPENS warranty, refer to the policy at www.topens.com/pages/topens-limited-warranty.

Packing List



Gate Opener



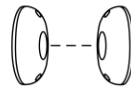
Power Cord



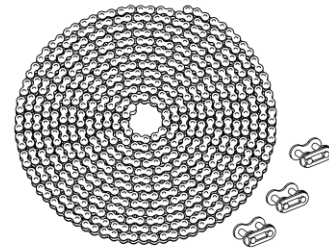
Remote Control



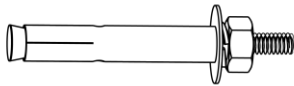
Warning Sign



TC102 Infrared Photocell Sensor



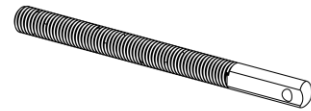
#41 Roller Chain 6m (20 feet) & Master Link



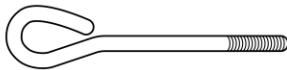
Expansion Bolt (4)



"L" Bracket (2)



Chain Bolt (2)



Anchor Bolt (4)



Φ10 Lock Washer (8)

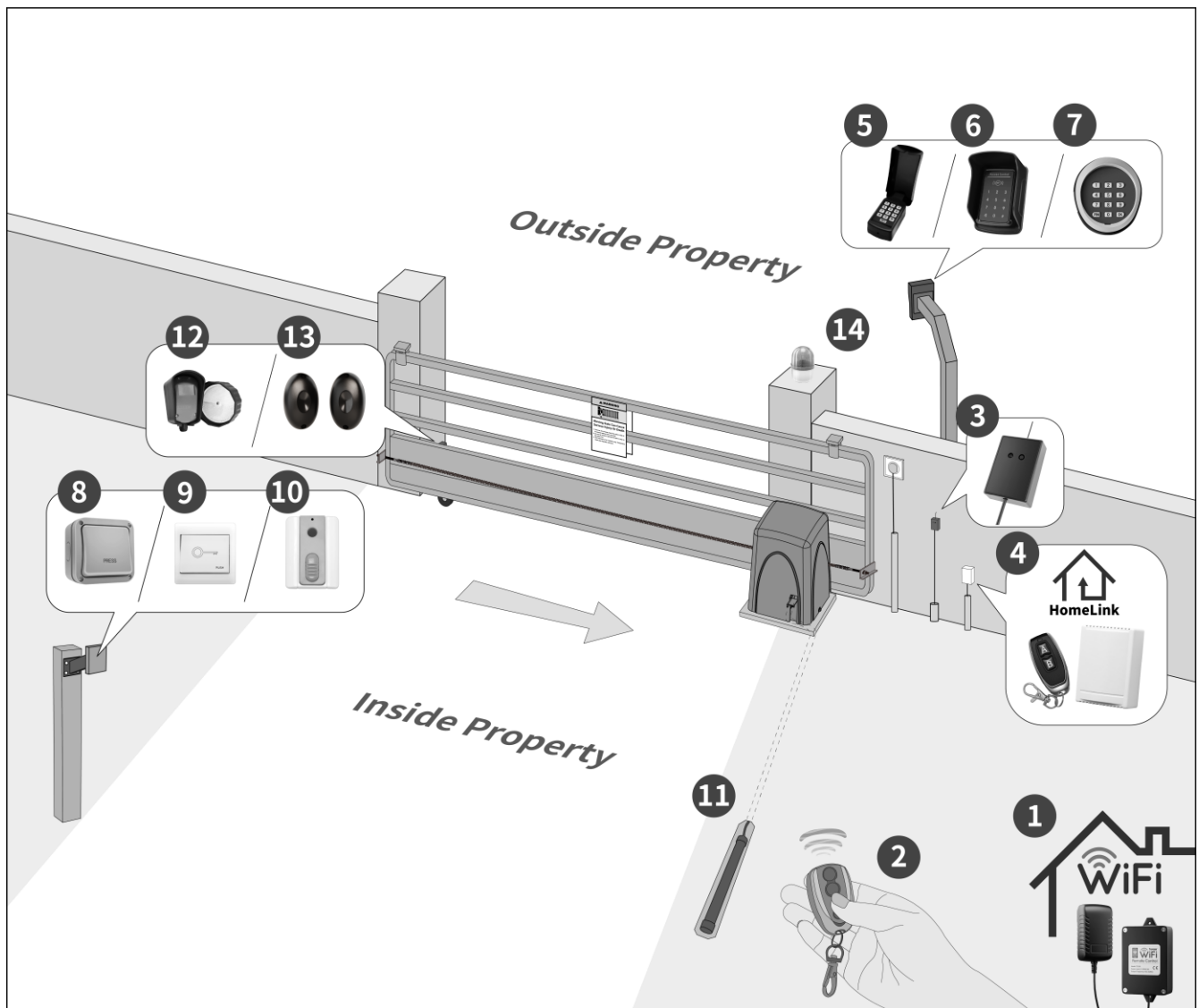


Φ10 Plain Washer (8)



M10 Hex Nut (8)

Installation Overview



Various TOPENS Accessories for Your Gate Opener System

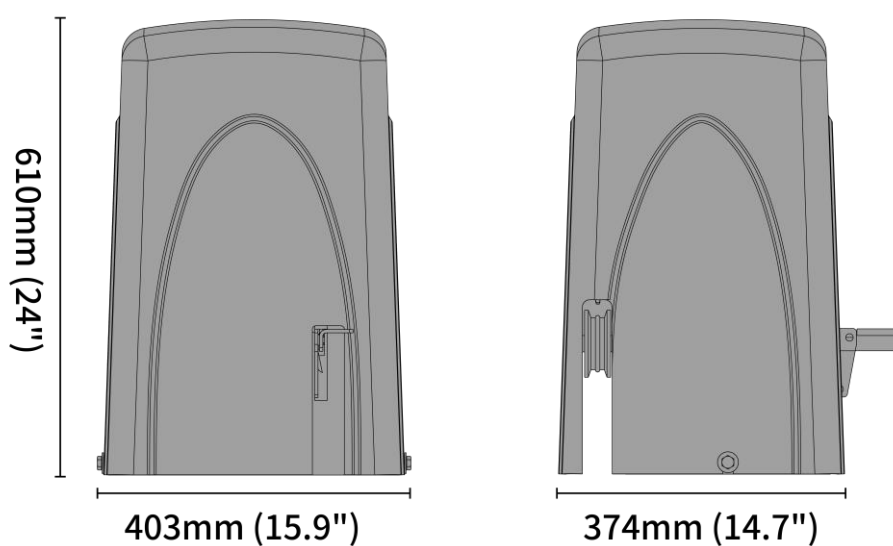
① TC196 WiFi Remote Control	⑧ TC148 Waterproof Wall Push Button
② M12 Remote Control	⑨ TC147 Wall Push Button
③ ERM12 External Receiver	⑩ TC173 Wireless Push Button
④ HLR01 Homelink Remote Control Kit	⑪ TEW3 Vehicle Sensor Exit Wand
⑤ TC188 Universal Keypad	⑫ TRF3 Reflection Photocell Sensor
⑥ TC175P Wired Keypad	⑬ TC102 Infrared Photocell Sensor
⑦ TKP3 Wireless Keypad	⑭ JD110VY Warning Light

* Available on the TOPENS website (www.topens.com) and Amazon.

Specifications

Product Model	LC1100
Power Input	110-120VAC/60Hz
Motor Voltage	120VAC
Motor Power	550W (3/4 HP)
Gate Moving Speed	24 cm/s (9.4 in/s)
Max Gate Weight	1300kg (2800lbs)
Max Gate Length	13.7m (45ft.)
Working Temperature	-20°C ~ +50°C (0°F to 120°F)
Protection Class	IP44 Waterproof
Sound Level	< 50 dB

Overall Dimensions



Before You Begin

Check the Gate

- ◆ Ensure that the gate is plumb, level, and slides smoothly in both directions without binding or dragging on the ground.
- ◆ Confirm that the gate track is straight, horizontal, and firmly affixed, with positive stops installed at each end.
- ◆ Make sure the gate wheels and guide rollers rotate freely and are clean of dirt or grime.
- ◆ Ensure that the fence posts are securely set in concrete.
- ◆ Repair or replace all worn or damaged gate hardware before installation.

Tools Needed

- ◆ Power Drill
- ◆ Portable Electric Welder
- ◆ Tape Measure
- ◆ Level
- ◆ Hammer
- ◆ Open End Wrenches - 14# & 17# or Adjustable Wrenches
- ◆ Wire Strippers
- ◆ Hex Key Wrench
- ◆ Phillips Screwdriver
- ◆ Slotted Screwdriver

Items Not Included but May Needed

- ◆ **PVC Conduit:** Required to protect the cable connecting TC102 infrared photocell sensor to the control board.
- ◆ **Connection Cable:** Connection cable may be required for installing wired accessories and connecting the master gate opener and slave gate opener in a dual gate opener system. Refer to the Connection of Accessories and Dual Gate Opener System Setup sections in this manual to purchase the correct cable.
- ◆ **Weatherproof Cover:** Use a weatherproof cover to protect the electrical outlet if it is located outdoors.
- ◆ **GFCI Breaker:** If your main power supply panel does not have a GFCI breaker (not included), it is highly recommended to install one before connecting the gate opener to the power supply. Use a 10A GFCI breaker for single gate opener and a 20A GFCI breaker for dual gate opener.
- ◆ **Surge Protector:** A surge protector with a rated current of 15A is recommended to use with the power cord.

Install Photocell Sensor

- ◆ It is highly recommended to install the included TC102 infrared photocell sensor in the following situations for safety: if you have children or pets at your property, the gate opener auto close function is set to ON, the gate opener stall force is set to the maximum, a vehicle exit sensor is installed, or other gate control devices are used.

Installation

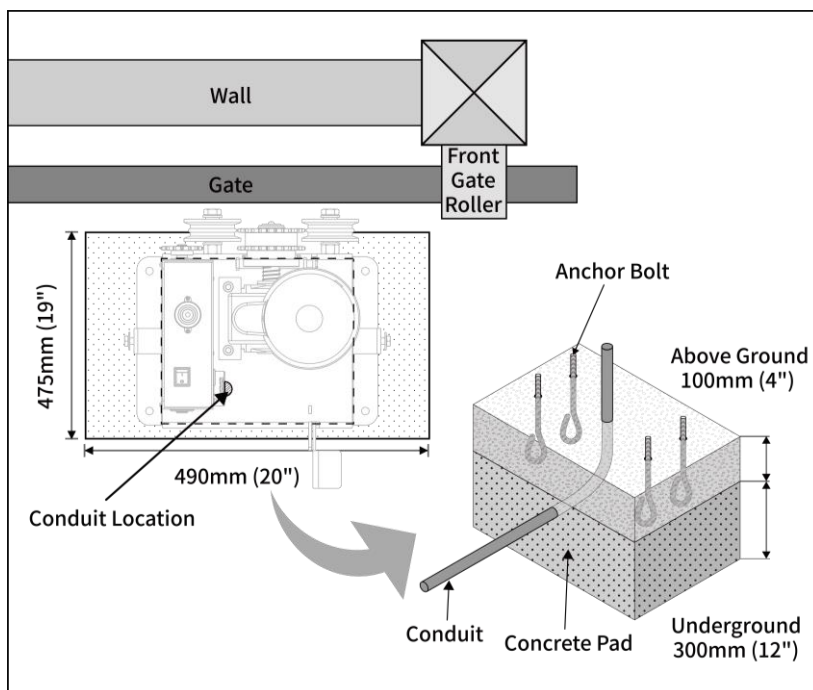
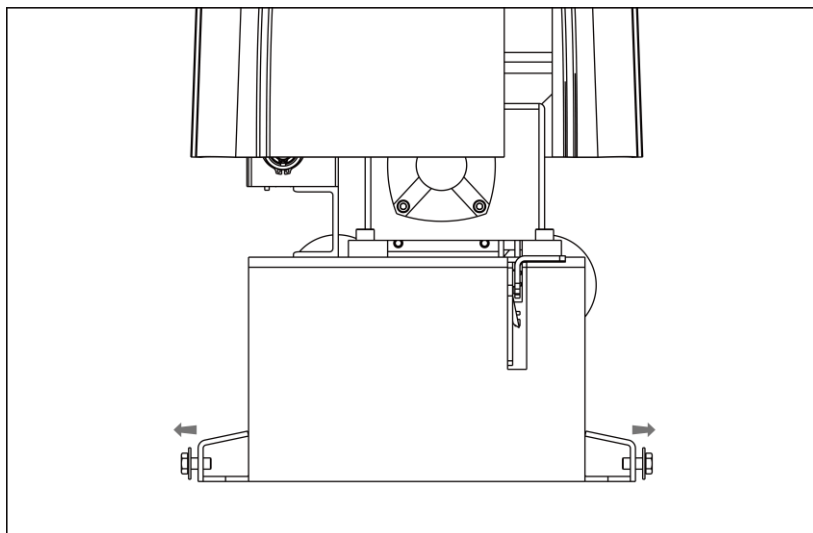
CAUTION

- ◆ *The gate opener is heavy, you may need an extra person to assist with installation.*
- ◆ *Ensure that the opener is installed in a level and parallel position and is securely fastened.*
- ◆ *Improper installation may result in property damage, severe injury, and / or death.*

STEP 1

Lay out the Concrete Pad

- ◆ Unscrew the two cover screws located on each side of the motor casing to remove the casing.
- ◆ Dig a hole for a concrete pad near the front roller of the gate.
- ◆ The dimensions of the concrete pad should be at least 490 x 475 x 400mm (20" x 19" x 16").
- ◆ Install the electrical conduit.
- ◆ Pour the concrete pad.
- ◆ You can choose either anchor bolts or expansion bolts to secure the gate opener.
- ◆ **USE ANCHOR BOLTS TO SECURE:** Insert the four anchor bolts into the concrete before it sets. Make sure they align perfectly with the mounting holes on the opener base.
- ◆ **USE EXPANSION BOLTS TO SECURE:** After pouring the concrete pad, allow it to set before proceeding to STEP 2.
- ◆ Ensure that the pad surface is perfectly level and parallel to the driveway.
- ◆ Increase the pad height if necessary to protect the system from flooding, heavy snow, etc.

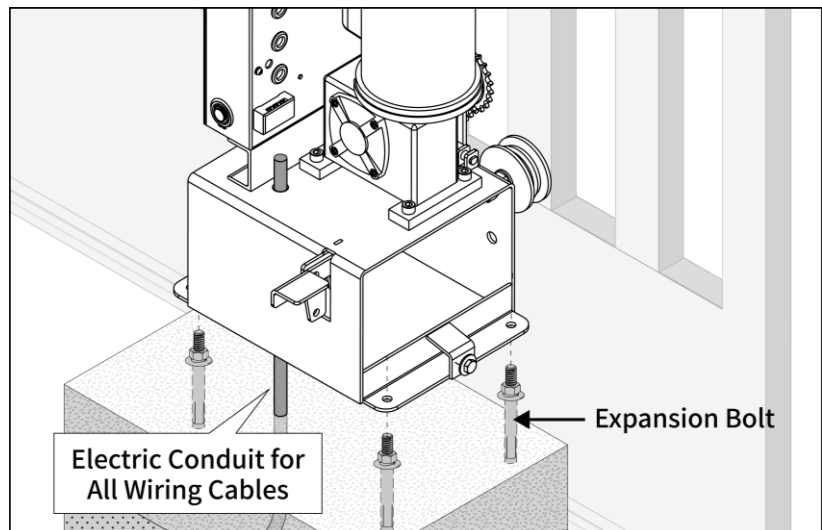
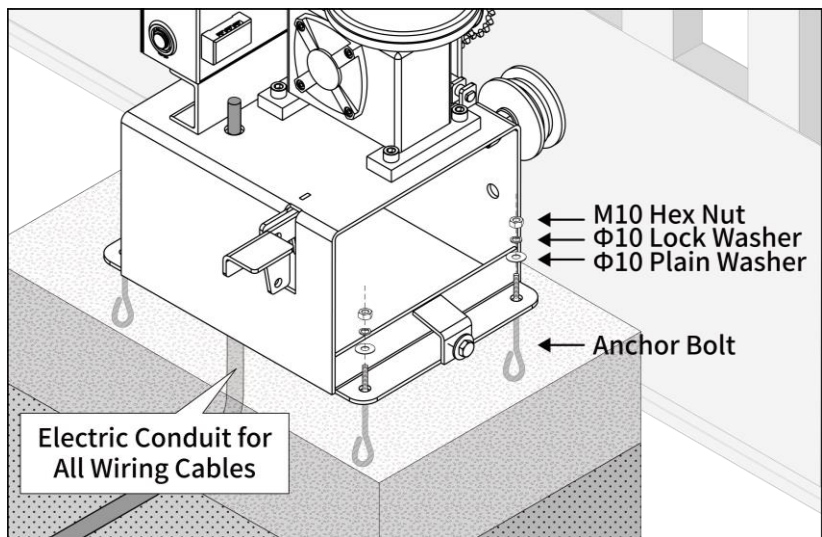
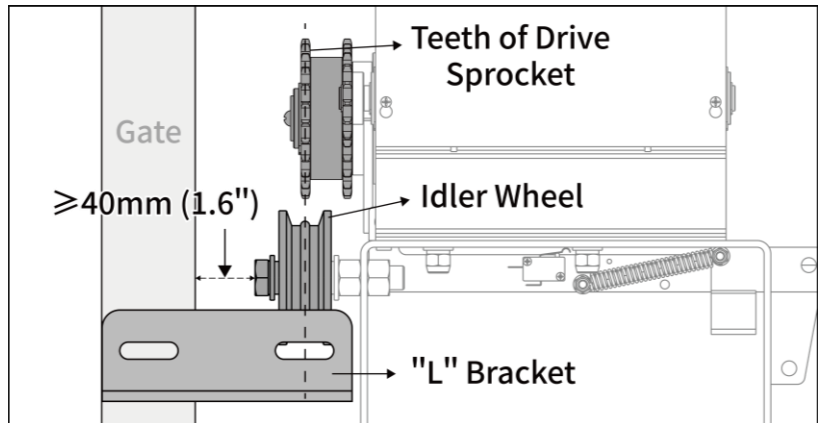


Installation

STEP 2

Determine the Position of the Opener and Install the Opener

- ◆ Position the opener on the concrete pad.
- ◆ Attach the "L" bracket to the left side of the gate. Adjust the opener's position until the teeth of the drive sprocket are vertically aligned with the hole in the "L" bracket.
- ◆ Push the gate to the right and attach the "L" bracket to the right side of the gate. Adjust the opener's position until the teeth of the drive sprocket are vertically aligned with the hole in the "L" bracket.
- ◆ Ensure that there is at least 40mm (1.6") of clearance between the idler wheels of the opener and the gate.
- ◆ **USE ANCHOR BOLTS TO SECURE:** Attach the opener to the concrete pad, ensuring that it is perfectly parallel to the gate. Secure it to the anchor bolts with M10 Hex Nuts, Φ 10 Lock Washers, and Φ 10 Plain Washers.
- ◆ **USE EXPANSION BOLTS TO SECURE:** Mark the locations for the four expansion bolts based on the mounting holes on the base plate. Drill the holes with a 14mm (0.55") masonry bit. Firmly secure the base plate to the concrete pad with the expansion bolts.

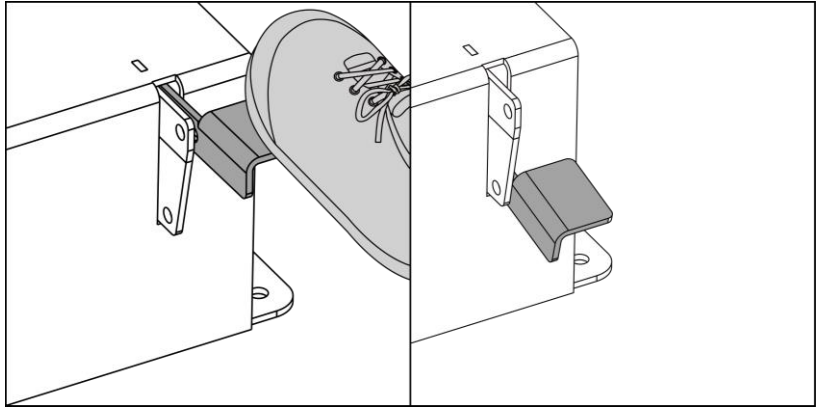


Installation

STEP 3

Disengage the Clutch

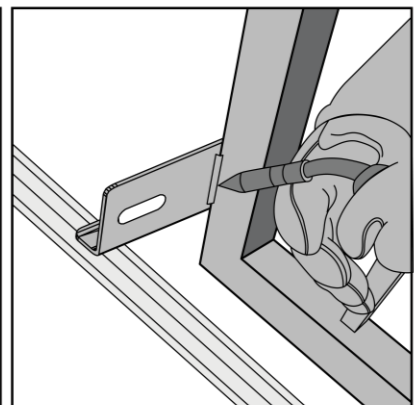
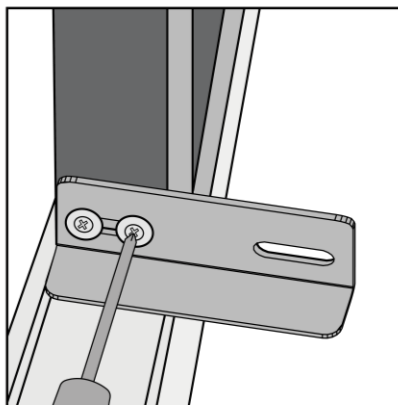
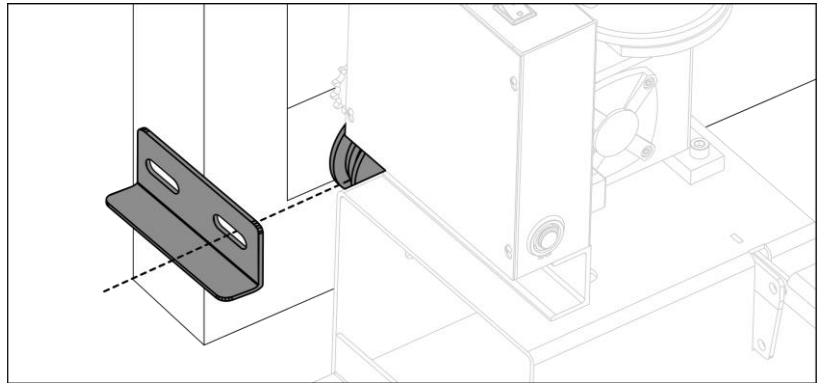
- ◆ Press down firmly on the foot pedal with your foot to disengage the clutch between the gear shaft and the motor. Keep the pedal fully secured in the bottom position.
- ◆ The gate opener is now in manual mode, allowing you to open the gate by hand freely. Once the clutch is disengaged, power to the gate opener will be cut off simultaneously.



STEP 4

Secure the Chain Brackets

- ◆ Ensure that the bottom of the idler wheel is aligned with the hole in each side of the "L" brackets.
- ◆ Secure the "L" bracket at or near each end of the inside gate (opener side) with screws (NOT included) or weld the brackets on the gate.

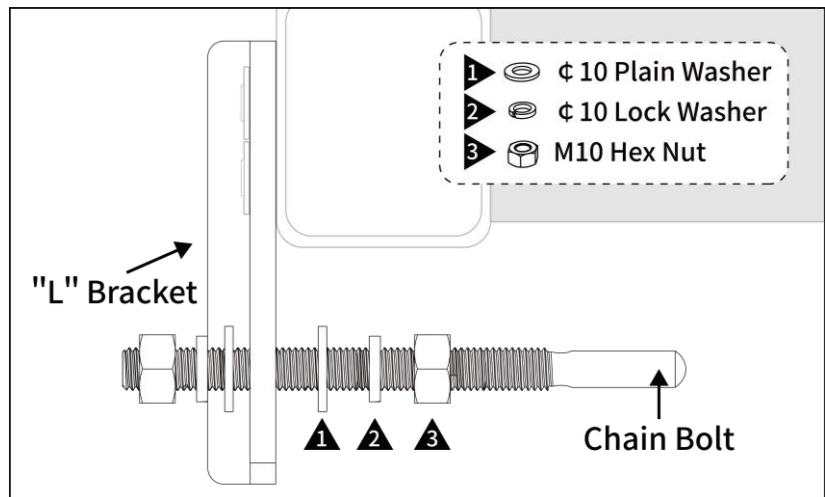


Installation

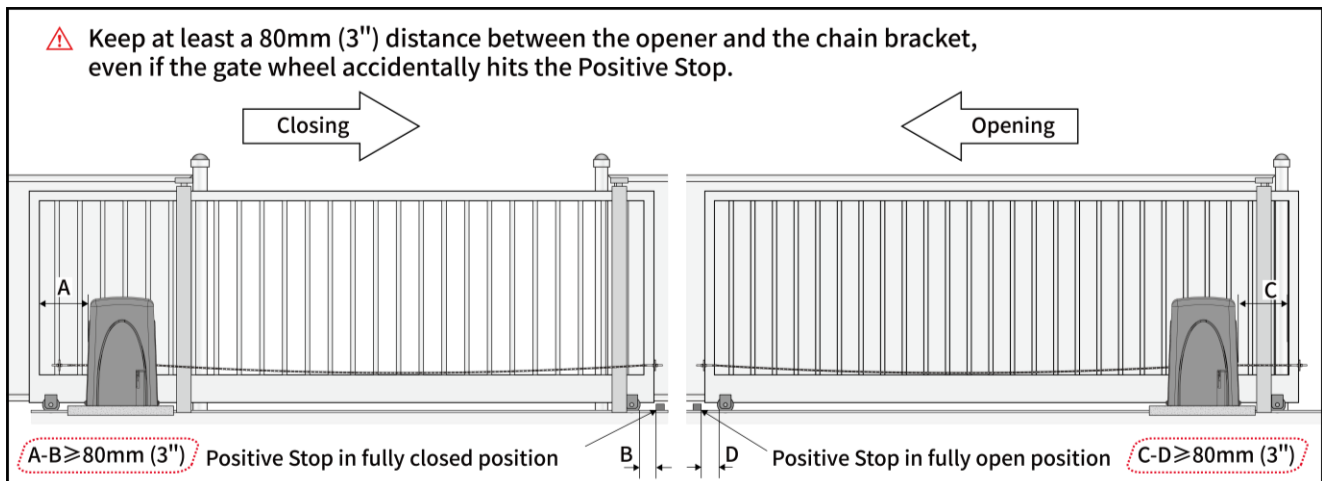
STEP 5

Attach the Chain Bolt to the Chain Bracket

- ◆ Attach the chain bolt to each side of the "L" bracket with $\phi 10$ Plain Washers, $\phi 10$ Lock Washers, and M10 Hex Nuts.



CAUTION: Once the positions of the opener and chain brackets are determined, double-check the safety distance between them to ensure that they do not collide, even if the gate wheel accidentally hits the positive stop. Reinstall the positive stop if necessary.

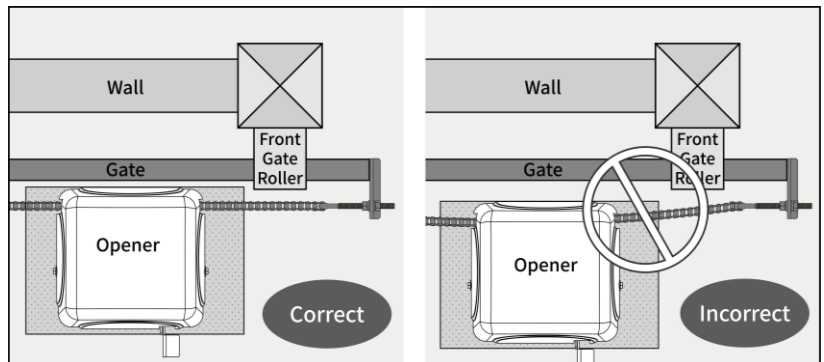
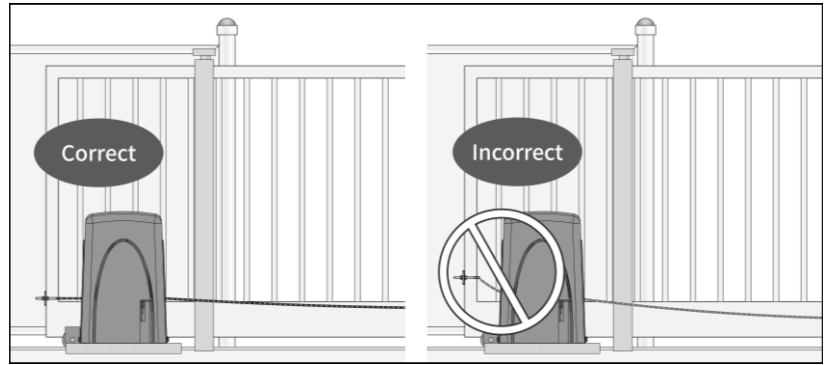


Installation

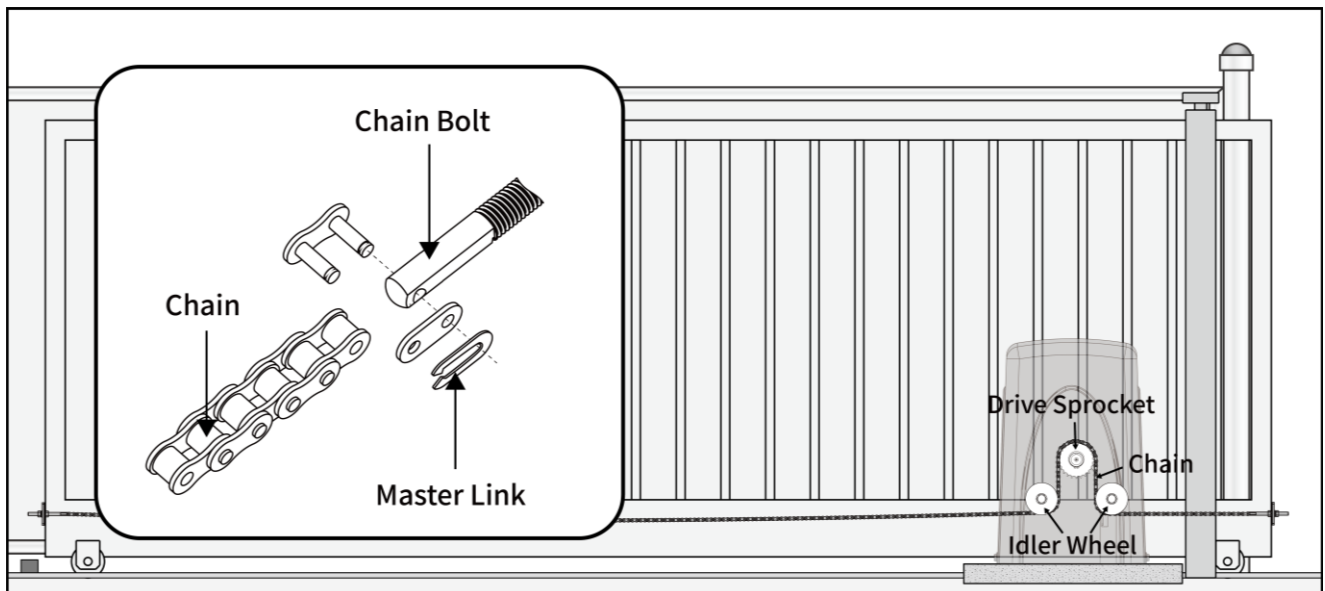
STEP 6

Fit the Chain

- ◆ Connect one end of the chain to one side of chain bolt with the master link.
- ◆ Route the chain through the opener.
- ◆ Cut any excess chain and connect the end to the other side of the chain bolt with the master link.
- ◆ Set the appropriate chain tension by adjusting the chain bolts at both ends. The chain should be neither too tight nor too slack.
- ◆ Manually open and close the gate to ensure that it moves smoothly with the chain installed.



NOTE: Applying anti-rust oil to the chain will help prevent rust.



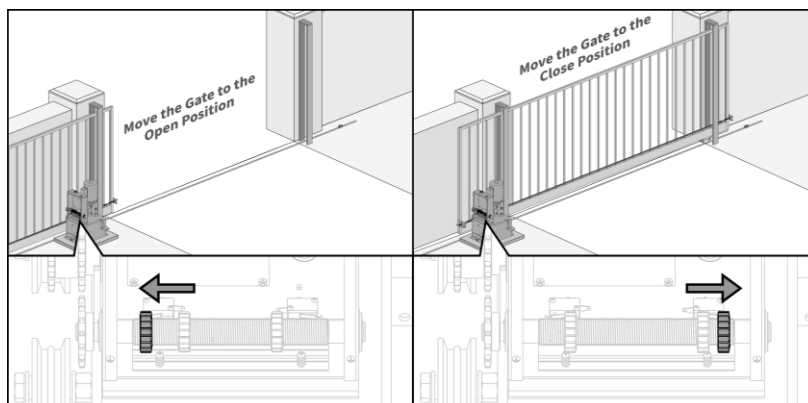
Installation

STEP 7

Roughly Adjust the Open & Close Limit Positions

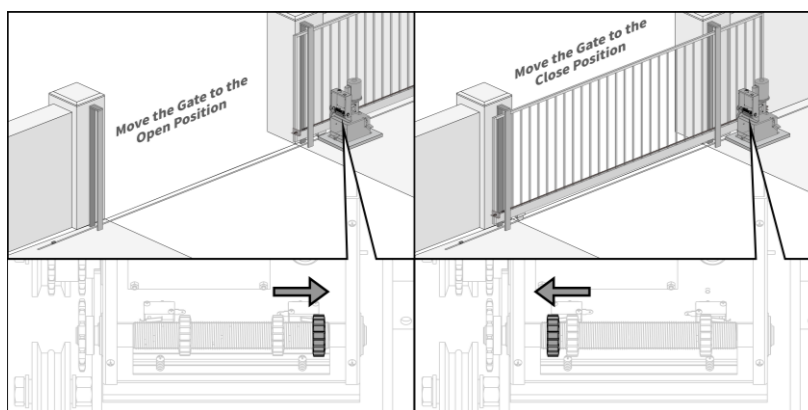
◆ FOR LEFT OPEN GATE:

Manually open the gate to the desired open position. Depress the spring loaded bracket with a screwdriver and turn the left adjustment nut until you hear a “click” sound. Manually close the gate to the desired close position. Depress the spring loaded bracket and turn the right adjustment nut until you hear a “click” sound. Leave some space at both ends of the gate between the gate opener and the chain bolt for buffering.



◆ FOR RIGHT OPEN GATE:

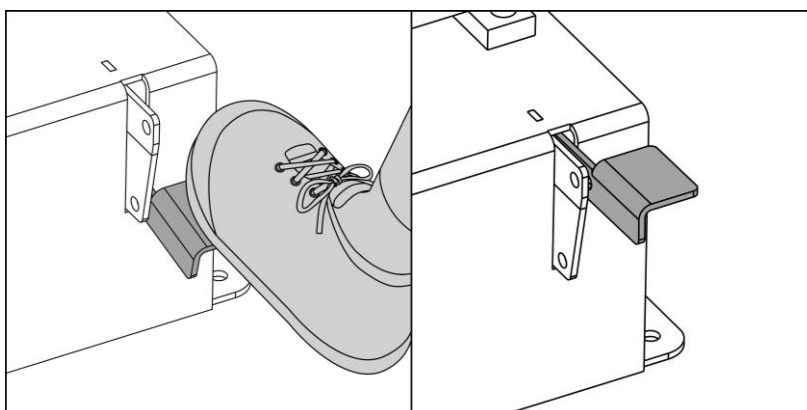
Manually open the gate to the desired open position. Depress the spring loaded bracket with a screwdriver and turn the right adjustment nut until you hear a “click” sound. Manually close the gate to the desired close position. Depress the spring loaded bracket and spin the left adjustment nut until you hear a “click” sound. Leave some space at both ends of the gate between the gate opener and the chain bolt for buffering.



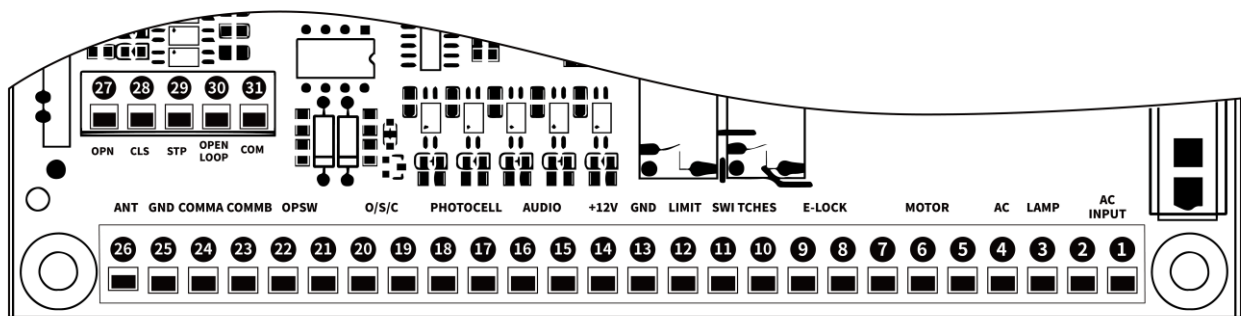
STEP 8

Engage the Clutch

- ◆ Lightly kick the pedal to the right and allow it to spring upward.
- ◆ Ensure that the pedal returns to its original position.

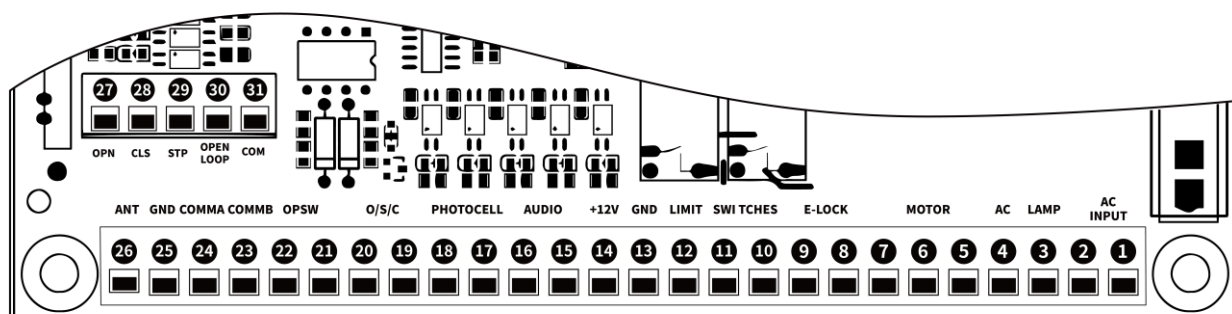


Terminal Function of the Control Board



Terminal	Function
①② “AC INPUT”	AC input terminals for the control board and the terminals are pre-connected at the factory.
③④ “AC LAMP”	Output terminals for a warning light, directly connected to the warning light, providing the same voltage as the mains supply during gate operation, causing the warning light to flash. Ensure that the warning light has a rated voltage matching the motor voltage and a rated current of less than 1A.
⑤⑥⑦ “MOTOR”	Output terminals for motor control, connected to the white, red and blue wires of the motor, respectively.
⑧⑨ “E-LOCK”	Output terminals for 12VDC electromagnetic lock. Connect the positive input of the lock to terminal “9” and negative input of the lock to the terminal “8” .
⑩⑪⑫ “LIMIT SWITCHES”	Input terminals for limit switch, connected to the yellow, green and blue wires of the limit switch, respectively.
⑬ “GND”	Provide 12VDC voltage output to power the accessories, with a maximum current of 100mA.
⑭ “+12V”	
⑮⑯ “AUDIO”	Output terminals for 12VDC audio alarm buzzer. Connect the red wire of the buzzer to terminal “15” and the black wire of the buzzer to terminal “16” .
⑰⑱ “PHOTOCELL”	Receive signal input from a photocell sensor, operating on a normally closed (NC) input basis, connected to “COM” and “NC” terminals of the sensor respectively. Note: The terminals have been shorted with a wire jumper at the factory.
⑲⑳ “O/S/C”	Control gate operation through a normally open dry contact signal input, commonly connected to push button, wired keypad, and external receiver for cyclic gate operation (open/stop/close/stop).
㉑㉒ “OPSW”	Accept signal input of the gate opening, usually connected to the normally open output of a vehicle sensor.
㉓ “COMMB”	Communication terminals between the master and slave gate opener, connected to the corresponding terminals on the control board of the slave gate opener directly.
㉔ “COMMA”	

Terminal Function of the Control Board



Terminal	Function
②⑤ “GND” ②⑥ “ANT”	Terminals for external antenna. If the antenna is a single core cable, it should be connected to terminal “ANT” directly. If the antenna has a shielding layer, the shielding layer should be connected to terminal “GND” .
②⑦ “OPN” ③① “COM”	Control gate operation through a normally open dry contact signal input, typically connected to a push button to open the gate.
②⑧ “CLS” ③① “COM”	Control gate operation through a normally open dry contact signal input, typically connected to a push button to close the gate.
②⑨ “STP” ③① “COM”	Control gate operation through a normally open dry contact signal input, typically connected to a push button to stop the gate.
③⑩ “OPEN LOOP” ③① “COM”	Control gate operation through a normally open dry contact signal input, typically connected to a loop detector to open the gate. The gate will not close when activating any control device (e.g., remote control, push button, etc...) if the two terminals are shorted.

NOTE: For terminal wiring, remove the terminal from the control board and unscrew the terminal screws using a screwdriver. Insert the wire into the terminal, tighten the screws to secure the wire, and then reattach the terminal to the control board.

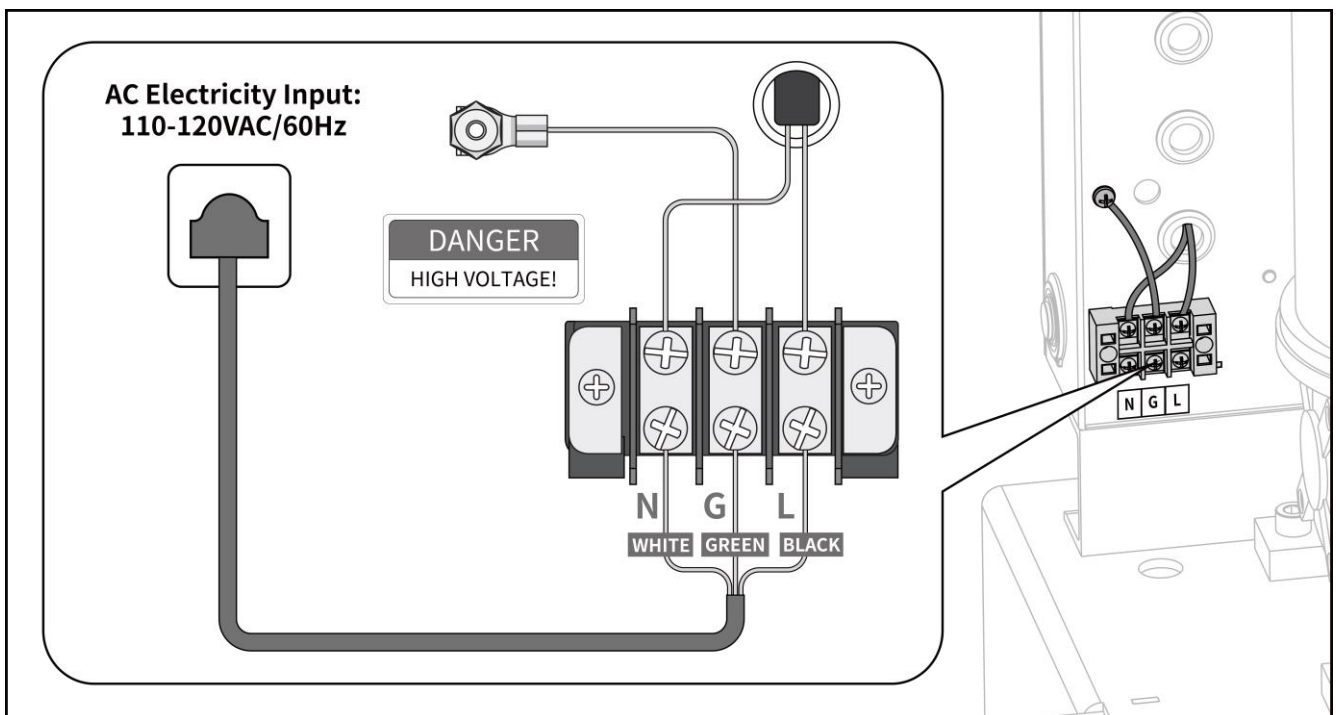
Connection of Power Supply

WARNING

- ◆ A professional electrician is required for wire connection to avoid the risk of injury, electric shock, or death. NEVER connect the gate opener to an electrical outlet before all the installations have been done.
- ◆ If your main power supply panel does not have a GFCI breaker (not included), it is highly recommended to install one before connecting the gate opener to the power supply. Use a 10A GFCI breaker for single gate opener and a 20A GFCI breaker for dual gate opener.
- ◆ It is recommended to use a surge protector with a rated current of 15A with the power cord. Protect the electrical outlet with a weatherproof cover if it is located outdoors.

The gate opener is powered by AC electricity ONLY.

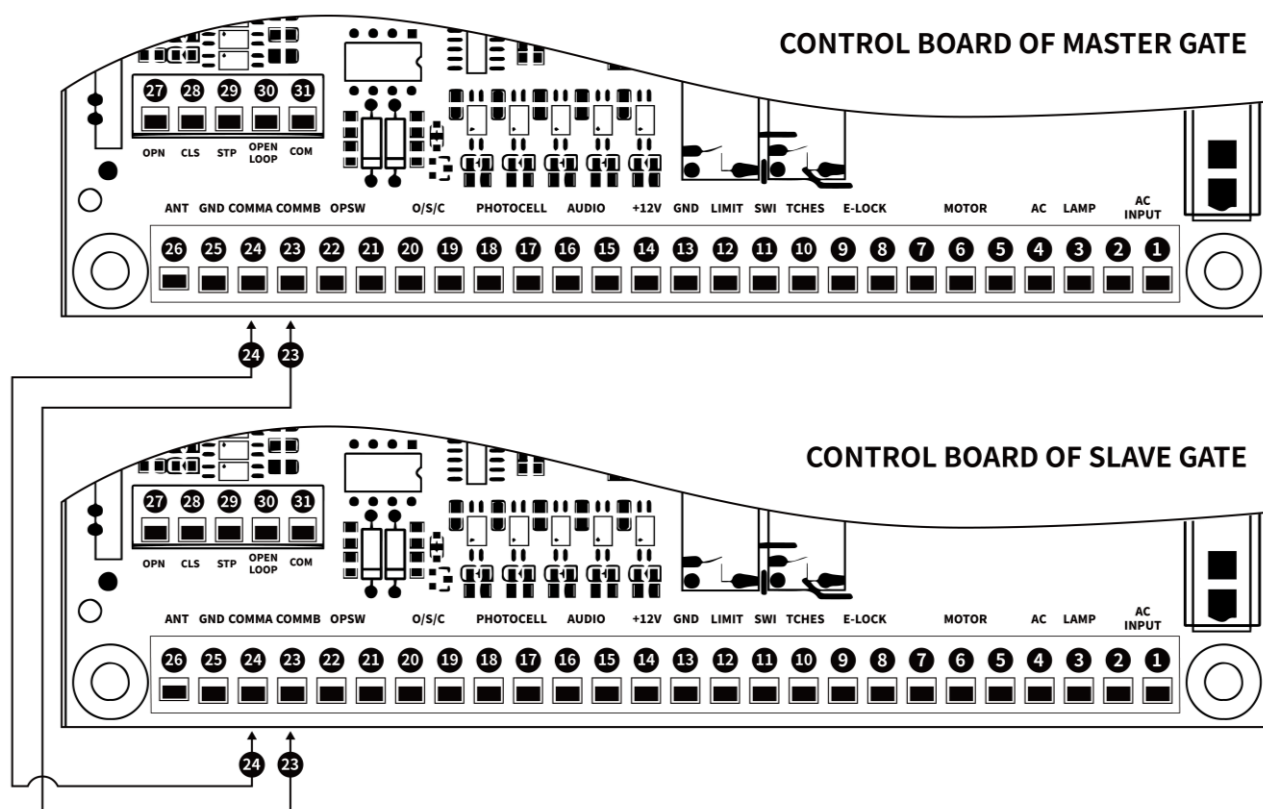
- ◆ The power cord specification should be at least $3C \times 2mm^2$ (14AWG) for single gate opener. For dual gate opener, the wire size should be at least $3C \times 5mm^2$ (10AWG).
- ◆ Connect the live wire (black) and neutral wire (white) of the power cord to the gate opener terminal “L” and terminal “N”, respectively. And connect the earth wire (green) to “G” .
- ◆ Plug the power cord into an electrical outlet.



Dual Gate Opener System Setup

Connection between the Master and Slave Gate Opener

In a dual gate opener system, the slave gate opener is controlled by the master gate opener. To enable communication between them, connect the slave gate opener to the master gate opener using a 2-core shielded twisted-pair wire, minimum wire size is 2C x 0.5mm² (20AWG). Refer to the following illustration for proper connection.



NOTES:

- ◆ The maximum distance between the master and slave gate openers should not exceed 30 meters (100 feet).
- ◆ Both the master and slave gate openers should be powered on simultaneously to initiate dual-gate operation.

Dual Gate Opener Configuration and Accessory Connection

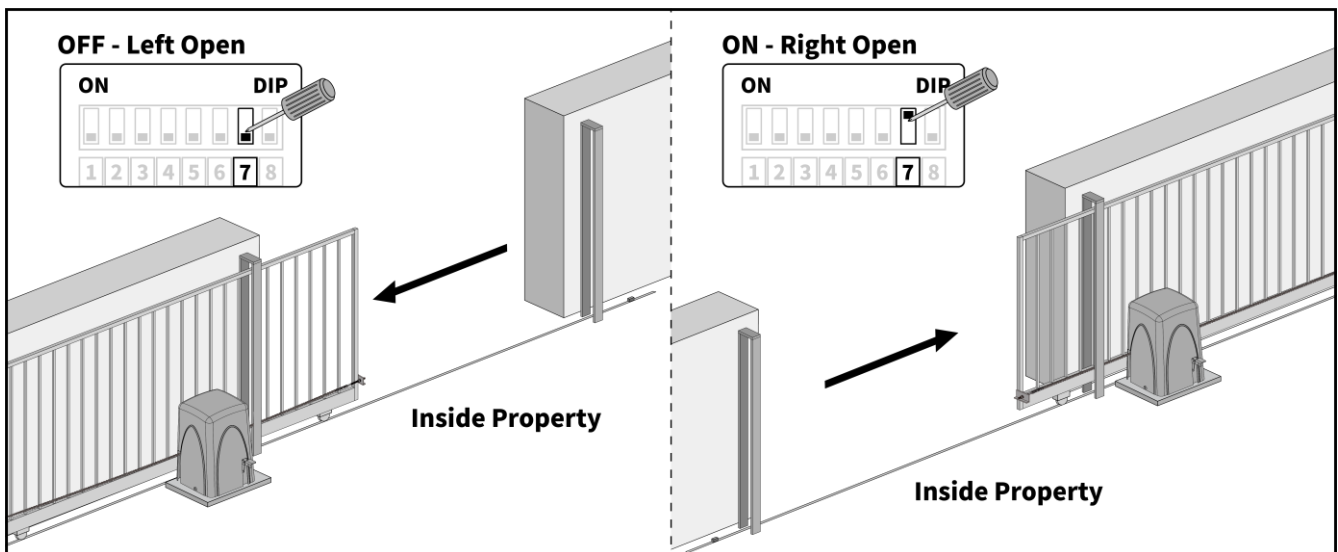
For a dual gate opener system, set DIP Switch #1 on the control board to **ON** for the master gate opener and to **OFF** for the slave gate opener. Refer to the **Setting of the Control Board** section for detailed instructions.

Connect all accessories to the control board of the master gate opener and program all wireless accessories with it, as the master gate opener controls the entire system.

Setting of Left / Right Open

WARNING

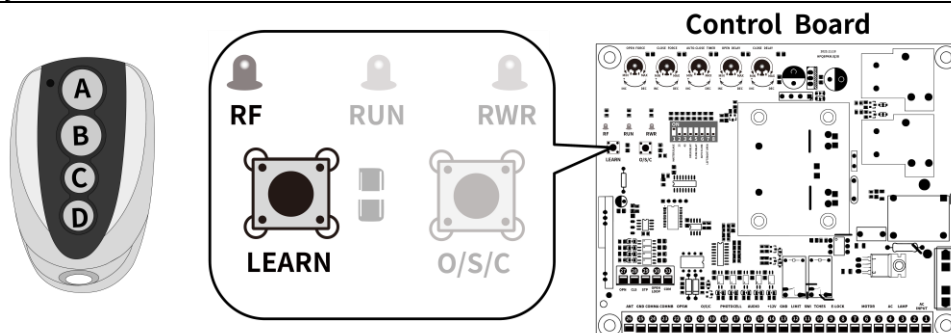
- ◆ Before operating your gate opener, ensure that the Left / Right Open setting on the control board matches the opening direction of the gate.
- ◆ If the opener is installed on the left side of the driveway and the gate opens to left, set the opener to **Left Open**. If the opener is installed on the right side of the driveway and the gate opens to right, set the opener to **Right Open**.
- ◆ Please refer to the DIP Switch Settings section for detailed instructions.



Program the Remote Control

NOTES

- ◆ *Keep the gate movement area free of obstructions, and ensure children, pets and livestock stay away from the gate opener system while the gate is in motion.*
- ◆ *If you lose any remote control, please erase and reprogram all remaining remote controls for safety.*



Function of the Remote Control Button

- ◆ Each remote has four buttons, from top to bottom are separately A, B, C and D.
- ◆ For the sliding gate opener, button A is used to be programmed with the gate opener for standard operation. Once button A is programmed, button B automatically activates midway mode to partially open the gate for quick passage. If the midway mode function is disabled, button B functions the same as button A. Buttons C and D can be programmed separately to operate additional sliding gate openers by adding extra ERM12 External Receivers (available on the TOPENS website www.topens.com) to each control board, allowing for standard operation without midway mode.
- ◆ Each press of the programmed button A cycles the gate through open, stop, close, stop, and open. With the ERM12 external receiver, the programmed buttons C and D can also control the gate with the same open, stop, close, stop, and open cycle.

How to Program the Remote Control

The remote control **MUST** be programmed to the gate opener before use. The remote controls that come with the gate opener are preprogrammed.

If you purchase additional remote controls, or if the programmed remotes are not working, repeat the programming steps below for each remote control.

Enter Programming Mode

- ◆ Press and release the LEARN button on the control board. The RF LED will turn on, indicating that the gate opener is now in programming mode.

Program the Remote Control

- ◆ Press the remote control button you want to program once, then press it again after the LED on the remote turns off.
- ◆ The RF LED will flash for 3 seconds and then turn off, indicating successful programming.

Additional Remote Controls

- ◆ The gate opener can pair Max. 8 M12 remote controls on its own, and up to 250 with the ERM12 External Receiver (sold separately on the TOPENS website www.topens.com).

How to Erase All Programmed Remote Controls

- ◆ Press and hold the LEARN button until the RF LED turns from ON to OFF. Now all programmed remote controls have been erased.

Adjust the Open / Close Limit Position

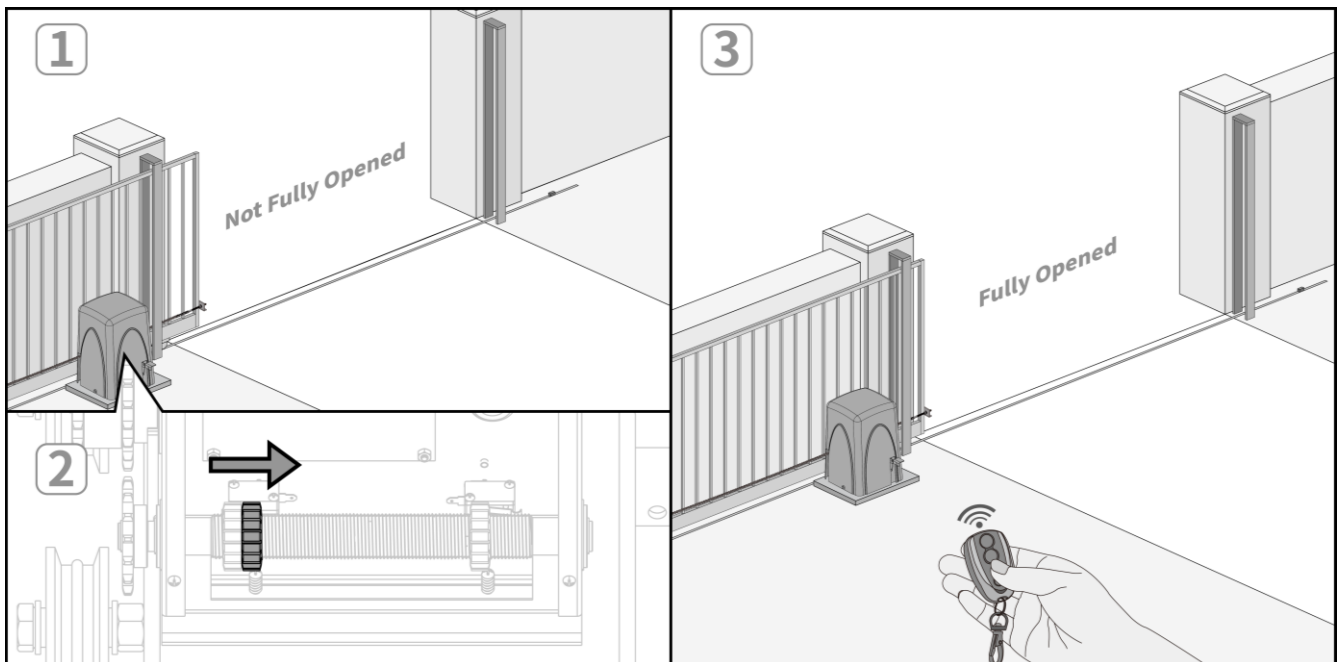
WARNING

- ◆ Before making any adjustments, disengage the clutch of the gate opener to prevent the gate from moving unexpectedly.

For Left Open Gate

Adjusting the Open Limit Position

- ◆ Use the remote control to open the gate. If the gate stops halfway and fails to get to the desired open position, turn off the power switch and disengage the clutch. Depress the spring loaded bracket with a screwdriver and turn the left adjustment nut slightly to the right. Engage the clutch and turn on the power switch to test the gate.
- ◆ If the gate opens over the desired open position, depress the spring loaded bracket with a screwdriver and turn the left adjustment nut slightly to the left.
- ◆ Repeat the above steps until the gate automatically stops at the desired open position.



Adjusting the Close Limit Position

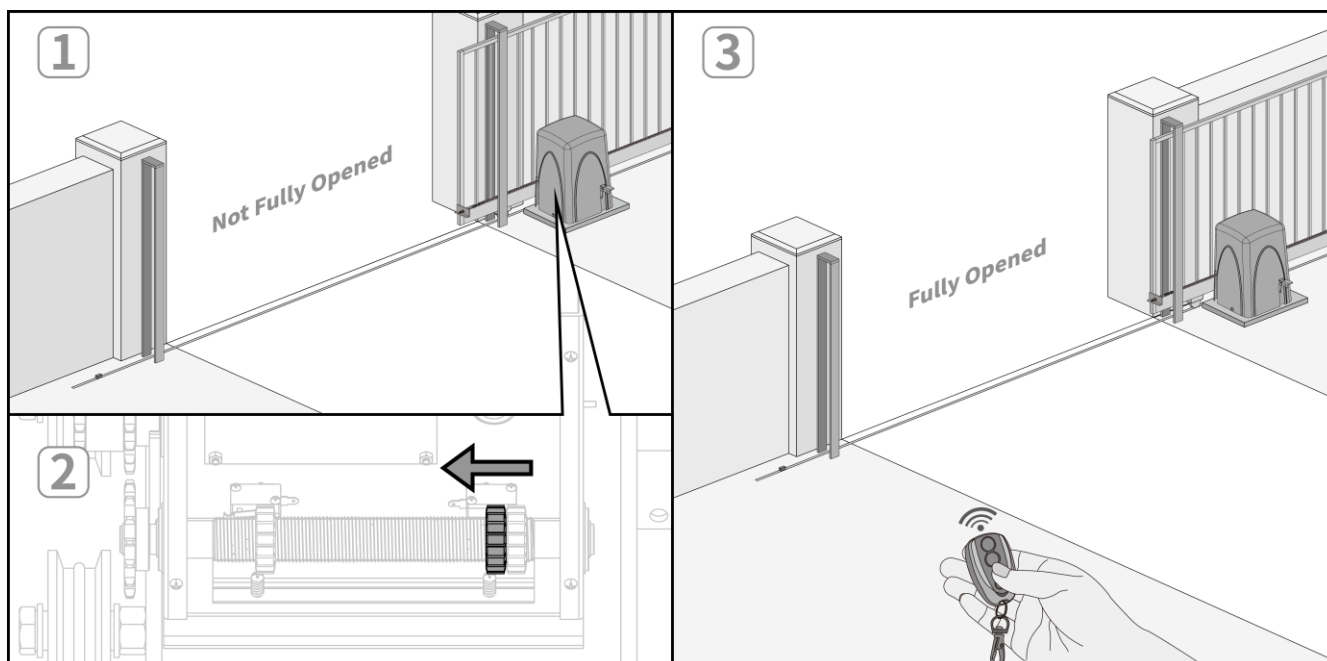
- ◆ Use the remote control to close the gate. If the gate stops halfway and fails to get to the desired closed position, turn off the power switch and disengage the clutch. Depress the spring loaded bracket with a screwdriver and turn the right adjustment nut slightly to the left. Engage the clutch and turn on the power switch to test the gate.
- ◆ If the gate closes over the desired closed position, depress the spring loaded bracket with a screwdriver and turn the right adjustment nut slightly to the right.
- ◆ Repeat the above steps until the gate automatically stops at the desired closed position.

Adjust the Open / Close Limit Position

For Right Open Gate

Adjusting the Open Limit Position

- ◆ Use the remote control to open the gate. If the gate stops halfway and fails to get to the desired open position, turn off the power switch and disengage the clutch. Depress the spring loaded bracket with a screwdriver and turn the right adjustment nut slightly to the left. Engage the clutch and turn on the power switch to test the gate.
- ◆ If the gate opens over the desired open position, depress the spring loaded bracket with a screwdriver and turn the right adjustment nut slightly to the right.
- ◆ Repeat the above steps until the gate automatically stops at the desired open position.



Adjusting the Close Limit Position

- ◆ Use the remote control to close the gate. If the gate stops halfway and fails to get to the desired closed position, turn off the power switch and disengage the clutch. Depress the spring loaded bracket with a screwdriver and turn the left adjustment nut slightly to the right. Engage the clutch and turn on the power switch to test the gate.
- ◆ If the gate closes over the desired closed position, depress the spring loaded bracket with a screwdriver and turn the left adjustment nut slightly to the left.
- ◆ Repeat the above steps until the gate automatically stops at the desired closed position.

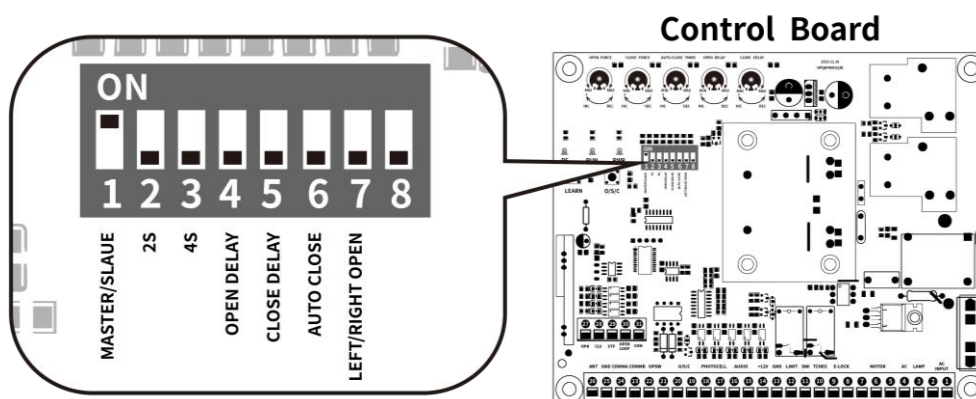
Setting of the Control Board

WARNING

- ◆ Ensure that the gate opener is powered off when making any adjustments.
- ◆ Keep away from the gate while setting up the gate opener system to avoid unexpected gate movement.
- ◆ Carefully adjust the DIP switches to prevent the risk of damaging the gate opener and causing injury or death.
- ◆ For a dual gate opener system, all settings are determined by the master gate opener, except for DIP Switch #1. This means that in the dual gate opener system, all settings on the slave gate opener are invalid except for DIP Switch #1.
- ◆ Always seek assistance from a professional technician or electrician if you have any questions.

DIP Switch Settings

There are eight DIP Switches located on the main control board (as shown) that must be positioned correctly for your particular installation.



DIP Switch #1: Configure the Master / Slave Gate Opener

For a **Single Gate Opener** system, configure the opener as the master gate opener by setting DIP Switch #1 to **ON**.

For a **Dual Gate Opener** system, configure one opener as the master gate opener by setting DIP Switch #1 to **ON**, and configure the other opener as the slave gate opener by setting DIP Switch #1 to **OFF**.

The factory default setting for DIP Switch #1 is **ON**.

IMPORTANT NOTE: For a dual gate opener system, connect all accessories to the control board of the master gate opener and program all wireless accessories with it, as the master gate opener controls the entire system.

Setting of the Control Board

DIP Switch #2 - #3: Set the Running Time of the Motor in Midway Mode

The midway mode allows the gate to partially open for quick passage.

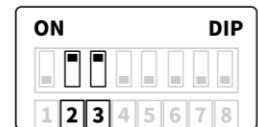
DIP Switch #	ON Position	OFF Position
2	2 Seconds	0 Second (Factory Default)
3	4 Seconds	0 Second (Factory Default)

IMPORTANT NOTES:

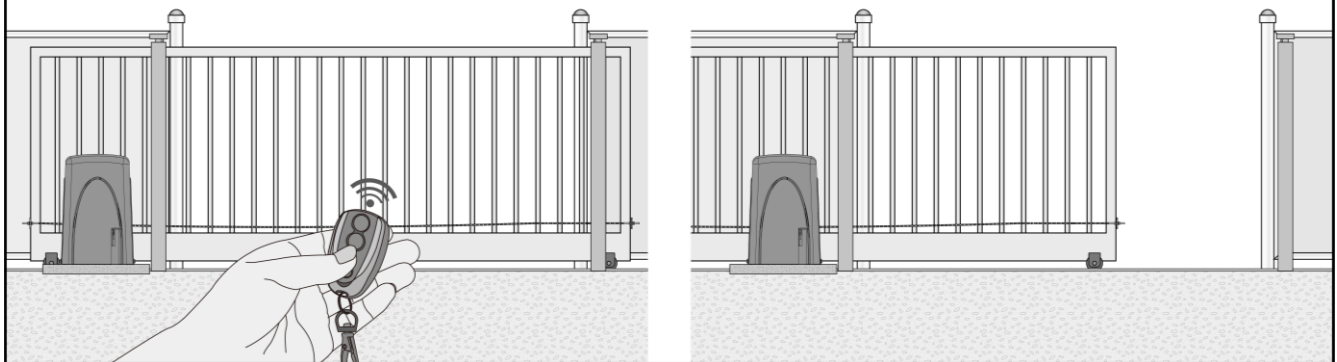
- ◆ The midway mode function is disabled when both DIP switches are set to OFF by default.
- ◆ The running time of the motor in midway mode is DIP Switch #2 + DIP Switch #3.
- ◆ Press button B on the remote control to activate the midway mode when the gate is in fully closed position.

Midway Mode:

1. Gate is in the fully closed position.
2. DIP Switch #2 and DIP Switch #3 are set to ON.
3. Press button B on the remote control to open the gate.



Gate will open for 6 seconds and then stop automatically.



DIP Switch #4: Enable / Disable Open Interval Between the Master and Slave Gate Opener

ON – Open interval enabled

OFF – Open interval disabled

The factory default setting is **OFF**.

For **SINGLE GATE OPENER**, set the switch to **OFF**.

For **DUAL GATE OPENER**, if you want the master gate opener to open earlier than the slave gate opener, set the switch of the master gate opener to **ON** and set the switch of the slave gate opener to **OFF**.

IMPORTANT NOTE: The open interval time can be adjusted by the OPEN DELAY Potentiometer.

Setting of the Control Board

DIP Switch #5: Enable / Disable Close Interval Between the Master and Slave Gate Opener

ON – Close interval enabled

OFF – Close interval disabled

The factory default setting is **OFF**.

For **SINGLE GATE OPENER**, set the switch to **OFF**.

For **DUAL GATE OPENER**, if you want the master gate opener to close later than the slave gate opener, set the switch of the master gate opener to **ON** and set the switch of the slave gate opener to **OFF**.

IMPORTANT NOTE: The close interval time can be adjusted by the CLOSE DELAY Potentiometer.

DIP Switch #6: Enable / Disable Auto Close Function

ON – Auto close function enabled

OFF – Auto close function disabled

The factory default setting is **OFF**. The auto close function allows the gate to automatically close after a set period.

For **DUAL GATE OPENER**, set the switch #6 of the master gate opener to ON to enable the auto close function.

IMPORTANT NOTES:

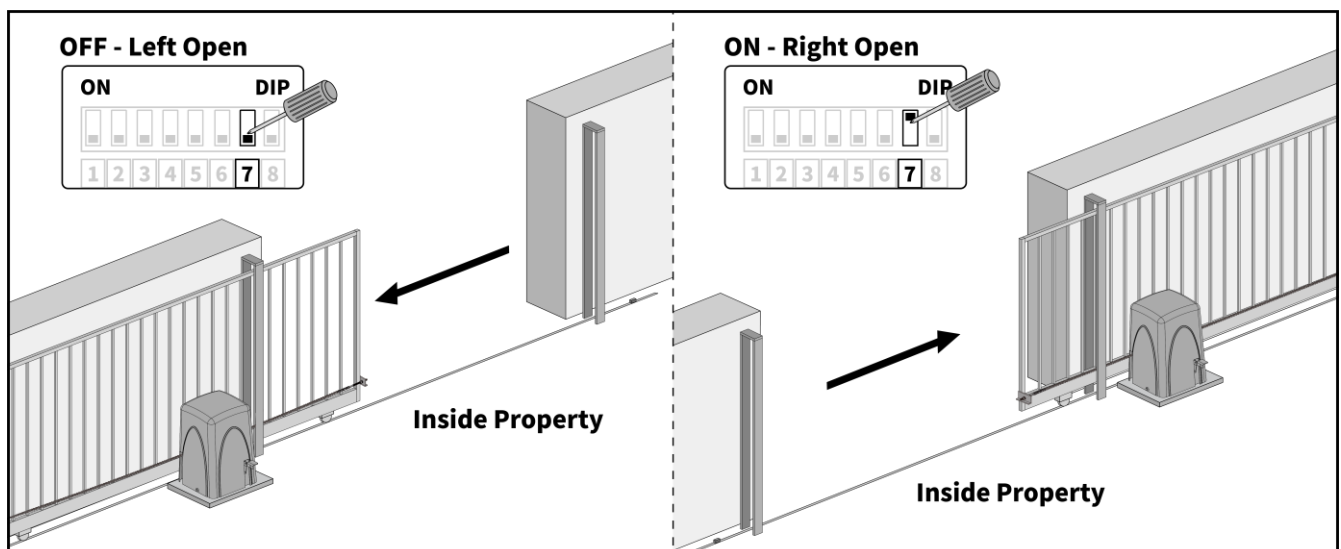
- ◆ The auto close time can be adjusted by turning the AUTO-CLOSE TIMER Potentiometer.
- ◆ The auto close function should be enabled if a vehicle sensor exit wand is installed.
- ◆ When the auto close function is enabled, the included TC102 infrared photocell sensor is highly recommended to be installed with the gate opener for safety.

DIP Switch #7: Set Left / Right Open

ON – Right open

OFF – Left open

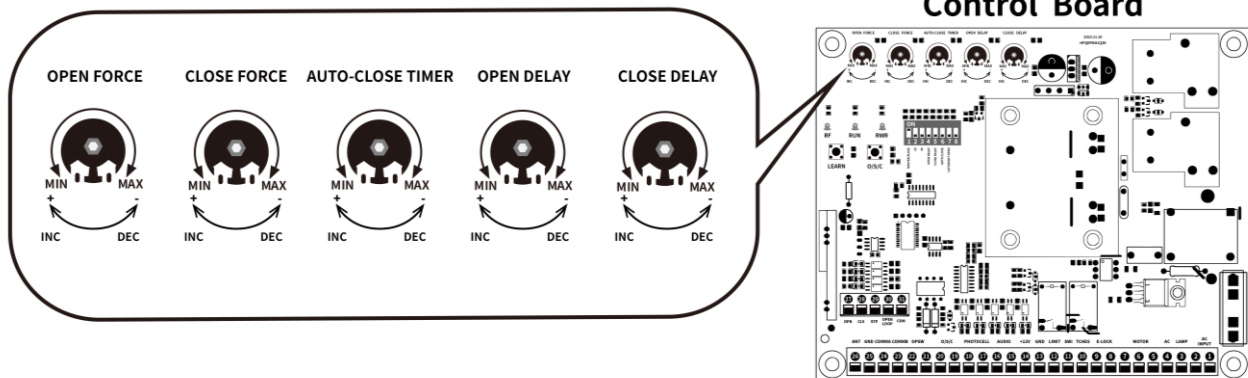
The factory default setting is **OFF**.



DIP Switch #8: Reserved. No function.

Setting of the Control Board

Potentiometer Settings



OPEN FORCE Potentiometer: Adjust the Open Stall Force of the Gate Opener

CLOSE FORCE Potentiometer: Adjust the Close Stall Force of the Gate Opener

- ◆ Turn the potentiometer clockwise to increase the stall force, and counterclockwise to decrease it.
- ◆ Stall force regulates the gate's sensitivity to obstacles during operation. A higher stall force setting decreases sensitivity, making the gate less likely to detect objects. Conversely, a lower stall force setting increases sensitivity, causing the gate to stop or reverse more readily when encountering even minor obstructions.
- ◆ For **DUAL GATE OPENER**, the open and close force is determined by the master gate opener, the setting on the slave gate opener is not applicable.

AUTO-CLOSE TIMER Potentiometer: Adjust the Auto Close Time of the Gate Opener

- ◆ Turn the potentiometer clockwise to increase the auto close time, and counterclockwise to decrease it. The auto close time can be adjusted from 1 to 99 seconds.
- ◆ For **DUAL GATE OPENER**, the auto close time is determined by the master gate opener, the setting on the slave gate opener is not applicable.

OPEN DELAY Potentiometer: Adjust Open Interval Time Between the Master and Slave Gate Opener

CLOSE DELAY Potentiometer: Adjust Close Interval Time Between the Master and Slave Gate Opener

- ◆ Turn the potentiometer clockwise to increase the interval time, and counterclockwise to decrease it. The interval time can be adjusted from 1 to 9 seconds.
- ◆ For **DUAL GATE OPENER**, the open and close delay time is determined by the master gate opener, the setting on the slave gate opener is not applicable.

Stall Force Adjustment & Obstruction Test

Fine Tune the Stall Force

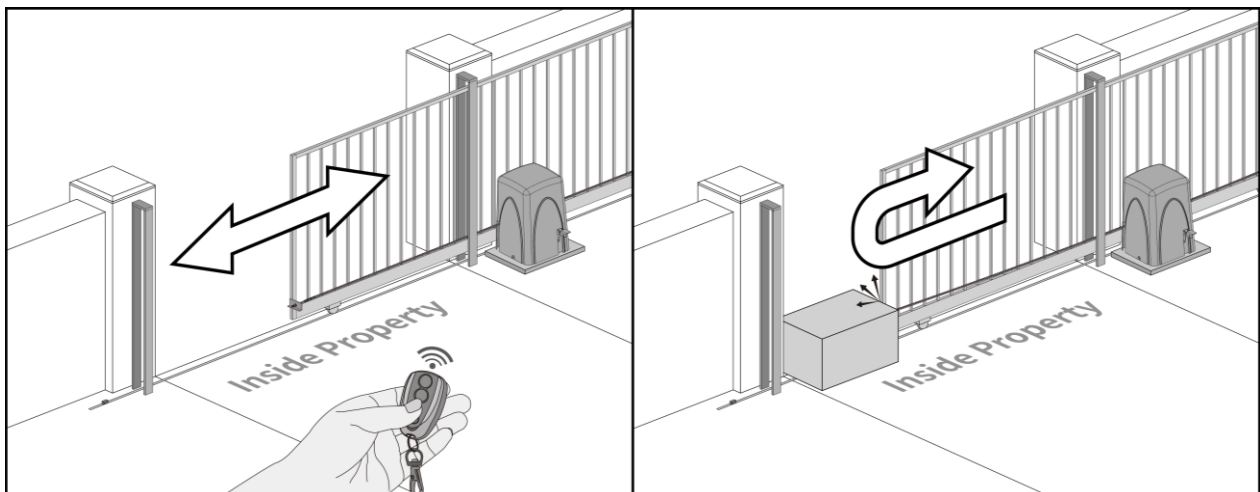
This force should be high enough to ensure the gate reaches both open and close limits without reversing unnecessarily or causing frequent interruptions, but low enough to prevent injury if an obstruction is encountered. The appropriate stall force settings depend on the gate's length and weight, so fine-tuning may be required. Follow these steps to adjust the stall force:

- ◆ **Initial Assessment:** Use the remote control to open and close the gate, observing its movement.
- ◆ **Adjust the Stall Force:** If the gate reverses or stops before reaching the fully closed or open position, increase the stall force by turning the CLOSE FORCE and OPEN FORCE Potentiometers slightly clockwise.
- ◆ **Perform the Obstruction Test:** Run the test after each force setting adjustment (see below).

Obstruction Test

This test ensures that the gate opener's automatic obstruction-sensing feature functions correctly. The gate should have enough force to reach both open and close limits, but **MUST** stop or reverse after contacting with a solid object.

- ◆ **Operate the Gate:** Open and close the gate with the remote control, ensuring that it stops at the proper open and close limit positions.
- ◆ **Setup for the Test:** Place a solid, immovable object in the gate's path to simulate an obstruction.
- ◆ **Test Gate's Closing:** Run the gate in the closing direction towards the obstruction. The gate should reverse upon contact with the solid object. If it does not, slightly decrease the stall force by turning CLOSE FORCE Potentiometer on the control board counterclockwise.
- ◆ **Test Gate's Opening:** Perform the same test with the gate moving in the opening direction. The gate should stop upon contact with the solid object. If it does not, slightly decrease the stall force by turning OPEN FORCE Potentiometer on the control board counterclockwise.



NOTES:

- ◆ If the stall force is set too low (i.e., the sensitivity is too high), the gate may stop or reverse too easily, even with minimal obstruction or resistance, such as strong wind or heavy snow.
- ◆ The gate opener is designed to reverse the gate when the gate comes in contact with an obstruction during closing and to stop the gate during opening. It is highly recommended to install the included TC102 infrared photocell sensor for additional safety.
- ◆ Always perform an obstruction test for the gate each time you set up the control board or restart it after a power outage.

Connection of Accessories

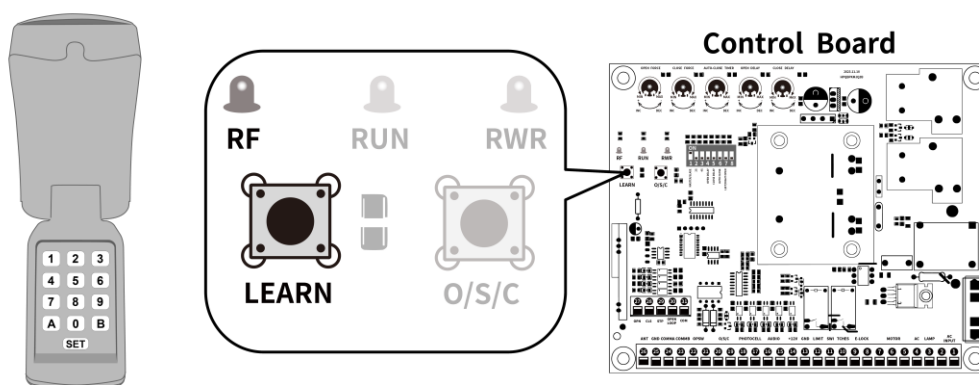
NOTES

- ◆ This section covers only the programming and wire connections with the control board. For additional operations, please refer to the corresponding accessory user manual.
- ◆ It is highly recommended to install the included TC102 infrared photocell sensor in the following situations for safety: if you have children or pets at your property, the gate opener auto close function is set to ON, the gate opener stall force is set to the maximum, a vehicle exit sensor is installed, or other gate control devices are used.

TC188 Universal Keypad

Operate the gate using a user-defined password. You can use this keypad wirelessly or wire it to the gate opener according to your needs.

Wireless Mode Programming and Operation



Step 1 Program New Master Code

Factory default master code is 9999, all codes should be 4 digits in length.

SET 4 digits Old Master Code SET 01 SET 4 digits New Master Code SET 4 digits New Master Code SET

Step 2 Add New Permanent Entry Code

SET Master Code SET 02 SET Entry Code SET Entry Code SET

Step 3 Program with the Gate Opener

- ◆ Input the entry code of the keypad.
- ◆ Press and release the LEARN button on the control board. The RF LED will turn on, indicating that the gate opener is now in programming mode.
- ◆ Press button A (or B) once, and the keypad LED backlight will flash quickly. Press it again after the backlight changes from a rapid flash to a slow flash.
- ◆ The RF LED will flash for 3 seconds and then turn off, indicating successful programming.

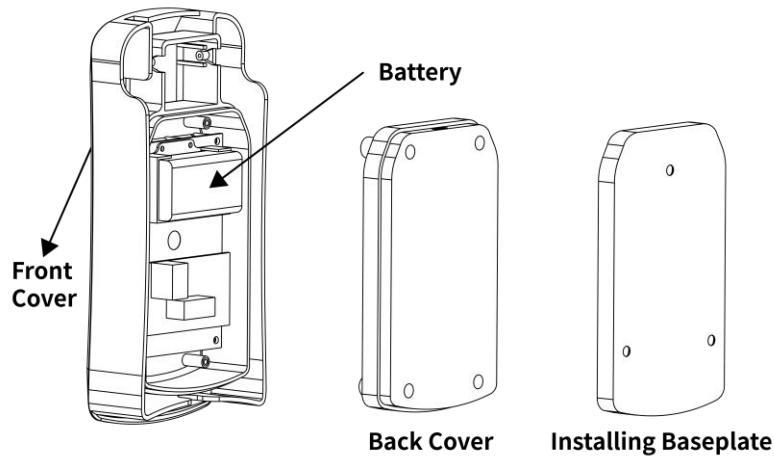
Step 4 Operate the Gate Opener

Input the entry code and then press the programmed button A (or B) to operate the gate. Within 3 seconds of pressing button A (or B), you can press the button again without re-entering the code to operate the gate.

Connection of Accessories

Wired Mode Connection and Operation

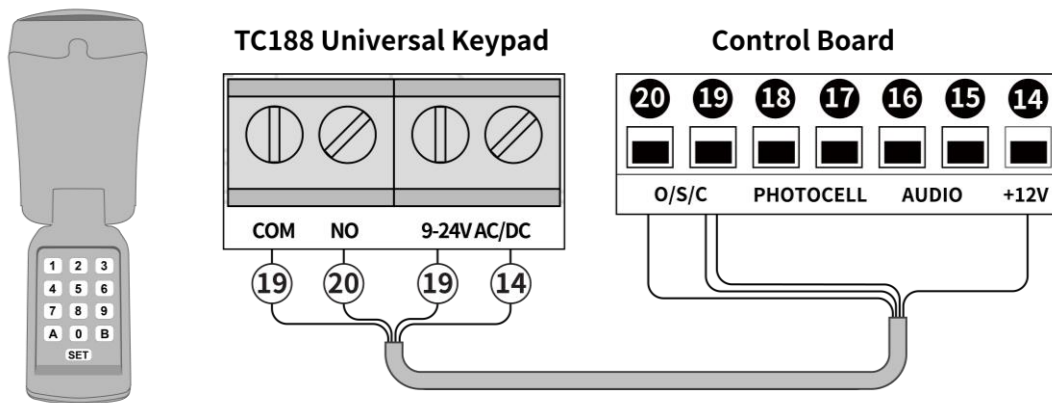
Step 1 Remove the Battery



Step 2 Wire Connection

Connect the “COM” and “NO” terminals to control board terminals ⑰ and ⑳ “O/S/C” respectively. Then connect the “9-24V AC/DC” terminals to control board terminal ⑰ “O/S/C” and terminal ⑭ “+12V”. Polarity does not matter for these connections.

NOTE: A 4C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.



Step 3 Program New Master Code

Factory default master code is 9999, all codes should be 4 digits in length.

SET 4 Digits Old Master Code SET 01 SET 4 Digits New Master Code SET 4 Digits New Master Code SET

Step 4 Add New Permanent Entry Code

SET Master Code SET 02 SET Entry Code SET Entry Code SET

Step 5 Operate the Gate Opener

Input the entry code and then press button A (or B) to operate the gate. Within 3 seconds of pressing button A (or B), you can press the button again without re-entering the code to operate the gate.

Connection of Accessories

TKP3 Wireless Keypad

Operate the gate with a user defined password

Programming and Operation

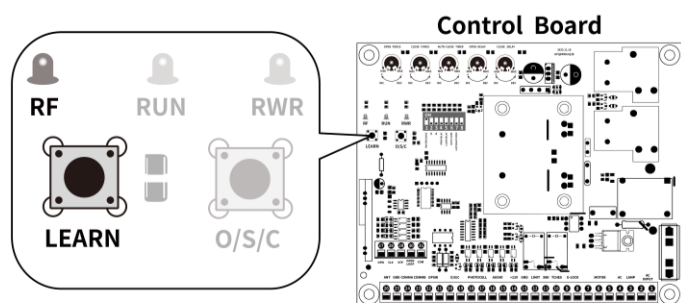
- ◆ Press and release the LEARN button on the control board. The RF LED will turn on, indicating that the gate opener is now in programming mode.
- ◆ Press the button “OK” on the keypad and the RF LED will flash for 3 seconds and then turn off, indicating successful programming.
- ◆ Use the default password “888888” to operate the gate opener. Press “PIN” “8 8 8 8 8 8” and then press the button “OK” to operate the opener. Just one press of the button “OK”, the moving gate will stop for quick passing through.

Change the Password

- ◆ Press “PIN”, input the old six digits password, and then press the “PIN” again, the RF LED will be ON.
- ◆ Input the new six digits password and then press the “PIN” to confirm the new setting, RF LED will flash for 3 seconds and then turn off which indicates the password has been changed successfully.
- ◆ Press “PIN” “new six digits password” and then press the button “OK” to operate the gate opener.



Program the Keypad



Use the Default Password

PIN 888888 OK

Change the Password

PIN Old Six Digits Password PIN

New Six Digits Password PIN

Use the New Password

PIN New Six Digits Password OK

NOTES:

- ◆ Each button press during programming must be completed within 1 second to ensure successful programming.
- ◆ If you forget the password, you can reset the keypad to restore the default code "888888" by reprogramming it.

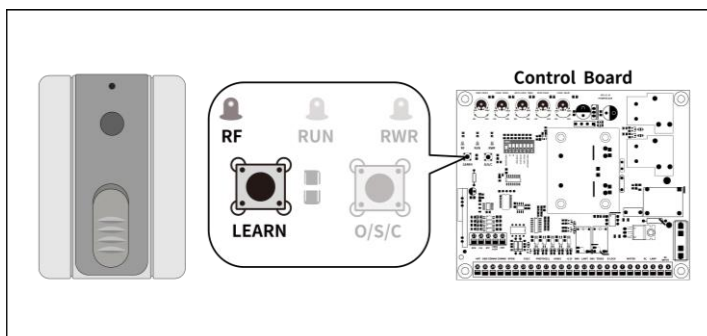
Connection of Accessories

TC173 Wireless Push Button

Open / close the gate by pressing the wireless button

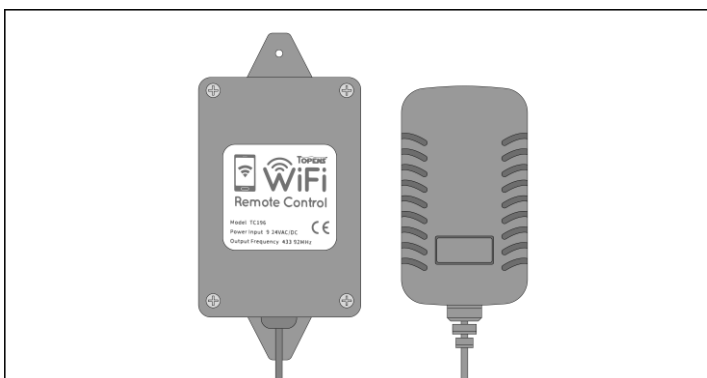
Programming and Operation

- ◆ Press and release the LEARN button on the control board. The RF LED will turn on, indicating that the gate opener is now in programming mode.
- ◆ Press the push button once, then press it again after the LED on the push button turns off. The RF LED will flash for 3 seconds and then turn off, indicating successful programming.
- ◆ Each press of the button will cycle the gate through open, stop, close, stop, and open.



TC196 Tuya WiFi Remote Control

- ◆ Control the gate opener with your cellphone anytime and anywhere when the remote controller is connected with WiFi.
- ◆ Please see detailed connection steps in TC196 user manual.



Connection of Accessories

TEW3 Vehicle Sensor Exit Wand

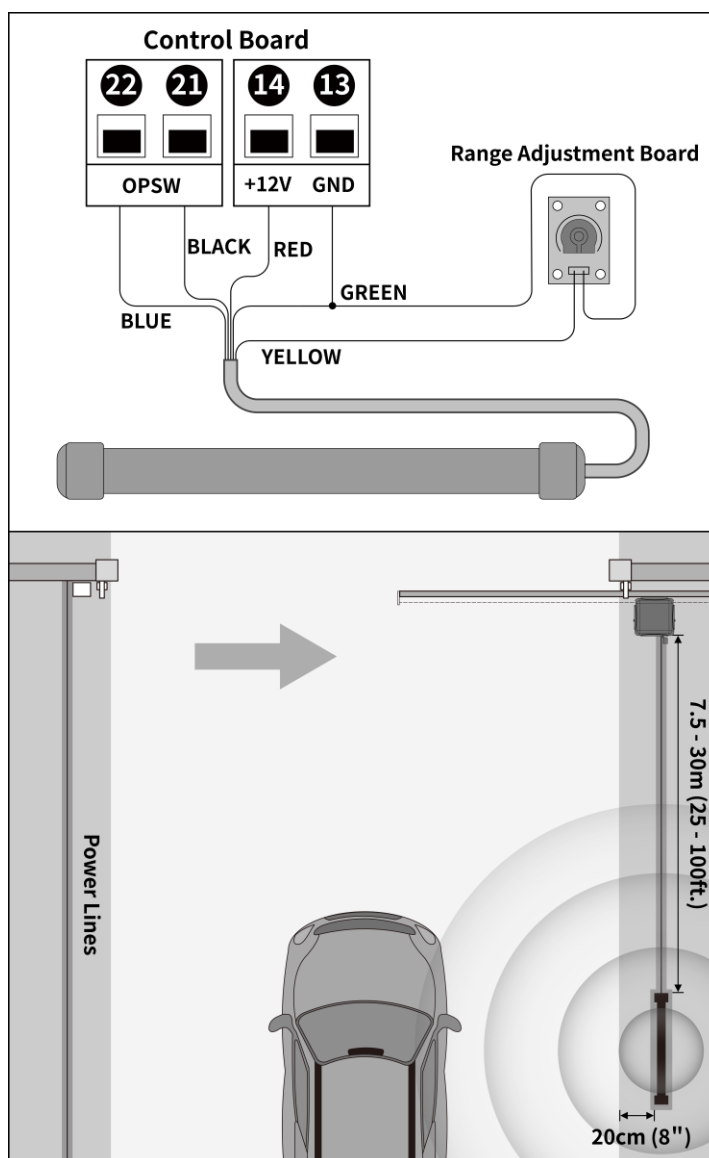
Opens the gate automatically when it senses an approaching car

Wire Connection

- ◆ Connect the RED wire to control board terminal ⑭ “+12V” .
- ◆ Connect the GREEN wire to control board terminal ⑬ “GND” .
- ◆ Connect the BLACK and BLUE wires to control board terminals ②① and ②② “OPSW” respectively.
- ◆ The sensitivity range adjustment board should be wired to the GREEN and YELLOW wires of the wand, regardless of the polarity.

Key Installation Notes

- ◆ Install the wand 7.5m to 30m (25ft. to 100ft.) away from the gate, and bury it 5cm (2") deep from ground and 20cm (8") from the driveway edge.
- ◆ Install the wand away from any power lines to avoid interrupting the detection signal.
- ◆ It is strongly recommended to enable the auto close function by referring to the Setting of the Control Board section in the installation manual to ensure home security.



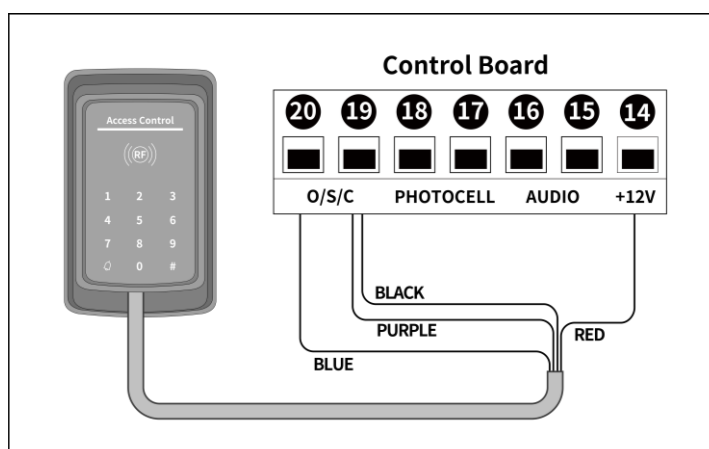
Connection of Accessories

TC175P Wired Keypad

Operate the gate with a user defined password / ID card

Wire Connection

- ◆ Connect the wires on the JP2 terminal of the wired keypad to the control board.
- ◆ Connect the RED wire to control board terminal ⑭ “+12V” .
- ◆ Connect the PURPLE and BLACK wires to control board terminal ⑲ “O/S/C” .
- ◆ Connect the BLUE wire to control board terminal ⑳ “O/S/C” .



NOTES:

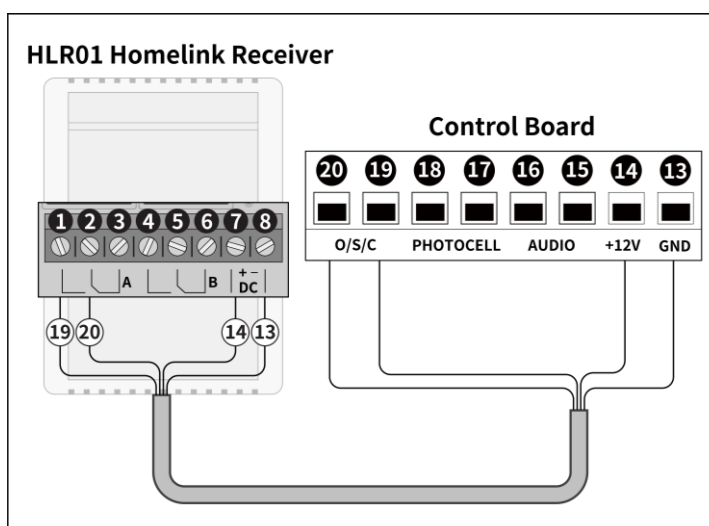
- ◆ A 4C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.
- ◆ Please see detailed password setting steps in TC175P user manual.

HLR01 Homelink Remote Control Kit

Links the gate opener with your car's Homelink system, allows for easy control of the gate opener through the Homelink system.

Wire Connection

- ◆ Connect terminals ① and ② to control board terminals ⑲ and ⑳ “O/S/C” .
- ◆ Connect terminal ⑦ “+DC” to control board terminal ⑭ “+12V” .
- ◆ Connect terminal ⑧ “DC-” to control board terminal ⑬ “GND” .



NOTES:

- ◆ A 4C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.
- ◆ Please see detailed programming steps with Homelink system in HLR01 user manual.

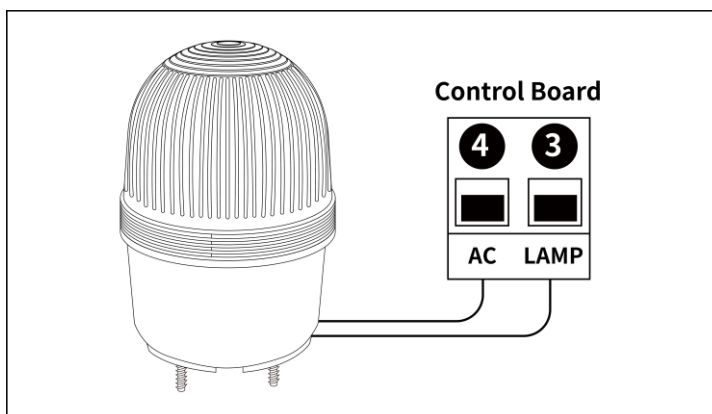
Connection of Accessories

JD110VY Warning Light

Flashing when the gate is moving, improving your gate safety

Wire Connection

- ◆ Connect the warning light to control board terminal ③ “LAMP” and terminal ④ “AC”, regardless of the polarity.



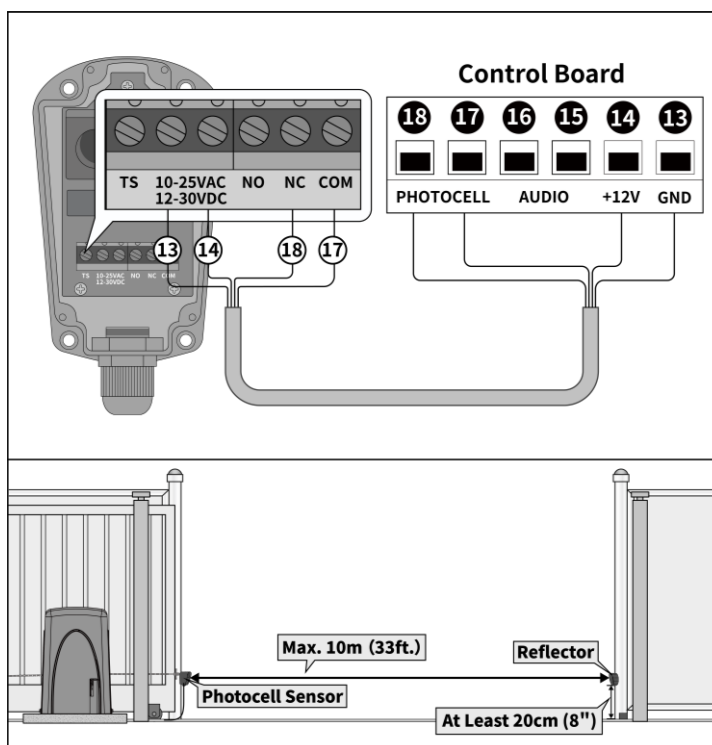
NOTE: A 2C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.

TRF3 Reflection Photocell Sensor

Prevents the gate from closing when obstructed, adds security with simple wire connection

Wire Connection

- ◆ Disconnect the jumper wire from terminals ①⑦ and ①⑧ “PHOTOCELL” on the control board to enable the photocell sensor function.
- ◆ Connect the “10-25VAC / 12-30VDC” terminals to control board terminal ①③ “GND” and terminal ①④ “+12V”, regardless of the polarity.
- ◆ Connect the “COM” terminal and the “NC” terminal to control board terminals ①⑦ and ①⑧ “PHOTOCELL” respectively.



Key Installation Notes

- ◆ Mount the photocell sensor at least 20cm (8") above the ground.
- ◆ Power on the gate opener. Position the reflector directly opposite the mounted photocell sensor. The working light on the photocell sensor turning green indicates that the reflector is in the correct position.
- ◆ The maximum sensing range of the photocell sensor is 10m (33ft.).

NOTE: A 4C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.

Connection of Accessories

TC102 Infrared Photocell Sensor

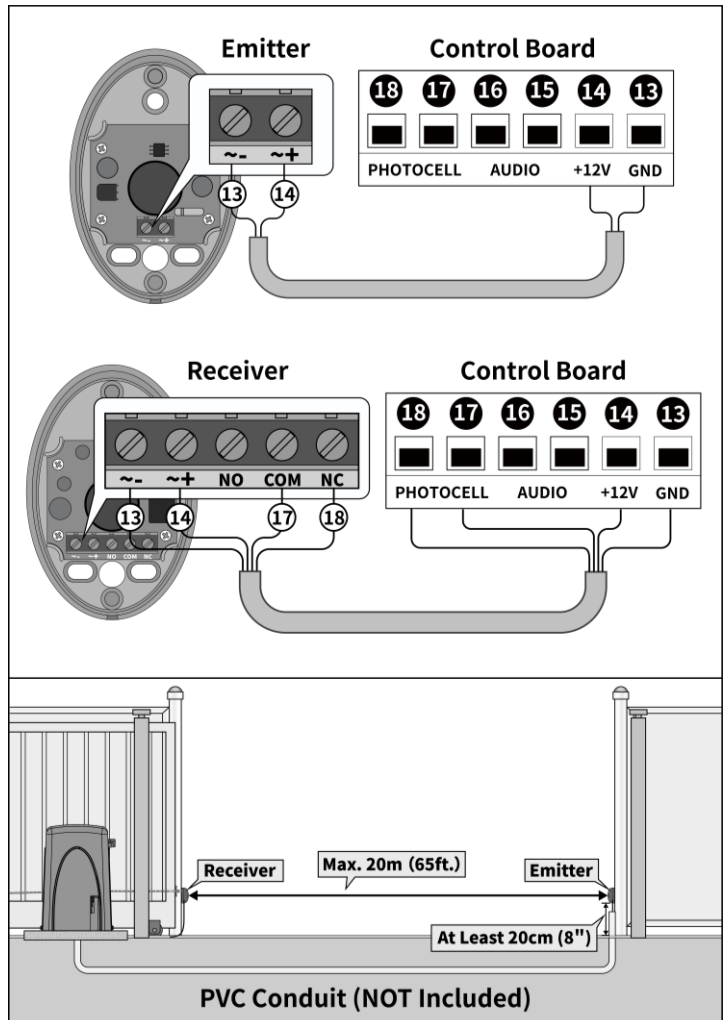
Prevents the gate from closing when obstructed, adds security

Wire Connection

- ◆ Disconnect the jumper wire from terminals ⑬ and ⑭ “PHOTOCELL” on the control board to enable the photocell sensor function.
- ◆ For the emitter, connect the “~ +” terminal to control board terminal ⑭ “+12V”, connect the “~ -” terminal to control board terminal ⑬ “GND”.
- ◆ For the receiver, connect the “~ +” terminal to control board terminal ⑭ “+12V”, connect the “~ -” terminal to control board terminal ⑬ “GND”. Connect the “COM” terminal and the “NC” terminal to control board terminals ⑰ and ⑱ “PHOTOCELL” respectively.

Key Installation Notes

- ◆ Mount the photocell sensor at least 20cm (8") above the ground.
- ◆ Place the receiver on the control box side of the gate opener, directly facing the emitter.
- ◆ Ensure that both the emitter and receiver are aligned with each other. If manual precise alignment is difficult, use a visible laser beam for assistance.
- ◆ The maximum sensing range is 20m (65ft.), and the recommended distance between the emitter and receiver is 3m to 14m (10ft. to 46ft.).
- ◆ Put the cables into PVC conduit and bury the conduit underground to prevent damage.



NOTE: Connect the emitter to the gate opener with a 2C x 0.3 mm² (22AWG) cable. Connect the receiver to the gate opener with a 4C x 0.3 mm² (22AWG) cable. Cables are required but NOT included.

Connection of Accessories

ERM12 External Receiver

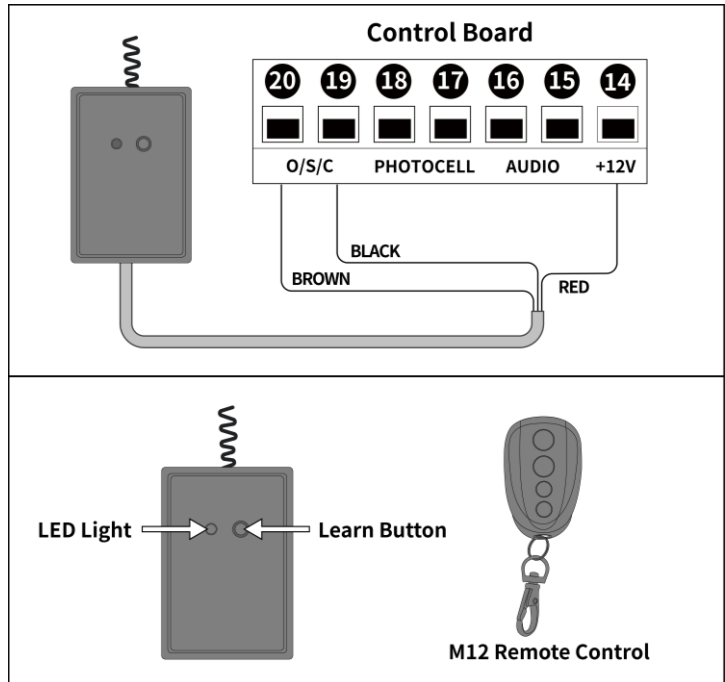
Allows up to 250 remotes to be programmed with the gate opener

Wire Connection

- ◆ Connect the RED wire to control board terminal ⑭ “+12V” .
- ◆ Connect the BLACK and BROWN wires to control board terminals ⑲ and ⑳ “O/S/C” respectively.

Program the Remote Control with the Receiver

- ◆ Before programming, ensure the M12 remote control has been erased from the control board to avoid conflicts.
- ◆ Press and release the Learn Button on the receiver, the LED light will turn ON. Press the remote control button you want to program once, then press it again after the LED on the remote turns off.
- ◆ The LED Light on the receiver will flash for 3 seconds and then turn OFF indicating successfully programming.



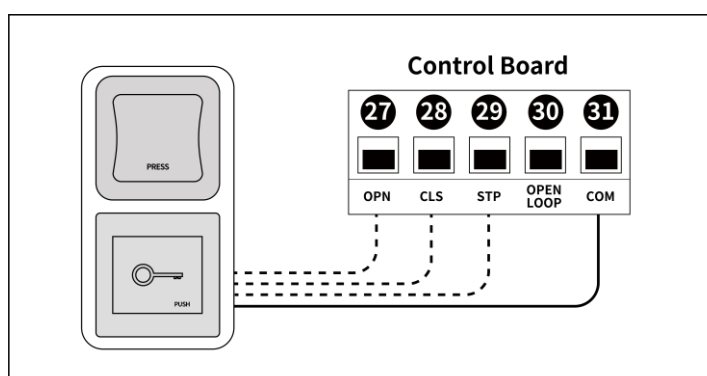
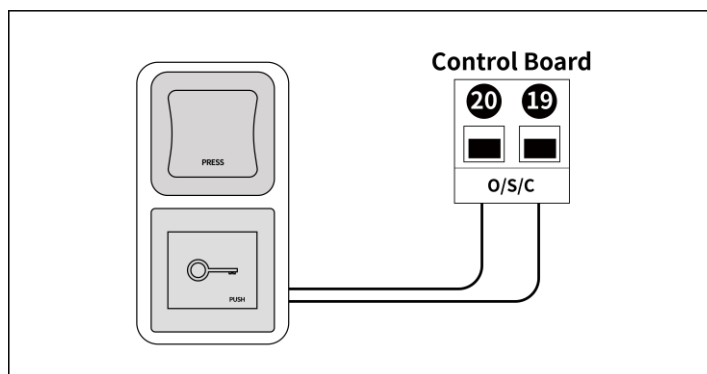
Connection of Accessories

TC148 Waterproof Wall Push Button & TC147 Wall Push Button

Open / close the gate by pressing the wired button

Wire Connection

- ◆ Connect the push button to control board terminals ⑲ and ⑳ “O/S/C”, regardless of the polarity. Each press of the button will cycle the gate through **OPEN, STOP, CLOSE, STOP, AND OPEN**.
- ◆ Connect the push button to control board terminal ⑳ “OPN” and terminal ㉑ “COM”, regardless of the polarity. Pressing the button will only **OPEN** the gate.
- ◆ Connect the push button to control board terminal ㉒ “CLS” and terminal ㉑ “COM”, regardless of the polarity. Pressing the button will only **CLOSE** the gate.
- ◆ Connect the push button to control board terminal ㉓ “STP” and terminal ㉑ “COM”, regardless of the polarity. Pressing the button will only **STOP** the gate.



NOTE: A 2C x 0.3 mm² (22AWG) cable is required for the wire connection, but it is NOT included.

Maintenance and Replacement Parts

Maintenance

WARNING

Disconnect the AC power to the gate opener before routine inspections and lubrication.

Routine Inspections

- ◆ **Inspect the Gate:** Look for any signs of wear or damage on the gate and guide tracks.
- ◆ **Check the Gate Opener:** Ensure that the opener is securely attached to the concrete pad. Tighten any loose bolts and screws.
- ◆ **Examine Cables and Wires:** Check that all cables and wires are intact and free from corrosion. Ensure that the opener is properly earthed and the wire is securely connected.

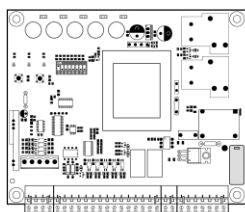
Cleaning and Lubrication

Keep the gate opener and the surrounding area clean to prevent the accumulation of dirt, dust, leaves, and debris. Use a clean, dry cloth to wipe the gate opener shafts, gears, and chain, and lubricate them as needed.

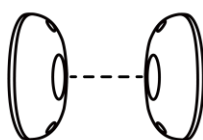
Obstruction Test

The gate must stop or reverse upon contact with a solid object. Perform the obstruction test monthly, or whenever you set up the control board or after a power outage. Failure to properly adjust and retest the gate opener can increase the risk of injury or death.

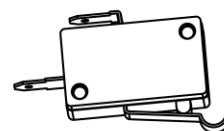
Replacement Parts



ACPYMJ9A
Control Board (120V)



TC102 Infrared
Photocell Sensor

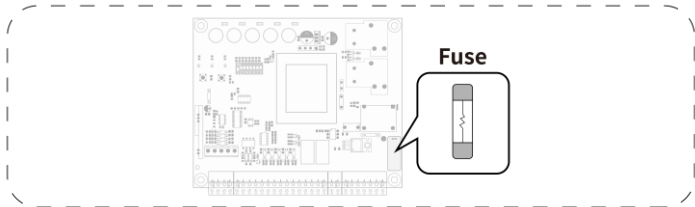
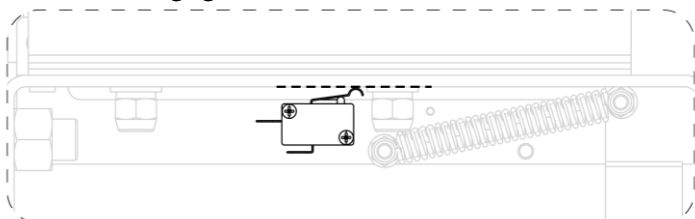


MS8013A1BBC1
Limit switch

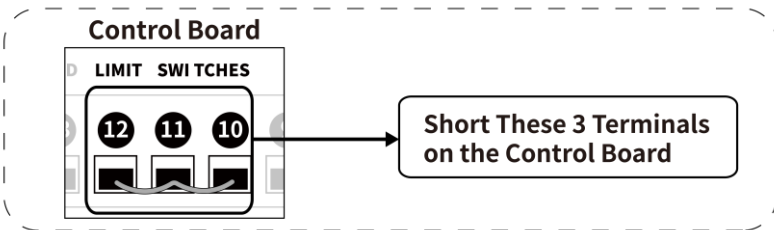
* Available on the TOPENS website (www.topens.com) and Amazon.

Troubleshooting

If your gate opener does not function properly after installation, please follow the steps below before contacting us for assistance. This guide provides common troubleshooting steps to help resolve issues efficiently. For further assistance, please feel free to contact us through our website at www.topens.com.

Symptom	Possible Solution(s)
The opener does not run. Power LED is OFF.	Step 1 Ensure Proper Power Connection: Confirm that the power cord is securely plugged into a functional electrical outlet. Check whether the voltage at the control board terminal “AC INPUT” is within the range of 110–120VAC. If yes, proceed to Steps 2 through 4; if no, proceed to Steps 5 through 8. Step 2 Examine Control Board Fuse: Inspect the control board fuse and replace it with the backup fuse that comes with the gate opener if it is burnt out. The fuse type is Ø5*20mm 15A 250VAC fast blow glass fuse.  Step 3 Isolate the Issue with Wired Accessories: Disconnect all wired accessories from the control board. Connect each accessory one by one to identify which one causes the problem. Step 4 Check Control Board: The control board might be faulty. Inspect the control board for any visible damage or malfunction. If needed, replace the control board with a new one. Step 5 Check the Power Switch on the Gate Opener: Ensure that the power switch is turned on, and check for any loose connections in the cables connected to the power switch. Step 6 Check the Cable connected to the Control Board Terminal “AC INPUT” : Inspect the pre-connected cables attached to the control board terminal “AC INPUT” to check for any loose connections. Step 7 Check the Micro Switch on the Clutch Lever: Ensure that the metal part of the micro switch is in contact with the base plate above it when the clutch is engaged.  Step 8 Connect the Live and Neutral wire of the Power Cord to Control Board: Directly connect the live and neutral wires of the power cord to the control board terminal “AC INPUT” . Please turn off the power before making any wire connections.

Troubleshooting

Symptom	Possible Solution(s)
The gate opens but fails to close.	Step 1 Check Photocell Sensor Blockage: If a photocell sensor is installed, ensure the sensor beam is not obstructed. Clear any objects blocking the photocell sensor. Step 2 Check the Jumper Wire: If a photocell sensor is not installed, make sure the control board terminals ⑪ and ⑫ “PHOTOCELL” are shorted by a jumper wire. If the jumper wire is missing or faulty, replace it with a new one to short the terminals. Step 3 Check the Limit Switch: Disconnect the limit switch wires from terminals 10, 11, and 12 on the control board. Use two jumper wires to short these three terminals simultaneously. Press the remote to operate the opener. If the motor runs normally in both directions, replace the limit switch.  Step 4 Check the Control Board: The control board might be faulty. Inspect the control board for any visible damage or malfunction. If needed, replace the control board with a new one.
Gate automatically opens, but does not automatically close.	Check Motor Open Direction: The motor open direction is incorrect. Ensure that DIP switch #7 on the gate opener control board is correctly set according to the installation for “Left Open” or “Right Open” .
Two gate openers are installed on a dual gate, but they are not synchronizing.	Step 1 Check Power Supply: Check the power supply wire connections for the two gate openers. Ensure they are connected in parallel as instructed in this manual. Step 2 Check DIP Switch Setting: Check the DIP switch 1# settings on the two gate openers. One motor should be configured as the master gate opener (DIP switch 1# set to ON), and the other as the slave gate opener (DIP switch 1# set to OFF). Step 3 Check Communication Cable: Check if the communication cable between the master and slave gate openers is loose. Step 4 Check Gate Openers Operation: Please ensure that both gate openers operate simultaneously.
Gate moves a little and then reverse or stop.	Step 1 Adjust the Stall Force: The chosen force is too low to move the gate. Turn off the power to the gate opener, then locate OPEN FORCE and CLOSE FORCE Potentiometers on the control board and turn them slightly clockwise to increase the stall force. After adjusting, use the remote to open and close the gate to check if the issue is resolved. Step 2 Check the Gate: Disconnect the gate from the gate opener and ensure it slides freely without any binding.



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Street, Wuhan East Lake High-tech Development Zone,
China

Attestation of Conformity

Registration No AGC-WH00066220632E2

Applicant Hangzhou Sanford Technology Co., Ltd
Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang Province,
China

Product Designation Sliding gate opener

Brand Name /

Model / Series Models LC1100

Manufacturer Hangzhou Sanford Technology Co., Ltd
Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang Province,
China

Requirement	Applied Standards	Document Evidence	Result
EMC Directive	EN 55014-1:2017+A11:2020 EN 55014-2:2015 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019	Test Report: AGC-WH00066220632EE01	Conform



Bram Wu
Signed by General Manager(Bram Wu)
Issue Date: August 16, 2022

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Note: This attestation is part of the full test report(s) and should be used in conjunction with it.

Version: 1.0



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Attestation of Conformity

Registration No. AGC-WH00066220632S4

Applicant Hangzhou Sanford Technology Co., Ltd.

Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang
Province, China

Product Designation Sliding gate opener

Brand Name /

Model / Series Models LC1100

Manufacturer Hangzhou Sanford Technology Co., Ltd.

Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang
Province, China

Requirement	Applied Standards	Document Evidence	Result
LVD Directive	EN 60335-2-103:2015, EN 60335-1:2012+ A11:2014 +A13:2017+ A1:2019+A2:2019+ A14:2019 EN 62233:2008	Test Report: AGC-WH00066220632ES01	Conform



Bram Wu

Signed by General Manager(Bram Wu)

Issue Date: August 9, 2022



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Street, Wuhan East Lake High-tech Development Zone,
China

Attestation of Conformity

Registration No AGC-WH00066220632E2

Applicant Hangzhou Sanford Technology Co., Ltd

Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang Province,
China

Product
Designation Sliding gate opener

Brand Name /

Model /
Series Models LC1100

Manufacturer Hangzhou Sanford Technology Co., Ltd

Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang Province,
China

Requirement	Applied Standards	Document Evidence	Result
Electromagnetic Compatibility Regulations 2016	BS EN 55014-1:2017+A11:2020 BS EN 55014-2:2015 BS EN IEC 61000-3-2:2019 BS EN 61000-3-3:2013+A1:2019	Test Report: AGC-WH00066220632BE01	Conform



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China

Attestation of Conformity

Registration No. AGC-WH00066220632B4

Applicant Hangzhou Sanford Technology Co., Ltd.
Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang
Province, China

Product Designation Sliding gate opener

Brand Name /

Model / Series Models LC1100

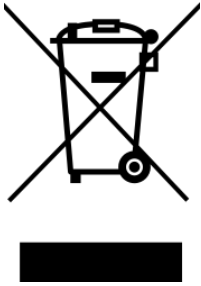
Manufacturer Hangzhou Sanford Technology Co., Ltd.
Room 106, Building 4, 8 Shengdi Road, Yuhang Town, Hangzhou City, Zhejiang
Province, China

Requirement	Applied Standards	Document Evidence	Result
Electrical Equipment (Safety) Regulations 2016	BSEN 60335-2-103:2015, BSEN 60335-1:2012+ A11:2014+A13:2017+ A1:2019+A2:2019+ A14:2019 BSEN 62233:2008	Test Report: AGC-WH00066220632BS01	Conform



Signed by General Manager(Bram Wu)
Issue Date: August 9, 2022

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According to Waste of Electrical and Electronic Equipment (WEEE) directive, WEEE should be separately collected and treated. If at any time in future you need to dispose of this product, please do NOT dispose of this product with household waste. Please send this product to WEEE collecting points where available.

Feedback & Review

**Your comments and suggestions are important to us
as they help us provide the best possible service.**

Should you have any need to contact us, the info below will help you get in touch:



TOPENS Website

www.topens.com

Contact Us:

E-mail: support@topens.com

***Kindly include your purchase channel, order #, gate information, issue description
and your contact information. All your concerns will be replied within 24 hours.***

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