



Amazing Gates AG2000 Sliding Gate Opener Installation Manual

9-25-2020

Thank you for purchasing the Amazing Gates AG2000 sliding gate opener. Please read this manual completely before installation and follow all safety precautions. This product complies with the recognized technical standards and safety regulations.

GENERAL SAFETY



WARNING! Incorrect installation or improper use of this product can cause damage to people, animals or property.

This equipment is similar to other gate or door equipment and meets or exceeds Underwriters Laboratory Standard 325 (UL 325). However, gate equipment has hazards associated with its use and therefore by installing this product the installer and user accept full responsibility for following and noting the installation and safety instructions. Failure to follow installation and safety instructions can result in hazards developing due to improper assembly. You agree to properly install this product and that if you fail to do so Amazing Gates of America, LLC (“AGA”) shall in no event be liable for direct, indirect, incidental, special or consequential damages or loss of profits whether based in contract tort or any other legal theory during the course of the warranty or at any time thereafter. The installer and/or user agree to assume responsibility for all liability and use of this product releasing Amazing Gates of America, LLC from any and all liability. If you are not in agreement with this disclaimer or do not feel capable of properly following all installation and safety instructions you may return this product for full replacement value.

READ ALL INSTRUCTIONS CAREFULLY AND COMPLETELY before attempting to install and use this automatic gate operator.

This gate operator produces a high level of force.

Stay clear of the unit while it is operating and exercise caution at all times.

All automatic gate operators are intended for use on vehicular gates only.

This product meets and exceeds the requirements of UL 325, the standard which regulates gate operator safety, as established and made effective March 1, 2000, by Underwriters Laboratories Inc.

- Discard packing materials (plastic, cardboard, polystyrene etc.) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children’s reach.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The factory declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in this manual.
- Do not install the product in an explosive atmosphere.
- The factory declines all responsibility for any consequences resulting from failure to observe good technical practices when constructing gates as well as from any deformation of the gate which might occur during use.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any back-up batteries, if included.
- Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.
- Check that grounding is carried out correctly: connect gates and system components to a ground terminal.
- Fit all the safety devices (photo beams, safety edges, etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing.
- Display a warning sign at the gate.
- The factory declines all responsibility with respect to the automation safety and correct operation when other supplier’s components are used.

- Only use original parts for any maintenance or repair operation.
- Do not modify the automation components, unless explicitly authorized by the factory.
- Instruct the product user about the control systems provided and the manual opening operation in case of emergency.
- Keep children away from automatic gates.
- Keep remote transmitters or other control devices out of children’s reach, in order to avoid unintentional automatic activation.
- Repairs should be made by qualified personnel only.
- Anything which is not expressly provided for in this manual is not allowed.
- Installation must be carried out using the safety devices and controls prescribed by the UL 325 standard.

Class Rating

The Amazing Gates 2000 Slide Operator is intended for use with vehicular slide gates in single family residential applications. The operator is system certified to be in compliance with UL 325, current edition, as of publication date.

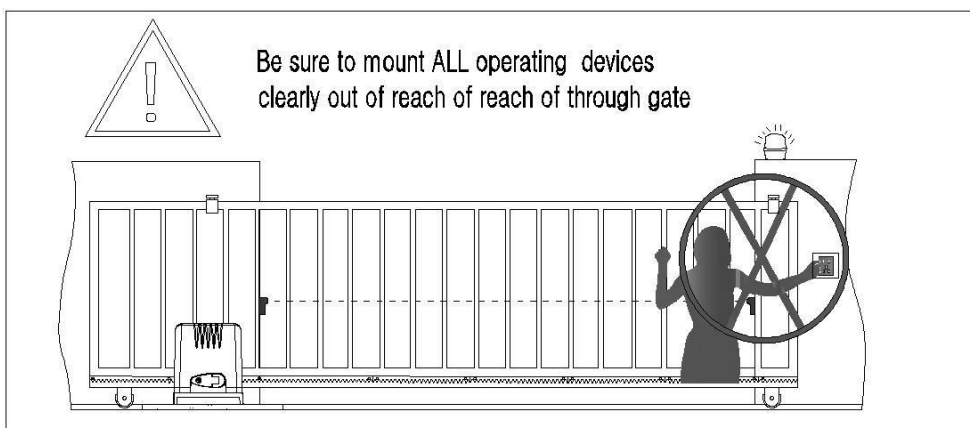
Vehicular Gate Operator Class Categories:

Residential Vehicular Gate Operator—Class I: A vehicular gate operator (or system) intended for use in a home of one-to-four single family dwelling, or a garage or parking area associated therewith.

Commercial/General Access Vehicular Gate Operator—Class II: A vehicular gate operator (or system) intended for use in a commercial location or building such as a multifamily housing unit (five or more single family units), hotel, garages, retail store, or other building servicing the general public.

Industrial/Limited Access Vehicular Gate Operator—Class III: A vehicular gate operator (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

Restricted Access Vehicular Gate Operator—Class IV: A vehicular gate operator (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.



Technical Specifications & Features

Specifications:

- Motor: 24VDC
- Absorbed motor power: 370W
- Gate moving speed: 7.9"/second
- Max gate weight: 1100 lbs
- Max torque: 18.44 ft lb/f
- Environmental conditions: From 5°F to 104°F
- Protection class: IP44
- Dimensions: 11-1/2" x 7.5" x 19.5" (L*W*H)

Features:

- Easy to install and low maintenance
- Quick selection for gate open/close direction
- Get the desired chain tension by adjusting the chain bolts
- Home-link compatible technology
- Emergency release key in case of power failure
- Stop/Reverse in case of obstruction during gate opening/closing
- Built in adjustable auto-close
- Reliable inner mechanical limit switch for easy and accurate setting
- Can be equipped with wide range accessories

Important Safety Instructions

Safety Instructions for Installation

A. Install the gate opener only when:

- 1) The opener is appropriate for the construction of the gate and the usage Class of the gate.
- 2) All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 4 feet (1.22 m) above the ground to prevent a 2-1/4 inch (57.2 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position,
- 3) All exposed pinch points are eliminated or guarded.
- 4) Guarding is supplied for exposed rollers.

B. The opener is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.

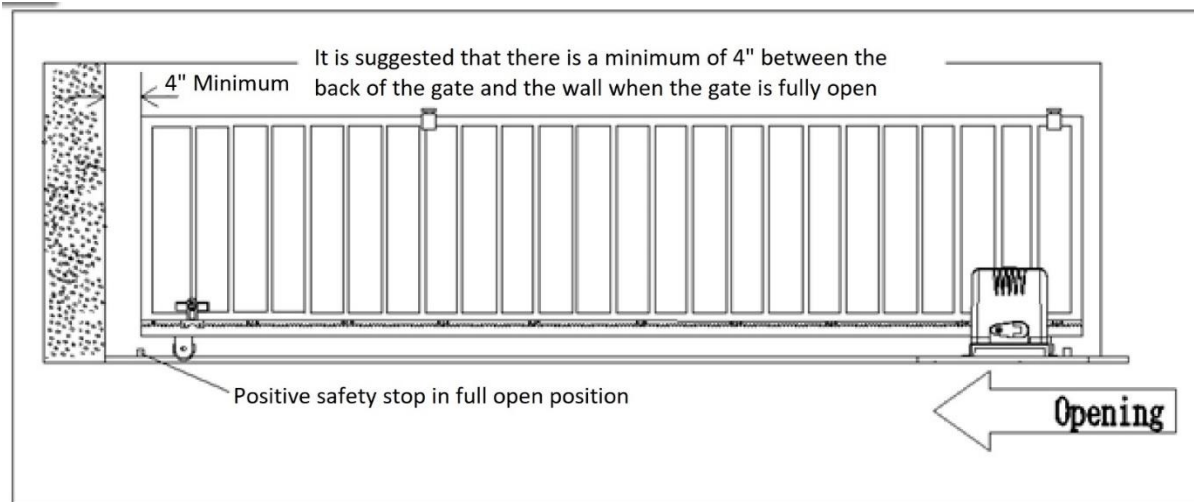
- C.** The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structure-es when opening and closing to reduce the risk of entrapment.
- D.** The gate must be properly installed and work freely in both directions prior to the installation of the gate opener. Do not over-tighten the opener clutch or pressure relief valve to compensate for a damaged gate.
- E.** For gate openers utilizing Type D protection:
- 1) The gate opener controls must be placed so that the user has full view of the gate area when the gate is moving.
 - 2) The placard provided marked in letters at least 1/4-in (6.4-mm) high with the word **"WARNING"** and the following statement or the equivalent: **" Moving Gate Has the Potential of Inflicting Injury or Death – Do Not Start Gate Unless Path is Clear"** shall be placed adjacent to the controls,
 - 3) An automatic closing device (such as a timer, loop sensor, or similar device) shall not be employed.
 - 4) No other activation device shall be connected.
- F.** Controls intended for user activation must be located at least ten feet 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.
- G.** The Stop and/or Reset button must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the opener to start.
- H.** A minimum of two **(2) WARNING SIGNS** shall be installed, one on each side of the gate where easily visible.
- 1) See instructions on the placement of non-contact sensors for each Type of application,
 - 2) Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving in the opening direction.
 - 3) One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.
- I.** For a gate opener utilizing a contact sensor in accordance with Usage Class:
- 1) One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge, and post-mounted both inside and outside of a vehicular horizontal slide gate.
 - 2) One or more contact sensors shall be located at the bottom edge of a vehicular vertical lift gate.
 - 3) One or more contact sensors shall be located at the pinch point of a vehicular vertical pivot gate.
 - 4) A hardwired contact sensor shall be located and its wiring arranged so that the communication between the sensor and the gate opener is not subjected to mechanical damage.
 - 5) A wireless contact sensor such as one that transmits radio frequency (RF) signals to the gate opener for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless contact sensor shall function under the intended end-use conditions.
 - 6) One or more contact sensors shall be located on the inside and outside leading edge of a sliding gate.
- Additionally, if the bottom edge of a sliding gate is greater than 6 inches (152 mm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.



- **Be sure that the opener is installed in a level and paralleled position and is properly secured.**
- **Improper installation could result in property damage, severe injury, and/or death.**

- Before starting installation, ensure that there is no point of friction during the entire movement of the gate and there is no danger of derailment.
- Ensure that the *Warning Signs* are present.

Installation Overview



Power Considerations

The recommended power for this gate operator system is 110-120V AC. The integrated transformer steps the power down to 24Vdc to operate the control panel and operator arms. Please make sure to shut off the power before installation or maintenance. The installation of the 110V AC power supply cable to the Control Box should be done by a qualified professional electrician.

Alternatively, this system can be powered by batteries charged with a 24V solar panel. Two 12Vdc batteries must be wired IN SERIES to provide 24Vdc.

Battery backup is not required. In the event of a power failure there is a manual release lever on the box cover which allows the gates to be opened manually. Turn the key and pull the lever to move the gate manually.

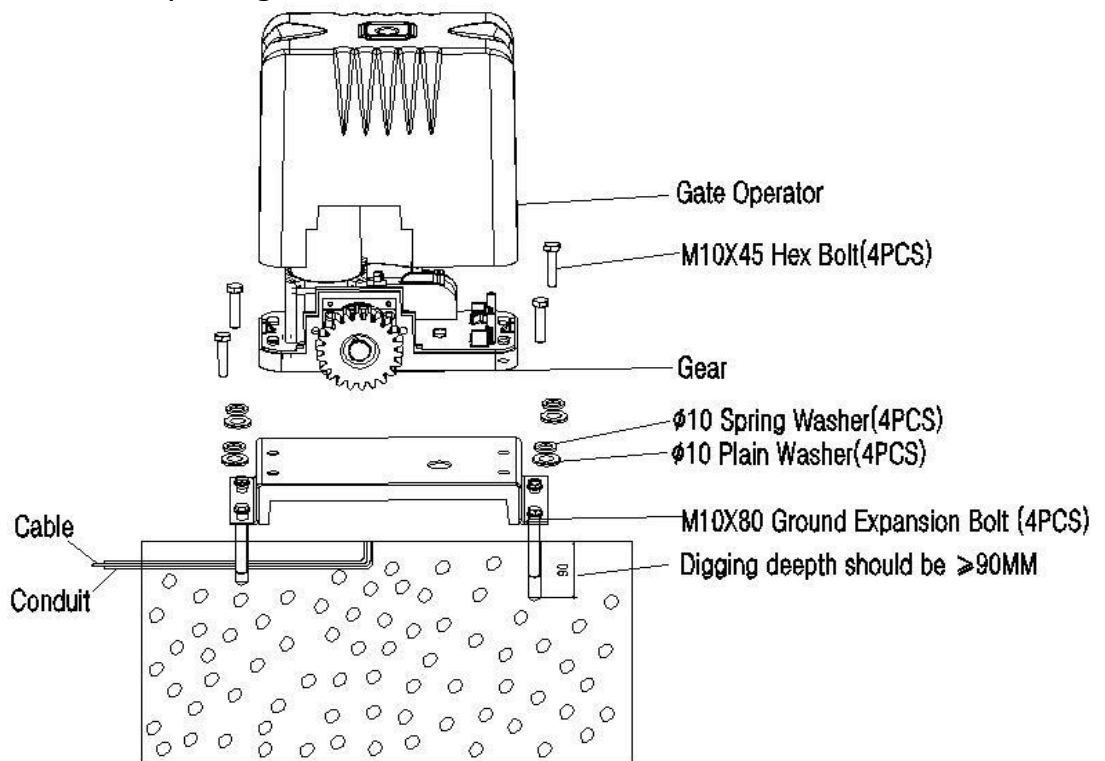
Battery backup may be added by installing two 12v 7ah batteries, wired in series to produce 24Vdc.

The cables for the safety photo beam, exit wand, wired keypad and wired intercom are not required to be placed in conduit but it is highly recommended to do so in order to protect them and to be able to more easily replace them.

It is highly recommended to ground the system with a grounding rod. Attach the grounding wire to the GND connection on the control board.

Installation procedures

1. The default limit setting is for the gate in the closed position. Before installation, please make sure gate is closed.
2. Prepare one or more conduits for the electrical cables. Cable conduits have to pass through the hole in the base plate.
3. Put the base plate on the concrete pad but don't bolt it down yet. This is only a temporary step. Further adjustment will be required when installing the chain.
4. Make the chain go through the chain box. Attach the chain to the gate frame with the chain bolts and chain brackets. (Bolts and brackets supplied in package.)
5. Mount the chain box to the base plate by using screws and washers, don't make the four screws too tight.
6. Move the opener to the proper position. Attach the opener to a concrete platform with 4 expansion bolts supplied in the package.

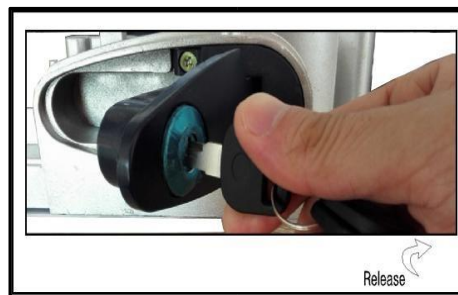
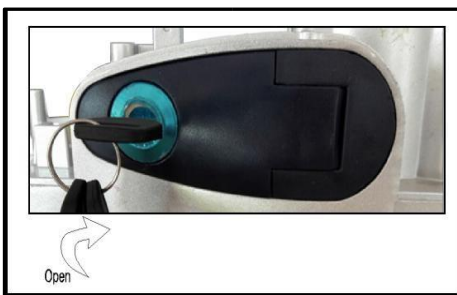


Manual Operation

The opener comes with a manual release in case of emergency

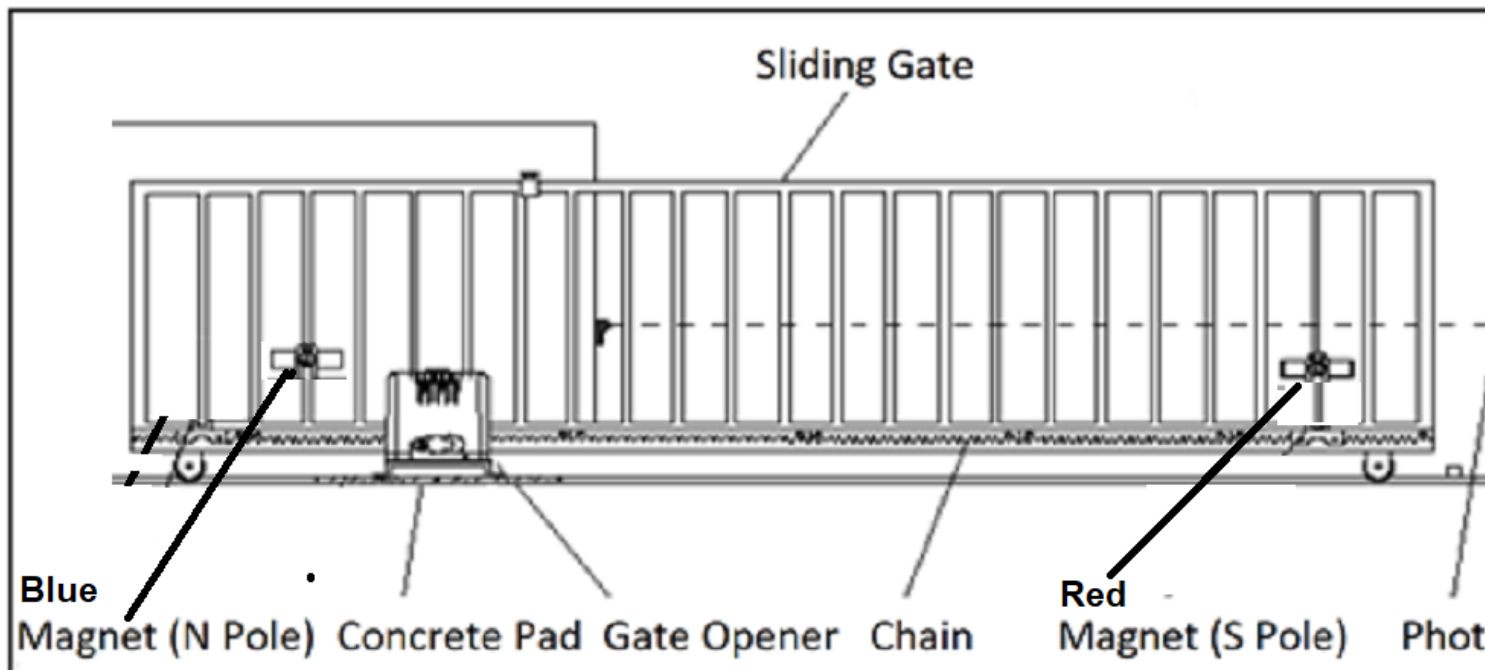
- Insert the manual release key into the release lock, then turn the key clockwise 90 degrees
- Pull out the release lock part way. Now the gear and shaft are disengaged

Refer to the figures below



Installation of the Chain

1. Start with the gate in the closed position
2. The package contains 20 feet of #40 chain.
3. Place one of the ends of the chain section on the top of the gear temporarily. Install the chain, connecting one section at a time and make sure it is level. Mark the chain's mounting holes on the gate before fastening the screws onto the gate
4. Fit the chain with self-threading screws. Please keep 1/16-inch space between the chain and the gear to keep the weight of the gate from affecting the opener



Installation of the Limit Poles

The two magnetic limit poles mount on the gate. The magnets tell the operator where to stop the gate.

THERE ARE TWO WAYS THE GATE CAN OPEN: To the RIGHT or to the LEFT, From the INSIDE Looking OUT.

From the INSIDE looking OUT, IF the gate Slides OPEN to the LEFT:

- The BLUE North Limit Pole Magnet is to the Left and the RED South Limit Pole Magnet is to the Right.

- The Operator is on the LEFT side of the driveway, from the inside looking out
- When the gate is OPEN, the RED South Limit Pole Magnet lines up with the operator.
- When the gate is CLOSED, the BLUE North Pole Magnet lines up with the operator.

From the INSIDE looking OUT, IF the gate Slides OPEN to the RIGHT:

- The RED North Limit Pole Magnet is to the LEFT and the BLUE South Limit Pole Magnet is to the RIGHT
- The Operator is on the RIGHT side of the driveway, from the inside looking out
- When the gate is OPEN, the RED South Limit Pole Magnet lines up with the operator.
- When the gate is CLOSED, the BLUE North Limit Pole Magnet lines up with the operator.

Control Board Wiring

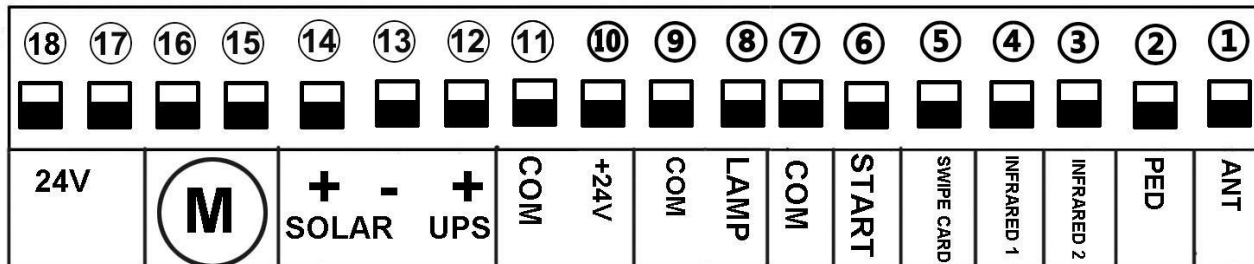


Diagram 6

15 & 16. Motor Terminals: Use for connecting the 24VDC motor.

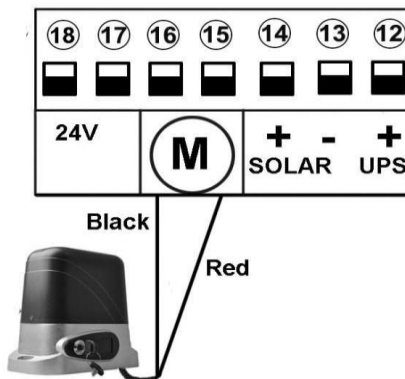
MOTOR POLARITY: There are **TWO** ways to wire the motor.

- **SLIDE TO RIGHT:** From the **INSIDE** Looking Out, the gate slides open to the **RIGHT**

The Operator is installed on the **RIGHT** side of driveway

The **BLACK** Wire to the motor connects to Terminal 16

The **RED** Wire to the motor connects to Terminal 15

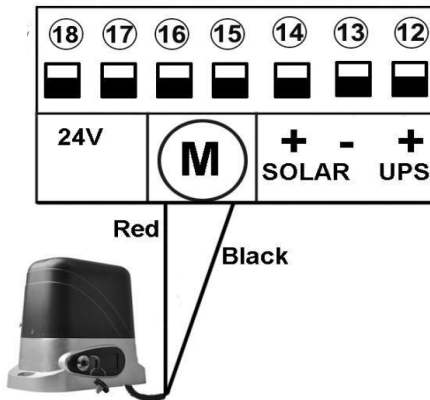


- **SLIDE TO LEFT:** From the **INSIDE** Looking Out, the gate slides open to the **LEFT**

The Operator is installed on the **LEFT** side of driveway from the Inside looking Out

The RED Wire to the motor connects to Terminal 16

The BLACK Wire to the motor connects to Terminal 15



NOTE: When it is operating and wired correctly, when the gate is opening, the blue indicator LED lights up and when the gate is closing, the red indicator LED lights up. The Infrared, Swipe, Start and Ped functions will only work when the gate is going in the correct direction.

17 & 18. 24V Terminal: Used for connecting the 24VAC transformer which brings power to the system

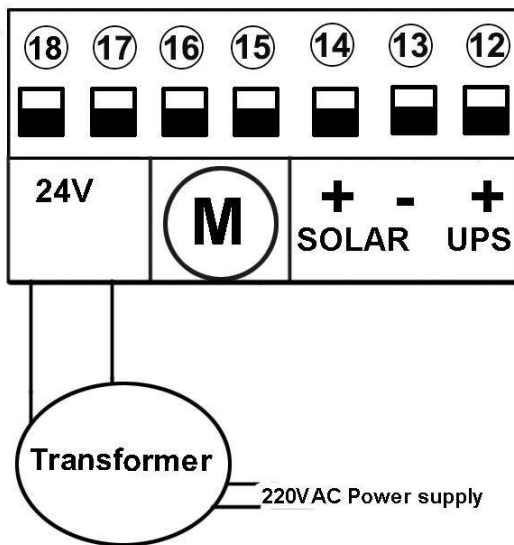


Diagram 16

Connect terminal ⑰ to one of the wires from the transformer

Connect terminal ⑱ to the other wire from the transformer

The two red wires from transformer are for connecting the 120VAC power supply

Ground the chassis with a grounding rod or with a third wire back to ground.

1. **ANT** terminal: Antenna connection

2. **PED** terminal: Used for connecting an external device control for opening pedestrian mode. The gate will open partially. PEDESTRIAN ACCESS IS NOT RECOMMENDED.

3. **Infrared 2** terminal: Used for connecting a safety device like a photo eye. Infrared 2 is used for a photo eye or safety edge in the BACK of the gate, so that when the gate is OPENING if something blocks the beam the gate will stop. This protects from entrapment.

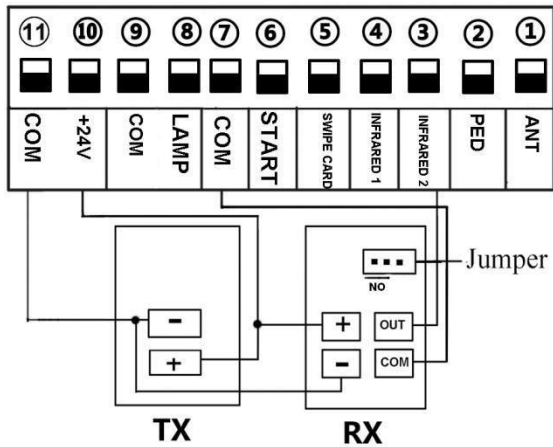


Diagram 7

Connect terminal ⑦ to the “COM” of photocell RX (receiver.)

Connect terminal ③ to the “OUT” or “N.O.” of photocell RX (receiver.)

Terminals ⑩ and ⑪ supply power for external devices such as photo eyes.

Connect terminal ⑩ to the “+” of photo eye RX and TX.

Connect terminal ⑪ to the “-” of photo eye RX and TX.

4. Infrared 1 terminal: Used for connecting a safety device like a photo beam or an edge sensor. The photo beam shoots across the driveway opening. If something blocks the beam or the safety edge encounters pressure, the gate will stop and reverse.

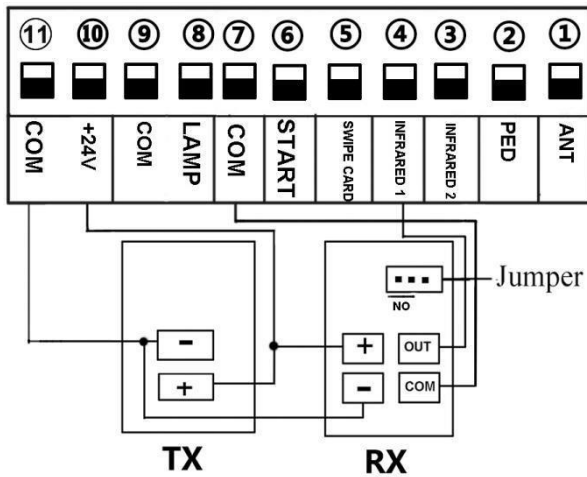


Diagram 8

Connect terminal ⑦ to the “COM” of photo eye RX.

Connect terminal ④ to the “OUT” or “NO” of photo eye RX.

Terminals ⑩ and ⑪ supply power for external devices.

Connect terminal ⑩ to the “+” of photo eye RX and TX.

Connect terminal ⑪ to the “-” of photo eye RX and TX.

5. SWIPE CARD: Used for connecting a Swipe Card system, a Wired Keypad or an Exit Probe.

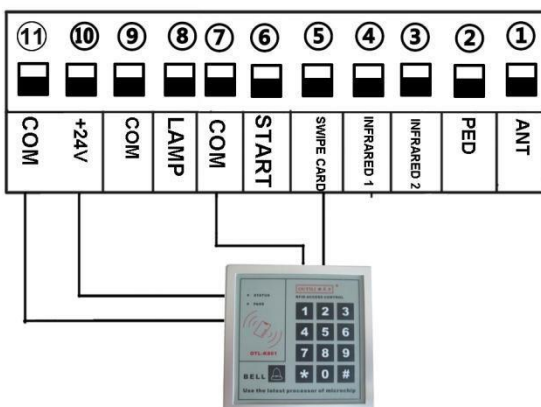


Diagram 9

Example for wired keypad:

Terminal ⑤ and ⑦ connect to wired keypad.

Terminal ⑩ and ⑪ to supply power for the wired keypad.

6. START Terminal: Single button control mode switch, used for controlling the gate “Open-Close-Stop-Open-Close” cyclically. (Note: Holding the button for a long time may affect some other function.)

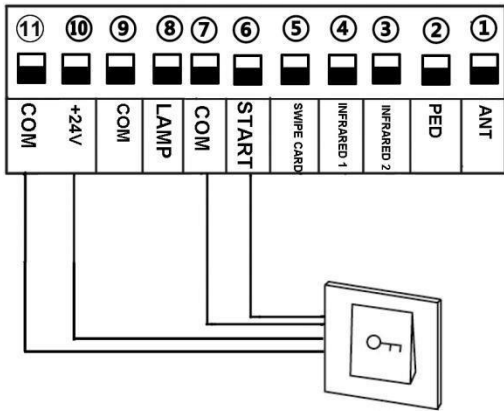


Diagram 9

Example for a push button;

Terminal ⑤ and ⑦ connect to push button.

Terminal ⑩ and ⑪ supply power for push button.

7. COM Terminal: Use for connecting a COM terminal or a GND connection.

8 & 9. Lamp terminal: Use for connecting an optional flashing light. Light flashes while gate is running. Output voltage is DC24V

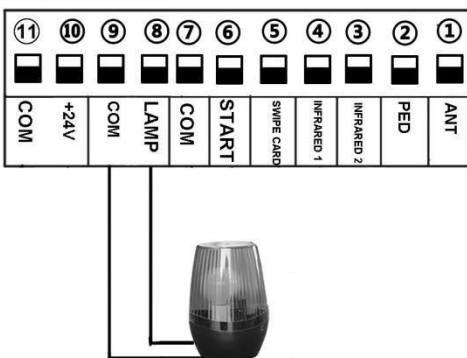


Diagram 11

Terminal ⑧ and ⑨ is for flashing light .

10 & 11 +24V: Provides DC24V for external devices such as an infrared photo eye

12 & 13 UPS terminal: (Uninterruptible Power Supply) Used for connecting back up batteries, which could be charged by the on-board electric power supply. The charging current is 20-50mA. The batteries would supply power automatically when the power is out. When UPS is supplying power to board, the standby current is 20mA, and the current is about 5-10A when the motor is running.

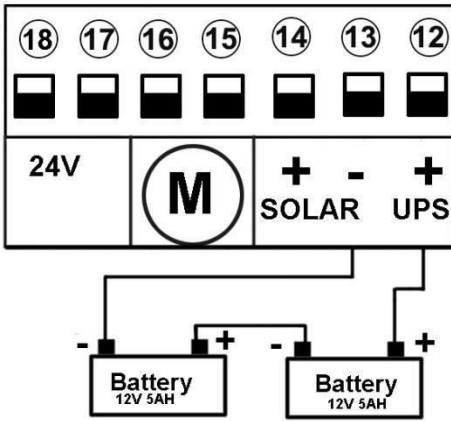


Diagram 12

The control board accepts 24VDC of battery power input. Therefore, connect two 12V batteries in series to create 24V of current.

First connect battery 1 “+” to battery 2 “-”

Then connect battery 1 “-” to terminal ⑬

Then connect battery 2 “+” to terminal ⑫

14 & 13 Solar terminal: Use for connecting a solar panel.

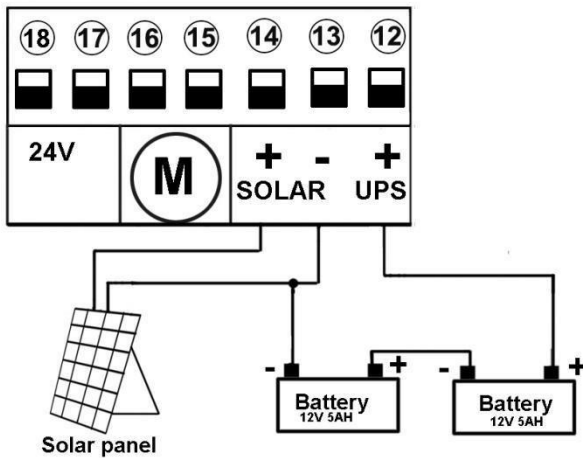


Diagram 13 F

First connect two batteries to UPS as shown above.

Then connect terminals ⑬ - and ⑭ + to the solar panel.

Program a Remote Transmitter

Press the LEARN button on the Control Board for about 1 second, the indicator LED will turn off when the board is in learn mode.

Press any button of the remote transmitter for about 2 seconds. If the programming is

successful, the indicator LED on the board will flash four times and the buzzer will sound once.

Note: After you press the LEARN button, if you don't press a button on the remote within 5 seconds, the indicator LED will turn on and the Control Board will exit the learn mode.

Program the ONE BUTTON function on the Control Board

****NOTE:** This will make it easier to test the operator ******

To change the P8 Function setting from 00 to 01:

Press and hold the FUN (Function) button. After a self test is performed, the display will say P0

Press and release the +INC (Increase) button several times until the display says P8

Press and release the FUN button to show the current setting of P8 (Factory setting is 00)

Press and release the +INC button to change it to 01

This allows the remote transmitter to use one button (top left) to Open, Stop, and Close the gate.

IMPORTANT - Test the Operator: To keep things simple, at this point it is recommended to test the operator before installing other accessories such as a photo eye, exit sensor or keypad. This will prevent installation problems by keeping the setup simple.

This is also a good tip whenever you are troubleshooting: Disconnect the accessories such as the photo eye and exit sensor, make sure the gate is working, then connect the accessories again one at a time and test.

IMPORTANT – Until the magnets are set right, be ready on the power switch to stop the gate.

Installing the AGA Wireless Keypad

****NOTE:** Have the keypad in hand at the gate control box when programming. Do not mount keypad on gooseneck mounting post yet.

Open the keypad with the included wrench and install the batteries. The alarm will sound. Replace the cover on the keypad and the alarm will stop. If the keypad alarm does not stop, open the keypad again and bend up the lever slightly.

RESET Switch: When you have the keypad open, notice there is a small hole where you could insert a paper clip. This is the reset switch. If you are having trouble programming, insert a paper clip for 5 seconds and then start over.

Step 1: Connect the keypad to the gate operator control board

Enter 0000* to enter programming mode.
(Expect one long beep)

(Note: 0000 is the default code for programming)

(Note: The blue backlight will light when in programming mode)

Press 55#; keypad will beep once to confirm

This sends a signal to the receiver on the operator control board.

For a single gate press 01#

For a double gate press 02#

Press and release the red Learn button on the operator control board.

The control board will beep, and the digital display will show a number.

Be careful not to hold the LEARN button down or it will reset all the settings.

Step 2: Test using the default code

For a single gate press 1111# to activate the gate.

For a double gate press 2222# to activate the gates.

Step 3: Add a keypad code

Enter 0000* to enter programming mode (expect one long beep)

For a single gate press 01# (expect one beep)

For a double gate press 02# (expect two beeps)

Enter the new 4-digit pin followed by the # key; for example, 2020#

(expect one long beep and one short beep to confirm)

Keypad will automatically exit programming mode

If the code does not work, start over, and if it still does not work, reset the keypad. You may add a total of three keypad codes

Step 4: Mount the keypad on the gooseneck mounting post

Note: The keypad will fit better on the goose neck mounting post if you use a 4" x 5" piece of Trex material as an adapter between the mounting plate and the keypad

How to change the master programming code:

Enter the current installer code, for example 0000 (expect one long beep)

Press 69# (expect one short beep)

Key in new 4-digit installer code followed by the # key for example 4640#

(expect one long beep and one short beep)

Keypad will automatically exit programming mode

Installing Safety Photo Eyes

We offer two types of photo eyes: through-beam and reflective. A through-beam photo eye has a wired transmitter on one side of the driveway and a wired receiver on the other side. A reflector photo eye has a transmitter/receiver on one side of the driveway and a reflector on the other side.

For protection ACROSS the driveway use Normally Open

If the photo eye has a "jumper", set the jumper to NO (Normally Open.)

Connect Out/N.O. (Black) on the photo eye to IR1 (4) on the control board.

Connect Power + (Brown) on the photo eye to 24v (10) on the control board.

Connect Negative – (Blue) on the photo eye to COM (11) on the control board.

Connect Common (Yellow) on the photo eye to COM (7) on the control board.

(All Commons and Negatives from all photo eyes connect to the same terminal COM (7) on the control board.)

White wire is not used

For protection BEHIND the gate use Normally Closed

If the photo eye has a “jumper”, set the jumper to NC (Normally Closed)

Connect Out/N.C. (White) on the photo eye to IR2 (3) on the control board.

Connect Power + (Brown) on the photo eye to 24v (10) on the control board.

Connect Negative – (Blue) on the photo eye to COM (11) on the control board.

Connect Common (Yellow) on the photo eye to COM (7) on the control board.

(All Commons and Negatives from all photo eyes connect to the same terminal COM (7) on the control board.)

Black wire is not used

Test the photo eyes by activating the gate and then blocking the beam.

The gate will reverse. The gate will stay open as long as the beam is blocked.

As soon as the beam is no longer blocked, the gate will begin closing in 2 seconds.

IR1 vs IR2. IR1 is for protecting the area where the gate is closing towards. IR2 is for protecting the area where the gate is opening towards.

INSTALLING AN AUTOMATIC EXIT SENSOR

(Also known as an Exit Wand or Exit Probe) An automatic exit sensor is buried alongside the driveway and uses the earth’s magnetic field to detect moving metal. When the field is disturbed the gate is triggered to open.

Dig a shallow trench and bury the exit sensor. It is not necessary to use a PVC conduit, but it is a good idea in order to protect it and to make it easier to replace.

NOTES:

- Wire the exit sensor LAST after testing gate with remotes and keypad and photo beams
- Connect exit sensor with Power OFF
- When you Power ON, the exit sensor will calibrate and signal the gate to open
- P4 Function controls auto close time after SWIPE; changing it to "0" turns off auto close

Wiring Instructions for Exit Sensors:

Amazing Gates Exit Probe

Blue --- "SWIPE" (5)

Green --- "COM" (7)

Red --- "24Vdc" (10)

Black--- "GND" (11)

Yellow (not used)

Cartel Exit Probe

Blue --- "SWIPE" (5)

Black --- "COM" (7)

Red --- "24V" (10)

White --- "COM" (7)

Shield/bare wire --- COM (11)

Green/Yellow (not used)

There is a Blue Sensitivity Control inside the device with two switches and three options: High = 12-14' radius, Med = 6-8', Low = 2-3'

EMX Exit Probe

Brown --- "SWIPE" (5)

Black & Green--- "COM" (7)

Red --- "24V" (10)

White (not used)

Wiring a Timer

N.O. --- "SWIPE" (5)

Com --- "COM" (7)

Power + --- "24V" (10)

Power - --- "GND" (11)

Note: Programming P4 controls auto close time seconds after SWIPE; changing it to "0" turns off auto close.

Installing a Wired Keypad or Intercom

A wired keypad or an intercom can activate the gate by a relay which is two wires completing a circuit. They can get their power from their own transformer plugged into a 110V AC power source or they can get their power from the operator control board.

Wired Keypad Wiring Guide:

Relay or N.O. --- "START" (6)

COM --- "COM" (7)

Positive + --- "24V" (10)

Negative - --- "GND" (11)

(Could also use "SWIPE" instead of "START" but then you can't close the gate by keying in the code again.)

Installing a Radio Receiver

The control board includes its own radio receiver, and two remotes come with the system.

In some cases, you might want to add another receiver, for example if you want to use a different wireless keypad such as the Liftmaster KPW5. In that case you could add the Liftmaster 850LM receiver.

Wiring instructions for a radio receiver:

Liftmaster 850LM Radio Receiver

N.O. --- "START" (6)

COM --- "COM" (7)

Negative --- "COM" (11)

Positive --- "24V" (10)

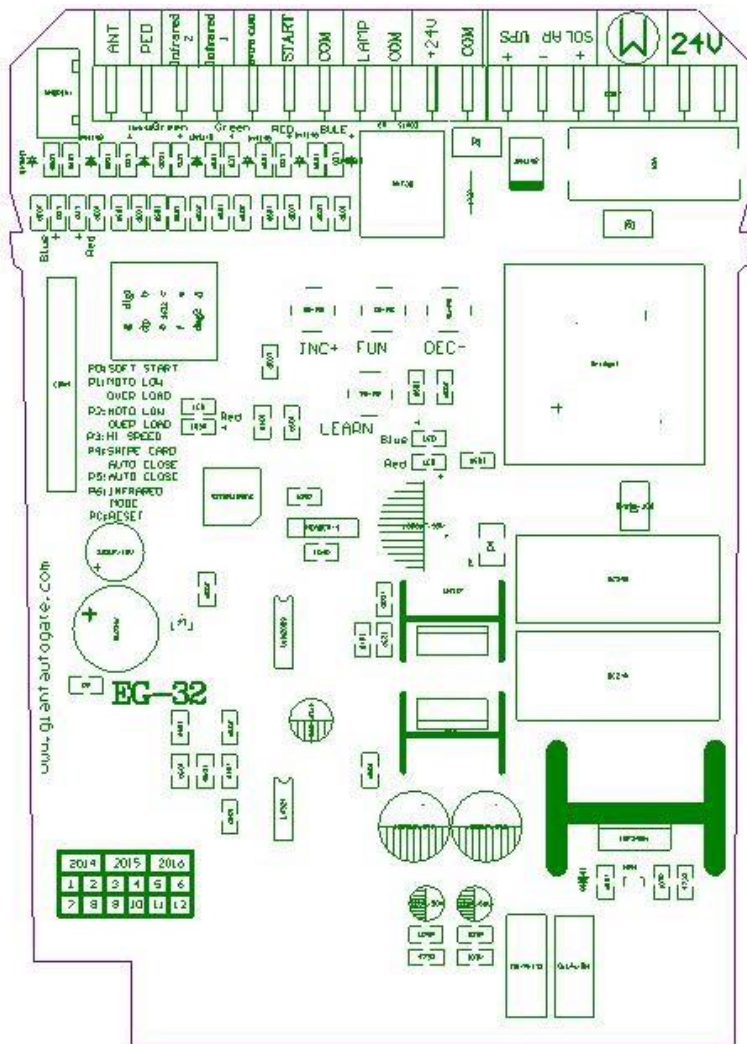


Diagram 16

Control Board Functions and Settings

Status Indicator LED	When the board has power, the status indicator LED is lit
Motor open-close instruction	The Blue LED lit up means the gate is Opening The Red LED lit up means the gate is Closing
Remote Transmitters	Encoding format: Proprietary rolling code. Maximum Capacity is 120 transmitters. In single button control mode, you can cycle through the operations of “open-stop-close-open”. P8 = 1 The board can be customized to work with the EV1527 remote (you have more control with three remote buttons). P8 = 0 The three buttons on the remote control can be used to open, close and stop the gate.

LEARN Remote Transmitter Code	Press the Learn button at least 1 second and then release; the LED indicator will go out; now press the button of the remote control; if LED indicator blinks 4 times, the transmitter succeeded in being “Learned” by the board, if the board does not receive any signal from the transmitter within 5 seconds, the LED indicator lights up and the board exits Learn mode. NOTE: Be careful not to hold down Learn button too long or it will CLEAR all the codes.
Clear Transmitter Codes	Press and hold down Learn button for at least 5 seconds (the LED indicator goes out during this process), the LED indicator will light up to indicate all transmitter codes have been removed successfully.
Remote Transmitter Copy (Giant rolling code transmitter)	Additional identical remote transmitters can be added without using the Learn button. When adding a remote, press the remote button about 5 seconds until the digital display shows the remote number. The indicator will blink twice and the buzzer will beep, indicating it has been added.
Single button control mode START	<p>When Function P8 is set to “1”, only one button of the remote transmitter operates the gate, and it cycles through Open-Stop-Close.</p> <p>When Function P8 is set to “0”, on a three-button remote, the three buttons become Open, Stop & Close.</p> <p>On a single button remote, it cycles through Open-Stop-Close.</p>
Pedestrian mode PED	Function P7 Tells gate how fast to open gate when PED access device is activated. It is not recommended to use automatic driveway gates for pedestrian access. “0” turns off PED mode. Can be to 1 to 20 seconds; factory setting is 5 seconds. A fourth button on the remote can activate gate, or a push button connected to the PED terminal.
MOTO Intelligent change speed system	<p>The motor has high speed, slow speed, slow stop. High speed running time may be adjusted through the digital display.</p> <p>P3 set to 1: Activate Hi-speed function, motor runs with full high speed (Not Recommended)</p> <p>P3 set to 0: The system will auto assign the high-speed running time after customer sets PA and PB soft stop time for opening and closing</p> <p>Soft start can be set off or on (0, 1) via P0</p>

<p>Limited and Resistance functions</p>	<p>Limits: These determine when motor will stop running after reaching the open & close limits</p> <p>Meeting an Obstacle or Resistance: If the gate encounters resistance when opening, the gate will stop. If the gate meets resistance when closing, the gate will stop then reverse. The sensitivity of resistance can be adjusted through the digital display.</p> <p>Functions P1 and P2 determine the resistance level.</p>
<p>Auto Close</p>	<p>The Auto Close function is only activated after the gate reaches the open limit switch</p> <p>Auto close time is adjustable through the digital display from 0-99s</p> <p>There are three kinds of auto close:</p> <ol style="list-style-type: none"> 1. Auto close after gate opens via the Remote Transmitter, Wireless Keypad or START connection, controlled by P6 2. Auto close after gate opens via the SWIPE connection, controlled by P4 3. Auto close after gate opens under PED mode (not recommended), controlled by P5 <p>When the Auto Close timer starts the countdown, the indicator blinks every 1 second</p>
<p>INFRARED mode 2</p>	<p>A photo eye connected to Infrared 2 should be in the back of the gate, where the back end of the gate is opening toward. This is to prevent entrapment.</p> <p>When the gate is OPENING, if something blocks the beam, the gate will stop and close.</p>
<p>Alarm/Warning Light Control</p>	<p>Function P9 Setting of 0 activates the warning light output terminal when the gate is opening or closing and stays on for 30 seconds after the gate has closed</p>
<p>Motor protection</p>	<p>If the motor is running continuously for over 60 seconds, the control board stops the motor to protect it from burning out</p>

Digital Display Settings

Note: Only change settings and connect remote transmitters when the gate is not running and the auto close timer is not counting down

Note: When the board is powered on, the digital display will self-check from 00-99 and sound the buzzer. If the blue LED indicator is on, and the buzzer stops, it means the system is normal.

To begin programming, **press and hold** the FUN (function) button until the digital display shows P0.

Press INC+ or DEC- to go to the next setting type: P0, P1, P2, etc.

Press FUN to see the current value for that setting.

Press INC+ or DEC- to change the value.

After you select the value you want, press FUN to store the setting.

Programming can be terminated at any time by pressing the LEARN button.

Be careful not to hold the LEARN button down or it will clear all the remotes.

After storing the setting, the digital display will stay on the same setting number.

To go to the next setting number, press INC+ or DEC- and confirm with FUN.

For example, after you store the P0 value and press FUN to store it, then the digital display would still show P0. If you want to adjust P1, press INC+, until the display shows P1 and then press FUN to select P1. If you do not need to change another setting, press the LEARN button to exit.

Setting	Name	Range	Default Setting	Effect
P0	Soft Start & Stop	0, 1	1 (ON)	0 = Disable Soft Start 1 = Enable Soft Start
P1	Low Speed Resistance	Level 0 - 20	Level 8	When to Reverse when encountering resistance
P2	High Speed Resistance	Level 0 - 20	Level 10	When to Reverse when encountering resistance

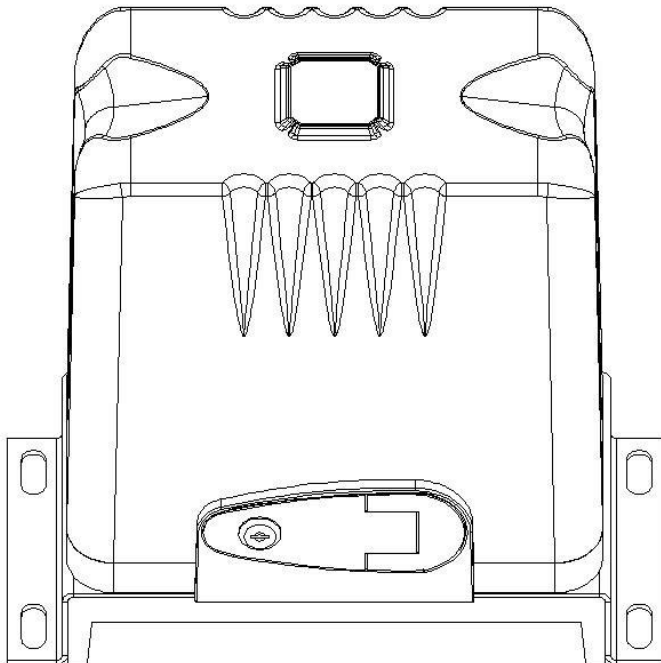
P3	High Speed	0, 1	0 (OFF)	0 = Disable High Speed (Recommended) 1 = Activate Hi Speed Mode, disables P0,PA,PB settings
P4	Auto close time for SWIPE connection	0 - 99s	10s	Delays Auto Close for a number of seconds after opening via SWIPE connection
P5	Pedestrian mode auto close time	0 - 99s	10s	Holds gate open for number of seconds
P6	Auto close	0 - 99s	0 = OFF	AUTO CLOSE Closes gate after a number of seconds after opening via START Connection, Keypad and Remote Transmitters
P7	Pedestrian mode gate open time	0 - 20s	5s	PED Automatic Gates are NOT recommended for Pedestrian Access
P8	Single button mode (key4)	0, 1	0 (OFF)	One Button Cycles through Open-Stop-Close
P9	Alarm/Warning Light output control	0, 1	0 (OFF)	Lights Lamp/Sounds Alarm
PA	Slow speed time during gate opening	0 - 5s	2S	
PB	Slow speed time during gate closing	0 - 5s	2S	
PC	RESET			RESET ALL SETTINGS TO DEFAULT

Auto travel learning

Note: Before activating Auto travel learning, the gate should be in the close limit position (close limit indicator is off). Any interruption happening during the auto travel learning process will cause the setting to fail.

Steps: Move the gate to the close limit position and press and release the FUN 5 times. You should hear a long beep from the buzzer and the motor will start working a complete cycle of open/close. During the auto travel

learning process, the digital display will show the working time of the complete working cycle, and after the gate moves to the closed position, another long beep can be heard and the display goes off. The board will automatically set the high speed and slow speed working time based on how much time you set for slow speed in PA and PB. Adjust PA and PB until the gate operates smoothly. If the PA and PB settings are quite different from the actual running time, please repeat the above learning step. When the learning time in a certain direction is less than 3 seconds or the learning time difference of both directions is more than 5 seconds, the auto travel learning operation will fail.



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