

CHAMBERLAIN®

**ELITE™**



Instruction Manual  
**SL3000UL™ SERIES**  
HIGH TRAFFIC COMMERCIAL GATE OPERATOR

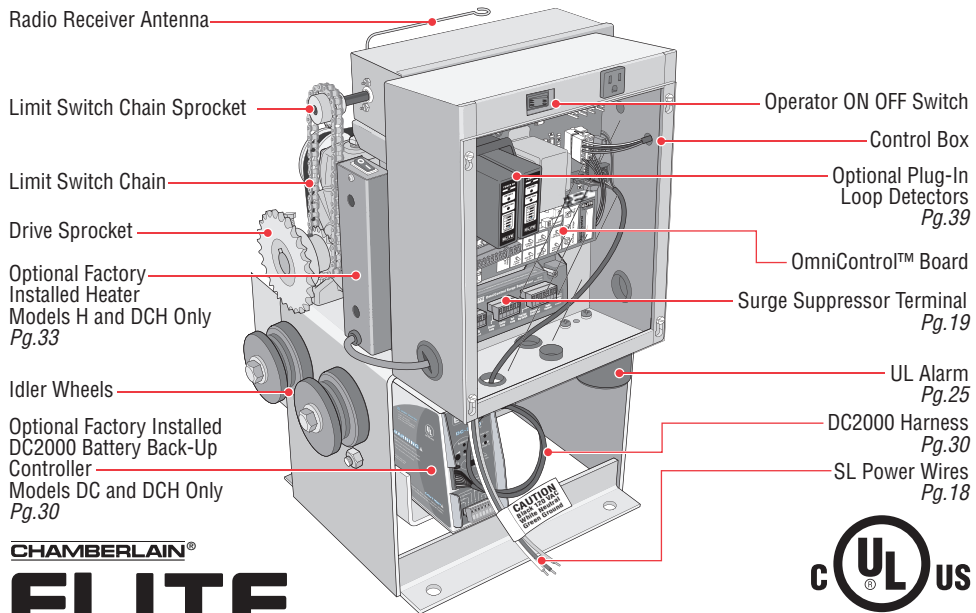
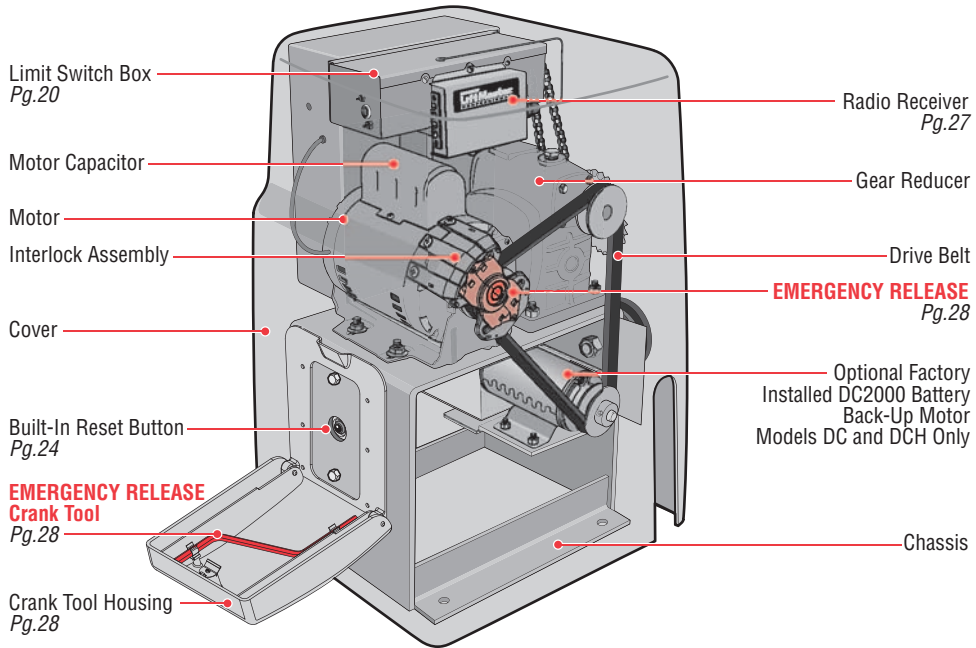
**UL325 UL991**  
compliant compliant



installation instructions and manual book  
for architects, general contractors and dealers

# SL3000UL™

## Overview



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Please **DO NOT** Touch me!..  
Unless you are an Authorized  
Service Technician!



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For Technical Support: **1-800-528-2806**

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## **R O L E O F S P E C I F I E R S A N D D E S I G N E R S**

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### **Specifiers and designers should design an automatic vehicular gate system to:**

- Incorporate UL 325 compliant equipment.
- Utilize an operator suited for gate system type, size, frequency of use, location and user population. (Refer to UL 325 for usage class definitions)
- Separate pedestrian access from vehicle access.
- Reduce or eliminate pinch points.
- Reduce risk of entrapment injuries by minimizing all gaps in the gate and enclosing the area of the travel of the gate.
- Secure controls from unauthorized use.
- Locate all controls out of reach from the gate.
- Allow the user full view of the gate when operating.
- Consider special populations, such as children or the elderly.
- Conspicuously display all warnings and instructions.
- Be consistent with DASMA's Automatic Gate Opener System Safety Guide.

## **R O L E O F D E A L E R S , I N S T A L L E R S A N D T R A I N E D G A T E S Y S T E M T E C H N I C I A N S**

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### **Installers, during the course of the installation proceedings for each job, should:**

- Confirm that the gate operator being installed is appropriate for the application.
- Confirm that the gate is designed and built according to current published industry standards.
- Confirm that all appropriate features and accessory devices are being incorporated, including both primary and secondary entrapment protection devices.
- Make sure that the gate works freely before installing the operator.
- Repair or service worn or damaged gate hardware before installing the operator.
- Eliminate all gaps in the sliding gate below a 4 foot height that permit a 2 1/4 inch sphere to pass through any location, including the area of the adjacent fence covered when the gate is in the open position.
- Install the gate operator according to the manufacturer's installation instructions.
- Adjust the operator clutch or load-sensing device to the minimum force setting that allows reliable gate operation.
- Install operator inside fence line (DO NOT install operator on public side of fence line)
- Install a proper electrical ground to a gate operator.
- Install keypad controls where users cannot touch, or reach through gate while operating controls.
- Install controls where user has full view of gate operation.
- Install all warning signs (In accordance with UL 325) on both sides of the gate to warn persons in the area of potential hazards associated with automatic vehicular gate operation.
- Test all features for proper functions before placing the automatic vehicular gate into service.
- Demonstrate the basic functions and safety features of the gate system to owners/end users/general contractors, including how to turn off power and how to operate the manual disconnect feature.
- Leave safety instructions, product literature, installation manual and maintenance manual with end user.
- Explain to the owners the importance of a service contract that includes a routine re-testing of the entire system including the entrapment protection devices, and explain the need for the owners to insure that this testing is performed routinely.  
Offer the owner/end user a maintenance contract, or contact them regularly to offer maintenance.

## ROLE OF END USERS / HOME OWNER

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### End users should be made aware that they must:

- Contact a trained gate systems technician to maintain and repair the gate system. (End users should never attempt to repair the gate)
- Retain and utilize the installation and maintenance manual and safety instructions.
- Routinely check of all gate operator functions and gate movement.
- Discontinue use if safety systems operate improperly, the gate is damaged, or the gate is difficult to move.
- Never over tighten the operator clutch of load sensing device to compensate for a damaged or stiff operating gate.
- Prominently display and maintain warning signs on both sides of the gate.
- Keep all obstructions clear of the vicinity of the path of the gate system.
- Actively discourage pedestrian use of the vehicular gate operating system.
- Prevent anyone from playing near any part of the gate system.
- Never allow anyone to climb under, over or through a gate or the adjacent fence area.
- Never allow children to operate gate
- Keep portable controls out of reach of children.
- Never allow anyone to install an operating control within reach of the gate.
- Never allow anyone to install a horizontal slide gate with exposed rollers or openings large enough to allow a sphere of 2 1/4 inches to pass through any portion of the gate below a 4 foot height, including the area of the adjacent fence covered when the gate is in the open position.
- Always be certain that the gate area is clear of pedestrians before operating the gate.

## HORIZONTAL SLIDE GATE SYSTEMS

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- **Entrapment Zone Hazard** - Body parts may become entrapped between a gate and a stationary object when the gate begins to move, which can result in serious injury or death. Pedestrians must stay clear of the gate path, and any area where gate motion is close to stationary objects.
- **Pinch Points Hazard** - In open rollers gates, hands can get caught between the top of the gate and top rollers, which can result in serious injury. Feet can be injured in the same manner between the bottom of the gate and bottom rollers. Covers to guard these pinch points should be installed.
- **Crush Hazard** - In picket gates, body parts positioned between the bars can become seriously mutilated when the gate begins to move, which can result in serious injury or death. If any openings are greater than 2 1/4 inches, a screen should be installed over the gate (in accordance with the provisions of UL 325) to prevent persons from reaching through and/or passing through the gate. In like manner, screening should also be applied to the adjacent fence area covered by the gate when in the fully open position.
- Be sure that warning signs are prominently displayed on both sides of the gate and any other place where danger exists.

## ***Installation Instructions regarding the SL3000UL™***

- A)** Install the gate operator only when:
- 1)** The operator is appropriate for the construction 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 (1.2 m) above the ground to prevent a 2 1/4inch (57.15 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 operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening.
- C)** The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates shall not open into public access areas.
- D)** The gate must be properly installed and work freely in both directions prior to the installation of the gate operator. Do not over-tighten the operator clutch to compensate for a damaged gate.
- E)** Controls must be far enough from the gate so that the user is prevented from coming in contact with the gate while operating the controls. Controls intended to be used to reset an operator after 2 sequential activations of the entrapment protection device or devices must be located in the line of sight of the outdoor gate or easily accessible controls shall have a security feature to prevent unauthorized use.

## **U L L I S T I N G S   A N D   I N S T R U C T I O N S**

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**F)** All warning signs and placards must be installed where visible in the area of the gate. A minimum of two placards installed. A placard is to be installed in the area of each side of the gate and be visible to persons located on the side of the gate on which the placard is installed.

**G)** For a gate operator utilizing a non-contact sensor such as a photo beam:

- 1)** See instructions on the placement of non-contact sensor 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.
- 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.

**H)** For a gate operator utilizing a contact sensor such as an edge sensor:

- 1)** One or more contact sensors shall be located at the leading edge, trailing edge and post mounted both inside and outside of a vehicular horizontal slide gate.
- 2)** A hardwired contact sensor shall be located and its wiring arranged so that the communication between the sensor and the gate operator is not subjected to mechanical damage.
- 3)** A wireless contact sensor such as the one that transmits radio frequency (RF) signals to the gate operator 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.

### ***Important Safety Instructions***

 **WARNING** - *To reduce the risk of injury or death:*

- 1) ***READ AND FOLLOW ALL INSTRUCTIONS.***
  
- 2) ***Never*** let children operate or play with gate controls. Keep the remote control away from children.
  
- 3) ***Always keep people and objects away from the gate.***  
***NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.***
  
- 4) Test the gate operator monthly. The gate **MUST** reverse on contact with a rigid object or stop when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate operator, Failure to adjust and retest the gate operator properly can increase the risk of injury or death.
  
- 5) Use the emergency release only when the gate is not moving. Make sure the power for the gate operator is off.
  
- 6) ***KEEP GATES PROPERLY MAINTAINED.*** Read the manual. Have a qualified service person make repairs to the gate or gate hardware.
  
- 7) ***The entrance is for vehicles only. Pedestrians must use separate entrance.***
  
- 8) ***SAVE THESE INSTRUCTIONS.***

# UL LISTINGS AND INSTRUCTIONS

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## UL Definition of Terms

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**Gate** – A moving barrier such as a swinging, sliding, raising lowering, rolling, or like, barrier, that is a stand-alone passage barrier or is that portion of a wall or fence system that controls entrance and/or egress by persons or vehicles and completes the perimeter of a defined area.

**Vehicular horizontal slide-gate operator (or system)** – A vehicular gate operator (or system) that controls a gate which slides in a horizontal direction that is intended for use for vehicular entrance or exit to a drive, parking lot, or the like.

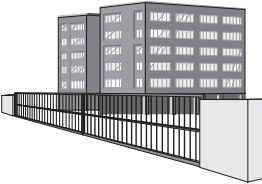
## UL Gate Classifications

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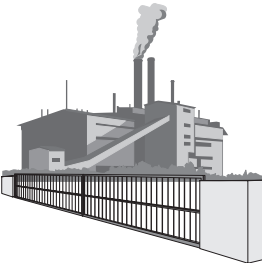
### **Class I – Residential vehicular gate operator**

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.



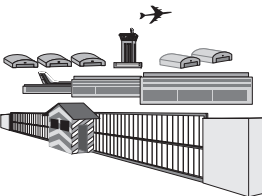
### **Class II – Commercial/General access vehicular gate operator**

A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units) hotel, garages, retail store or other building servicing the general public.



### **Class III – Commercial/General access vehicular gate operator**

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.

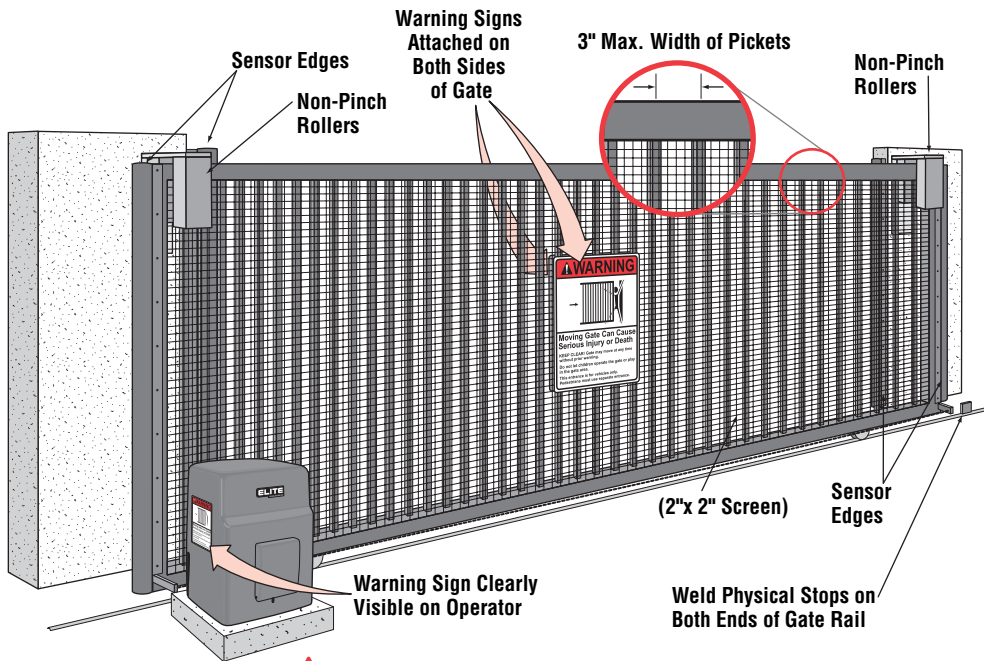


### **Class IV – Restricted access vehicular gate operator**

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.



## RECOMMENDED SETUP



**⚠ Pedestrians Must have a Separate Walkway!**

## SPECIFICATIONS

***SL3000UL™, SL3000ULDC™  
SL3000ULH™, SL3000ULDCH™***

1/2 hp Motor, 120 Vac, 4 Amp.  
Maximum Gate Length – **37 ft.**  
Maximum Gate Weight – **1000 lbs.**  
Maximum Pull – **105 lbs.**

***SL3000UL1HP™  
SL3000UL1HPH™***

Two 1/2 hp Motors, 120 Vac, 8.4 Amp.  
Maximum Gate Length – **37 ft.**  
Maximum Gate Weight – **2000 lbs.**  
Maximum Pull – **180 lbs.**

***SL3000ULDM™, SL3000ULDMDC™  
SL3000ULDMH™, SL3000ULDMDCH™***

Two 1/2 hp Motors, 120 Vac, 4.7 Amp.  
Maximum Gate Length – **37 ft.**  
Maximum Gate Weight – **800 lbs.**  
Maximum Pull – **100 lbs.**

**DM** - Dual Motor

**1HP** - One Horse Power

**H** - Factory Installed Heater

**DC** - Factory Installed DC2000 Backup System



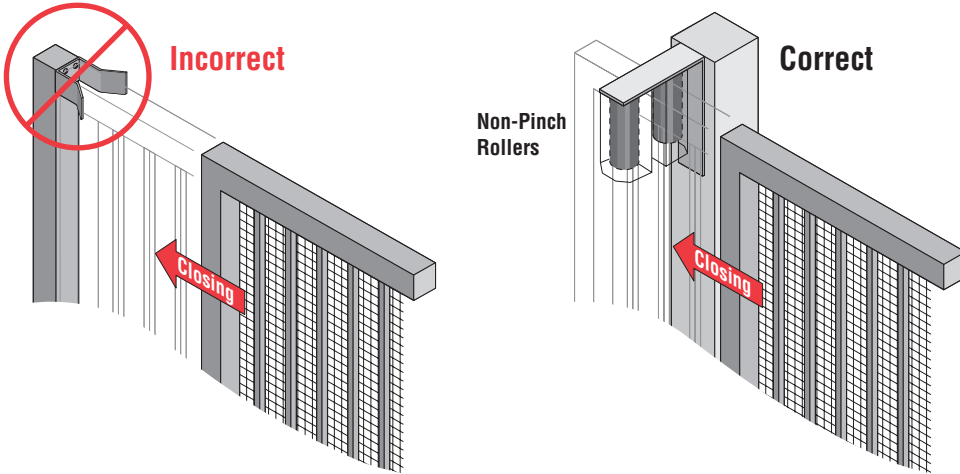
*Be sure to read and follow all Chamberlain Elite and UL instructions before installing and operating any Chamberlain Elite products. The Chamberlain Group, Inc is not responsible for improper installations or failure to comply with local building codes.*

**Setup and Specifications**

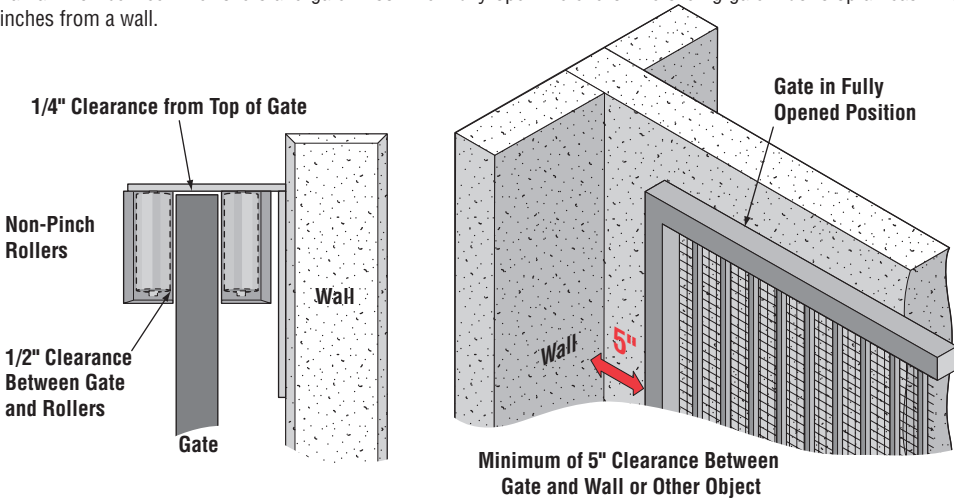
# G A T E P O S T W A R N I N G

## Important Notice!

Because the coasting distance may vary due to changes in temperature, Elite does **NOT** recommend the installation of a stop or catch post in front of the gates path. To do so will cause the gate to hit the post in certain instances.



Elite only recommends installation of catch rollers on the side of a catch post or wall with a minimal distance of half an inch between the rollers and gate. Also when fully open the end of the sliding gate must stop at least five inches from a wall.



For safety reasons, a physical stop must be installed on the gate prior to installation of the gate operator. This will assure that the gate does not exceed movement limits and derail while opening or closing fully.

# MOUNTING REQUIRED WARNING SIGNS

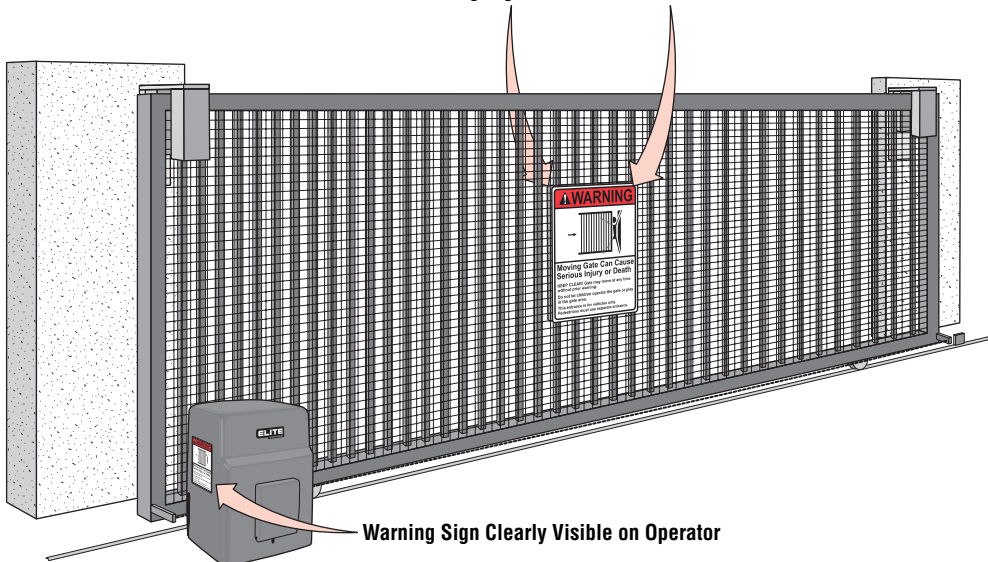


## Important Notice!

Installers are **required** to adhere to this procedure: The UL required Warning Signs **must** be installed in plain view and on both sides of each gate installed. Each sign is made with fastening holes in each corner and should be permanently secured in a suitable manner. Also the warning sticker should be placed on the operator so it is clearly visible. Installers should keep photos of signs on gate in their records.

Mounting Required Warning Signs

Warning Signs Attached on Both Sides of Gate



# TYPES OF INSTALLATION

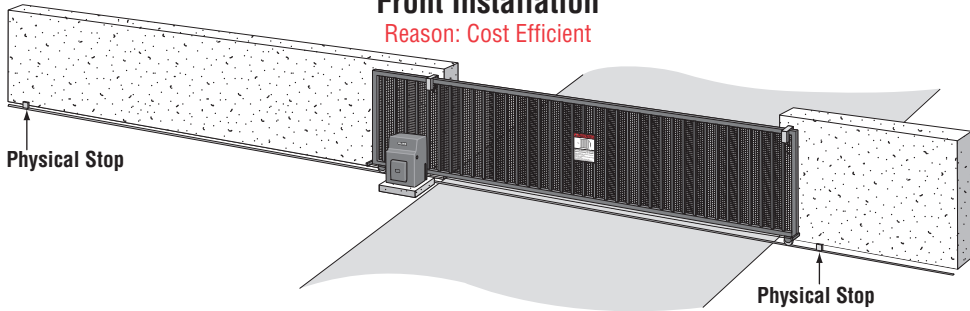


It is highly recommended installing over-travel stops at both ends of the gate rail in any type of installation, to prevent derailing.

## Types of Installation

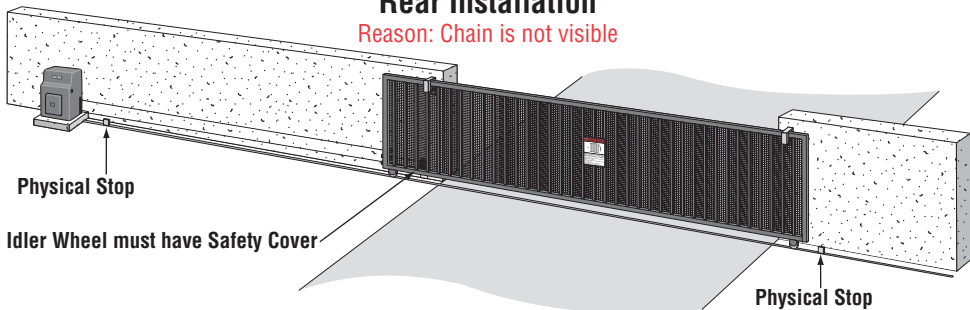
### Front Installation

Reason: Cost Efficient



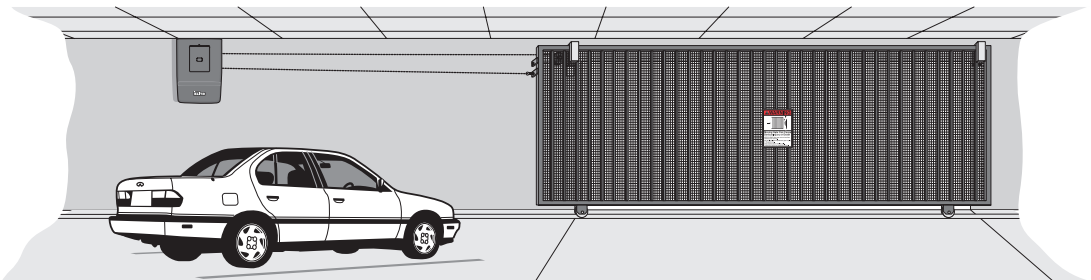
### Rear Installation

Reason: Chain is not visible



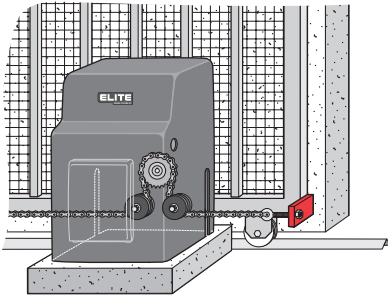
### Ceiling Mount Installation

Reason: Space Efficient - Chain is not visible

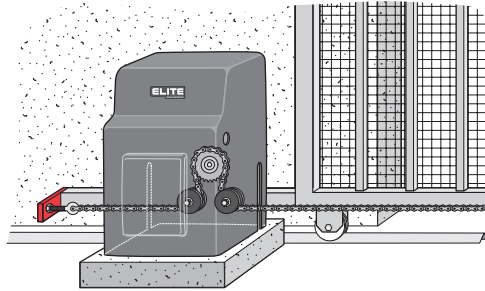


# CONNECTING THE CHAIN

## Front Installation

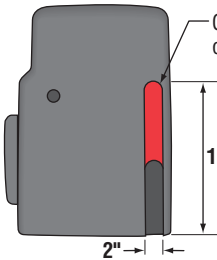
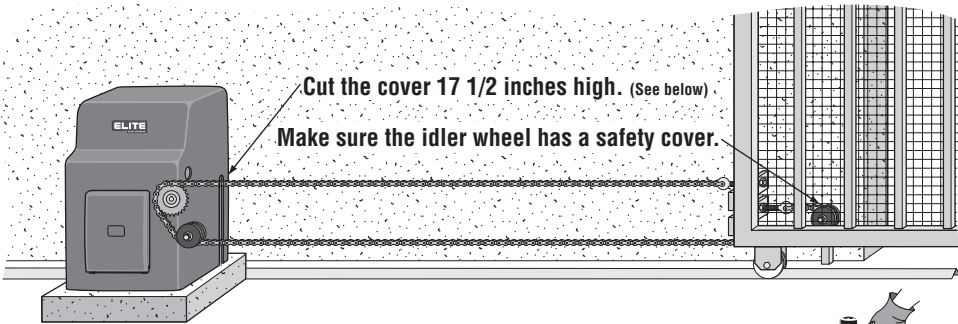


Weld front bracket with gate in open position.



Weld rear bracket with gate in closed position.

## Rear Installation – Cover Modification

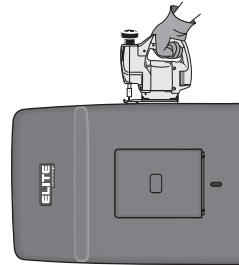


Cut the chain access slot on the one side of the cover to the exact specifications.

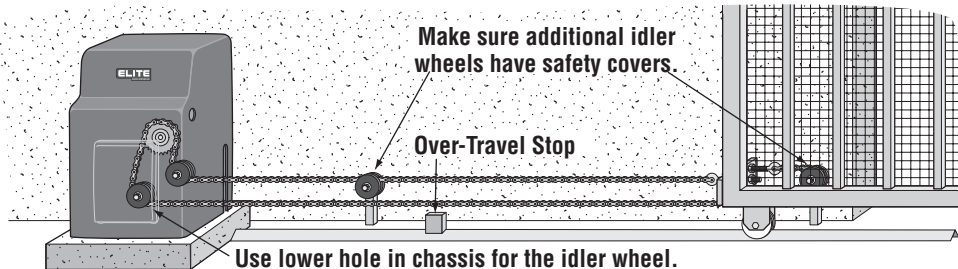
17.5"

2"

**Important:** For safe operation of the gate opener do not cut the slots any wider or longer than shown. **DO NOT** modify the housing in any way other than specified.



## Alternate Rear Installation – Lower Idler Wheel Position



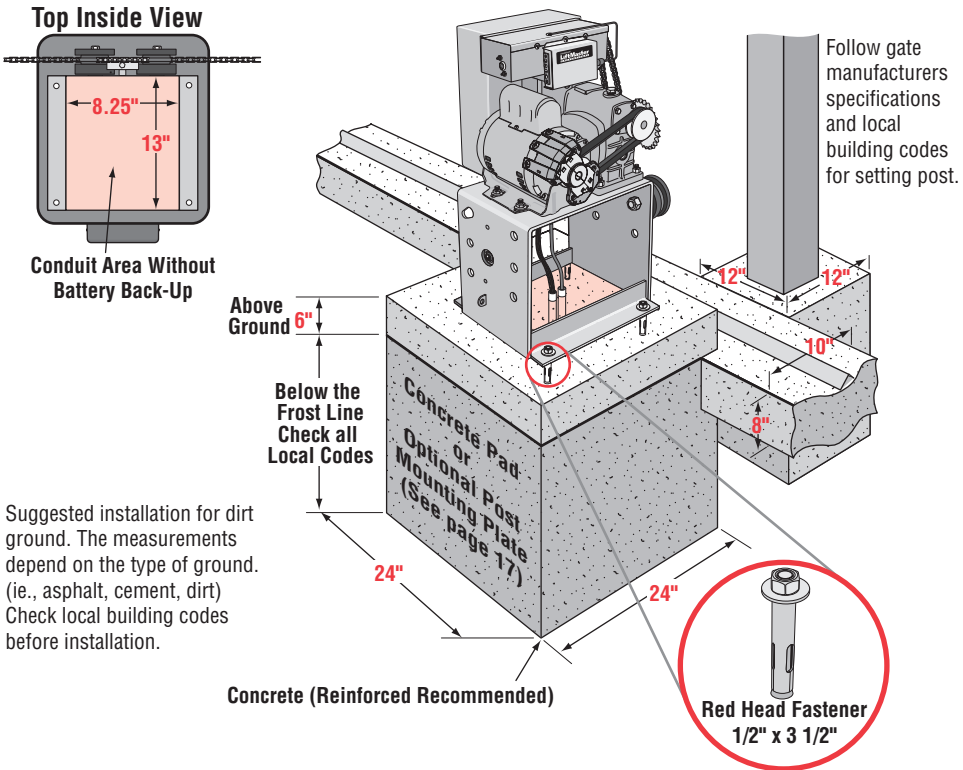
Make sure additional idler wheels have safety covers.

Over-Travel Stop

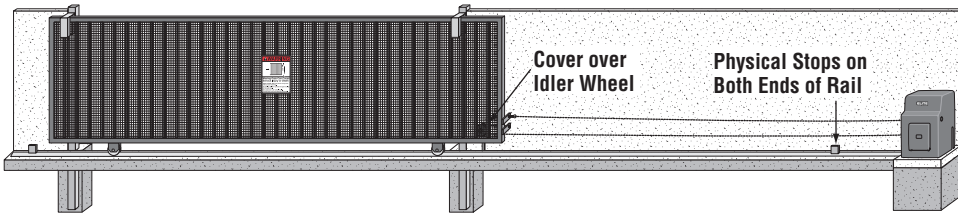
Use lower hole in chassis for the idler wheel.

# CONCRETE PAD AND GATE ATTACHMENT

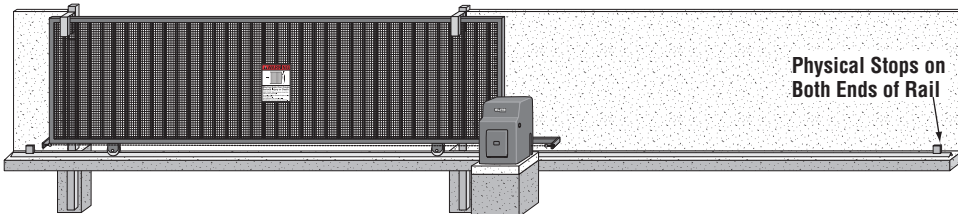
## Concrete Pad and Gate Attachment



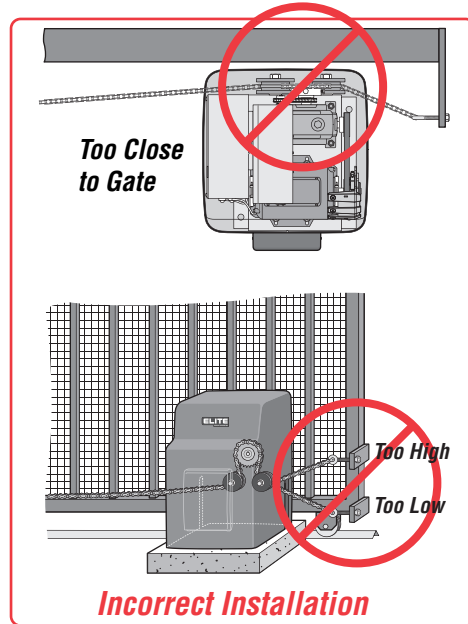
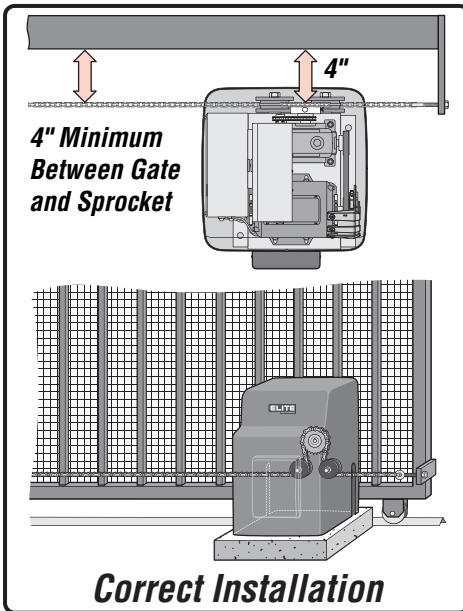
### Rear Installation



### Front Installation

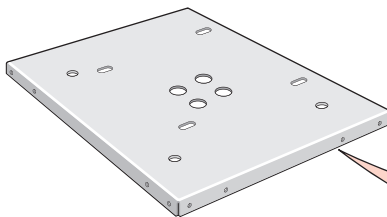


## GATE AND OPERATOR MOUNTING DISTANCE



Gate and Operator  
Mounting Distance

## OPTIONAL POST MOUNTING PLATE

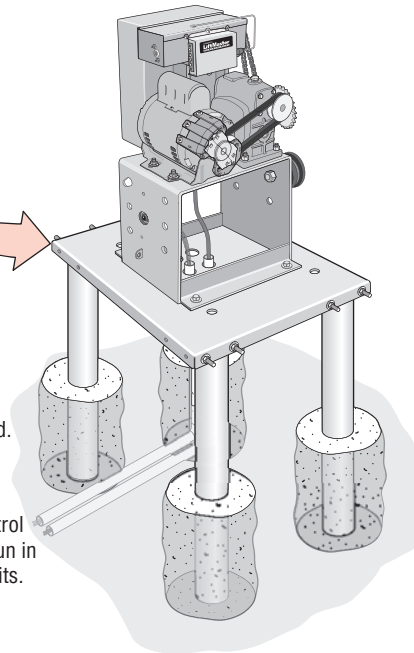


Part # **MPEL**

**Optional  
Product**

3" heavy steel posts are U-bolted to mounting plate and cemented in ground.

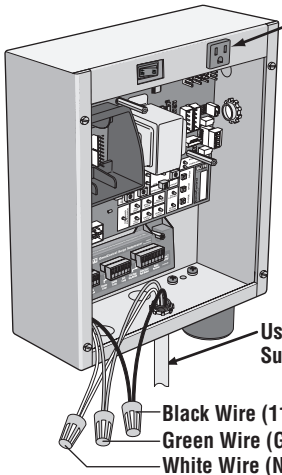
Power and control wiring can be run in separate conduits.



Optional Post  
Mounting Plate

**Contact your local dealer  
for more information.**

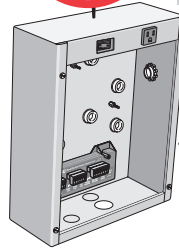
# HOW TO CONNECT POWER (110V)



**Do Not Use This Outlet Unless You Are An Authorized Service Technician**

**Suggestion:**  
Seal all open holes of electronic box with sealant when finished wiring.

**Use U.L. Listed Conduit for Supplying Power to the Unit**



**Minimum: 20-amp breaker switch per operator needed.**



**Gate Operator MUST be Properly Grounded**

**Important:** A factory installed heater must be wired into the power supply. See page 33.

**Wire Gauge Requirement for 110 Vac Power Supply**

	16 Gauge	14 Gauge	12 Gauge	10 Gauge	8 Gauge	4 Gauge
<b>1/2 HP and Dual Motor</b>	<b>150 Feet</b>	<b>250 Feet</b>	<b>400 Feet</b>	<b>650 Feet</b>	<b>1000 Feet</b>	<b>2200 Feet</b>
<b>1 HP</b>	<b>75 Feet</b>	<b>125 Feet</b>	<b>200 Feet</b>	<b>325 Feet</b>	<b>500 Feet</b>	<b>1100 Feet</b>

**Caution:** Not responsible for conflicts between the information listed in the above chart and the requirements of your local building codes. The information is for suggested use only. Check your local codes before installation.

## **Earth Ground Rod Installation**

Proper grounding gives an electrical charge, such as from an electrical static discharge or a near lightning strike, a path from which to dissipate its energy safely into the earth.

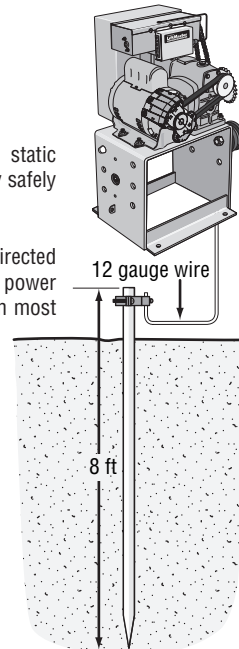
Without this path, the intense energy generated by lightning could be directed towards the Elite gate operator. Although nothing can absorb the tremendous power of a direct lightning strike, proper grounding can protect the gate operator in most cases.

**!** Before digging more than 18' deep, contact local underground utility locating companies. **Avoid damaging gas, power, or other underground utility lines.**

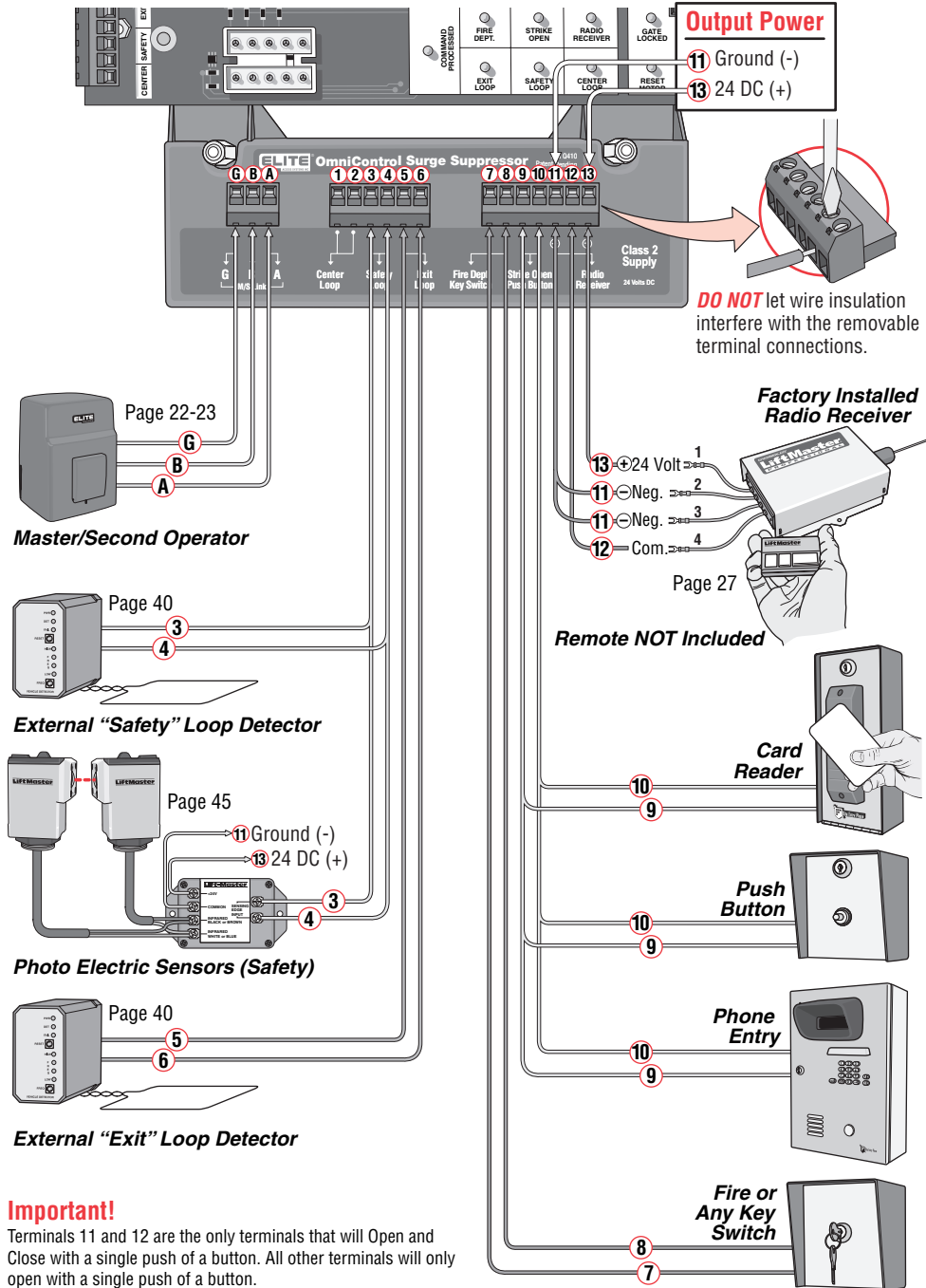
**The earth ground rod must be located within 3 feet from the gate operator.** Use the proper type earth ground rod for your local area.

The ground wire **must** be a single, whole piece of wire. **Never** splice two wires for the ground wire. If you should cut the ground wire too short, break it, or destroy its integrity, replace it with a single wire length.

**!** Not responsible for improper installation or failure to comply with all necessary local building codes.



# SURGE SUPPRESSOR TERMINAL INPUT CONNECTIONS



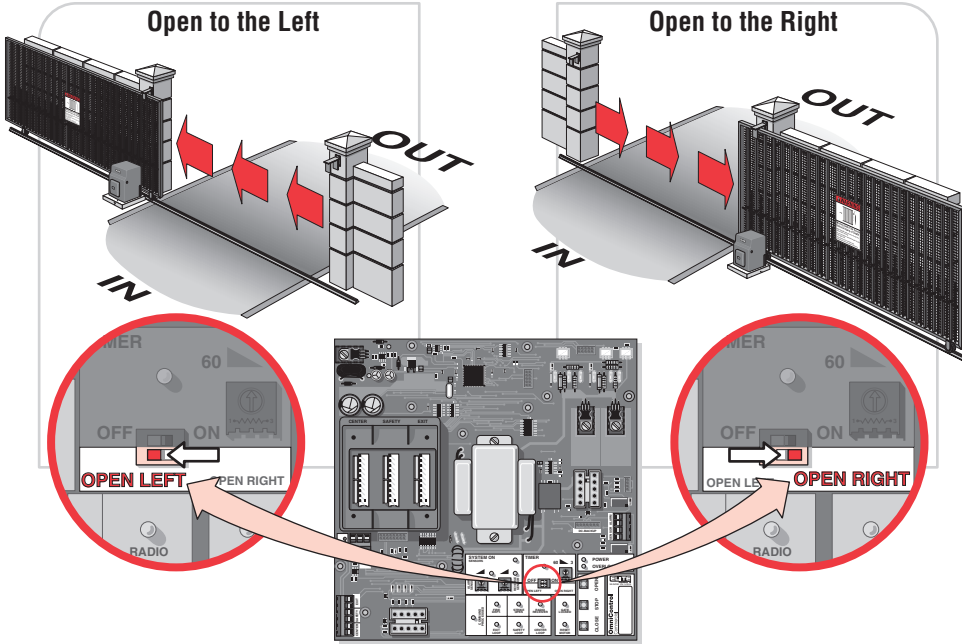
Surge Suppressor Terminal Connections

## Important!

Terminals 11 and 12 are the only terminals that will Open and Close with a single push of a button. All other terminals will only open with a single push of a button.

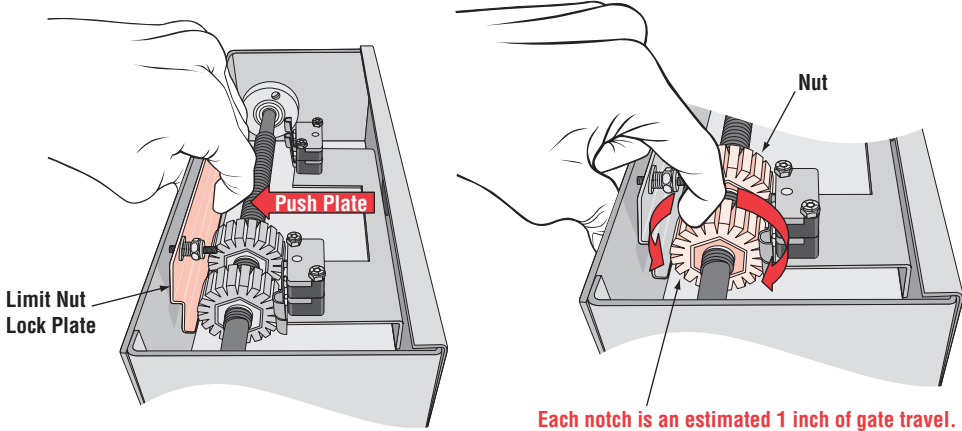
# Choosing Gate Movement Direction

## CHOOSING GATE MOVEMENT DIRECTION



# Adjusting Gate Traveling Distance

## ADJUSTING GATE TRAVELING DISTANCE

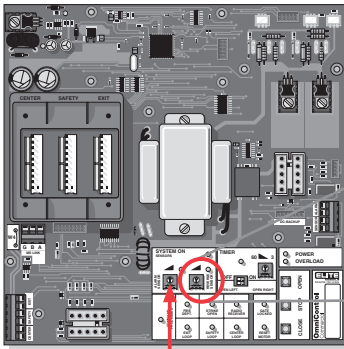


**Before Adjusting, Do the Following:**

1. Turn the Power OFF!
2. Push the limit nut lock plate inward. Roll the nut to the desired location.

3. Place the plate back in a notch.
4. Turn the machine back on.
5. If you need more adjusting, repeat the process.

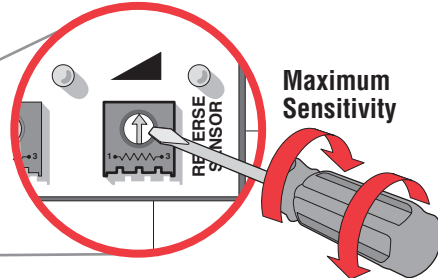
## 2 - WAY ADJUSTABLE REVERSING SENSOR



**DO NOT TOUCH ALARM SENSOR**

**CAUTION:** If the power supply to the gate operator is less than 99 volts, adjust the alarm by turning the alarm adjustment counter-clockwise enough to actuate the alarm when obstructed but not sensitive enough for false triggering to occur.

**Adjusted by Qualified Service Personnel**



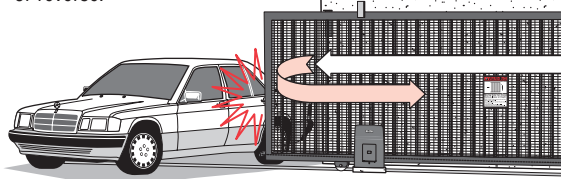
**Maximum Sensitivity**

**Minimum Sensitivity**

The level of reverse sensitivity depends on the weight of the gate and the condition of installation. To make a better gate system, use any of Chamberlain Elite's power wheels.

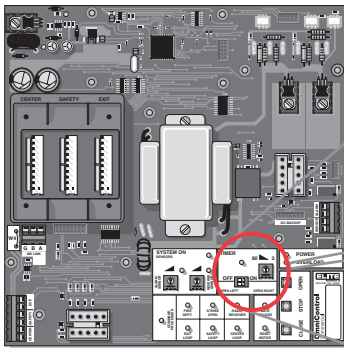
**Too sensitive** = if the gate stops or reverses by itself.

**Not sensitive enough** = if the gate hits a vehicle and does not stop or reverse.

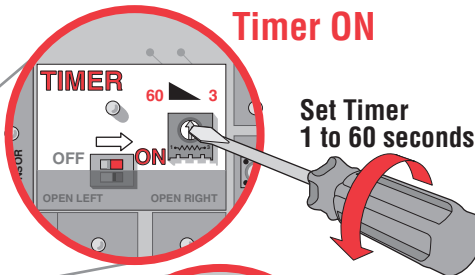


**2-Way Adjustable Reversing Sensor**

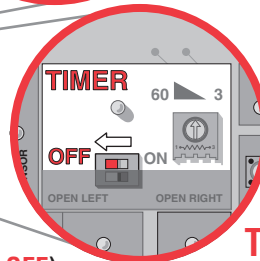
## ADJUSTABLE TIMER



**Timer ON**



**Set Timer 1 to 60 seconds**



**Timer OFF**

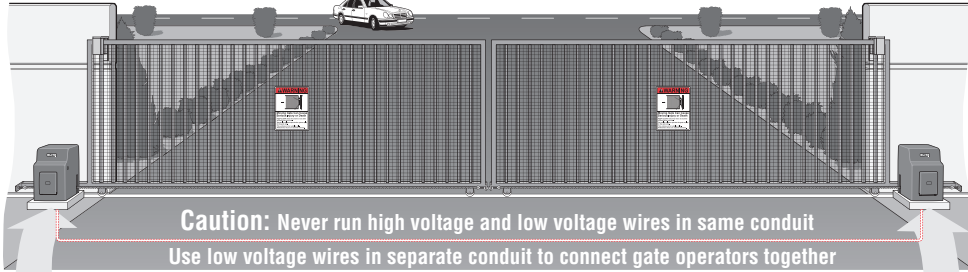
Timer can be set from 1 to 60 seconds (**Timer ON**), **OR** for push open/push close type operation (**Timer OFF**).

**Note:** When using master/second gates, the gate that takes the longest to open should be set as the master.

**Adjustable Timer**

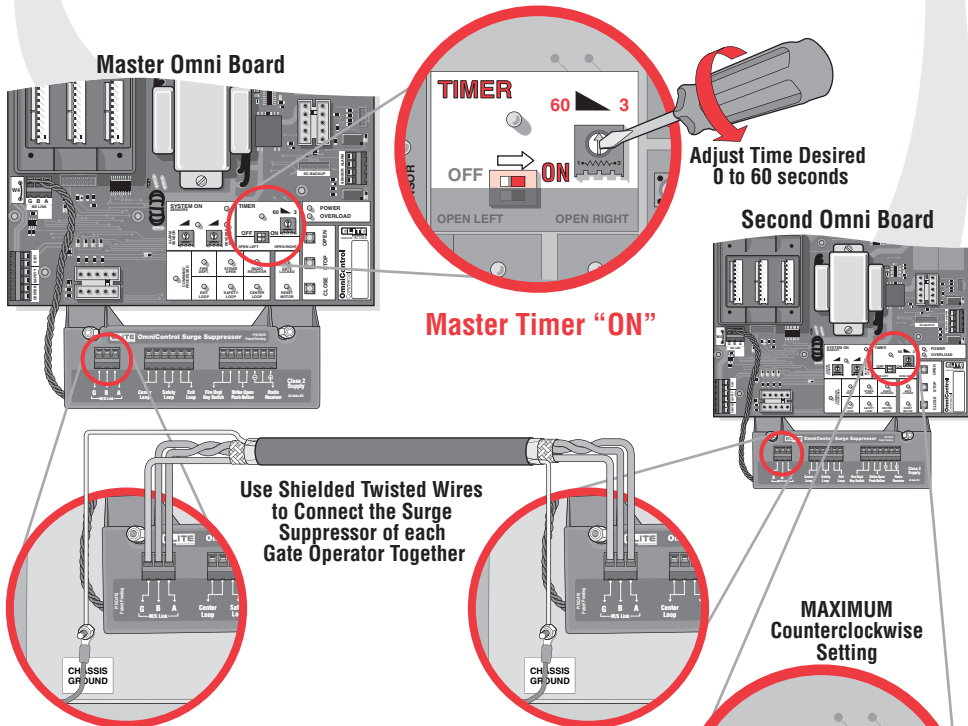
# MASTER / SECOND WITH TIMER ON

Master Omni Board Primary Control for System    Master and Second Boards are Interchangeable

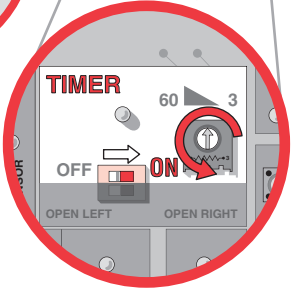


**Note:** The gate that takes the longest to open should be set as the master.

Master / Second with Timer ON

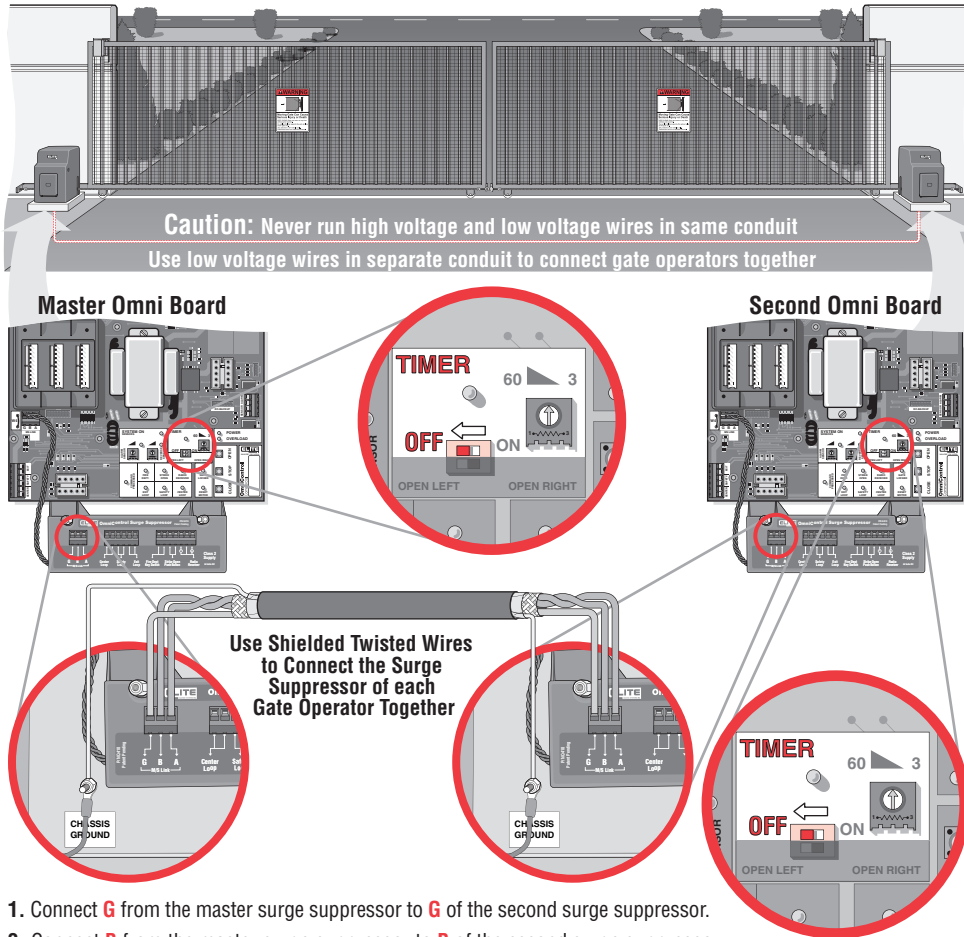


1. Connect **G** from the master surge suppressor to **G** of the second surge suppressor.
2. Connect **B** from the master surge suppressor to **B** of the second surge suppressor.
3. Connect **A** from the master surge suppressor to **A** of the second surge suppressor.
4. Turn timers on **BOTH** Omni boards to the "ON" position
5. Turn the **SECOND** Timer adjustment all the way Counterclockwise
6. Use **MASTER** timer **ONLY** to select the desired time



**Second Timer "ON"**

## MASTER / SECOND WITH TIMER OFF



1. Connect **G** from the master surge suppressor to **G** of the second surge suppressor.
2. Connect **B** from the master surge suppressor to **B** of the second surge suppressor.
3. Connect **A** from the master surge suppressor to **A** of the second surge suppressor.
4. Turn timers on **BOTH** Omni boards to the "**OFF**" position

## PARTIAL MASTER / INDIVIDUAL CONTROL

In order for the following operation to occur, follow the instructions.

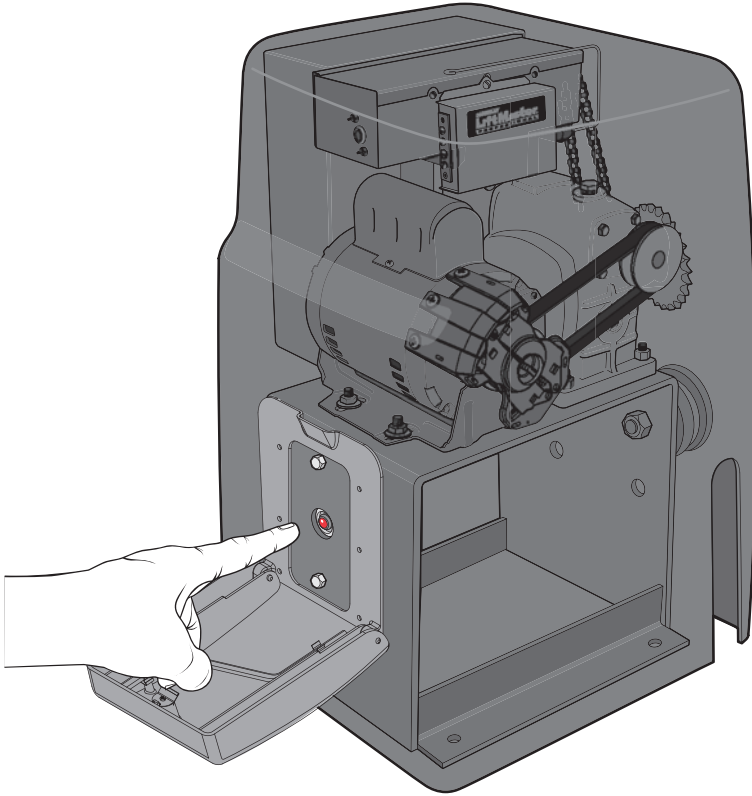
**Example:** There is a double gate, the entry gate is to be opened with a radio transmitter and the exit gate with a free exit loop. Only one safety loop system is to open both gates, and a fire department switch should open both gates at the same time.

1. Connect the radio receiver to entry gate only.
2. Connect the exit loop to exit gate only.
3. Connect the safety loop to both entry and exit gates. (Observe polarity of voltage)
4. Connect the fire department switch to both entry and exit gates. (Observe polarity of both operators)

Master / Second with Timer OFF

## BUILT-IN RESET BUTTON

### Built-In Reset Button



When the gate operator's audio alarm (See next page) has been tripped, the **Reset Button** must be pushed for the operator to function again.

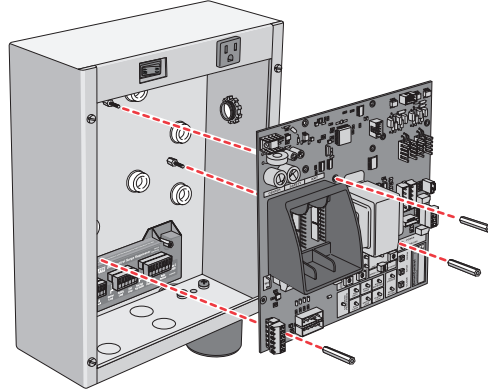
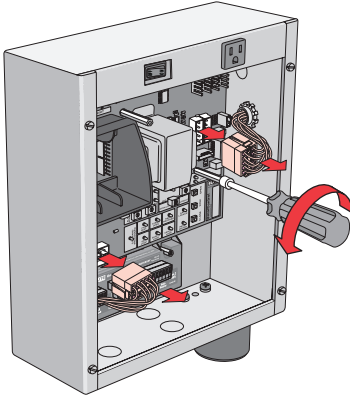
The **Reset Button** will shut off an activated audio alarm and reset the operator to function again.

***If the audio alarm goes off, always check the gate area for:***

- ***Obstructions in the gate path.***
- ***Damage to the gate and/or gate operator.***

Pressing the **Reset Button** will **stop** a moving gate during a normal open/close cycle, like a stop button. The operator does **NOT** need to be reset after doing this.

## REMOVE CONTROL BOARD



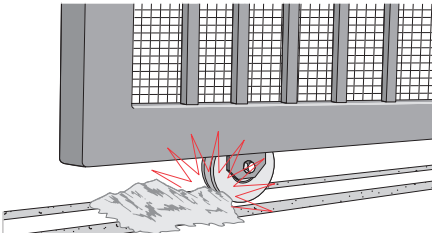
Disconnect wire harnesses from OmniControl board. Unscrew 3 nuts and remove board.

## AUDIO ALARM

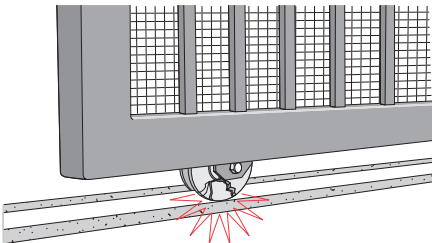
When one of the following events happens **Twice Consecutively**,  
the Alarm will Sound for 5 minutes!

**Press the Built-In Reset Button to Shut Off Alarm  
and Reset Operator!** (See previous page)

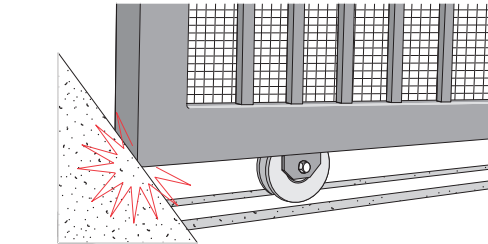
1 The gate is too heavy.



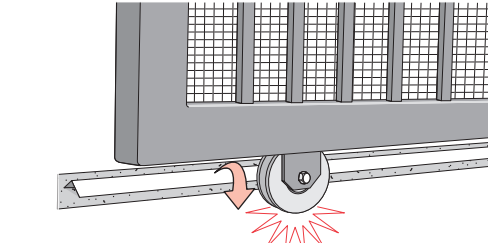
2 Debris is on the gate's track such as mud, rocks, dirt, etc.



4 The gate has one or more broken wheels.



3 The gate is hitting a wall or vehicle.



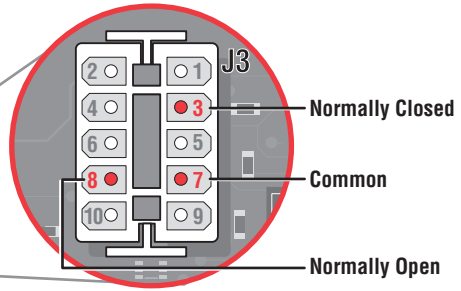
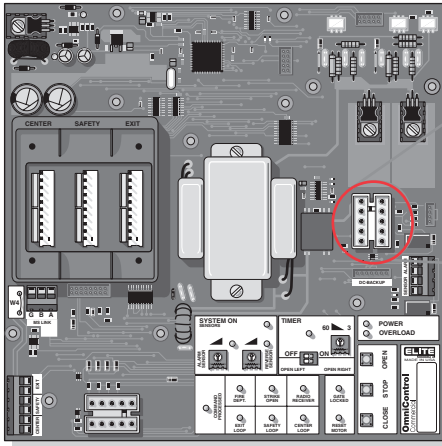
5 A moving vehicle has hit the gate and the wheel is off the track.

Remove  
Control Board

Audio Alarm

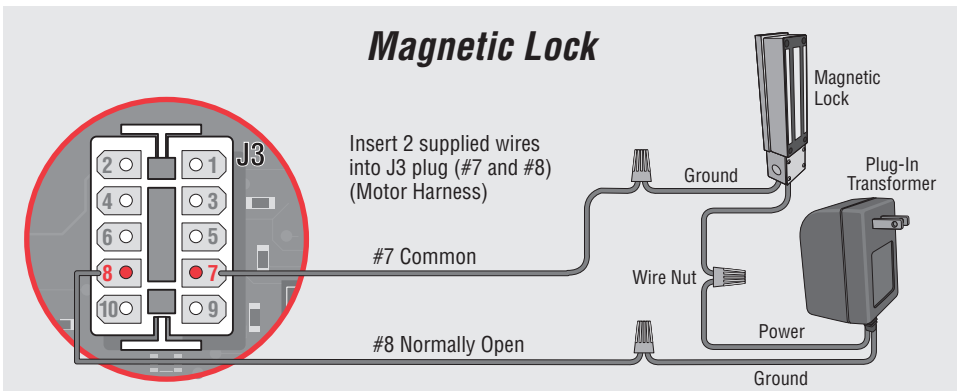
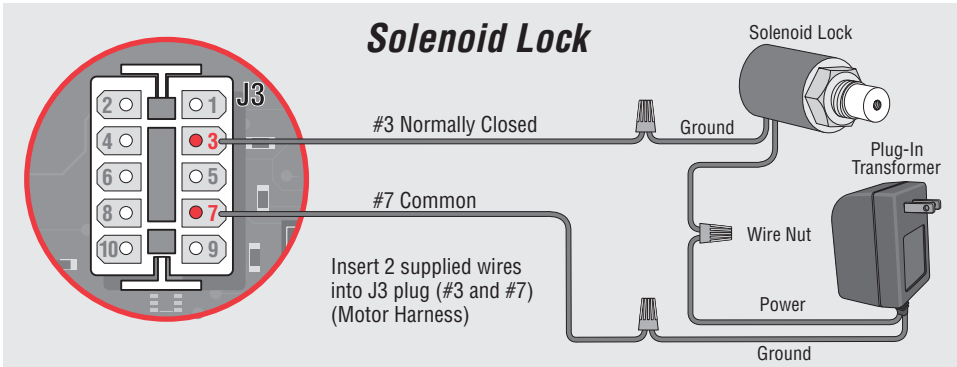
# SOLENOID / MAGLOCK J3 CONNECTION

## Solenoid / Maglock J3 Connection

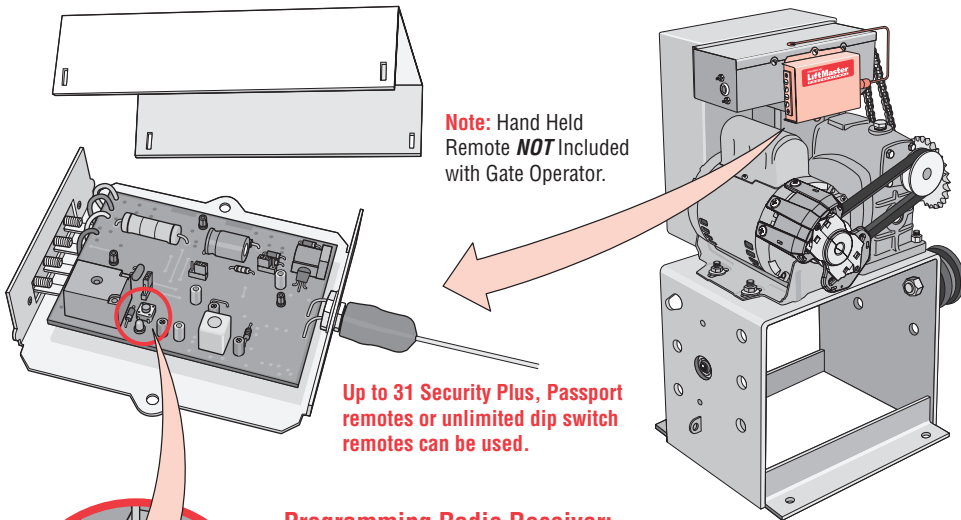


Connection of a Solenoid or Magnetic Lock can be made using the J3 plug and three wires supplied with the unit.

**Relay Contact Rating**  
 0.5 A - 125 Vac  
 1 A - 24 VDC



# RADIO RECEIVER PROGRAMMING



**Note:** Hand Held Remote **NOT** Included with Gate Operator.

Up to 31 Security Plus, Passport remotes or unlimited dip switch remotes can be used.

## Programming Radio Receiver:

Press and **Release** the “**Learn Button**”. LED will light for 30 seconds. Within that time, press a desired button on your hand held remote for **3 seconds** to program the radio receiver.

**Repeat** this process for every hand held remote to be used with the gate operator.

## Erase ALL Remote Control Codes:

Press and **Hold** the “**Learn Button**” until LED turns off (6 seconds). **All** codes are now erased.



Radio Receiver Programming

**LiftMaster**  
SECURITY+

## Optional Hand Held Remotes

**LiftMaster**

Mini 3 Button  
Part # 970LM



Part # 971LM



Part # 972LM



Part # 973LM



Part # 974LM

Part # CPT1



Part # CPT2



Part # CPT3



Part # CPT4



PASSPORT™



Mini 3 Button  
Part # CPTK3



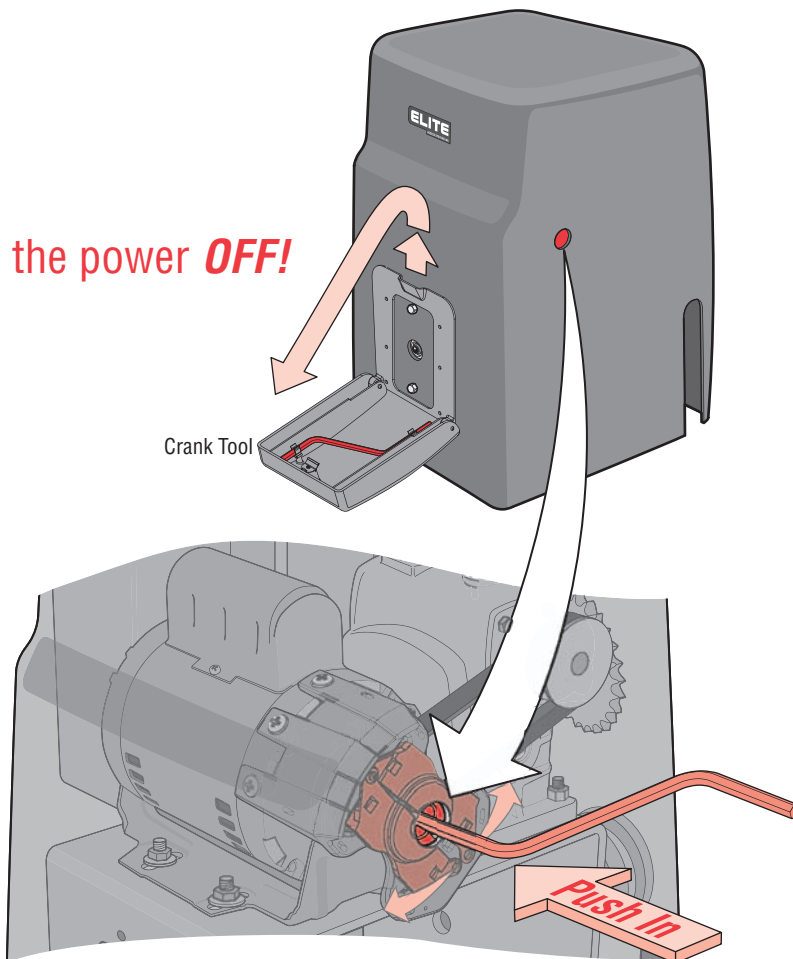
Mini 3 Button with  
HID Prox. Sensor  
Part # CPTK3PH

**Optional  
Products**

## EMERGENCY RELEASE

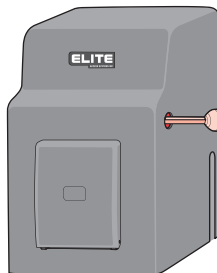
# Emergency Release

Turn the power **OFF!**



**Push** the crank tool in hole. Safety releases will separate. Turn the crank to open the gate.

**Note:** You may use a cordless power drill (6"/sec) for quicker opening in non-emergency situations.



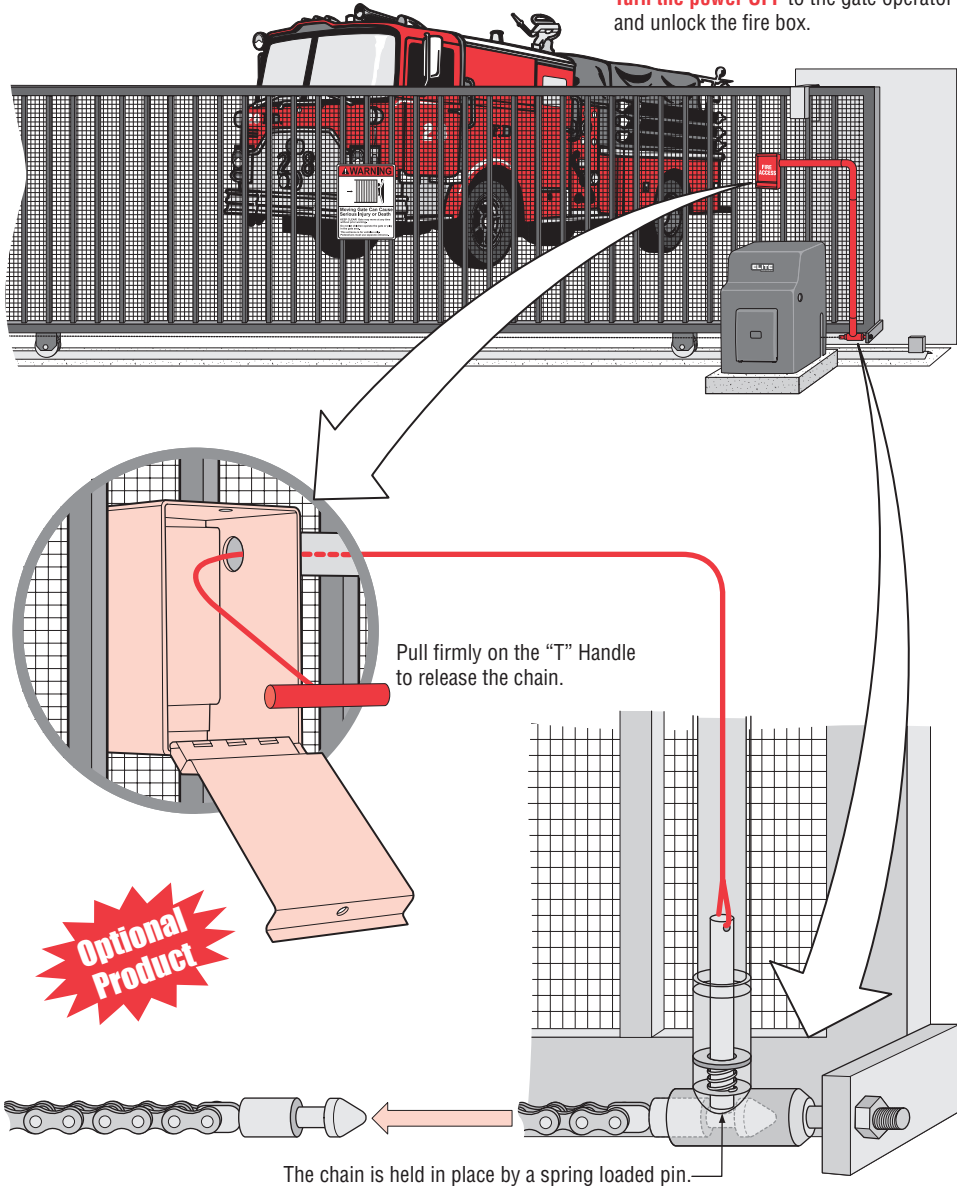
Allen wrench  
drill bit size is 5/16"

# OPTIONAL EMERGENCY RELEASE

## Fire Release Box

Part # CP17

Turn the power OFF to the gate operator and unlock the fire box.



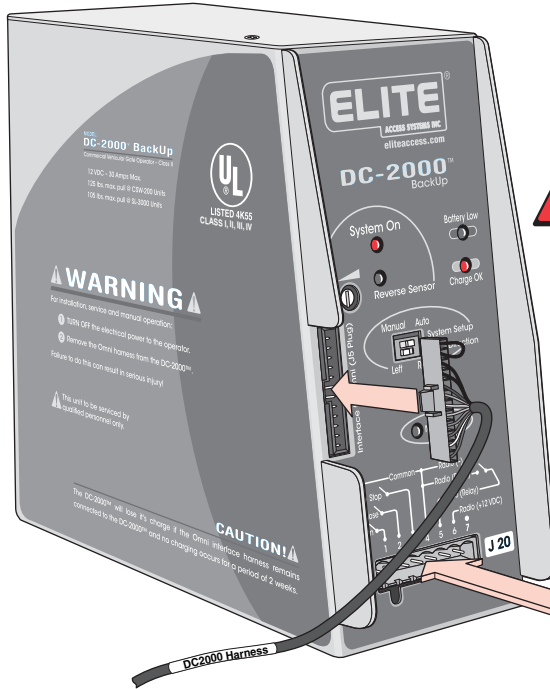
Optional Emergency Release

**For More Details,  
ask your Local Dealer**

# OPTIONAL FACTORY INSTALLED DC2000

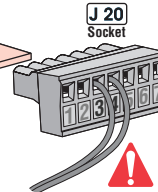
## Optional Factory Installed DC2000

- 1 Plug in the 12 pin plug into the DC2000 control unit. Make sure the “System ON” and “Charge OK” LEDs are lit. If the “Battery Low” led comes on, the battery needs to charge before it can be used.
- 2 Make sure “Gate Direction” setting on DC2000 is set the same as the gate operator’s setting.



**Important:** All devices wired to the DC2000 **MUST** be dedicated to it alone. Normal operation will be controlled by separate devices wired to the OmniControl™ board.

**DO NOT** wire 110 Vac power to the DC2000



**Motor Safety Wires**  
**DO NOT Remove**

## System Setup

**“Manual” setting:** The DC2000 will respond to the input devices wired to the J 20 socket. This mode can also be used as an emergency override. If 110 Vac power is on, but the system has an electronic malfunction, the gate can be operated using the DC2000 system with input devices wired to J 20 socket.

**“Auto” setting:** The DC2000 opens the gate automatically upon 110 Vac power failure and stays open. When 110 Vac power is restored, the gate operator will return to normal operation. (The gate can be closed by manual command)

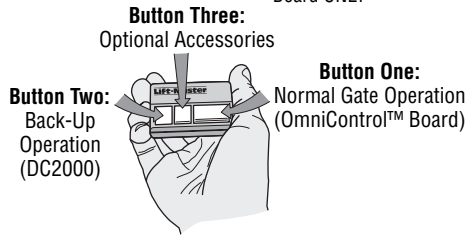
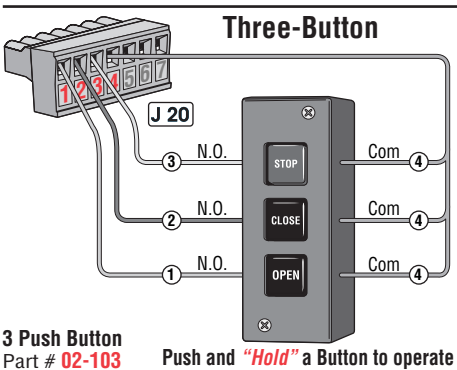
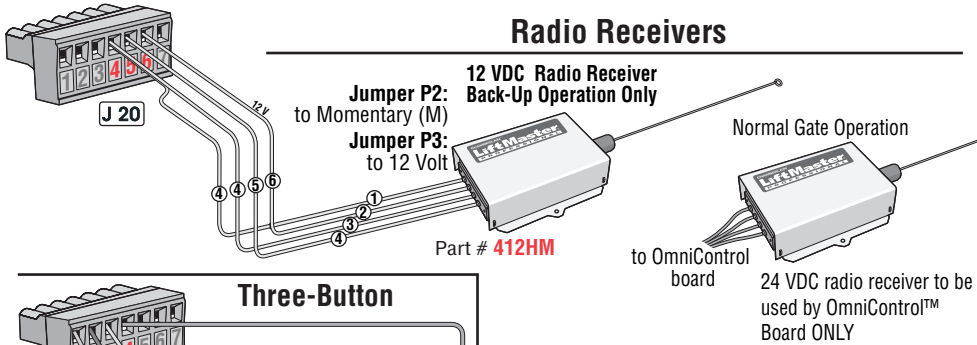
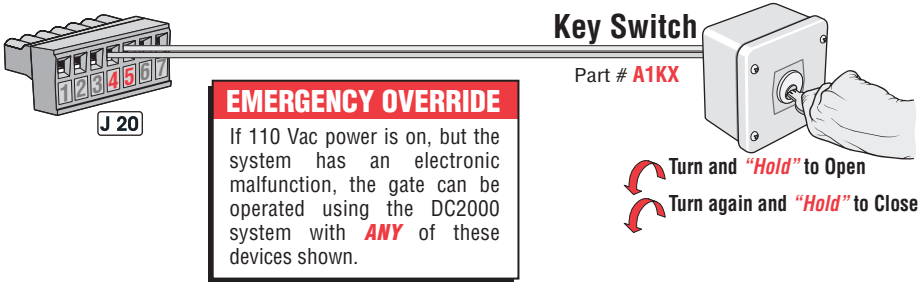
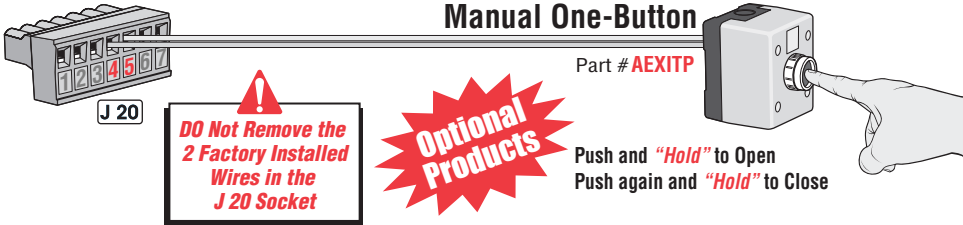
	110 Vac Power Failure	110 Vac Power On, OmniControl™ Board Malfunction	110 Vac Power On, Emergency Override
<b>Manual Mode</b>	Push and <b>Hold</b> to operate gate	Turn the 110 Vac power off then push and <b>Hold</b> to operate gate	Push and <b>Hold</b> to override the OmniControl™ board
<b>Auto Mode</b>	Gate automatically opens	Turn the 110 Vac power off then gate opens automatically	Push and <b>Hold</b> to override the OmniControl™ board

# WIRING OPTIONAL DC2000 DEVICES

**! Important:** All devices wired to the DC2000 **MUST** be dedicated to it alone. Normal operation will be controlled by **separate** devices wired to the OmniControl™ board.

If the DC2000 is automatically opening the gate due to a power failure, any manual command such as “One-Button”, “Three Push Button”, “Key Switch”, “Photo Beam” or “Edge Sensor” will cancel the automatic mode of the DC2000. After such cancellation, the DC2000 will continue to operate in manual mode until 110 Vac power is restored.

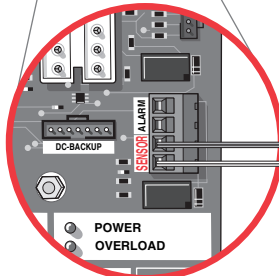
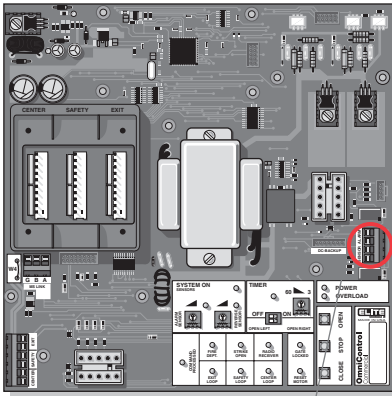
Wiring Optional DC2000 Devices



Push and “Hold” DC2000 Transmitter Button to Open  
Push again and “Hold” DC2000 Transmitter Button to Close

# WIRING OPTIONAL DC2000 SAFETY DEVICES

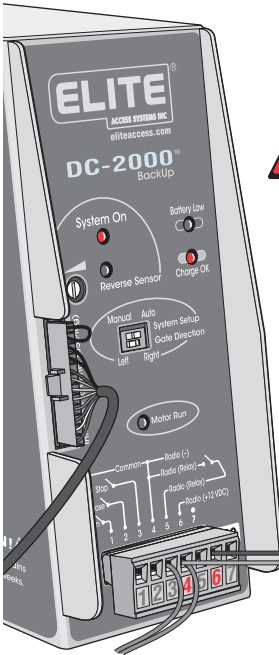
## Wiring Optional DC2000 Safety Devices



**OmniControl™ Board  
Sensor Connection**

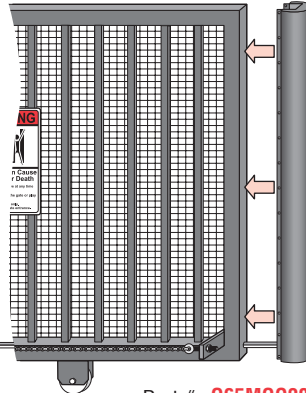
**Important:** **DO NOT** remove any existing attached wires from the Sensor/Alarm connector.

**DO Not Remove the  
2 Factory Installed Wires  
in the J 20 Socket**



ⓐ Power +12 VDC  
④ Power Ground

**Edge Sensor**  
UL Listed 3 Sided Sensor

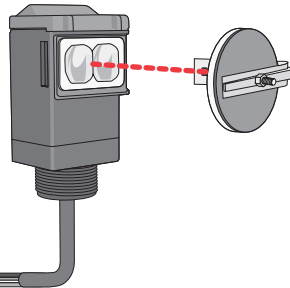


Part #s **G65MGO20**  
**G65MGR20**  
**G65MGS20**

**Optional  
Products**

**Photo Beam Sensor  
12 VDC**

Part # **AOMRON12V**



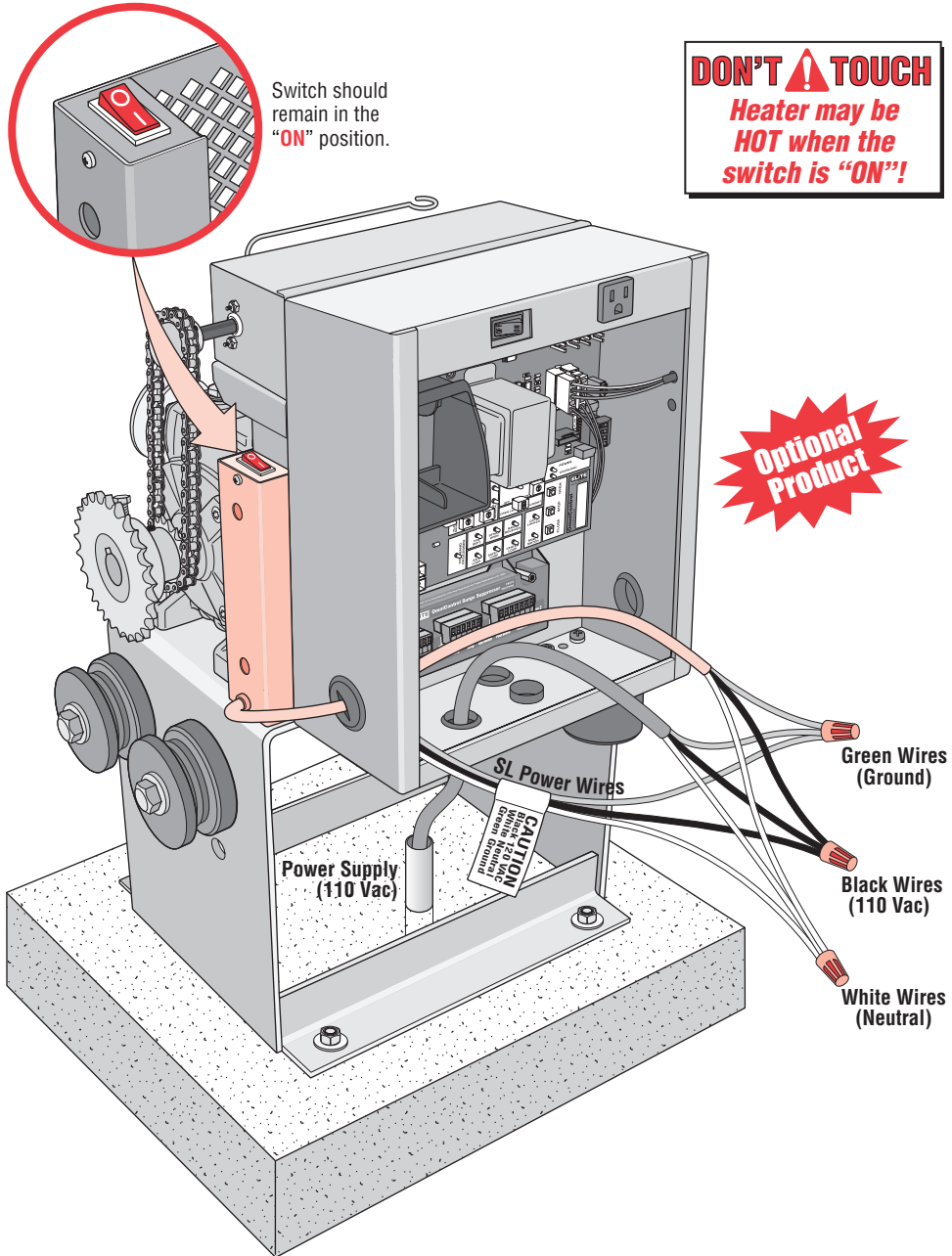
**USE ONLY 12 VDC FAILSAFE PHOTO BEAM SENSORS  
FOR THIS SAFETY OPTION**

**Fail-safe Photo Beam:** If a photo beam is not working, loses power or photo beam is blocked, then the photo beam will stop **all** gate operation.

**Contact your local dealer  
for more information.**

# OPTIONAL FACTORY INSTALLED HEATER

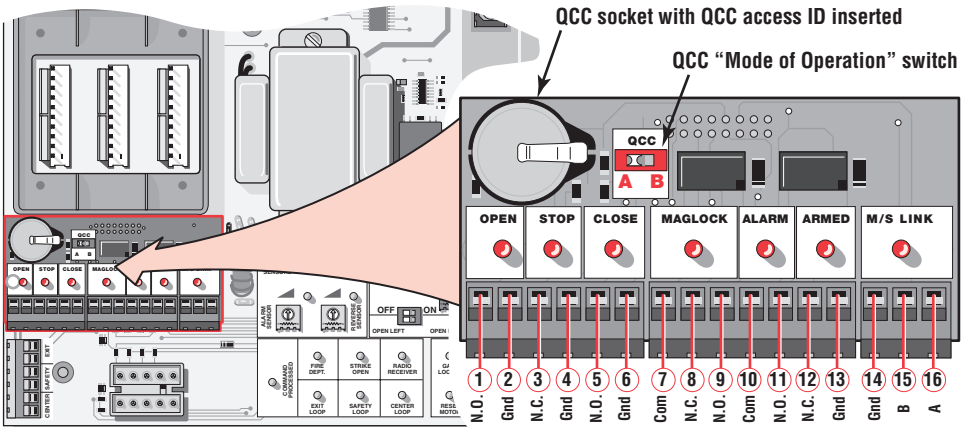
Connect the black, white and ground wire from the heater to the 110 Vac power supply as shown. When the heater switch is left in the "ON" position, the heater will turn on and off automatically when needed.



Optional Factory Installed Heater

# OPTIONAL OMNI OPTION BOARD DESCRIPTION

Optional Omni Option Board Description



Omni Option Board  
Part # OOMNIEXB

**QCC is designed for slide gate operators only!**

① & ② – Open Command

③ & ④ – Stop Command

⑤ & ⑥ – Close Command

⑦ – Common

⑧ – Normally Closed

⑨ – Normally Open



⑩ & ⑪ – Burglar Alarm Output

⑫ & ⑬ – Burglar Alarm Input

⑭ – Ground

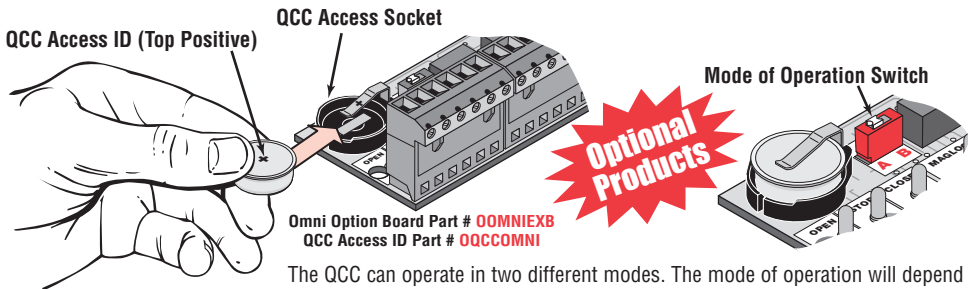
⑮ – B

⑯ – A

Master/  
Second  
or  
RS485

# OPTIONAL QCC (QUICK CLOSE CIRCUIT)

Optional QCC Quick Close Circuit



Omni Option Board Part # OOMNIEXB  
QCC Access ID Part # OQCCOMNI

The QCC can operate in two different modes. The mode of operation will depend on the switch setting on the Omni Option Board.

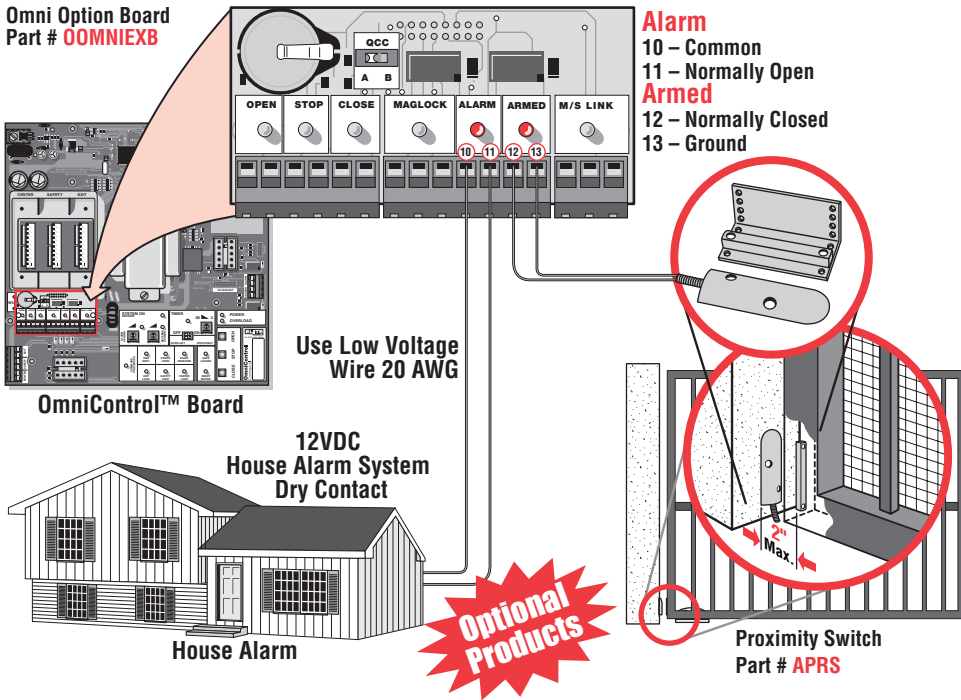
**Mode A (switch OFF)** If the gate is closing while a car is driving over the safety loop, the QCC will stop the gate for a second then open the gate while the car is over the safety loop detector. As soon as the car leaves the safety loop, the QCC will resume closing the gate.

**Mode B (switch ON)**

If the gate is closing, and a vehicle drives over the safety loop, the QCC will stop the gate. It will not open the gate. After the vehicle leaves the safety loop, the QCC will close the gate.

## OPTIONAL HOUSE ALARM/PROXIMITY SWITCH WITH OMNI OPTION BOARD

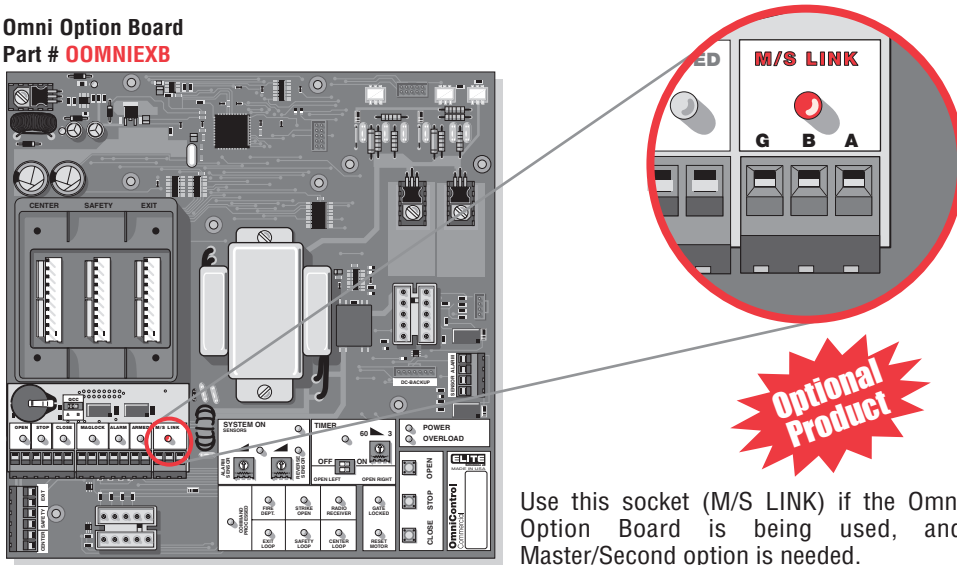
Omni Option Board  
Part # **OOMNIEXB**



Optional House Alarm / Proximity Switch with Omni Option Board

## OPTIONAL MASTER / SECOND WITH OMNI OPTION BOARD

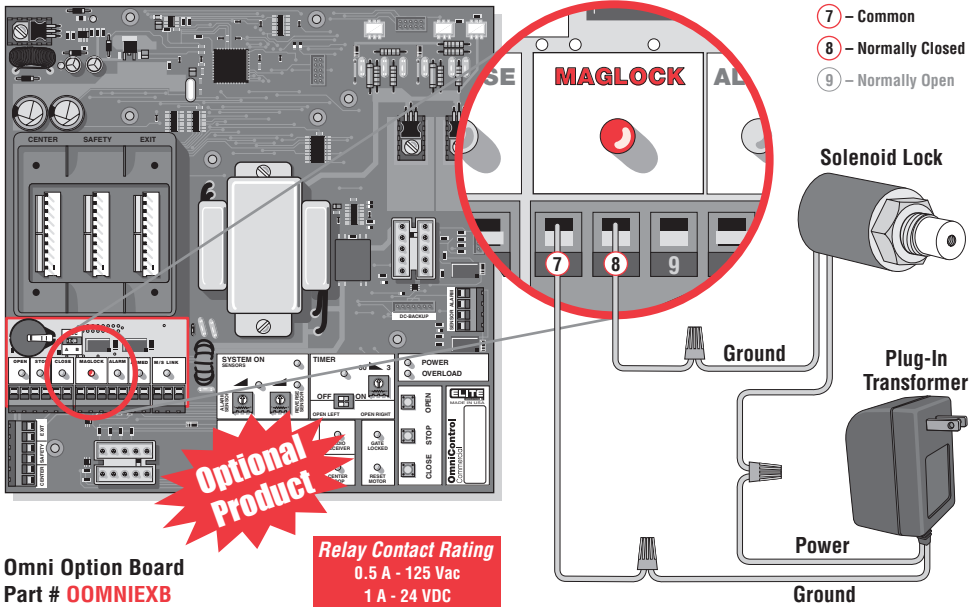
Omni Option Board  
Part # **OOMNIEXB**



Optional Master / Second with Omni Option Board

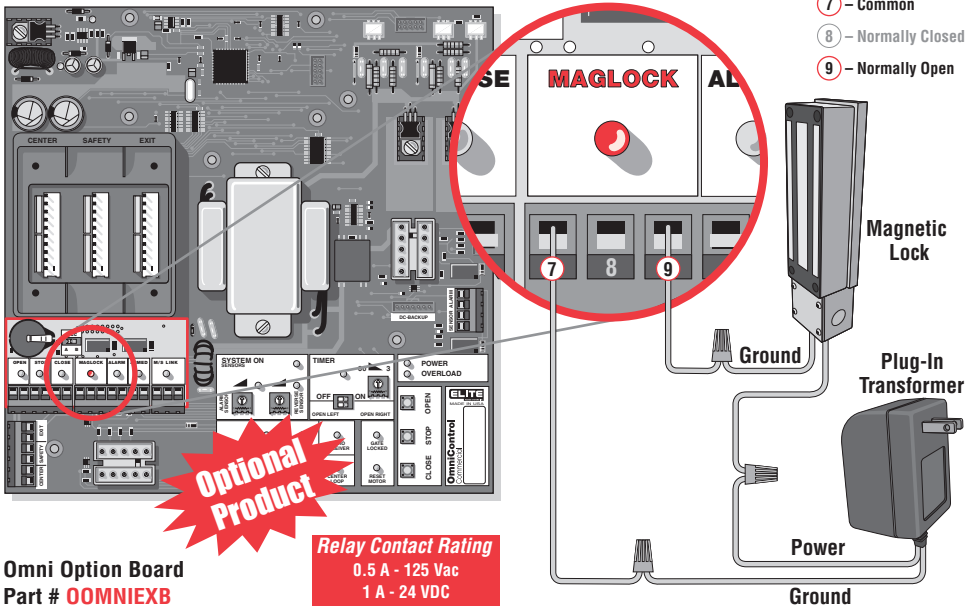
## OPTIONAL SOLENOID CONNECTION WITH OMNI OPTION BOARD

Optional Solenoid Connection  
with Omni Option Board



## OPTIONAL MAGLOCK CONNECTION WITH OMNI OPTION BOARD

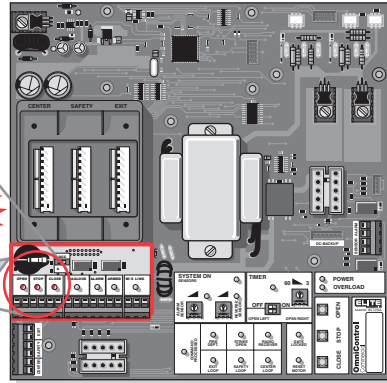
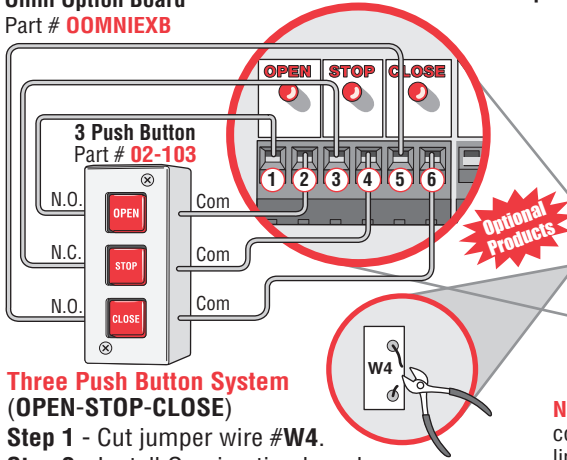
Optional Maglock Connection  
with Omni Option Board



# OPTIONAL THREE PUSH BUTTON STATION

Omni Option Board  
Part # **OOMNIEXB**

Omni Option Board Needed to Perform This Function



## Three Push Button System (OPEN-STOP-CLOSE)

- Step 1** - Cut jumper wire #W4.  
**Step 2** - Install Omni option board.  
**Step 3** - Connect **OPEN** push button to ① & ②.  
**Step 4** - Connect **STOP** push button to ③ & ④.  
**Step 5** - Connect **CLOSE** push button to ⑤ & ⑥.

**Note:** If using the Master/Second board configuration, unplug the Master/Second link plug on main board and connect it into the Omni option board M/S link socket.

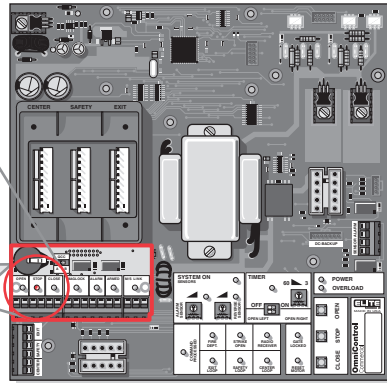
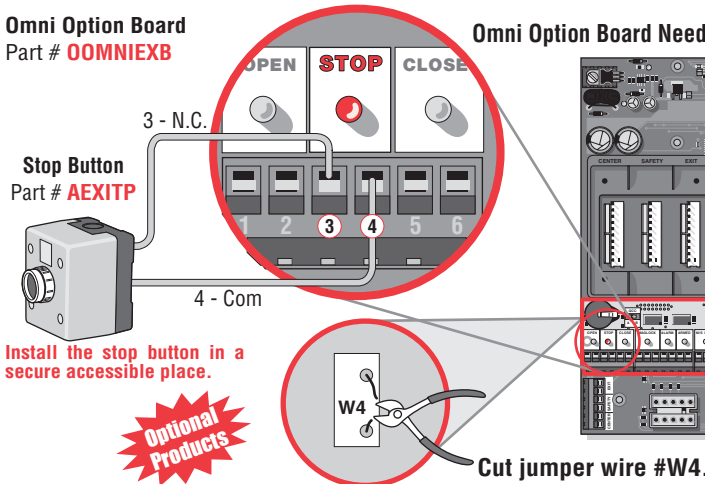
**Caution:** Make sure each push button is dry contact and there are no jumper wires between them.

**Important!** The Stop button must be "Normally Closed". 2, 4 and 6 are common on Omni Option Board for a 4 wire installation.

# OPTIONAL STOP BUTTON ALARM SHUT-OFF

Omni Option Board  
Part # **OOMNIEXB**

Omni Option Board Needed to perform this function.



Install the stop button in a secure accessible place.

## Use the *Optional* STOP Button:

- To stop the movement of the gate in case of potential entrapment.
- To stop the audio alarm, (check for obstructions).
- To reset the operator after the alarm has triggered.



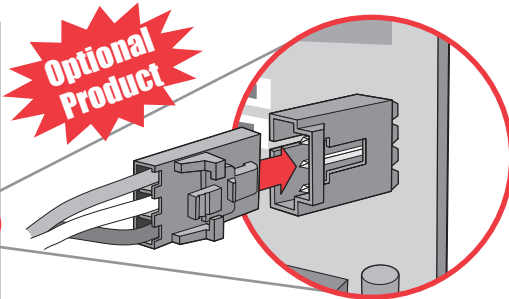
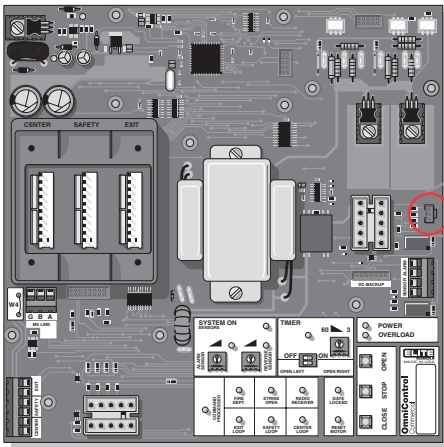
The "Optional" Stop Button will stop the audio alarm in case it has been triggered.

Optional Three Push Button Station

Optional Stop Button Alarm Shut-Off

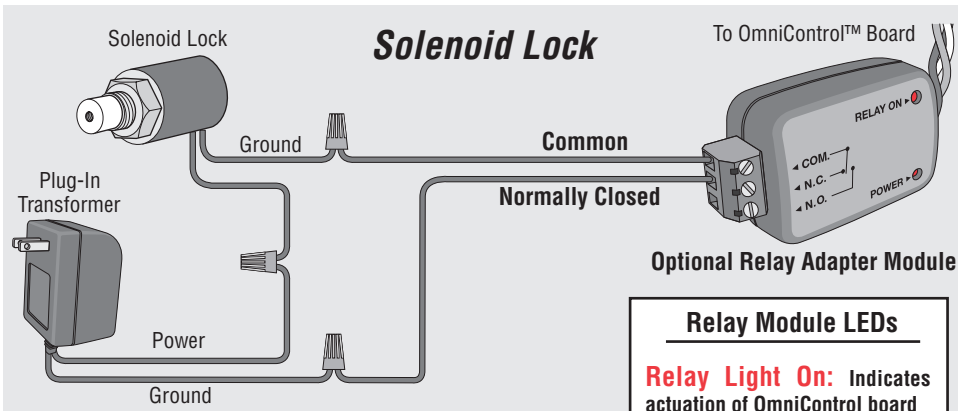
# OPTIONAL RELAY ADAPTER CONNECTION

## Optional Relay Adapter Connection



Connection of a Solenoid or Magnetic Lock can be made using the "Optional" Relay Adapter Module.

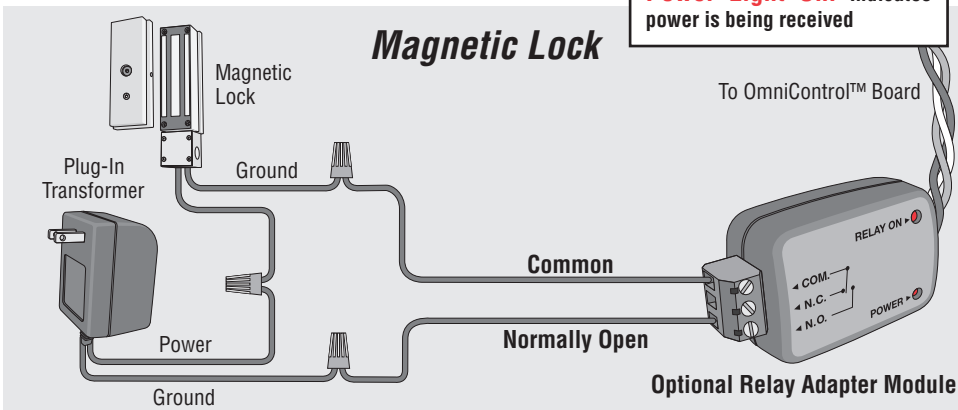
**Relay Contact Rating**  
 2 Amp - 125 AC/DC  
 2 Amp switching load capability  
 Part # **Q400MAU**



**Relay Module LEDs**

**Relay Light On:** Indicates actuation of OmniControl board

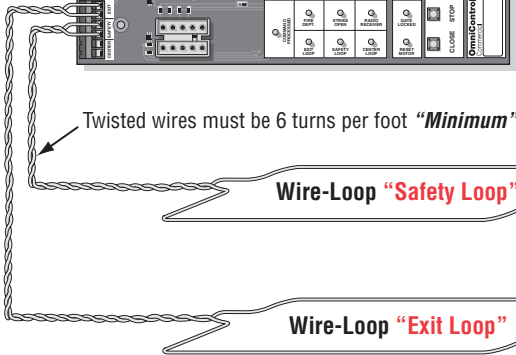
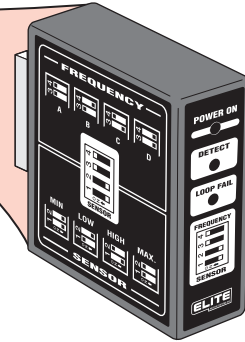
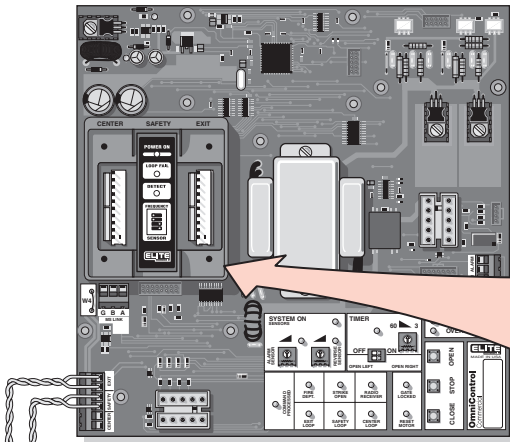
**Power Light On:** Indicates power is being received



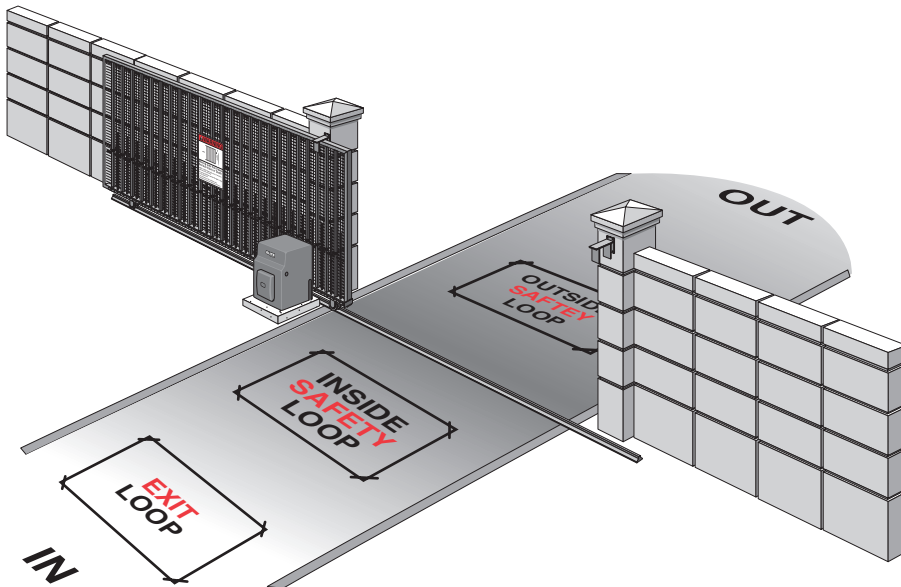
# OPTIONAL PLUG-IN LOOP DETECTORS



**Caution:**  
Use different frequencies for every single loop detector. Turn off gate operator (from switch on electrical box) during installation.



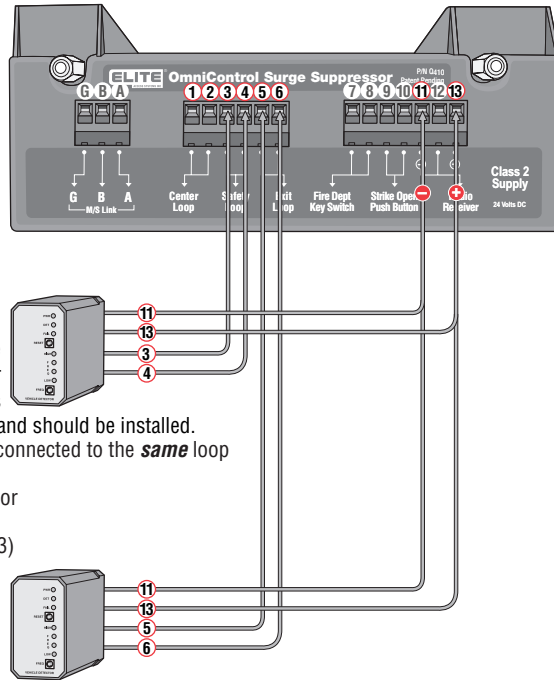
Elite Plug-In Loop detectors needed to perform this function.  
Part # **AELD**



Optional Plug-In Loop Detectors

# OPTIONAL EXTERNAL LOOP WIRING

## Optional External Loop Wiring



### External 110 Vac “Safety” Loop Detector -

Allows gate to stay open when vehicles are obstructing path. **Caution:** Suggested for vehicles 14 feet or longer. If a vehicle is shorter, a center loop system is recommended and should be installed.

If the “Inside” and “outside” safety loops are connected to the **same** loop detector:

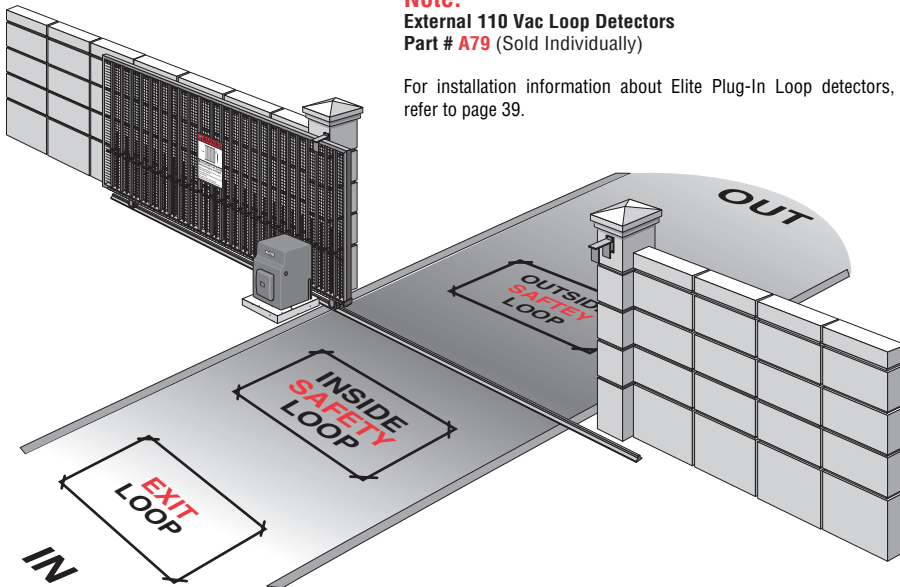
- They should be series connected to the detector
- Have the same dimensions. (Page 41 or 42)
- Have the same number of wire turns. (Page 43)

### External 110 Vac “Exit” Loop Detector -

Allows gate to automatically open for exiting vehicles.

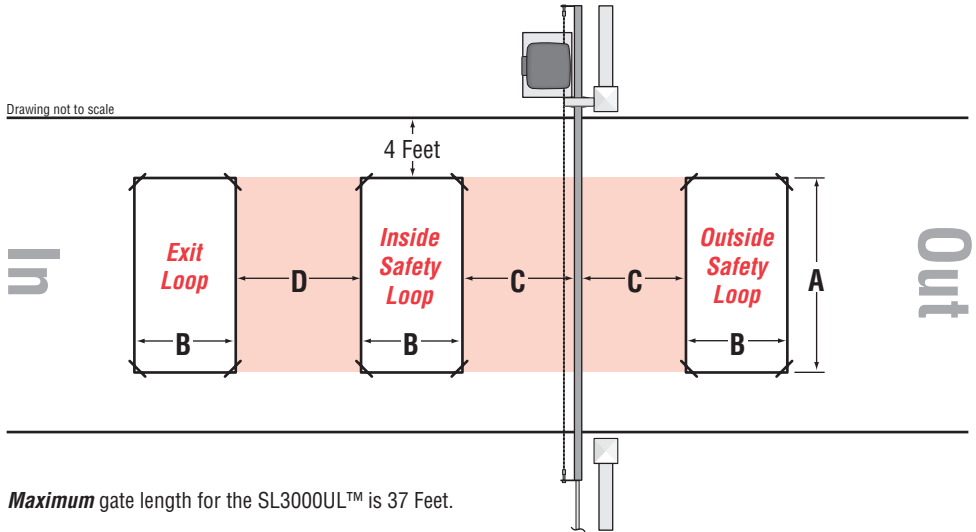
**Note:**  
**External 110 Vac Loop Detectors**  
**Part # A79** (Sold Individually)

For installation information about Elite Plug-In Loop detectors, please refer to page 39.



# SINGLE OPERATOR LOOP SIZE AND PLACEMENT

It is **VERY** important to have enough separation between loops and gates to prevent false detection.



As **A** increases in size to cover a larger gate opening, the gate will cause a larger change of inductance when opening and closing. Therefore dimension **C** must increase as **A** increases.

<b>If A =</b>	6 Feet	9 Feet	12 Feet	15 Feet	18 Feet	21 Feet
<b>Then C =</b>	4 Feet	4.5 Feet	5 Feet	5 Feet	5.5 Feet	6 Feet

Dimension **D** should be equal to or greater than the larger of the “**Inside Safety Loop**” or “**Exit Loop's**” dimension **B**.

If the Inside and outside safety loop are connected to the **same** loop detector they should be series connected. Dimension **A**, **B** and **C** should be the same for each loop. Both loops should have the same number of turns of wire.

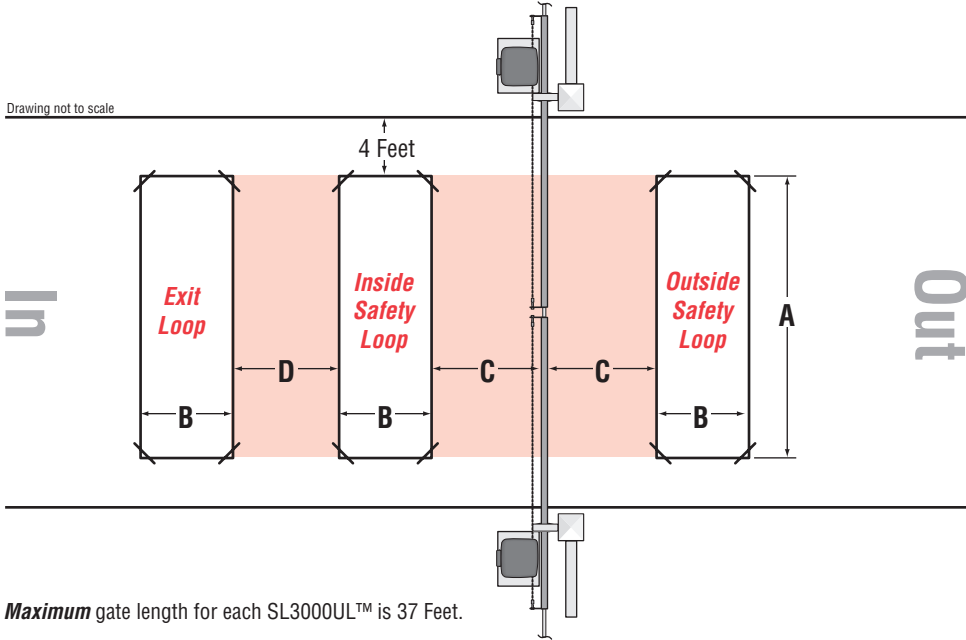
**Caution:** Verify if spacing “**C**” is appropriate for the installation and does **NOT** compromise safety.

This is for a typical single SL3000UL™ loop installation. Individual circumstances may alter dimensions.

For technical support: **1-800-528-2806**

## MASTER / SECOND LOOP SIZE AND PLACEMENT

It is **VERY** important to have enough separation between loops and gates to prevent false detection.



As **A** increases in size to cover a larger gate opening, the gate will cause a larger change of inductance when opening and closing. Therefore dimension **C** must increase as **A** increases.

<b>If A =</b>	6 Feet	9 Feet	12 Feet	15 Feet	18 Feet	28 Feet
<b>Then C =</b>	4 Feet	4.5 Feet	5 Feet	5 Feet	5.5 Feet	6 Feet

Dimension **D** should be equal to or greater than the larger of the “**Inside Safety Loop**” or “**Exit Loop's**” dimension **B**.

If the Inside and outside safety loop are connected to the **same** loop detector they should be series connected. Dimension **A**, **B** and **C** should be the same for each loop. Both loops should have the same number of turns of wire.

**Caution:** Verify if spacing “**C**” is appropriate for the installation and does **NOT** compromise safety.

This is for a typical master/second SL3000UL™ loop installation. Individual circumstances may alter dimensions.

For technical support: 1-800-528-2806

# LOOP INSTALLATION AND NUMBER OF WIRE TURNS

## Loop Installation “Saw Cut” Type

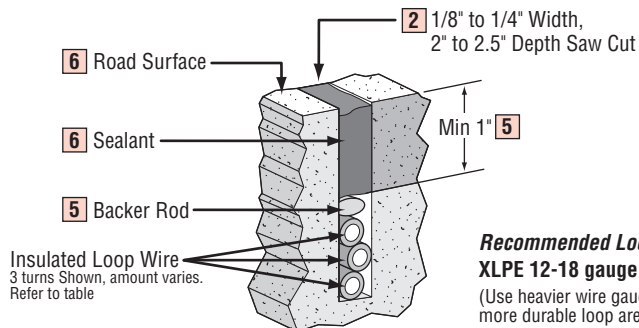
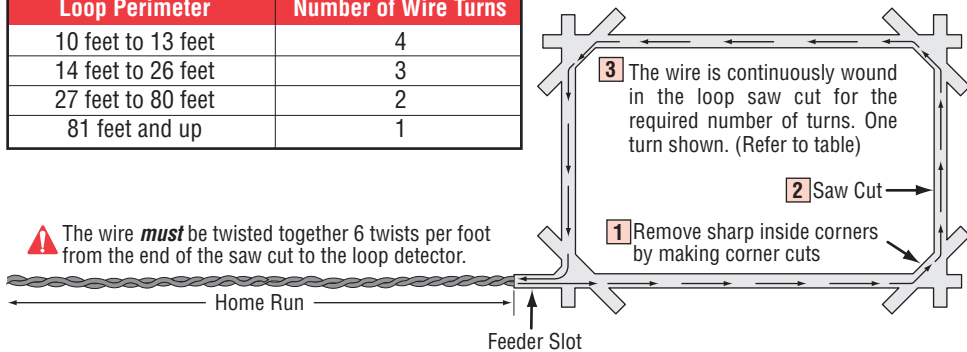
- 1 Mark the loop layout on the pavement. Remove sharp inside corners that can damage the loop wire insulation.
- 2 Set the saw to cut to a depth (typically 2" to 2.5") that insures a minimum of 1" from the top of the wire to pavement surface. The saw cut width should be larger than the wire diameter to avoid damage to the wire insulation when placed in the saw slot. Cut the loop and feeder slots. Remove all debris from the slot with compressed air. Check that the bottom of the slot is even.
- 3 It is highly recommended that a continuous length of wire be used to form the loop and feeder to the detector. It is also highly recommend using 12-18 AWG cross-link polyethylene (XLPE) insulation for the loop wire. Use a wood stick or roller to insert the wire to the bottom of the saw cut (Do not use sharp objects). Wrap the wire in the loop saw cut until the desired number of turns is reached. Each turn of wire must lay flat on top of the previous turn.
- 4 The wire must be twisted together a minimum of 6 twists per foot from the end of the saw cut to the detector.
- 5 The wire must be held firmly in the slot with 1" pieces of backer rod every 1 to 2 feet. This prevents the wire from floating when the loop sealant is applied.
- 6 Apply the sealant. The sealant selected should have good adhering properties with similar expansion and contraction characteristics to that of the pavement material.

## Number of Wire Turns Needed for Loop

### ⚠ Important

Loop Perimeter	Number of Wire Turns
10 feet to 13 feet	4
14 feet to 26 feet	3
27 feet to 80 feet	2
81 feet and up	1

⚠ The wire **must** be twisted together 6 twists per foot from the end of the saw cut to the loop detector.

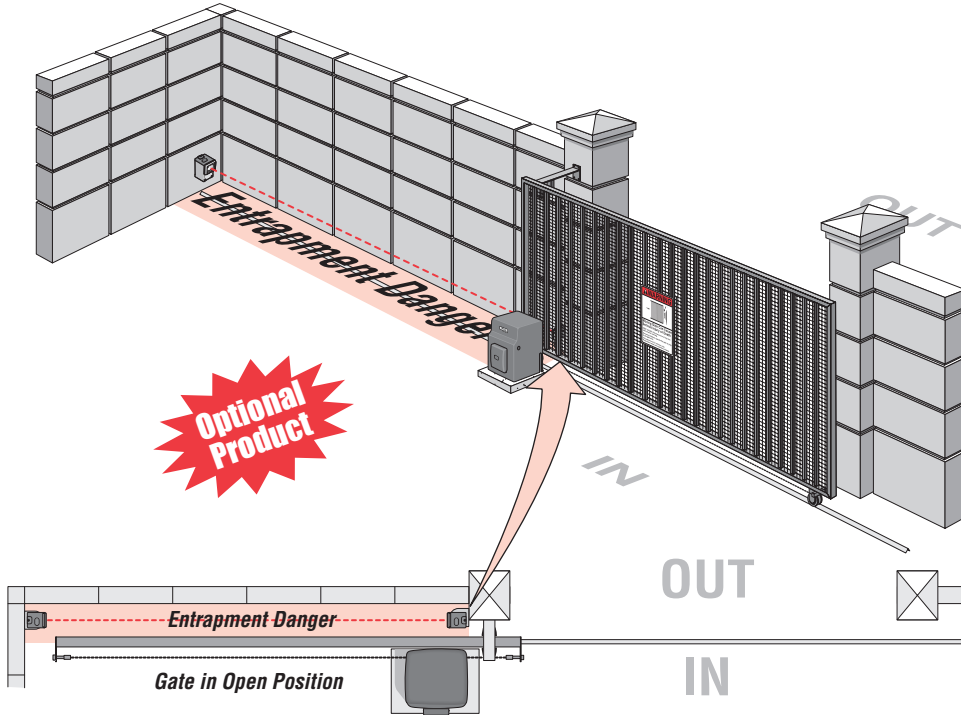


**Recommended Loop Wire**  
**XLPE 12-18 gauge**  
 (Use heavier wire gauge for a more durable loop area)

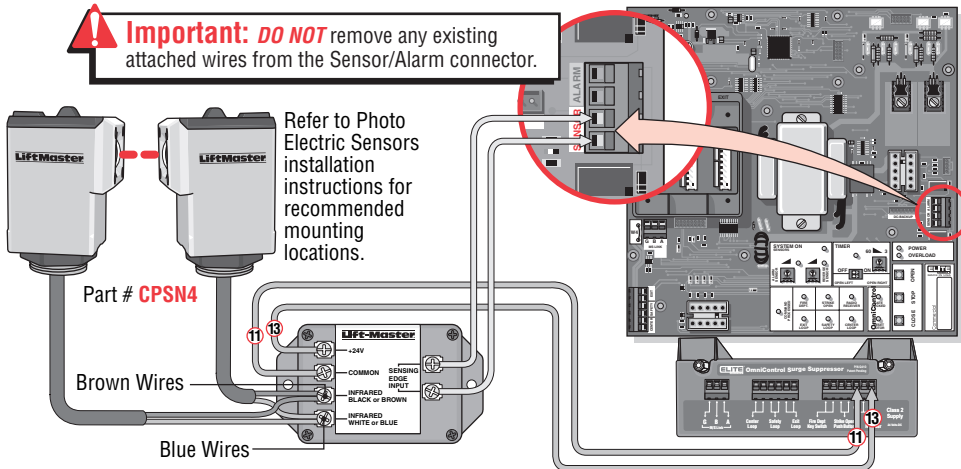
# OPTIONAL SAFETY PRECAUTIONS

## Secondary Entrapment Protection (Non-Contact Sensor)

### Optional Safety Precautions Secondary Entrapment Protection (Non-Contact Sensor)



**Important:** *DO NOT* remove any existing attached wires from the Sensor/Alarm connector.



**Note:** If multiple pairs of sensors are being used, all of the sensor wires are to be connected in parallel at the **Sensor Input** on the OmniControl™ board.

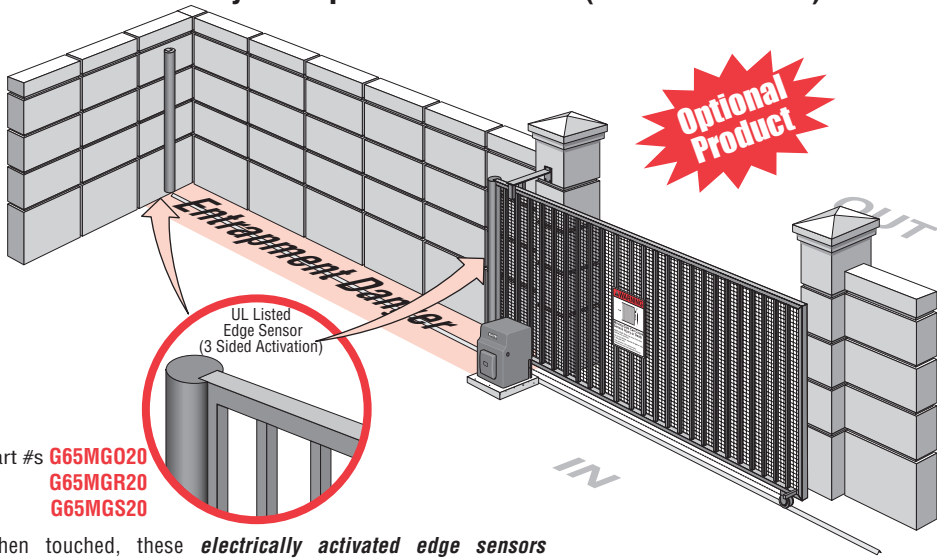
If you are going to use a non-contact sensor as a secondary entrapment protection you should use a recognized component to comply with the revised UL 325 intended to be used in class I or class II gate operator.



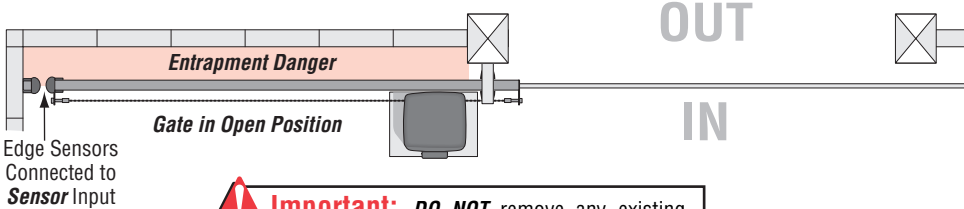
# OPTIONAL SAFETY PRECAUTIONS

## Secondary Entrapment Protection (Contact Sensor)

### Optional Safety Precautions Secondary Entrapment Protection (Contact Sensor)

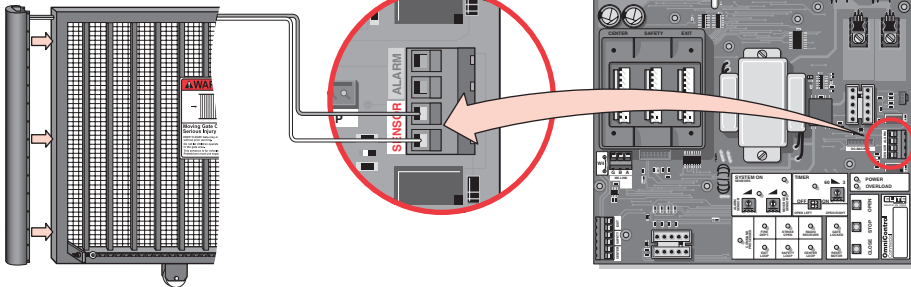


When touched, these **electrically activated edge sensors** immediately signal the gate operator to stop and reverse. Property owners are obligated to test edges regularly.



**Important:** **DO NOT** remove any existing attached wires from the Sensor/Alarm connector.

UL Listed Edge Sensor (3 Sided Activation)



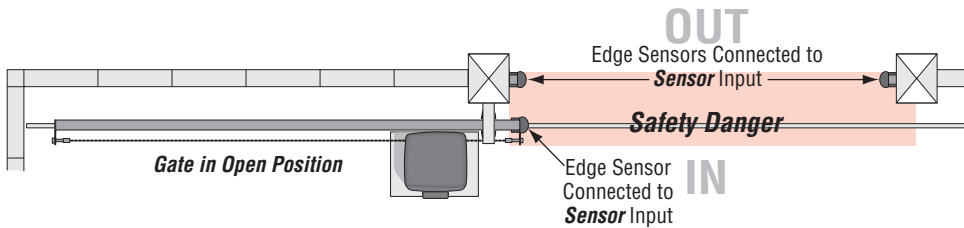
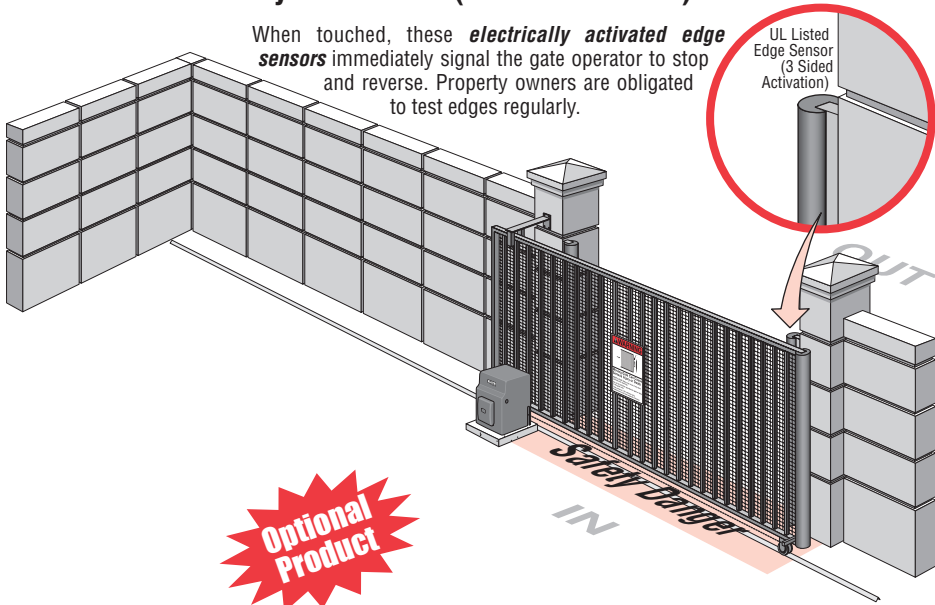
**Note:** If multiple sensors are being used, all of the edge sensors are to be connected in parallel at the **Sensor Input** on the Omni Control™ board.

If you are going to use a contact sensor as a secondary entrapment protection you should use a recognized component to comply with the revised UL 325 intended to be used in class I or class II gate operator.

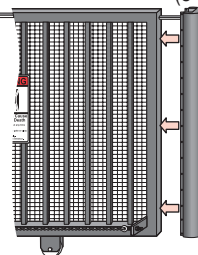
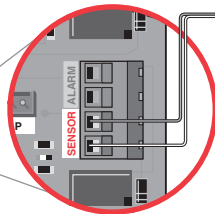
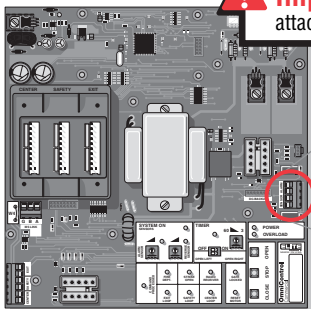
# OPTIONAL SAFETY PRECAUTIONS

## Safety Protection (Contact Sensor)

When touched, these *electrically activated edge sensors* immediately signal the gate operator to stop and reverse. Property owners are obligated to test edges regularly.



**Important:** *DO NOT* remove any existing attached wires from the Sensor/Alarm connector.



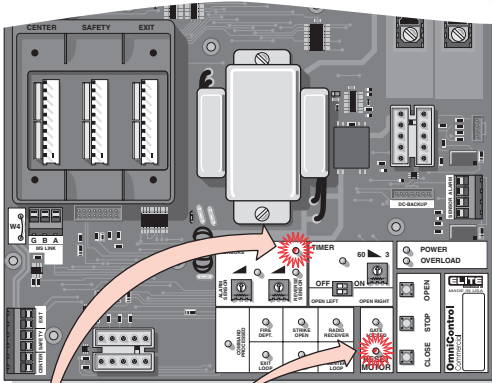
UL Listed Edge Sensor  
(3 Sided Activation)  
Part #s **G65MG020**  
**G65MGR20**  
**G65MGS20**

**Note:** If multiple sensors are being used, all of the edge sensors are to be connected in parallel at the **Sensor Input** on the Omni Control™ board.

If you are going to use a contact sensor as safety protection you should use a recognized component to comply with the revised UL 325 intended to be used in class I or class II gate operator.

Optional Safety Precautions  
Safety Protection (Contact Sensor)

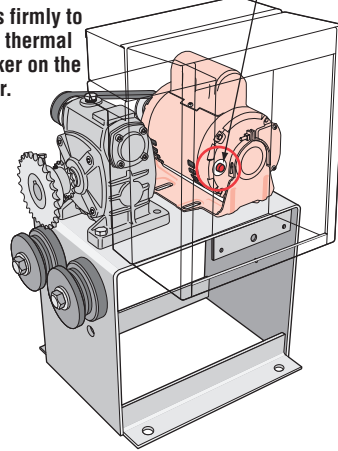
## Resetting Motor



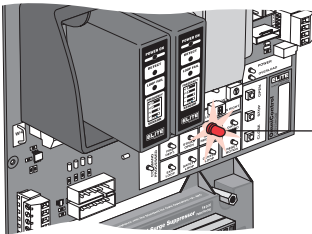
**"Reset Motor" LED** flashes once  
then  
**"System On" LED** flashes slowly

### Motor Reset Button

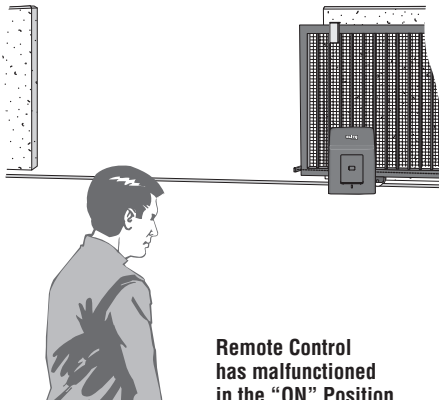
**!** Press firmly to reset thermal breaker on the motor.



## Gate Will Not Close with Remote!

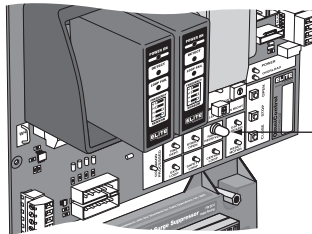


Radio Receiver LED Remains **"ON"** Always

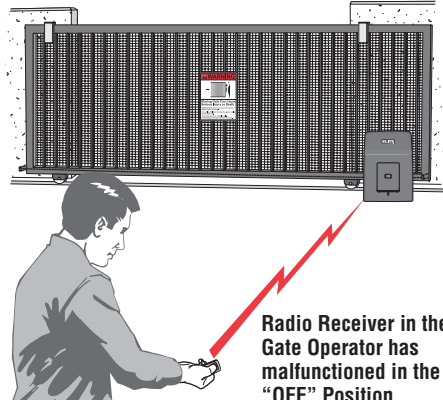


Remote Control has malfunctioned in the **"ON"** Position.

## Gate Will Not Open with Remote!



Radio Receiver LED is **"NOT ON"** when Remote Control is Activated



Radio Receiver in the Gate Operator has malfunctioned in the **"OFF"** Position.

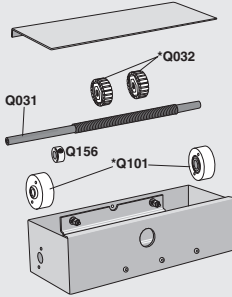
# TROUBLESHOOTING TABLE

Condition	Possible Causes	Solution
<b>Overload LED ON and Power LED OFF</b>	<ol style="list-style-type: none"> <li>1. Short circuit at terminals 11 and 13</li> <li>2. Short circuit at any of the loop detectors in the board</li> <li>3. Short circuit in the control board</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove the short circuit condition at the terminals</li> <li>2. Remove the defective loop detector</li> <li>3. Send the board to repair</li> </ol>
<b>Overload LED On and Power LED On</b>	<ol style="list-style-type: none"> <li>1. Excessive current draw at terminal 13</li> <li>2. Over-voltage at the 110 Vac line input</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce the accessories load from surge suppressor terminal 13</li> <li>2. Verify your electrical power</li> </ol>
<b>System On LED Flashing</b>	<ol style="list-style-type: none"> <li>1. One limit switch is faulty (Rapid Flashing)</li> <li>2. Motor thermal fuse has popped-out (Slowly Flashing)</li> </ol>	<ol style="list-style-type: none"> <li>1. Test the limit switches and wire connections, fix the fault</li> <li>2. Reset the motor</li> </ol>
<b>Reverse Sensor LED On</b>	<ol style="list-style-type: none"> <li>1. Gate has encountered an obstruction during traveling</li> <li>2. Reverse sensor is extra sensitive</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove the obstruction</li> <li>2. Turn the reverse sensor switch counter clockwise a little more and try again</li> </ol>
<b>Alarm Sensor LED On</b>	<ol style="list-style-type: none"> <li>1. Gate encountered an obstruction during traveling</li> <li>2. Alarm sensor is extra sensitive</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove the obstruction</li> <li>2. Turn the alarm sensor switch counter clockwise a little more and try again</li> </ol>
<b>Command Processed LED On</b>	<ol style="list-style-type: none"> <li>1. There is a command hold active</li> </ol>	<ol style="list-style-type: none"> <li>1. This is a normal response of the gate operator. It does not represent necessarily that there is a problem.</li> </ol>
<b>Timer LED Blinking and Command Processed LED Blinking</b>	<ol style="list-style-type: none"> <li>1. There is a command holding the gate open</li> </ol>	<ol style="list-style-type: none"> <li>1. This is a normal response of the gate operator. It does not represent necessarily that there is a problem. Check inputs for command.</li> </ol>
<b>Timer LED Blinking, Command Processed LED Blinking and Reverse Sensor LED On</b>	<ol style="list-style-type: none"> <li>1. Gate has reopened because it encountered an obstruction while closing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Any re-new command will resume normal operation. Check for obstructions.</li> </ol>
<b>Audio Alarm On</b>	<ol style="list-style-type: none"> <li>1. Gate has encountered two consecutive obstructions while trying to close or open</li> </ol>	<ol style="list-style-type: none"> <li>1. Any re-new command will resume normal operation but not a radio command. Check for obstructions.</li> <li>2. You can stop the alarm by using the built-in reset button.</li> <li>3. You can stop the alarm by using an optional stop button.</li> </ol>
<b>Any "Loop LED" On and No Vehicle on the Sensing Area</b>	<ol style="list-style-type: none"> <li>1. The loop detector needs to be reset.</li> <li>2. The wire loop has been disrupted</li> <li>3. The loop detector needs to work in a different frequency</li> <li>4. The loop detector is too sensitive</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset the loop detector (If you use Elite Plug-in Loop detectors, change the setting for sensitivity and come back to your original setting).</li> <li>2. Verify and correct connections</li> <li>3. Set a different working frequency</li> <li>4. Decrease the sensitivity of the loop detector</li> </ol>

For Technical Support: 1-800-528-2806

# SL3000UL™ PARTS ILLUSTRATIONS

## Limit Switch Assembly

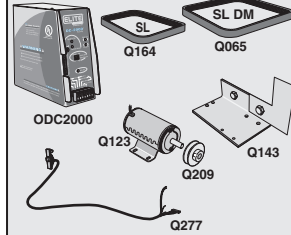


Q024

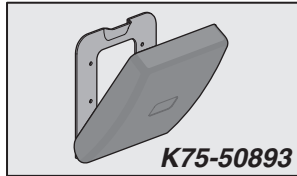


Q254

## Power Back-Up Unit



ODC2000SL



K75-50893

SL3000UL™ Parts



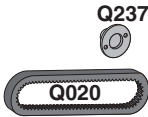
Q030



K75-50932



Q028



Q020

Q237

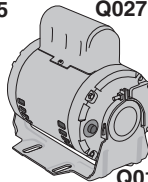


Q039

DM / 1 HP

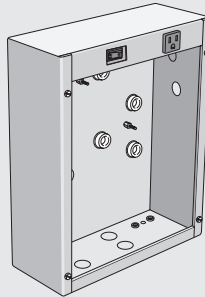


Q025



Q027

## Electronic Box Assembly



Q403



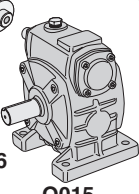
Q021



Q014



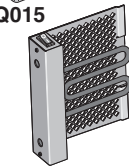
Q016



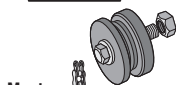
Q015



\*Q013



G6518SL



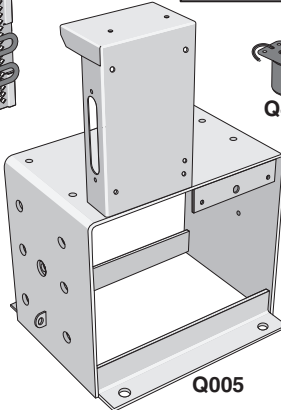
Q004



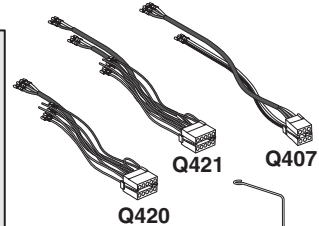
Q003



K23-51158



Q005



Q421

Q407

Q420



Q410



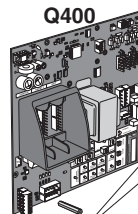
412HM



Q408



Q404



Q400

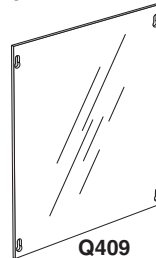


Q401

Q006



OOMNIEXB



Q409

QQCCOMNI

AELD

Note: \*Sold Individually, 2 Shown

# SL3000UL™ PARTS LIST

## Idler Sprocket Assembly Q013

## Limit Switch Assembly

<b>Q024</b>	{	Q031 - Limit Switch Bolt
		Q032 - Limit Switch Adjustment Nuts
		Q033 - Limit Switch Sprocket
		Q101 - Limit Switch Bearing Holder
		Q156 - Collar 3/8 in

## Power Back-Up Unit

<b>ODC2000SL</b>	{	Q065 - Drive Belt (DM)
		Q123 - Back-Up Motor DC 12V
		Q143 - Chassis DC Back-Up
		Q151 - Hardware Kit
		Q164 - Drive Belt
		Q209 - Pulley DC-2000 1/2 ID
		Q277 - Wire Harness DC-2000

## Electronic Box Assembly Q403

## Crank Housing Kit K75-50932

AELD - Plug-in Loop Detector#  
 AH110 - Chain no. 41 (10 ft)  
 AH111 - Chain no. 40 (10 ft)  
 AH112 - Chain no. 41 (Nickel Plated)

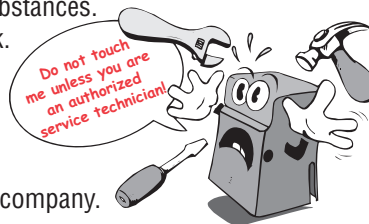
□	Multiple Parts "Q" Numbers
#	OmniControl Board Accessories
+	Operator Serial No. and Model No. Required When Ordering

AH113 - Master Link no. 41  
 AH125 - Master Link no. 40  
 K23-51158 - Reset Button Assembly  
 K75-893 - Safety and Interlock Assembly  
 G6518SL - Heater  
 OOMNIEXB - Omni Option Board#  
 OQCCOMNI - QCC Access ID#  
 Q003 - Chain Bolt  
 Q004 - Chain Bracket  
 Q005 - SL-3000 Chassis  
 Q006 - PC Board Nuts (1 Set)  
 Q014 - Drive Sprocket  
 Q015 - Gear Reducer  
 Q016 - Limit Switch Drive Sprocket  
 Q018 - 1/2 HP Electric Motor  
 Q020 - Drive Belt  
 Q021 - Gear Pulley  
 Q025 - Motor Pulley  
 Q027 - Motor Capacitor  
 Q028 - Manual Crank  
 Q029 - Limit Switch  
 Q030 - Limit Switch / Chain  
 Q039 - Drive Belt, DM and 1 HP  
 Q237 - Crank Input  
 Q254 - Cover HD Polyethylene  
 Q400 - Omni Main PCB  
 Q401 - Omni 1 Horsepower Board#  
 Q404 - Omni Siren  
 Q407 - Omni Motor harness 1HP  
 Q408 - Omni Switch Channel  
 Q409 - Electronic Access Panel  
 Q410 - Surge Suppressor Terminal Block  
 Q420 - Omni Motor Harness  
 Q421 - Omni Motor Harness DM  
 412HM - Radio Receiver

SL3000UL™ Parts List

## MAINTENANCE

1. Make sure the reversing sensor is functioning properly (see page 21).
  2. Make sure the gate track is clear of dirt, rocks or other substances.
  3. Make sure the wheels are operating smoothly on the track.
  4. If you hear an alarm, refer to pages 24 and 25.
  5. Clean the cover on a regular basis.
  6. Remove interlock assembly with 3 screws to replace belt.
  7. For a list of parts, refer to previous page and this page.
- If you need further assistance, please call your local service company.



Maintenance

# OWNERS CHECKLIST OF INSTALLATION

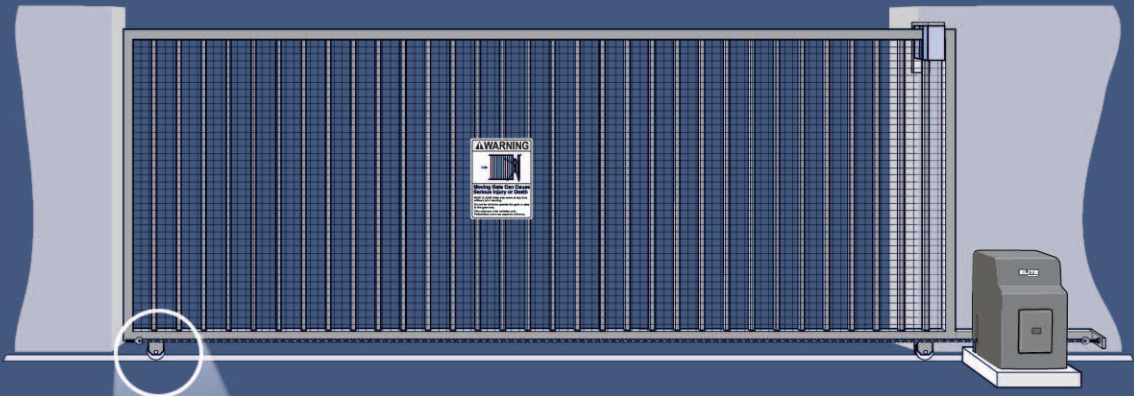
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## Owners Checklist of Installation

1.  Owner and Installer must read all warnings and safety precautions and be aware of their roles and responsibilities. (Pages 4-13)
2.  Make sure concrete mounting pad is big enough and deep enough for operator. (Page 16)
3.  Operator must be **securely** fastened to concrete pad. (Page 16)
4.  Operator chain must be **4" Minimum** from gate. (Page 17)  
Chain must not be too tight or too loose.
5.  Gate operator must be grounded to an earth ground rod within 3 feet. (Page 18)
6.  Verify that the AC power is connected properly and property owner knows how to shut off power to operator. (Page 18)
7.  Verify that the gate opens and closes as needed. (Page 20)
8.  When gate hits object during operation, it **must** stop or reverse. (Page 21)
9.  Make sure that any pinch point or potential entrapment are guarded by means of safety devices or like. (Page 11, 44-47)
10.  Warning placards need to be permanently mounted on **both** sides of gate. (Page 13)
11.  Test all additional equipment connected to operator.
12.  Make sure **all** wire connections are **securely** fastened.
13.  Review typical maintenance on operator. (Page 51)
14.  Schedule periodic maintenance on operator by qualified service technician.
15.  Inquire about Manufacturers "*operator warranty*". (Warranty Card Included with operator)
16.  Inquire about **separate** "*installation warranty*" with installer.

## FEATURES AND SPECIFICATIONS

We suggest the following items manufactured by Chamberlain Professional Products for better and safer operations.



### POWER WHEELS

These wheels are the best choice for high traffic commercial sliding applications.



### WARNING SIGN

Use a warning sign on gate to prevent injury to children.



## ATTENTION

In order to reduce any severe injuries, Chamberlain Professional Products recommends the electric gate be either; covered with a screen or installed in such a way which to prevent small children or any other persons from being able to stand, hang or climb on the electric gate.

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