SGC PRO 4500

Residential & Light Commercial Swing Gate Operator with Battery Backup System

Instruction Manual

Maximum Gate Length 16 Feet.
Maximum Gate Weight 400 Lbs.

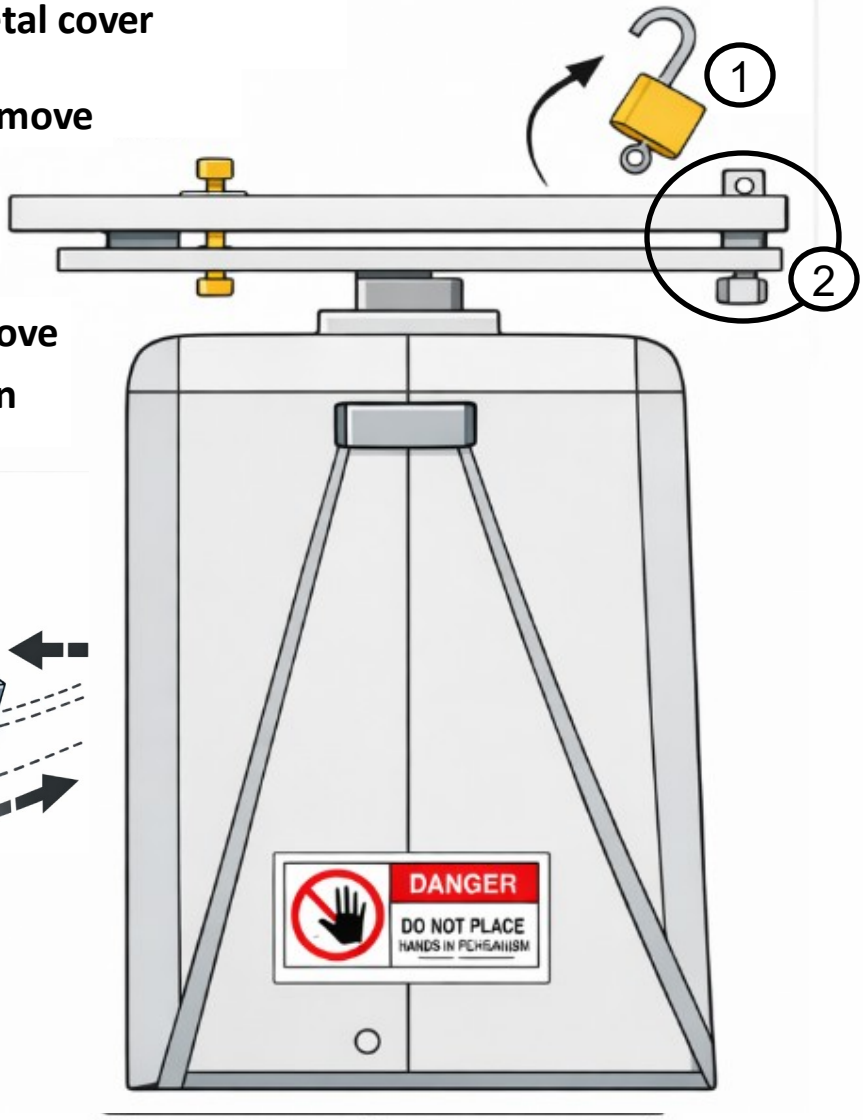
Not For Solar Applications

SGC
ACCESS CONTROLS
Division of Superior Gate Controls, Inc.

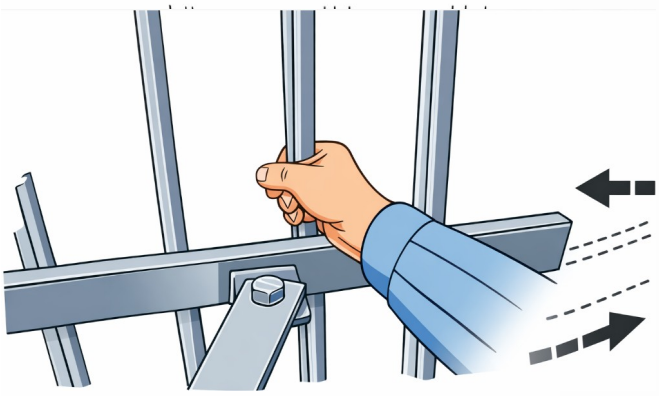
First, Turn Off Power, then

After removing the arm metal cover

1. **Release Padlock and Remove**
2. **Remove Drop Pin**



Gate should be released and move freely, now pull the gate open



or push the gate open, as pictured above

ALWAYS TURN OFF GATE OPERATORS POWER SOURCE OR DISCONNECT POWER BEFORE PROCEEDING

Optional Override Switch Box

On our Option Board prevision is made to allow Emergency Override.
On option board 11 & 4 allow Direct Open Command from Battery to Motor.
12 & 7 Direct Close Command from Battery to Motor.
Parts needed
Override Switch Box # 45-122
Option Board # 45-121

The contents of this manual may be “changed at any time and without notice”

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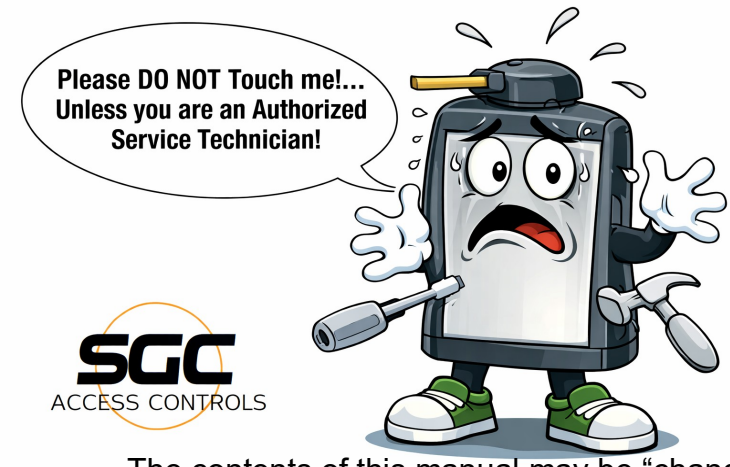
The Manufacturer declines any liability for using non original products, **which would also void the warranty.**



SGC ACCESS CONTROLS

HOMEOWNERS ATTENTION

*All items above in **RED** are not suggestions they are **MANADORY!***

All operations indicated in this manual must be carried out exclusively by skilled and Qualified Authorized Service Technician and in full compliance with the regulations in Local Laws. Please note that Warranty will not be honored .

The contents of this manual may be “changed at any time and without notice”

IMPORTANT!

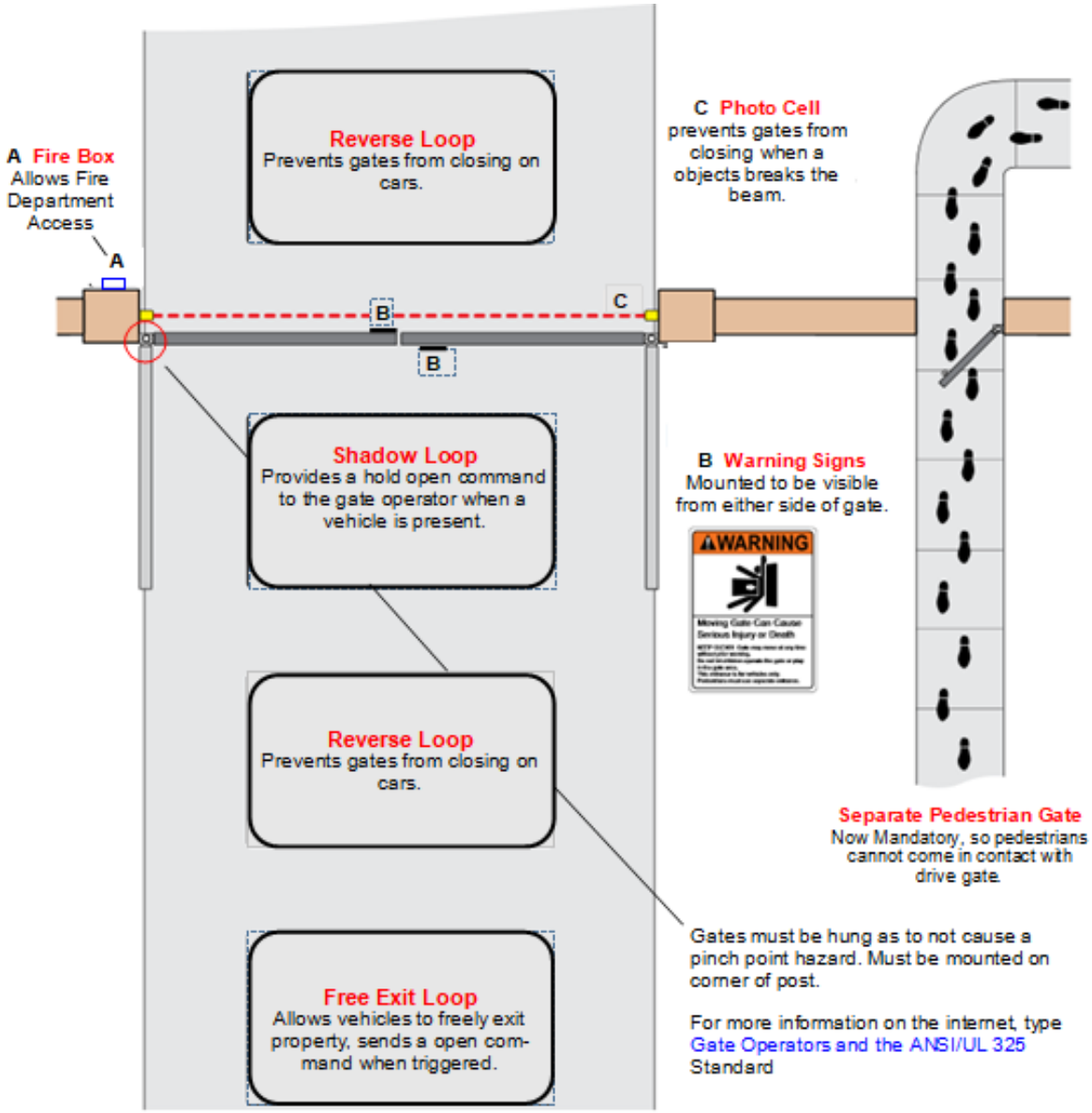
Instructions regarding PRO-4500 Swing Gate Operator Installation

I. Install the gate operator only when all exposed pinch points are eliminated or guarded.

2. The operator is **ONLY** intended for installation only on gates used for vehicle's. ***Pedestrians MUST be supplied with a separate access point.***

3. The gate must be installed in a location that allows vehicles with clearance off any public access road.

4. Please follow all of these instructions. Improper installation may cause serious bodily harm. Before continuing, please also read the general precautions for users. The contents of this manual may be changed at any time and without notice.



5. The gate or gates must swing freely and work properly in both directions prior to the installation of the gate operator.

6. The gate must also be installed so that enough clearance is supplied between the gate and any structures when opening and closing to reduce the risk of entrapment.

7. Keypads, Push Buttons and any other controls must be 15 ft. away from the gate to prevent someone coming in contact with gate while operating such a devise.

8.The manufacturer cannot be held liable for any damage caused by improper, unreasonable or erroneous use.

9. The device must be installed, wired, connected and tested according to good professional practice, in compliance with the standards and laws in force.

10. Make sure the mains power supply is off or disconnected during all installation procedures.

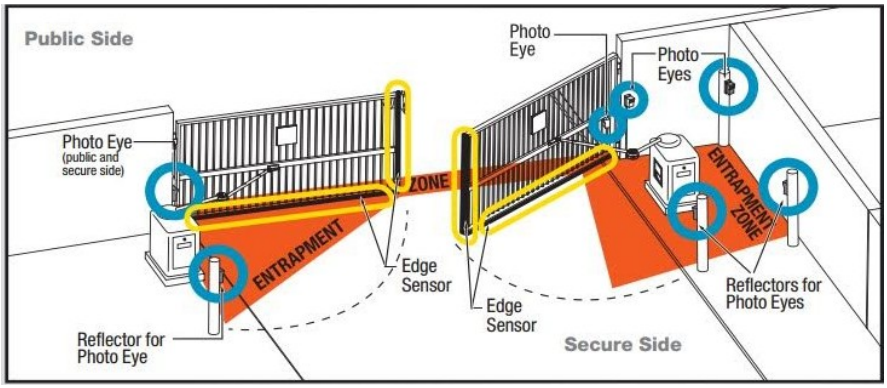
11. Check that the temperature ranges given are suitable for the installation site.

12. Do not install the operator on surfaces that could yield and bend. If necessary, add suitable reinforcements to the anchoring points.

13. Make sure that no direct jets of water can wet the product at the installation site (sprinklers, water cleaners, etc.).

14. Make sure you have set up a suitable GFI cut-off device along the power supply that is compliant with the installation rules. It should completely cut off the power supply.

15. Use suitable protection to prevent any mechanical hazards due to persons loitering within the operating range of the operator. (see page 17)



Safety is NOT a suggestion it is Mandatory. Please email us at info@sgcaccess.com if you have any questions on safety requirements.
Its protection that can save property damages, bodily injuries or even death if not followed correctly.

18. The electrical cables must pass through conduit pipes in order to guarantee adequate protection against mechanical damage.

20. The electrical cables **must be of the right gauge** and amperage to prevent any parts that may overheat during use (such as the motor and transformer).

21. Before installation, check that the guided part is in good mechanical condition, coved with protective covers and that it opens and closes correctly and smoothly.

- **The product cannot be used to automate any gate or part that includes a pedestrian gate.**
- Make sure that nobody can become trapped between the gate and fixed parts (see image above), when the gate part is set in motion.
- All fixed controls must be clearly visible after installation, in a position that allows the gate or part to be directly visible, but far away from moving parts. In the case of a hold-to-run control, this must be installed at a minimum height of 4ft from the ground and must not be accessible to the public.

• Make sure that the operator has been properly adjusted and that the safety and protection devices and the manual release are working properly.

• Any residual risks must be indicated clearly with proper signage affixed in visible areas, and explained to end users. • Put the machine's ID plate in a visible place when the installation is complete.

• If the power supply cable is damaged, it must be immediately replaced by an authorized dealer, or in any case, by qualified licensed contractor, to prevent any risk.

• **If the product malfunctions, stop using it and contact your installing dealer.**

See Gate Operators Safety Guidelines @ TDS353.pdf

Separate Pedestrian Access

Access Controls Placement

Property Owners must never allow anyone to hang on or ride the gate!

Mandatory Safety Requirements

Separate Pedestrian Access: UL 325 and ASTM F2200 require that pedestrians be directed to a **separate entrance and exit** that is not used by vehicular traffic.

Location of Pedestrian Gates: The walk gate must be positioned so that individuals do not come into contact with the moving vehicular gate.

Signage Requirements: Clearly visible **warning signs** must be posted on both sides of the gate, instructing pedestrians to use the separate walk-through entrance.

Access Controls Placement: Activation devices (like keypads or buttons) must be installed at least **6 feet** away from moving parts to prevent anyone from reaching through the gate while it is in motion.

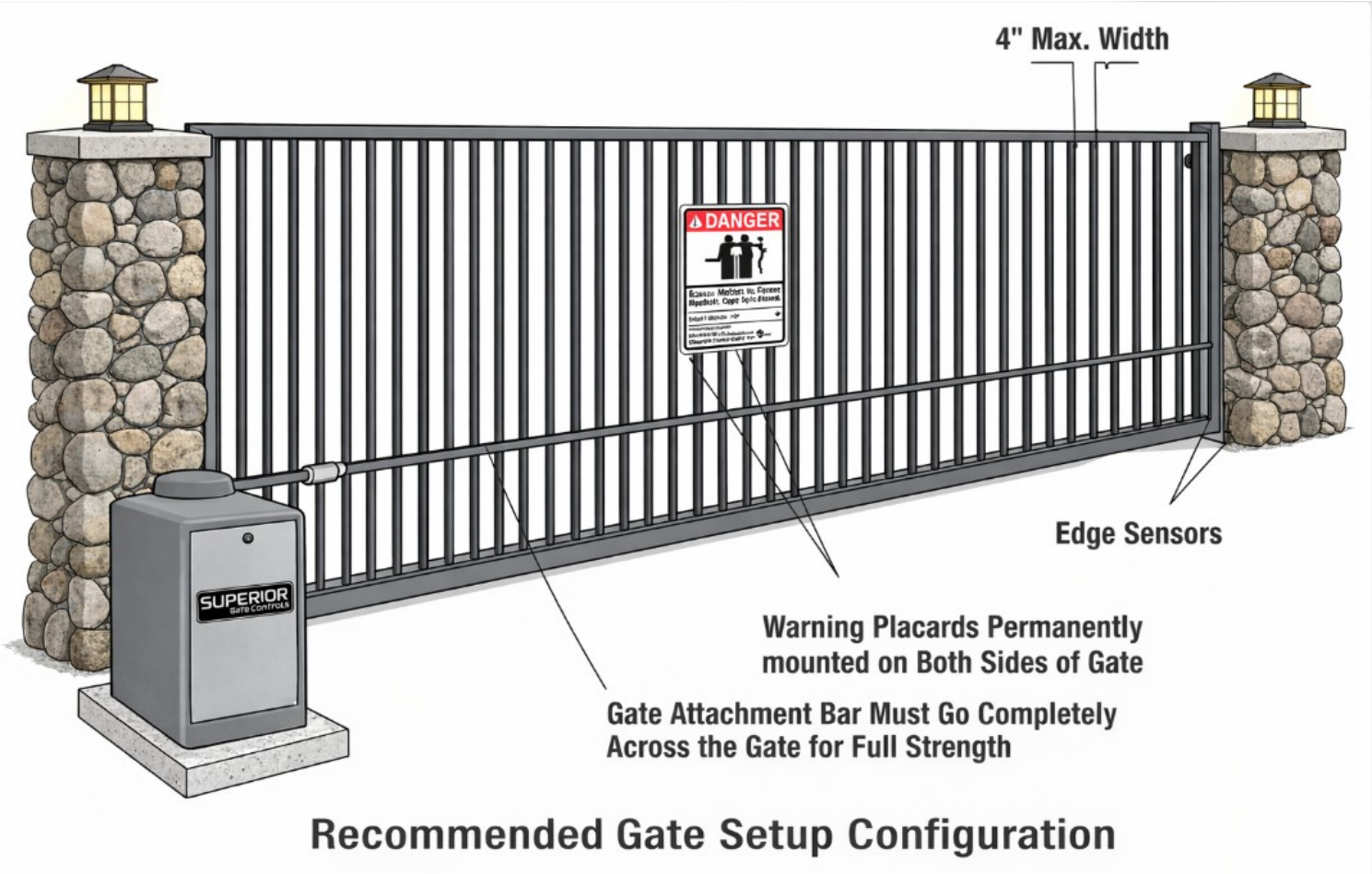
Liability and Compliance

Property Owner Responsibility: Property owners are responsible for ensuring their gate systems meet these standards to avoid **liability** in the event of an accident.

Safety Devices: Automated gates must have at least **two independent entrapment protection devices** (e.g., photo eyes and safety edges) to stop or reverse the gate if an obstruction is detected.

NEVER ALLOW CHILDREN TO RIDE OR PLAY near the gate.

All “Pinch Points” **MUST** have protective covers and safety devices



Recommended Gate Setup Configuration

Gate Speed 15 - 17 seconds per 90% cycle

Maximum Gate Length 16 Feet.

Maximum Gate Weight 400Lbs.

Maximum Cycles - 250 cycles per day with Plug-In Transformer.
Battery back up cycles (30 cycles total)

AC Power Supply 18V 40 VA Plug - In Transformer PART #

AC Power Wire 12 gauge or greater up to 500ft.

DC Power Supply Built in battery backup for AC or Solar power failure.

Solar Power Need Solar Power ?, Contact Superior for more information
Optional Kit -Solar Kit # 4500SKit

CAUTION

Be sure to check with local building codes for electrical connection.
ALWAYS TURN OFF GATE OPERATORS POWER SOURCE OR DIS-CONNECT POWER BEFORE ATTEMPING REPAIRS.
Superior Gate Controls is not responsible for improper installation of failure to comply with local building codes

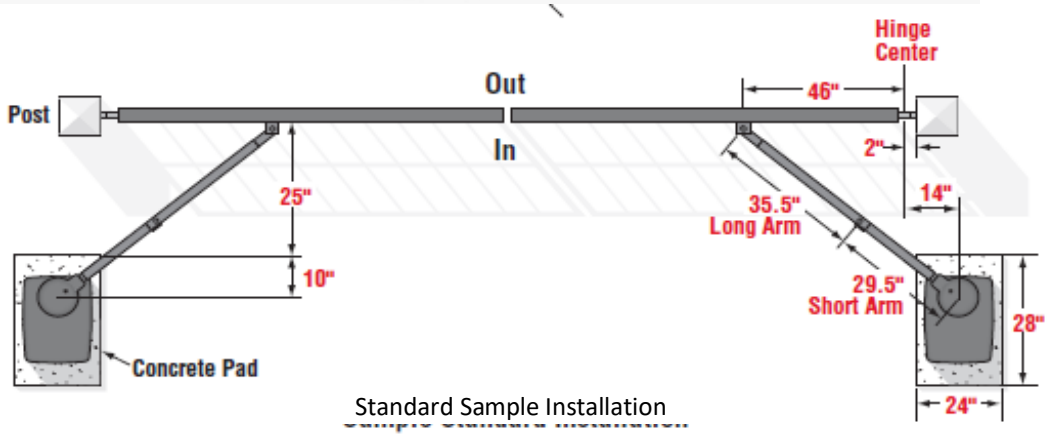
Pad Dimensions & Depth

Depth: The pad should extend at least **12 inches below ground** or below the local **frost line**, whichever is deeper, to prevent "frost heave" from tilting the unit.

Height: Aim to have the finished surface **4 to 6 inches above ground level** to keep the operator out of standing water and debris.

Typical Size: A common footprint for residential operators is roughly **24" x 28"**, but always verify the specific dimensions required by your operator model.

Grounding Rod: See next page



Standard Sample Installation

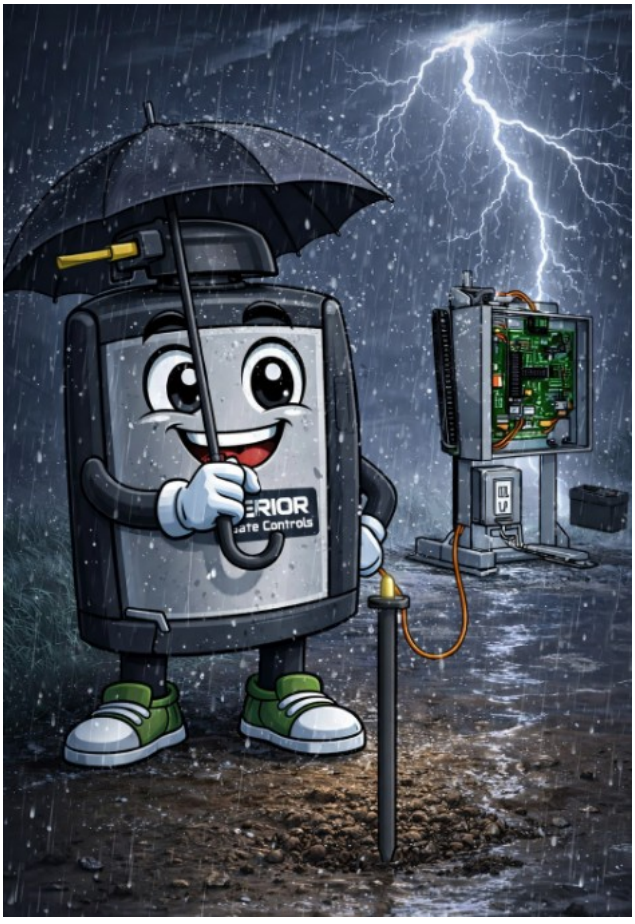
Before Digging CONTACT Your Local Utility Companies to Locate any Utilities in the Area.

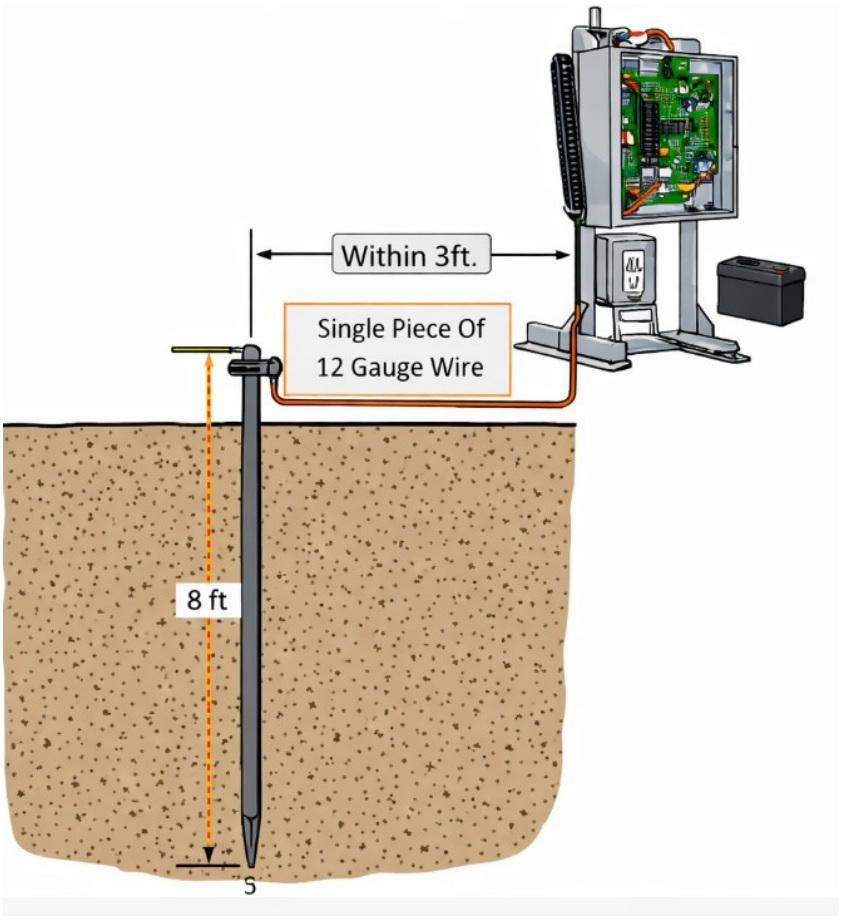
An Earth Ground Rod must be installed to protect this operator

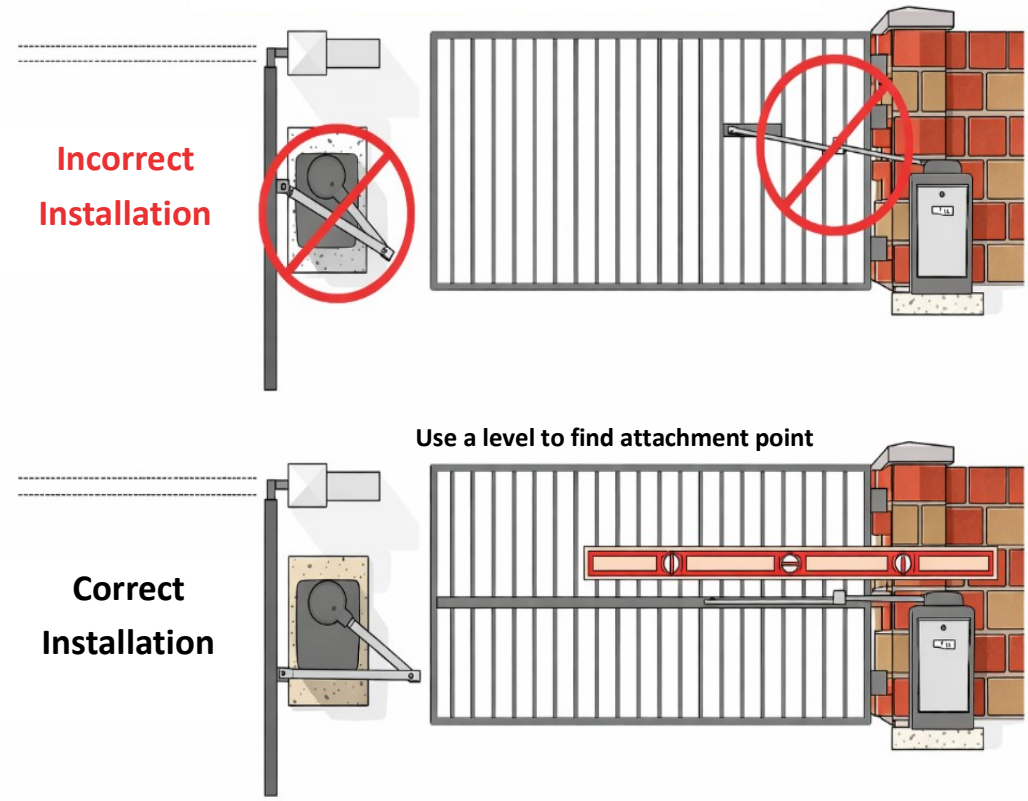
Proper grounding gives an electrical charge such as lighting strike or electrical static discharge, a path from which to dissipate its energy safety into the ground.

Without this path, the intense energy generated by a lighting strike could be directed to the gate operator and control board. Although nothing can absorb the electrical power of a direct hit by a lighting strike, power grounding can protect the operator in most cases.

The grounding rod must be located within 3 feet of the gate operator. Use the proper grounding rod and copper wire for your local area. The ground wire must be one piece with no splice and no wire nuts. NEVER splice two pieces of wire together.







Welding a gate arm specifically a bracket for an automated operator requires precise leveling to prevent premature wear on the motor and ensure smooth operation.

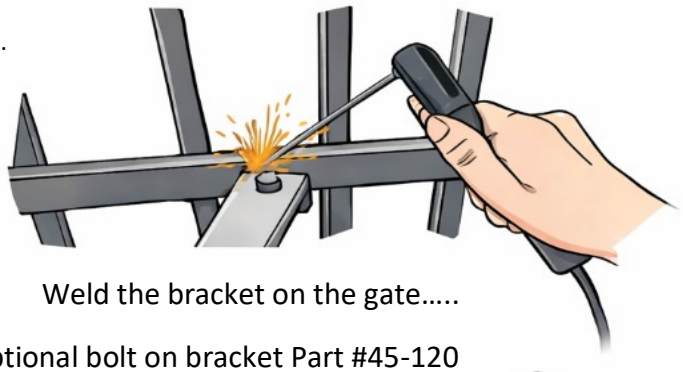
Preparation: Use a wire brush or angle grinder to remove paint or rust from the gate where the brackets will be attached.

Initial Alignment: Clamp the gate attachment bracket to the gate. Use a **level** to ensure bracket is horizontal and aligned with the gate operator.

Do not weld bracket straight to pickets as the torque can tear the metal. Instead, weld the bracket to a **steel flat bar attached to pickets.**

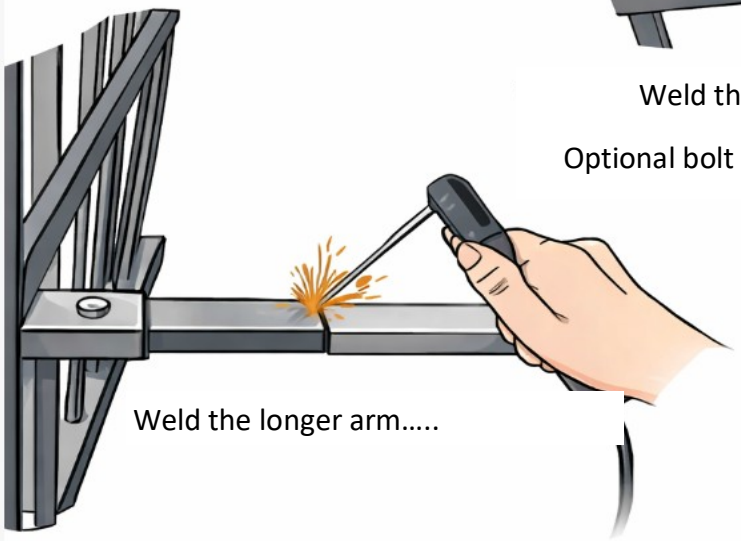
Tack Welding: Apply small tack welds to hold the brackets in place. Double check the levelness after tacking, as the heat from the weld can cause the metal to pull or warp.

Final Welding: Complete the welds by alternating sides to distribute heat evenly and minimize distortion. Ensure weld beads go all the way around the bracket.



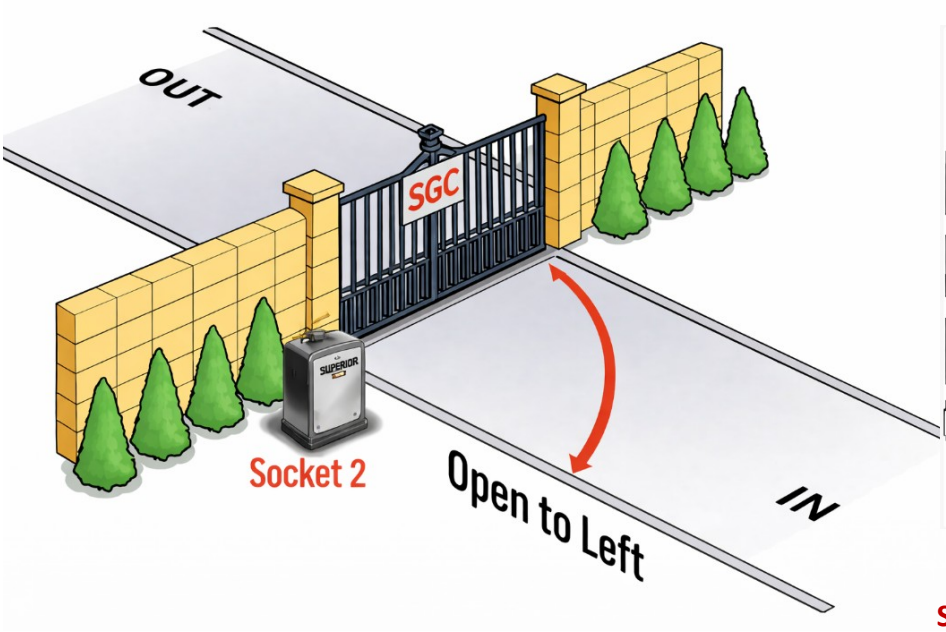
Weld the bracket on the gate…..

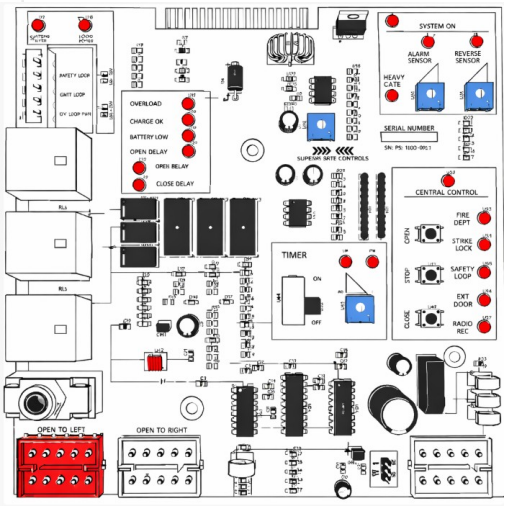
Optional bolt on bracket Part #45-120



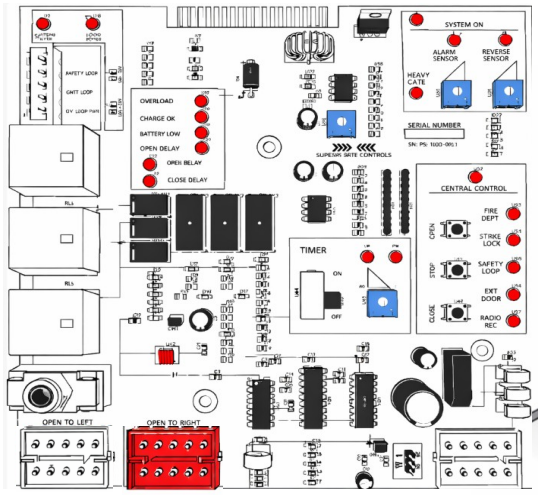
Weld the longer arm…..

Then weld the shorter arm…..

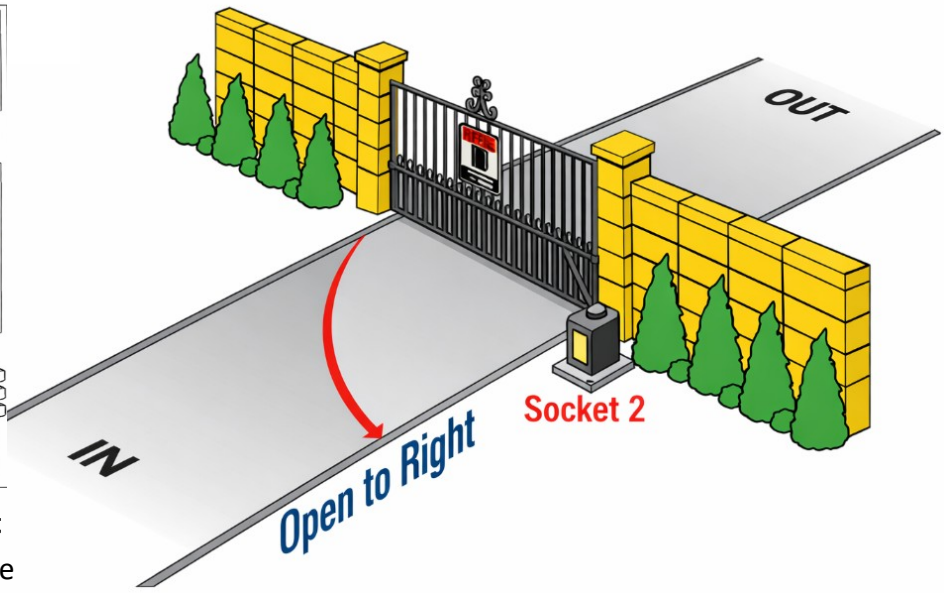




Plug in the motor harness to the **left** **Socket 1** if your gate, from inside the property opens to the **left**.



Plug in the motor harness to the **Right** or **Socket 2** if your gate, from inside the property opens to the **Right**.



IMPORTANT Socket Installation Notes

- **Use only one socket at a time**,

will cause damaged to the control board which is not covered under warranty.

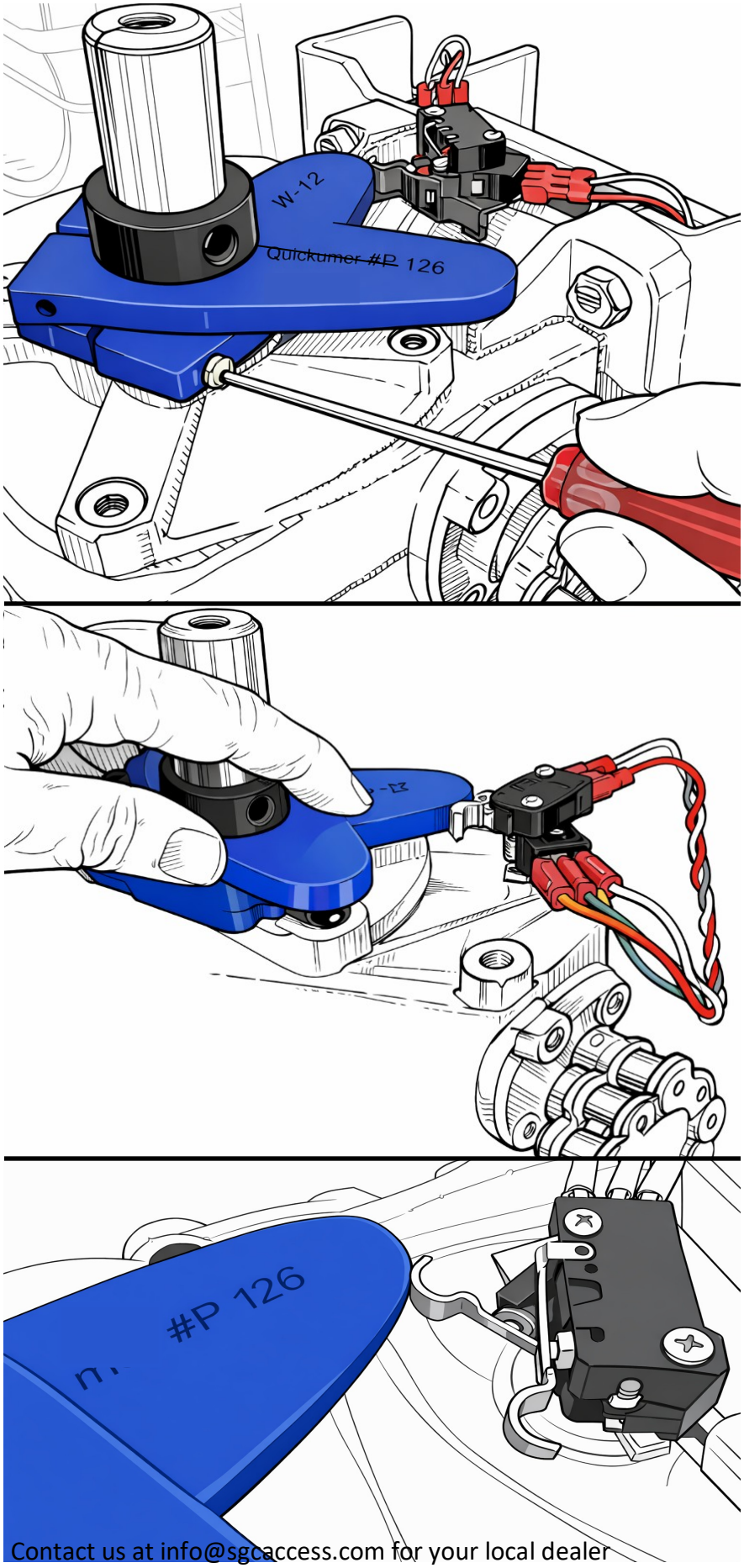
- **If the gate moves in the incorrect direction**,

disconnect power before relocating harness to the opposite socket.

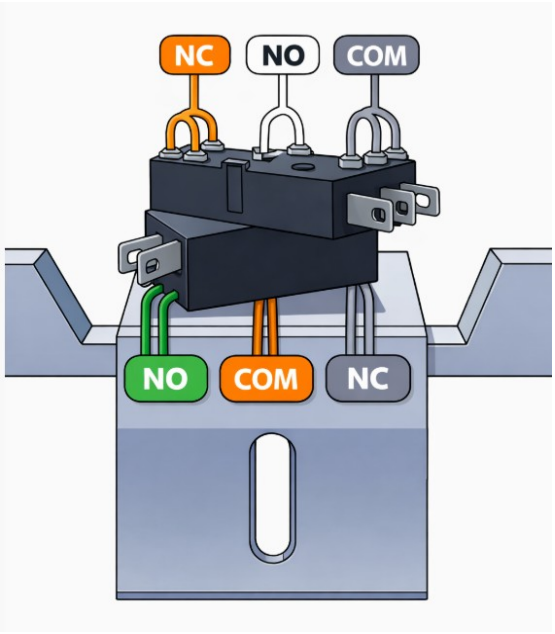
- **Always verify correct operation**,

even if you are setting up as remote open and remote close. Before placing the unit into operation as customer might turn on timer and cause gate to stay open.

ADJUSTING GATE LIMIT CAM



- **Step 1**
  Open the gate to a desired distance. Loosen the screw on limit cam (counterclockwise to loosen).
- **Step 2**
  Turn plastic part until the half moon shape hits the limit switch. For closing cycle.
- **Step 3**
  Snug the cam screw.
- **Step 4**
  Do the same with the other limit cam.



Lim

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Replacement Parts

Limit Switch

Long Life IP67 Sealed Micro Switch Water-proof Mini Limit Switch

Part #45-127 / 4 pack #45-128

Limit Switch Mounting Bracket

Part # 45-125

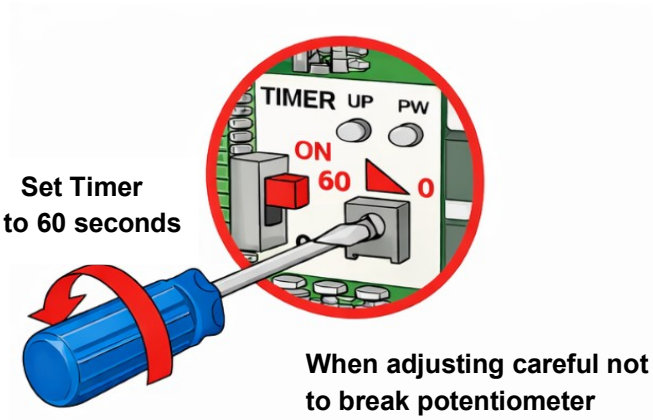
Limit Cam

Part #45-126

Order from local dealer

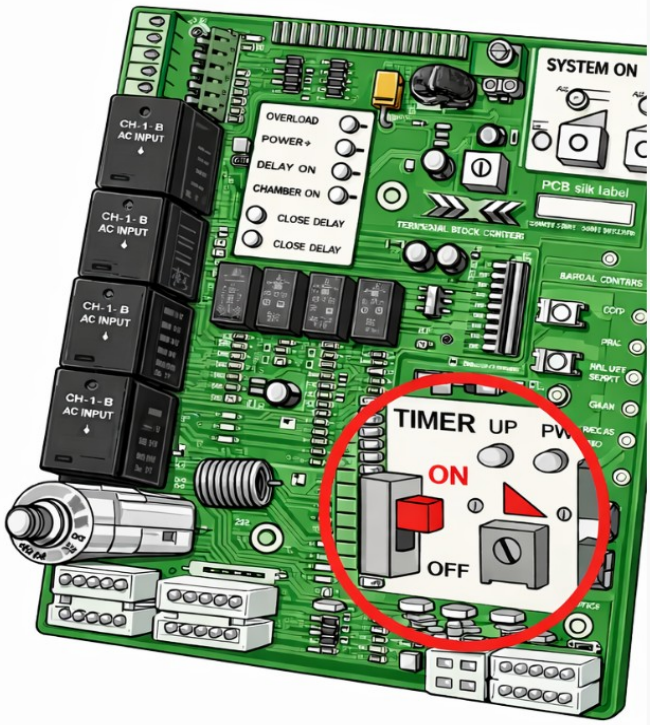
Adjusting Close Timer / Gearbox Plug

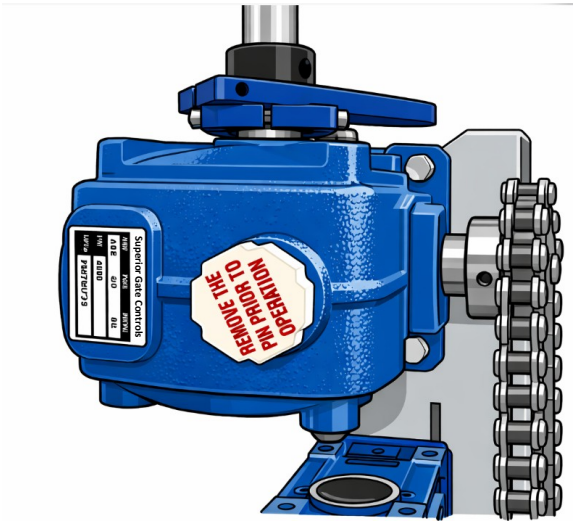
If you want to use the automatic close for the gate system the timer switch should be put in the **"ON"** position. If you want to use the push open or push close command, the timer should be switched to the **"OFF"** position.



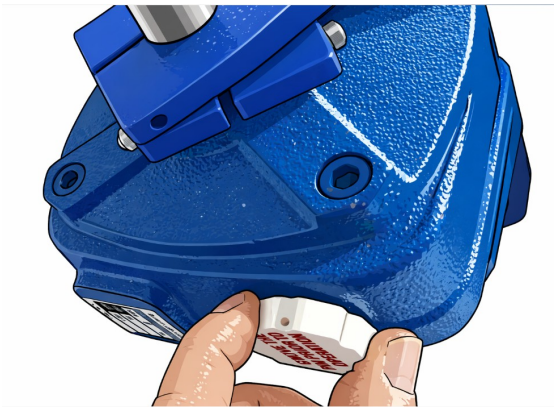
Set Timer
1 to 60 seconds

When adjusting careful not to break potentiometer





Control Board Replacement
Part # R-900
Gearbox Ratio 60:1
with Custom output shaft:1" length
Part# 45-210

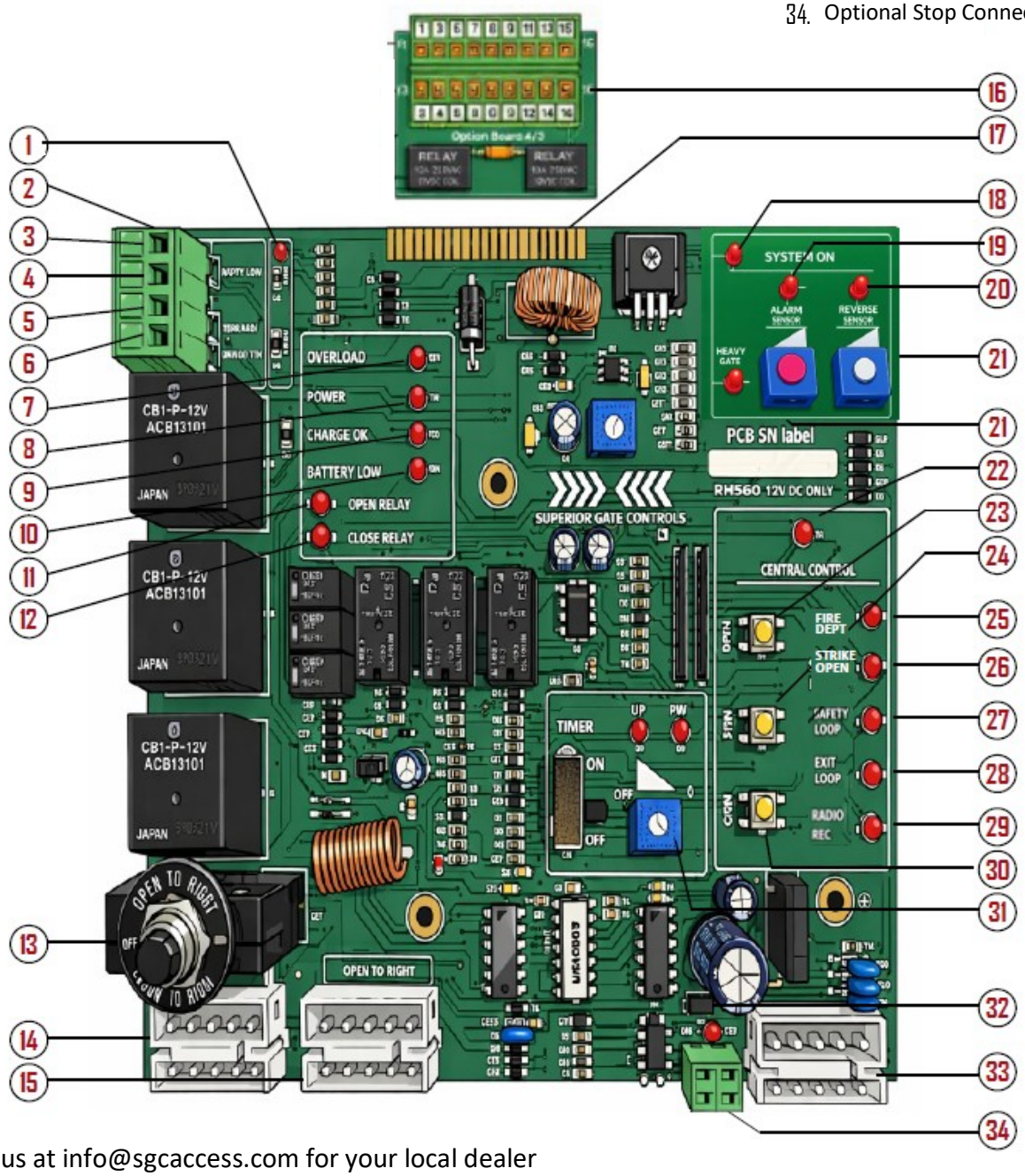


Removing a gearbox filler or breather plug before operation is crucial to prevent pressure buildup, which can cause seal failure, oil leaks, and premature gearbox failure.

Turn plug upright before **removing the air breathing plug**.

CONTROL BOARD OVERVEIW

1. Board Power Fuse
2. Charging Power Fuse
3. Safety Loop
4. Exit Loop
5. 12V COM
6. 12V +
7. Overload LED
8. Power LED
9. Charge LED
10. Battery Low LED
11. Open Relay
12. Close Relay
13. Reset Breaker
14. Open To Left Plug
15. Open To Right Plug
16. Option Board
17. Option Board Output
18. System On LED
19. Alarm Sensor LED
20. Reverse Sensor
21. ERD Adjustment
22. Central Control LED
23. Open Button
24. Stop Button
25. Fire Dept LED
26. Strike Open LED
27. Safety Loop LED
28. Exit Loop LED
29. Radio Rec LED
30. Close Button
31. Timer Adjustment
32. W1 Jumper for Option Board
33. Surge Board Connector
34. Optional Stop Connection



CONTROL BOARD LED DECRIPTION

	LED Description	*LED ON*	*LED OFF*
1	**Board Power Resettable Fuse** Normally **OFF**	Resettable fuse cooling period for reset is 30 seconds to several minutes	Should be OFF, after cool down period will resume to normal operation
2	**Charging Power Resettable Fuse** Normally **OFF**	Resettable fuse cooling period for reset is 30 seconds to several minutes	Should be OFF, after cool down period will resume to normal operation
7	**Overload LED**	Just what it means, system has experienced an overload	System is OK
8	**Power LED** Normally **ON**	Power source OK and board power fuse OK	Transformer or power source not working If dimmed LED transformer is bad
9	**Charge OK LED** Normally **ON**	Transformer is charging power is OK	Transformer or power source not working If dimmed LED transformer is bad
10	**Battery Low LED** Normally **OFF**	Flashing LED– Battery is Bad or voltage is less than required voltage.	Battery OK
11	**Open Relay LED** Normally **OFF when gate is closed**	When opening or held on open signal	Off when open relay is not energized
12	**Close Relay LED** Normally **OFF when gate is Open**	When closing or held on close signal	Off when relay is not energized
18	**System On LED** Normally **OFF works only when gate is in motion**	Reads that motor has current	Motor stopped No motor current detected
19	**Alarm Sensor LED** Normally **OFF**	Hearing beep sound means overload Gate is too heavy Gate has been stopped by object	System is OK
20	**Reverse Sensor LED** Normally **OFF**	Gate has encountered an obstruction during travel Reverse sensor is set too sensitive	System is OK
22	**Central Control LED** Normally **OFF**	If on check one of the following below	
25	**Fire Dept LED** Normally **OFF**	If on check any Fire Access equipment	No command or activation
26	**Strike Open LED** Normally **OFF**	If on check any Access equipment	No command or activation
27	**Safety Loop LED** Normally **OFF**	If on check any Safety Devises	No command or activation
28	**Exit Loop LED** Normally **OFF**	If on check any Exit Devices	No command or activation
29	**Radio Rec LED** Normally **OFF**	If on check any Radio equipment	No command or activation

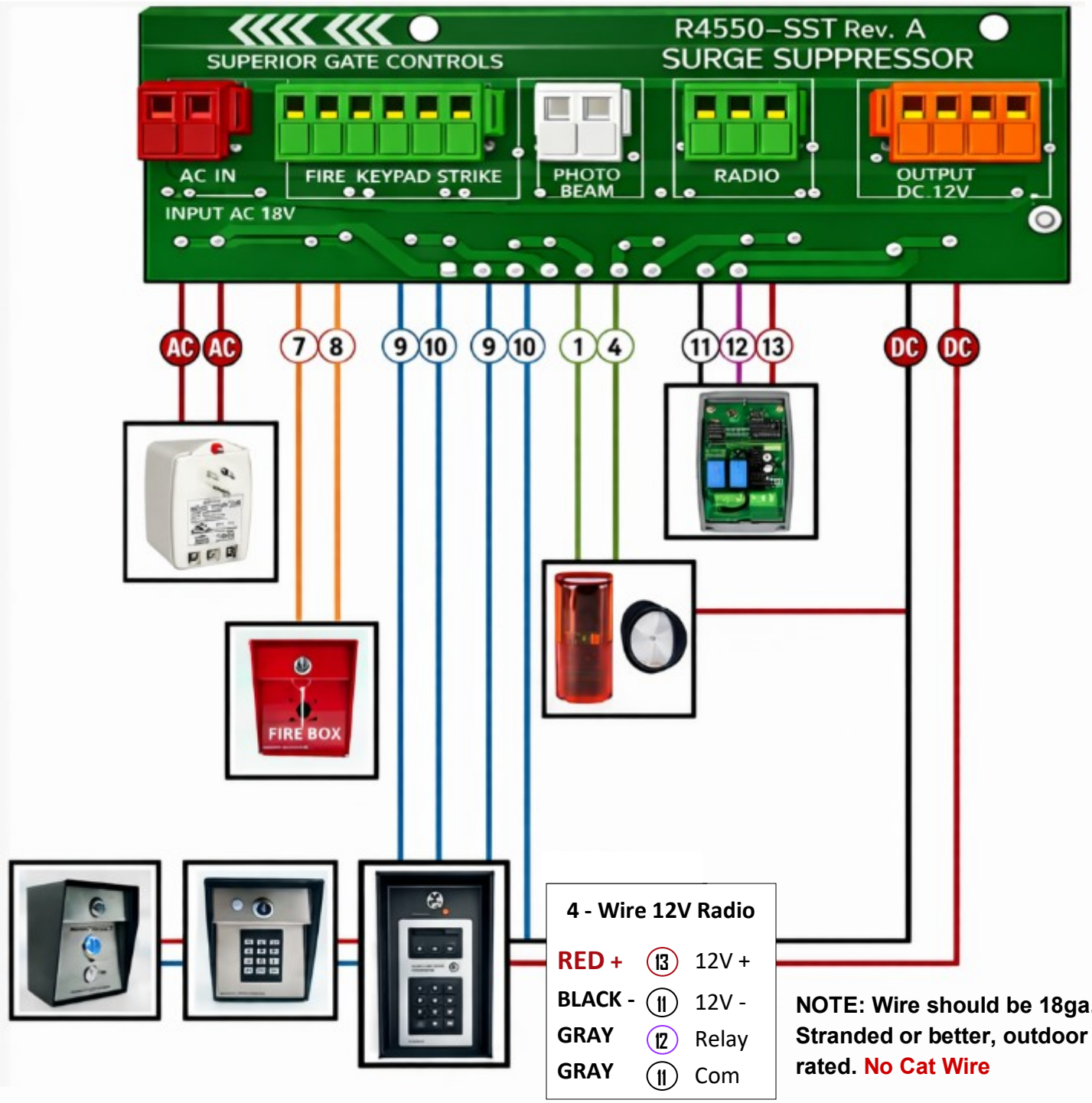
TIMER LED flashing check imputes commands above

31	Timer LEDs PW Normally **OFF**	When Timer is Set to **On** Position	When Timer is Set to **Off** Position
31	Timer LEDs ON Normally **OFF**	Energizes for time set period	When Timer is Set to **Off** Position

SURGE BOARD CONECTIONS

Why A Surge Board? A surge board (or surge protector) is designed to protect sensitive electronic equipment from sudden, temporary spikes in electrical voltage. It acts as a safety barrier, limiting the voltage supplied to devices by blocking or grounding excess electricity to prevent damage from lightning.

All controls must be **12VDC only.** **Use only 12VDC or will cause damage to Control Board**
For Radio Receiver use SGC Part # R-350 Keypads use SGC Part # KP-900 & KP-950
For Loop Detector use SGC Part # MiniLoop detectors Photo Eye use SGC Part # S-350



NOTE: Wire should be 18ga. Stranded or better, outdoor rated. No Cat Wire

Loop & Safety Connections

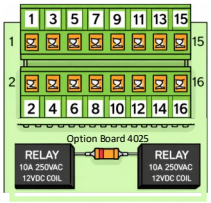
- A Relay from Detector to Safety on Board
- B Relay from Detector to Safety on Board
- C Relay from Detector to Exit on Board
- D Relay from Detector to Negative on Board
- E Detector Positive 12v to + on Board
- F Photo Relay to Stop on Board
- G Photo Relay to Stop on Board

Option Board 4025

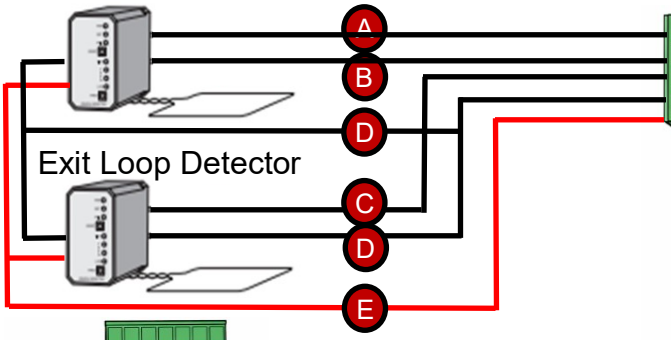
Below is the function list for each connection.

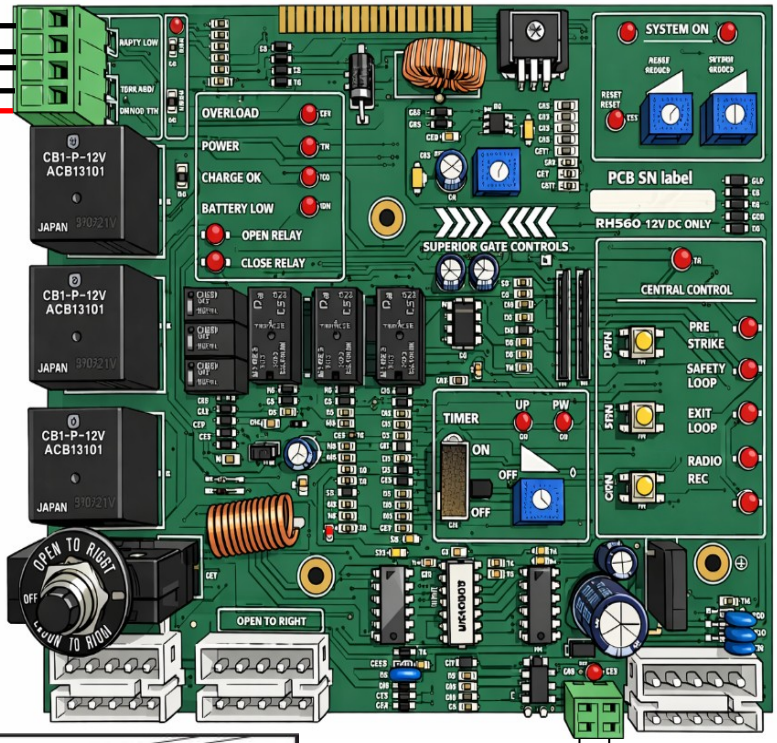
1 & 2 Open Switch (N.O.)
3 & 4 Stop Switch (N.C.) Switch Jumper W1 bottom of board
5 & 6 Timer Close Output to Slave
7 & 8 Timer Input from Master (close switch) N.O.
9 & 10 Alarm Output
11 & 4 Emergency Open Switch (bypasses control board)
12 & 7 Emergency Close Switch (bypasses control board)
13 & 14 Magnetic Lock Dry Contact Relay 13 Com 14 N.C.
15 & 16 Center Loop Option

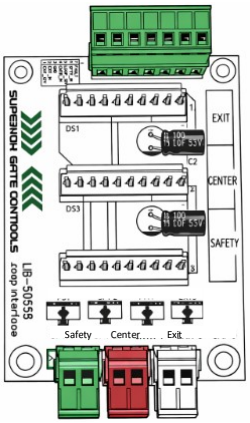
Safety Devices: These are crucial for preventing accidents and property damage. Common safety components include **photo eyes** (which use an invisible beam to detect obstructions) and **inductive safety loops** (embedded in the driveway to detect vehicles) and safety edges.



NOTE: Wire should be 18ga. Stranded or better, outdoor rated.
No Cat Wire

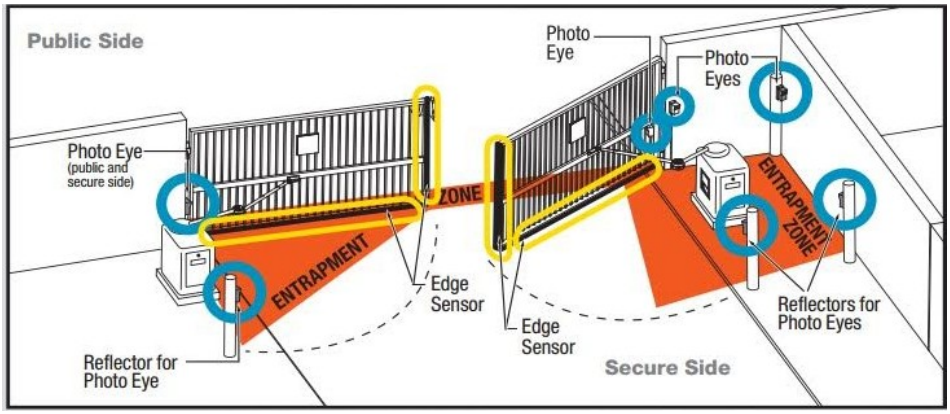






Loop Board 4025
Comes Pre-wired with Detectors
Loop Wire Connect as follows,

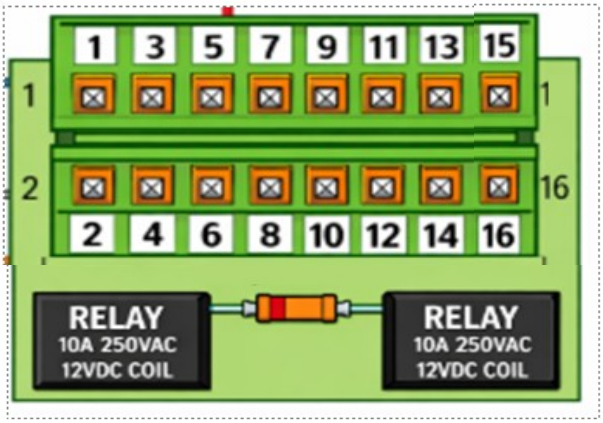
GREEN Plug Safety
RED Plug Center
WHITE Plug Exit



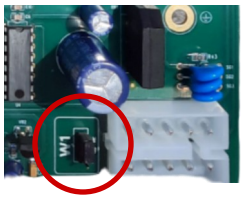
F G

Photo Eyes These are non-contact sensors that project an invisible infrared beam across the gate's path. If the beam is broken by a person, pet, or vehicle, the sensor immediately signals the gate to stop. Multiple sets installed at different locations provide comprehensive coverage.

Option Board Center Loop



The Optional Board allows extra controls of your gate system, it is only available from SGC Access Controls. Installation is very simply, just slip the option board onto the J2 slot at the top of the control board.
Here is a list of each set of pins.



JUMPER
You must move the W1 Jumper for these options to work. Location is at the right bottom of control board.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 & 2 **Open Switch** (NO)

KEYSWITCH

3 & 4 **Stop Switch** (N.C.)
Switch Jumper W1
bottom of board

Page 21

5 & 6 **Timer Close**
Output to Slave

7 & 8 **Timer Input** from
Master (close switch) N.O.

9 & 10 **Alarm Output**

11 & 4 **Emergency Open** Switch
12 & 7 **Emergency Close** Switch
(bypasses control board)

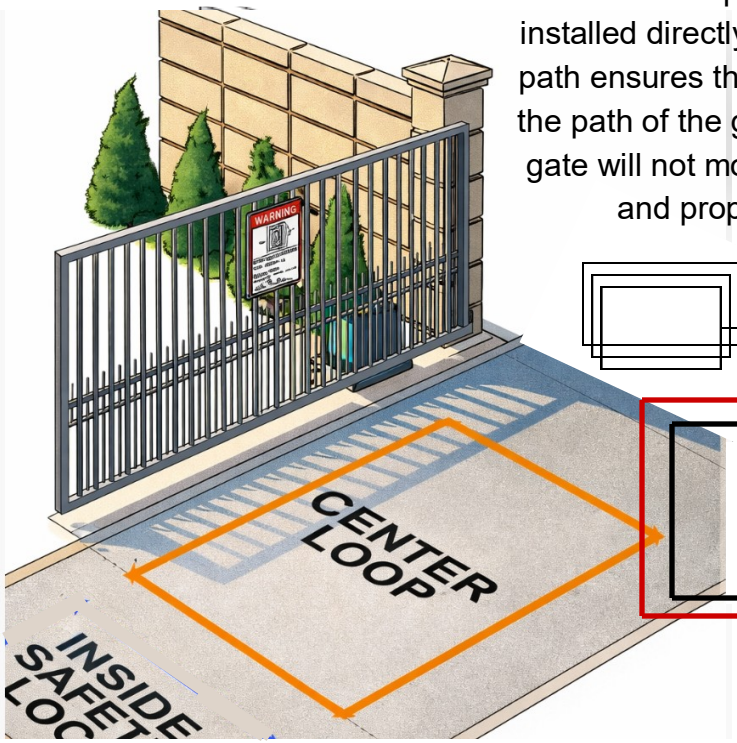
13 & 14 **Magnetic Lock**
Dry Contact Relay
13 Com 14 NC

Page 22

Center Loop Detector

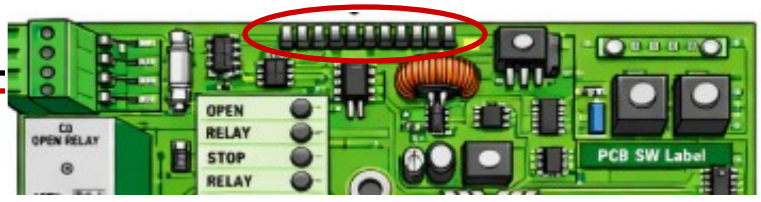
A center loop is a safety device installed directly under a swing gate path ensures that if a car is sitting in the path of the gates movement, the gate will not move, preventing gate and property damage.

15 & 16 Center Loop
Option



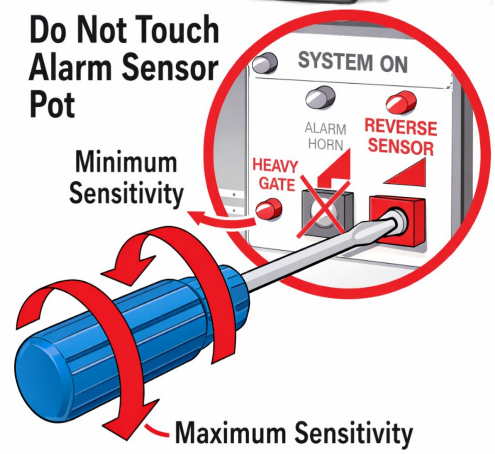
Twisted Wire

J2 Slot



ADJUTABLE REVERSE SENSOR

Adjust the " Reverse Sensor" or ERD pot on the upper portion of the control board.



The level or Reverse sensitivity depends on the weight of the gate and the condition of installation
Too Sensitive = the gate stops or reverses on it own.
Not sensitive enough = if the gate comes in contact with an object it will not Stop the gate, read below

Primary Physical Dangers

Entrapment and Crushing: Gates can trap individuals against stationary objects like posts or walls. Because the motor is designed to complete its cycle regardless of resistance, this often leads to **crush injuries, broken bones, or internal damage**.

Severe Bodily Injury: Incidents have resulted in **amputations, hematomas, and permanent brain injuries**.

Fatalities: Since 1985, the CPSC has recorded dozens of deaths related to automatic gates, with **children being the most vulnerable** due to their size and unpredictable behavior near gate openings.

Property Damage: A gate that does not reverse will continue to push against a vehicle, leading to extensive damage to both the car and the gate system itself.

Do a Safety Check Monthly

Place an object in path of the gate, such as a rubber trash receptacle. Gate should STOP, and Reverse. IF not, do not continue to operate gate. Shut it down and call for repair.

"SHUT IT DOWN"

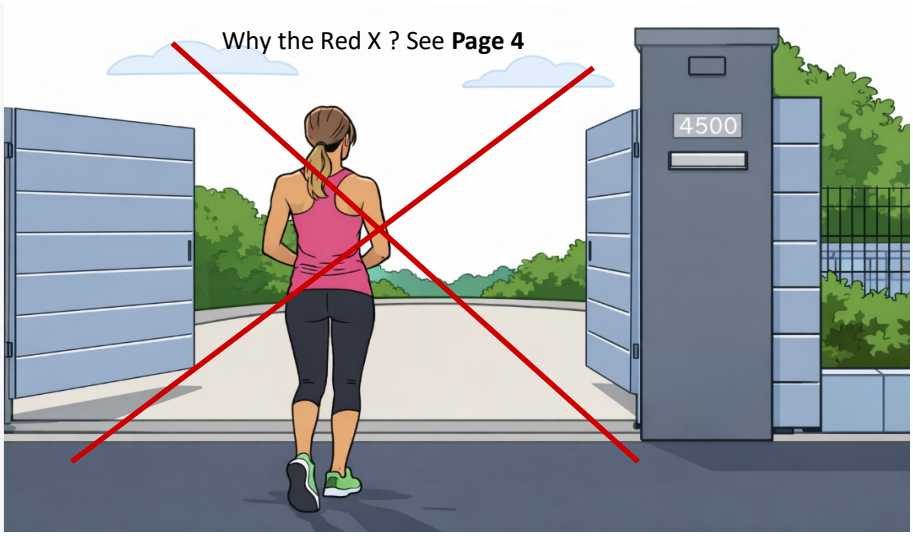
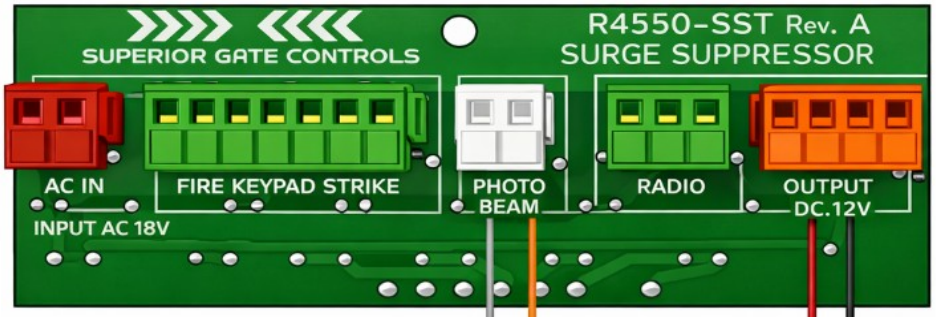


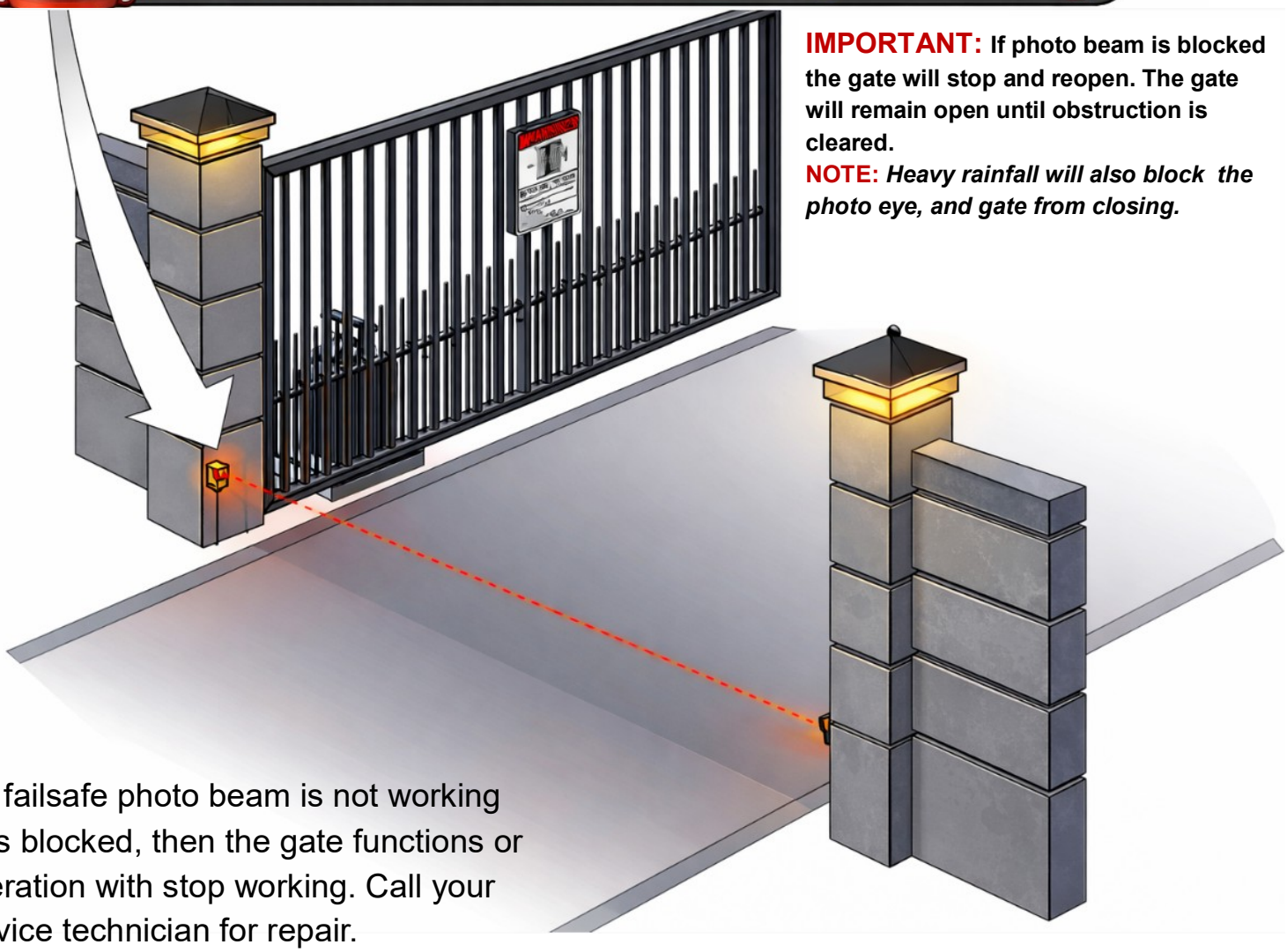
PHOTO BEAM SAFETY

Also available,
Battery Powered
Through Beam
Part # S-360



Only use a 12VDC Failsafe
Photo Beam.

SGC Access Controls Part # S-350



IMPORTANT: **If photo beam is blocked the gate will stop and reopen. The gate will remain open until obstruction is cleared.**

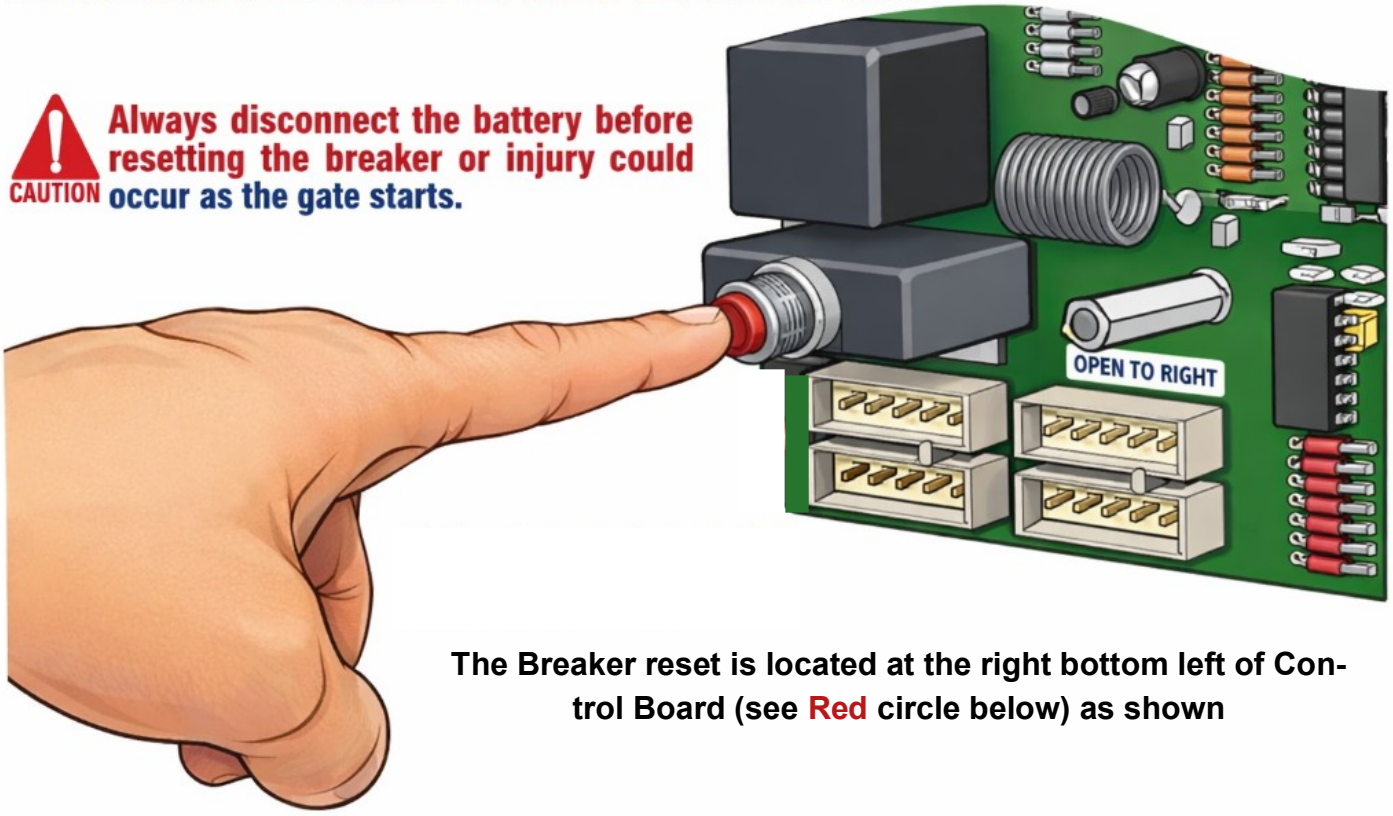
NOTE: ***Heavy rainfall will also block the photo eye, and gate from closing.***

If a failsafe photo beam is not working or is blocked, then the gate functions or operation with stop working. Call your service technician for repair.

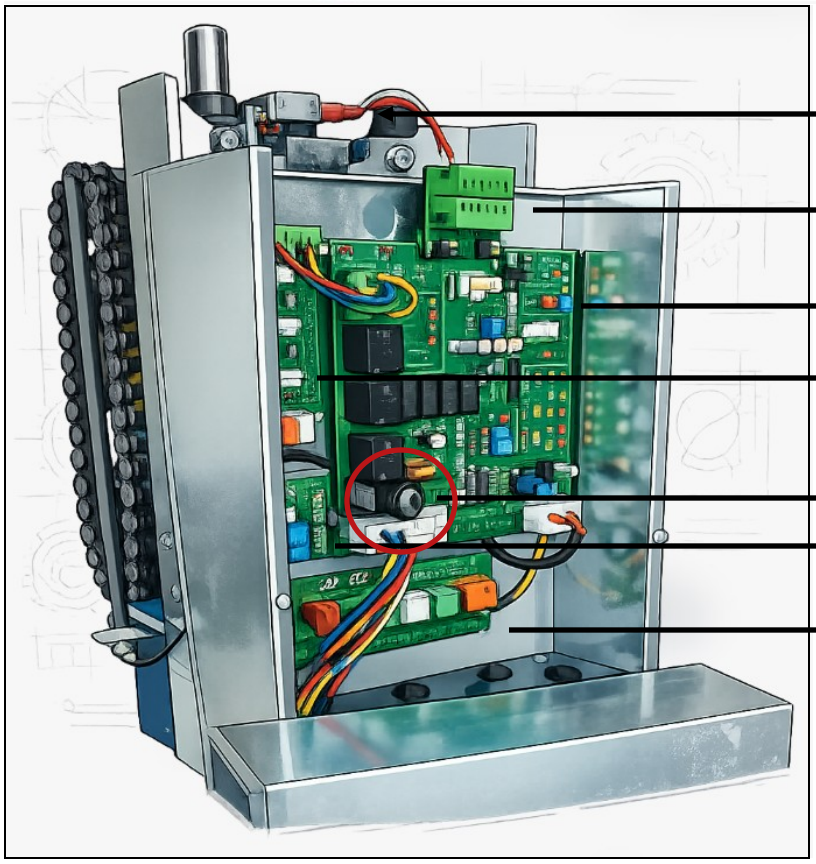
RESETTING BREAKER

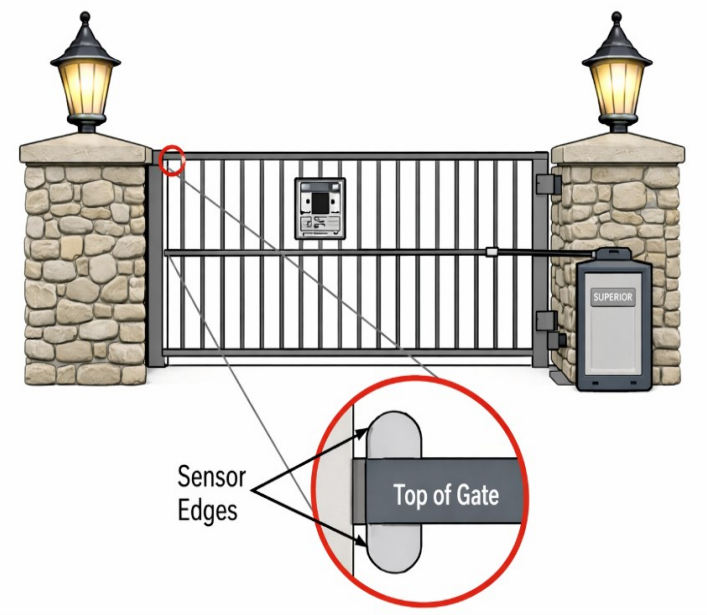
If all electronic sensors fail or are not adjusted properly due to heavy gates, off-track gate, or obstructed gate path, the breaker will kick-out. Reset the breaker by pressing the reset button located on the bottom left corner of the control board.

CAUTION **Always disconnect the battery before resetting the breaker or injury could occur as the gate starts.**



The Breaker reset is located at the right bottom left of Control Board (see Red circle below) as shown





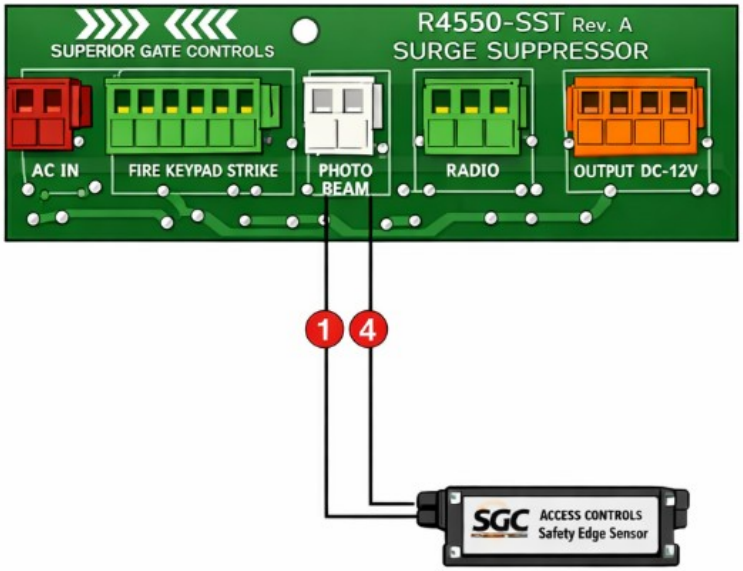
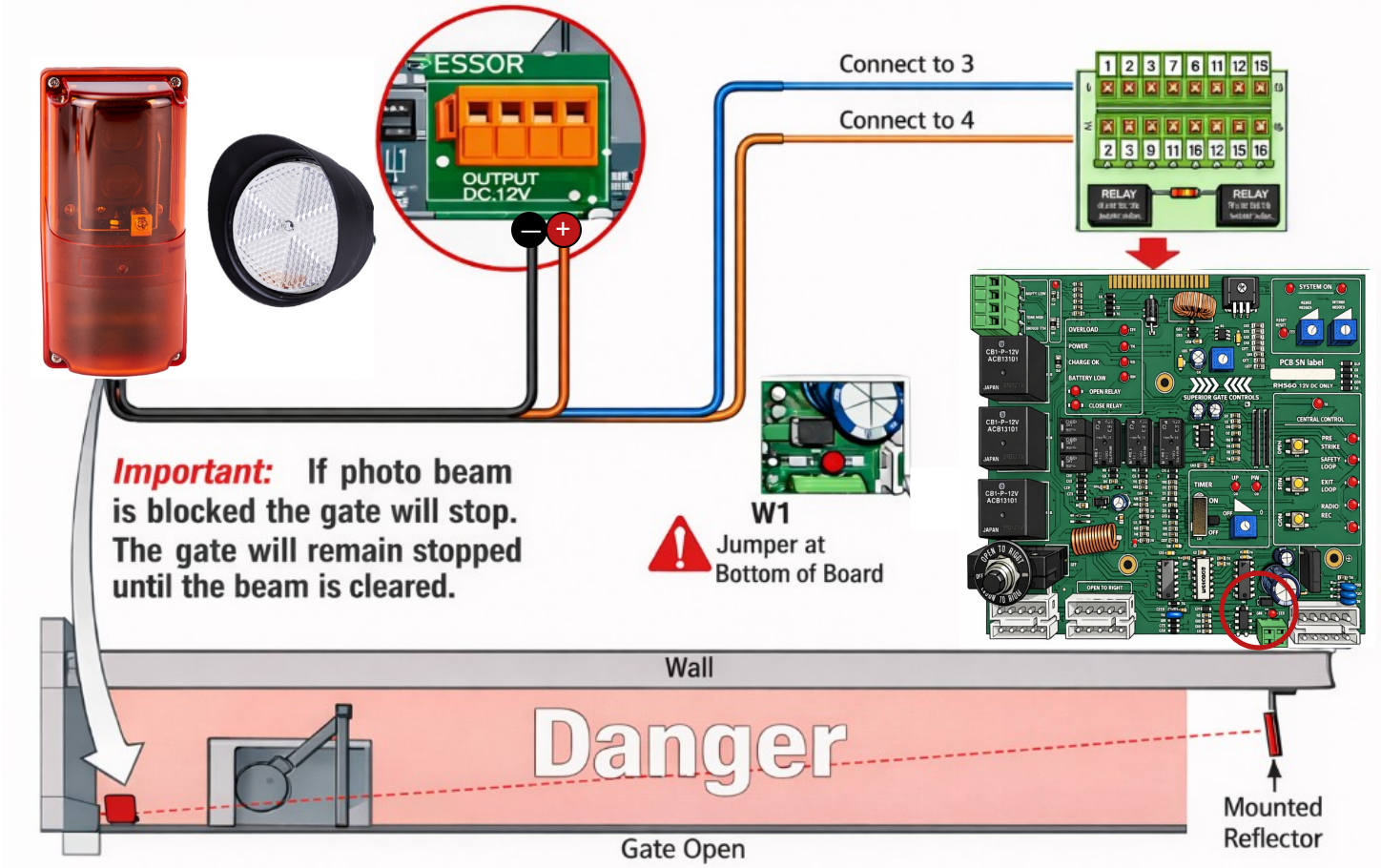
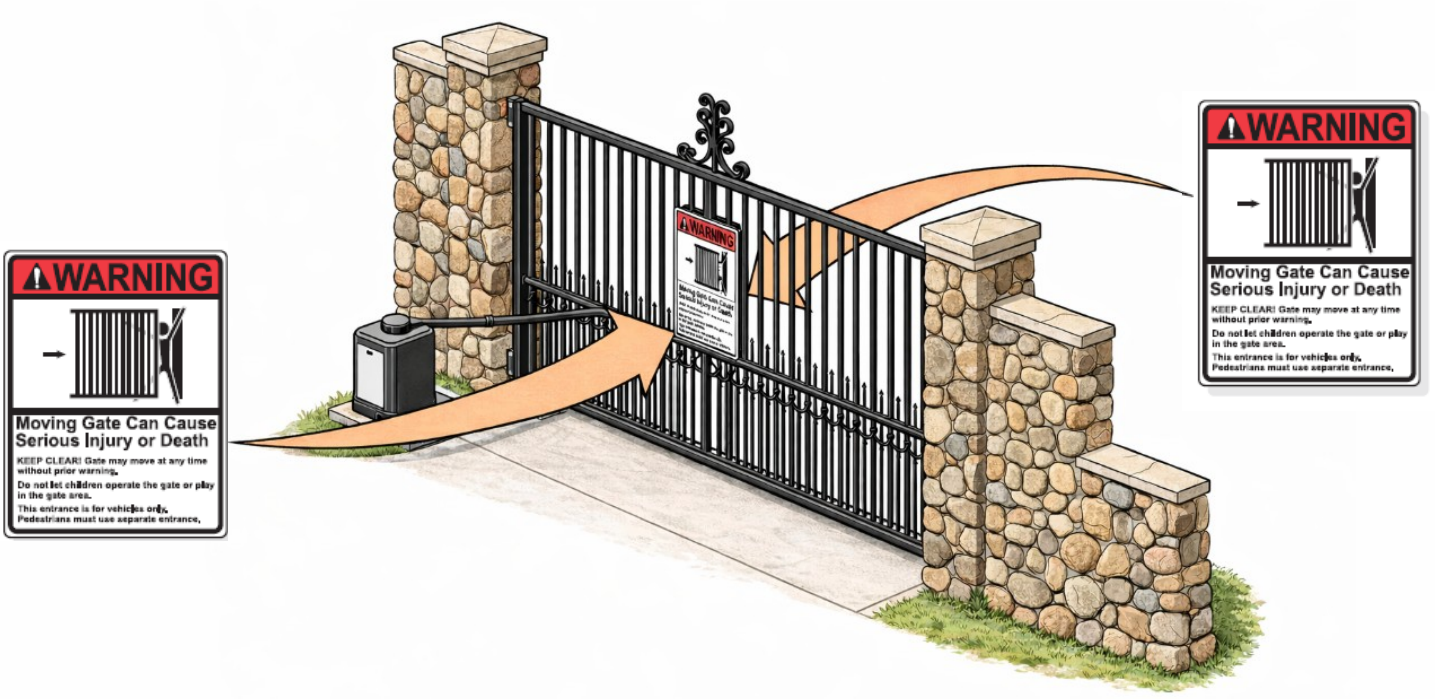


Photo Beam Entrapment Protection



Don’t Forget to Add Warning Signs to BOTH sides of Gate

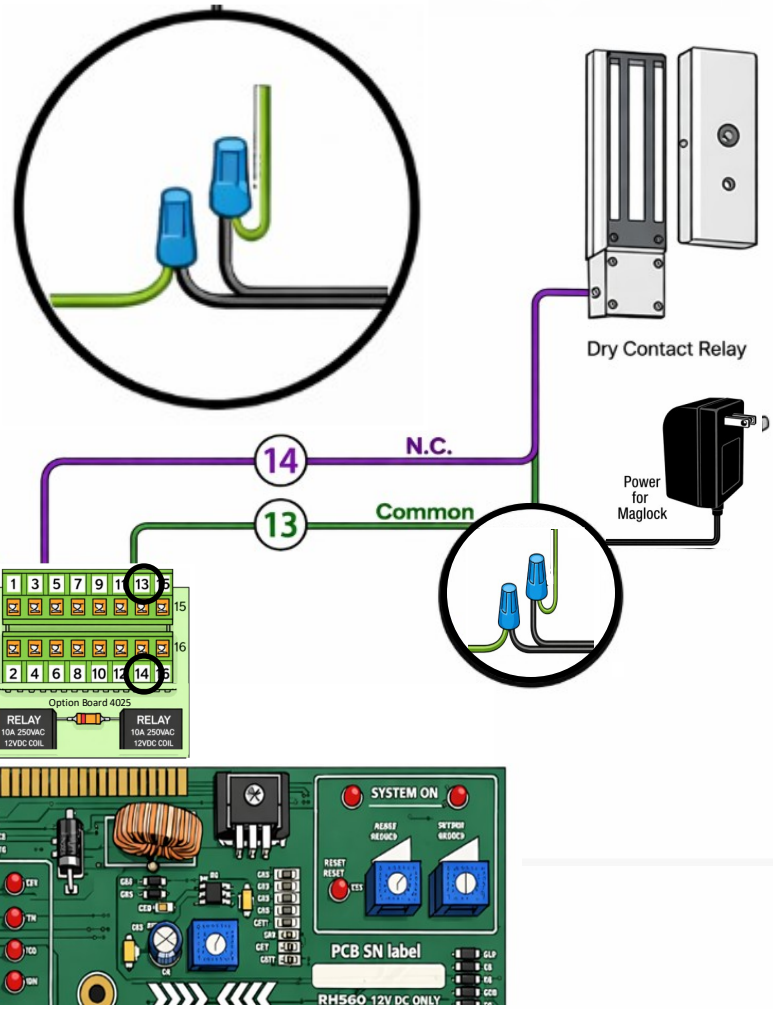


Wiring Connections

Magnetic Lock to Option Board:
Connect one wire (Purple) from the magnetic lock directly to the **N.C. (Normally Closed)** terminal (labeled **14** in the diagram) on the option board.

Connection:
Connect the **Common** terminal (labeled **13** in the diagram) from the option board to one of the output wires from the **Power for Maglock** transformer.

Transformer to Maglock: Connect the remaining wire from the **Power for Maglock** transformer to the second wire on the **Magnetic Lock**

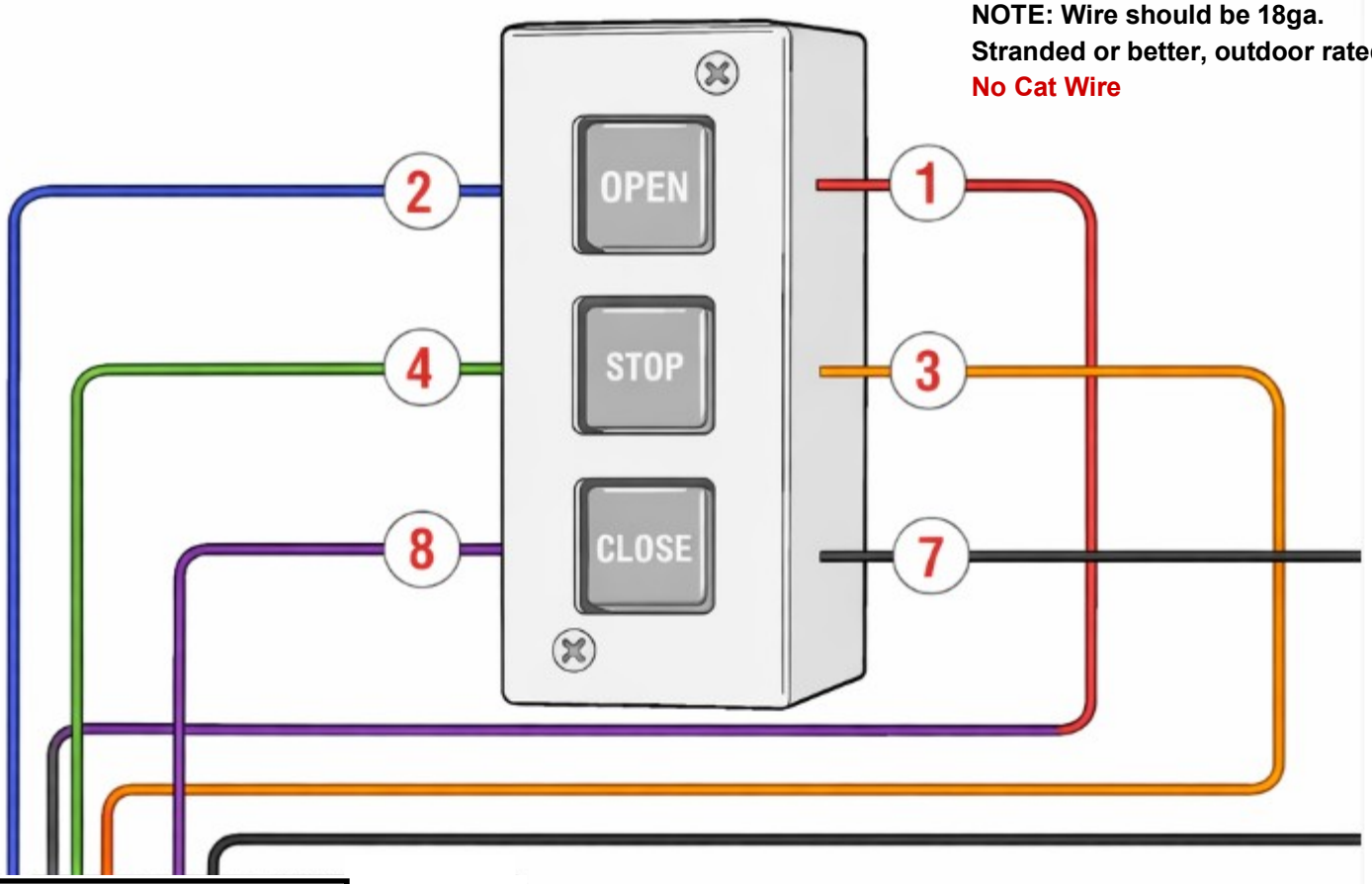


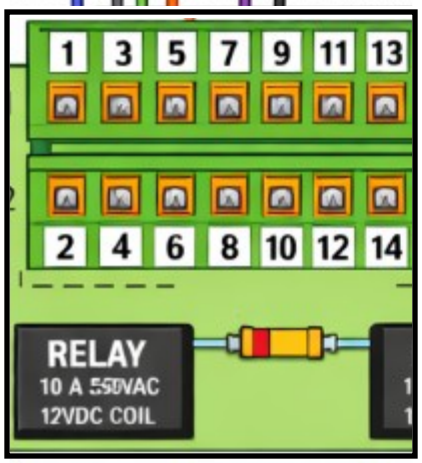
THREE BUTTON STATION

To set up a Master/Slave option with the PRO4500 operator, you must purchase the additional Option Board **(Part #4025)** and connect the operators shown below.

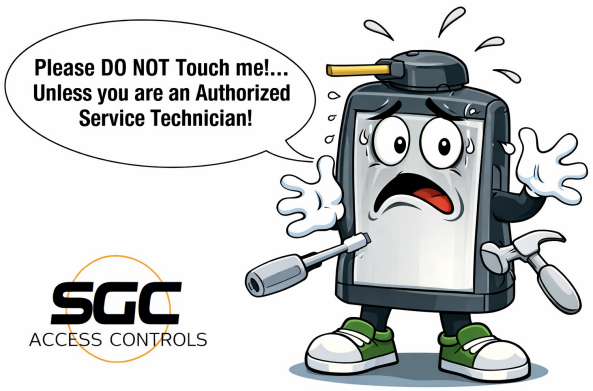
Note: Each operator must have its own power supply, 18VAC Transformer.

NOTE: Wire should be 18ga. Stranded or better, outdoor rated.
No Cat Wire





1 & 2 Open Switch (N.O.)
3 & 4 Stop Switch (N.C.) Switch Jumper W1 bottom of board
5 & 6 Timer Close Output to Slave
7 & 8 Timer Input from Master (close switch) N.O.
9 & 10 Alarm Output
11 & 4 Emergency Open Switch (bypasses control board)
12 & 7 Emergency Close Switch (bypasses control board)
13 & 14 Magnetic Lock Dry Contact Relay 13 Com 14 N.C.



⚠ **IMPORTANT—OPTION BOARD CONFIGURATION**

When using the Option Board the W1 jumper must be moved from NO (Normally Open) to NC (Normally Closed) for proper operation.

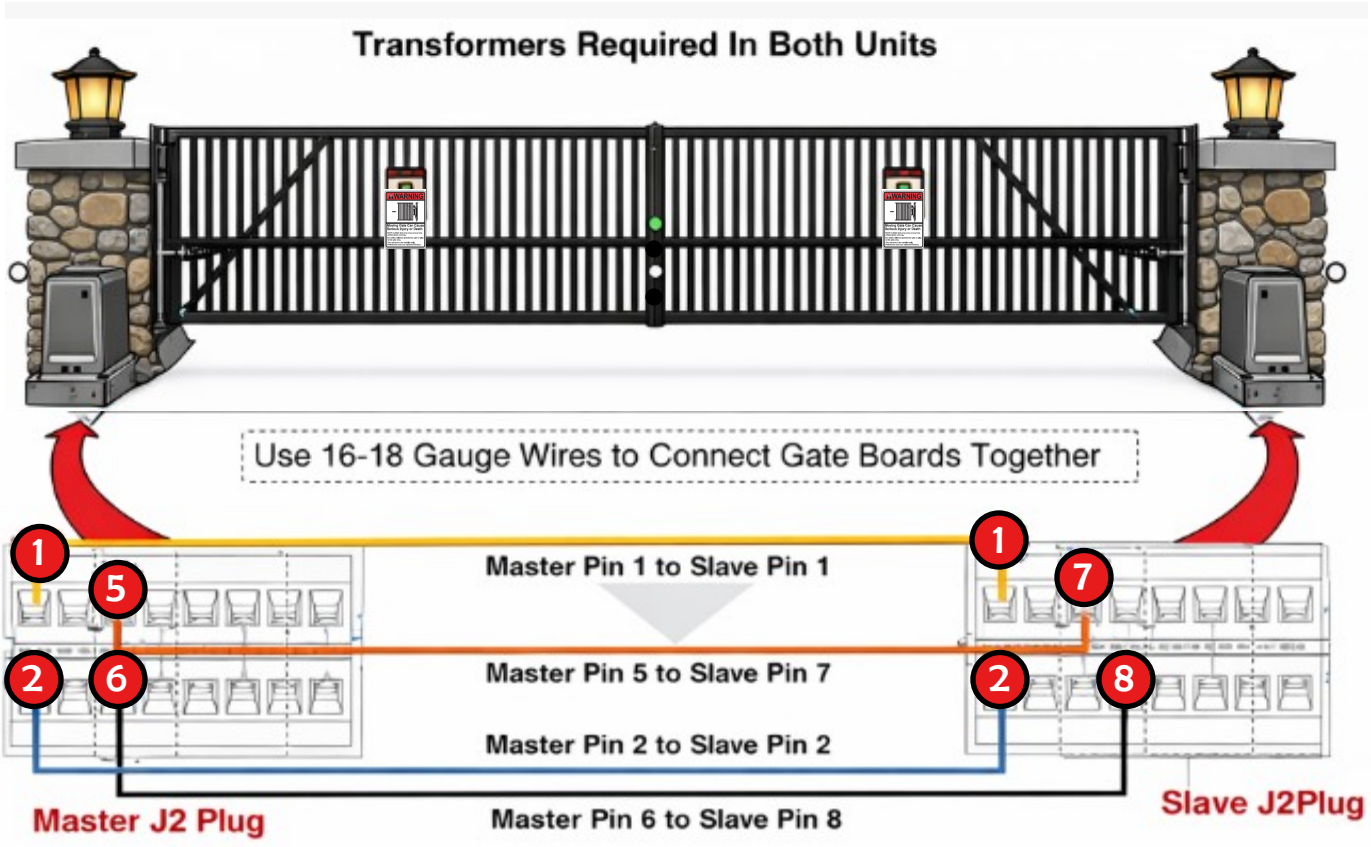
Failure to set the jumper correctly may result in improper system function.

Refer to Page 14 for jumper location and configuration details.

SGC ACCESS CONTROLS

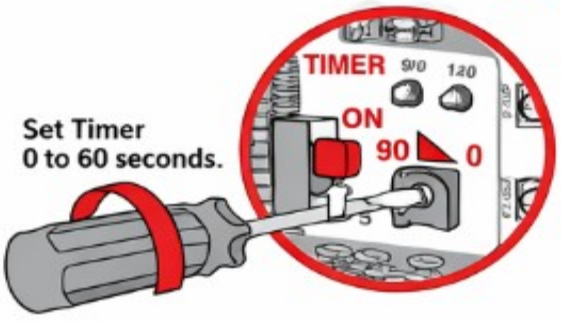
MASTER / SLAVE CONNECTION

To use the Master/Slave option with the PRO4500, you must purchase the Option Input Board (Part #4025) and connect it to J2 slot at top of each board.



1. Make master/second J2 plug connections as shown above
2. Turn timers on **BOTH** control boards to the "**ON**" position
3. Use **MASTER** timer **ONLY** for the auto close time adjustment (0 to 60 sec)
4. Turn the **SECOND** timer adjustment all the way Counterclockwise

Master Timer "ON"



Second Timer "ON"

Maximum Counterclockwisise

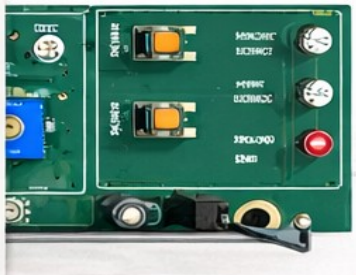
To set up a Master/Slave option with the PRO4500 operator, you must purchase the additional
Option Board **(Part #4025)** and connect the operators shown above

NOTE: Wire should be 18ga. Stranded or better, outdoor rated. No Cat Wire

Gate Will Not Close

Check all the connecting devices and the LED's such as Loop Detectors, Keypads with hold open codes, Photo eyes and the most common problem Radio Controls. Remove the connector for the device and try

Example: The radio receiver LED on the board remains "ON" when even when not using a receiver.



Solution: Remove the radio receiver connector on the board, LED goes off. First check to see if a remote is stuck in the on position, if not the radio receiver has malfunctioned and needs to be replaced.

Gate Will Not OPEN

Symptom: The radio LED on the control board remains "OFF" when using the remote control.

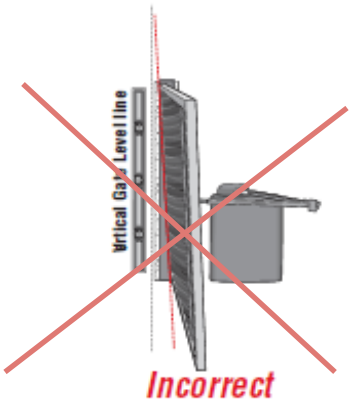
Possible Solutions: Dead battery in the remote control, or the radio receiver has malfunctioned in the off position.

For more information, contact your local Dealer.

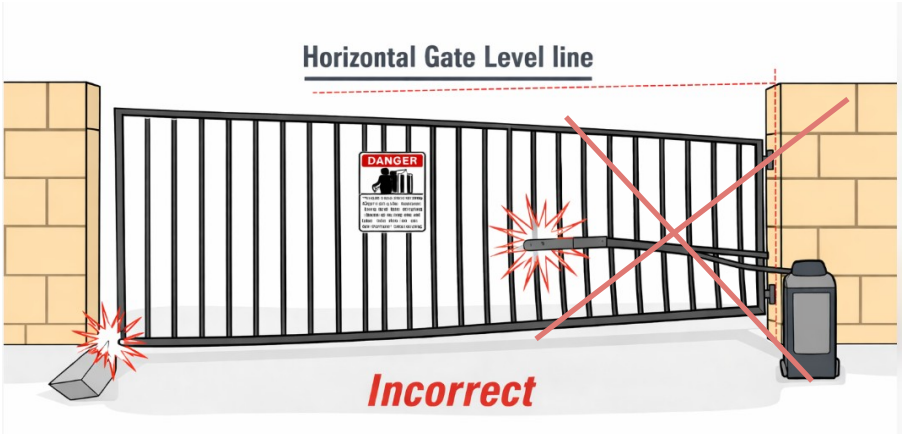
ALARM LED

IF you hear a alarm BEEP sound and the ALARM SENOR LED is on a number of conditions can cause this issue.

1. The gate is TOO heavy.
2. The operator Arm was improperly installed. See page 10
3. Gate was hung wrong or gate now drags the driveway.
4. A foreign object is or has been on the gate frame while gate was moving.
5. Car pushes or hits the gate while its moving.
6. Gate hinges need grease, to tight or broken.
7. The gate hits the post, column, curb or gets stuck when trying to operate.

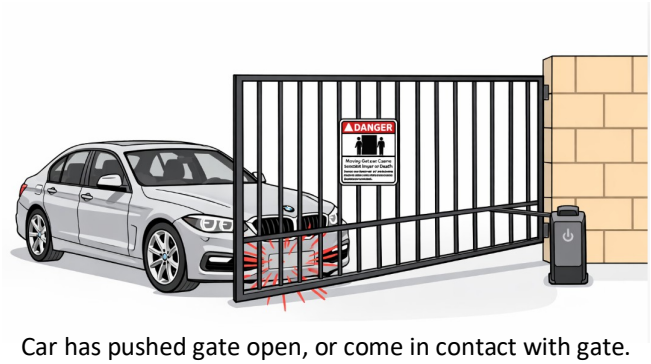


Gate was hung wrong or gate now drags the driveway.



The operator **Arm** was improperly installed. See Page 10

No **protection** to stop children from riding the gate.

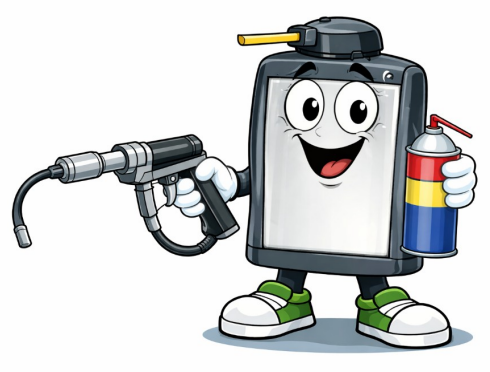


Car has pushed gate open, or come in contact with gate.

Gate hinges need grease, to tight or broken

The gate hits the post, column, curb or gets stuck when trying to operate. Swing gate operator arm binding against stop.

Basic Tips For Maintaining Your Gate Operator



1. **Lubricate All Hinges and Moving Parts**
   Anything mechanical and reducing the friction of the hinges and other moving parts will make your operator last a long time. It is recommended to use a silicone based lubricant since it doesn't attract as much dirt and dust compared to oil based lubricants.

2. **Clean the Operator Cover and Around the Operator.**
   This goes without saying to much, that everything needs to be cleaned if you want it to last. Use a soft brush or cloth to remove loose debris on the operator cover. You may need to use a mild detergent to clean it. Do not use a pressure washer to clean the operator cover, you don't want water to make its way into the components.

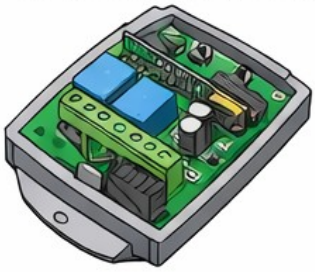
3. **Check The Hardware**
   Bolts and nuts can loosen over time, so its crucial for the safety and integrity of the gate operator to regularly check and tighten any loose hardware Inspect for worn parts, ***call Service tech to replace any parts that are worn out.***

4. **Test Safety Features**
   This is the most important item on this list.
   1. **Check all Photo Safety Eyes**, the should either stop the gate or reverse the gate when in motion.
   2. **Check to ERD** (Electronic Reversing Device) or Reversing Sensor. Put an object in front of gate, if it doesn't stop and reverse. DO NOT USE UNTIL REPAIRED.
   3. **Check Safety Loops,** upon entering your property stop on the safety loop, but not in path of gate. If working property it should reverse or stop the gate from closing till vehicle is moved.

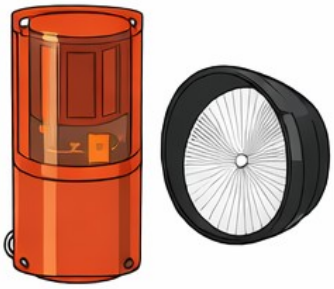
Safety Device Tested	Date	Fail/ Pass	Tested By	Note
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		
		Fail/ Pass		

Accessories For PRO4500

12 VDC Radio Receiver

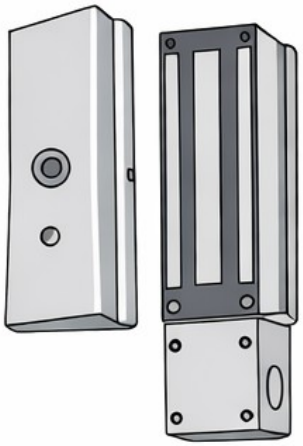


12 VDC
Photo Beam



18 VAC Plug-in
Transformer

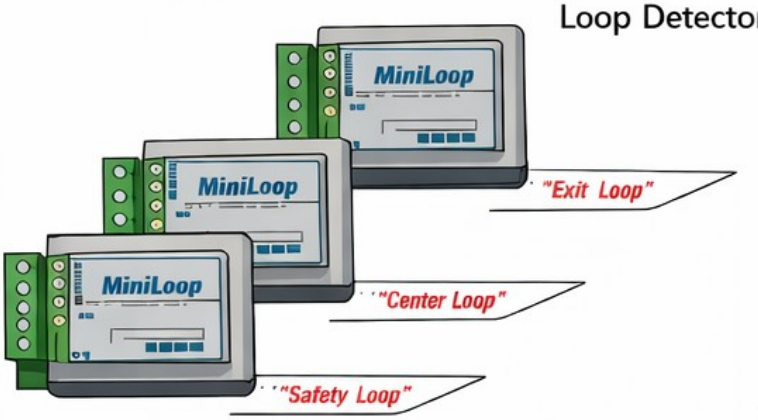
Magnetic Locks
(Outdoor)



Gooseneck

Keypads &
Exit Controls

12 VDC External
Loop Detectors



12 VDC 30 AHR Battery

Loop Board

IMPORTANT SAFETY FORM

Must be singed by homeowner and Returned to Superior Gate Controls

Owners Name _____ Installers Name _____

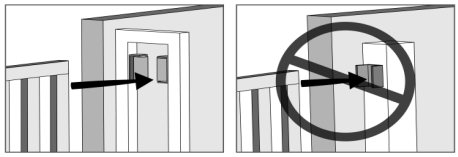
Address _____ City_____ SGC Dealer Number _____

State _____ Phone _____ Company # _____

- **Keep Children AWAY from the GATE** as a gate system is a dangerous mechanism. Teach children about the dangers of gates and the importance of staying away from them when they are in motion.
- **Secure Gate Controls** to prevent children from operating or playing with gate controls by keeping remote transmitters and keypad codes out of their reach or operation.
- **Maintenance of Gate Operator System** and its components is a must, not a suggestion. Please talk to your installer about a maintenance program for your gate. With the service the service tech will test the safety obstruction devices and non contact sensors. This should be done monthly and failure to adjust or check these devices properly can increase the risk of injury or death.
- **Power Disconnect And Manual Opening** is important to understand how to turn off the gate breaker. Disconnect the gate operator release only when gate power has been shout off.
- **Recognize Potential Risks in your Automated Gate System** is of the up-most importance. *So make sure you ask your installer any questions you might have and make sure everyone who is using or will be around the gate operator and gate are aware of the dangers of an automatic gate system.* If you need a replacement manual you can contact us at info@sgcaccess.com with your email information, pdf copy free of charge.
- **Safety Edges, ERD, Photo Eyes and Loops** if not installed, Do Not Sign this form and review the safety device page. We will not warranty any gate system that do not have safety devises as described in the previous pages.

Mounted on Gate

Check For Potential Hazards



The installer has explained and **I understand the safety** and the importance of such items as noted below,

- ❑ Keeping children away from gate. **Page 6**
- ❑ Safety Photo Eyes. **Pages 4, 18, 20**
- ❑ Safety Edges. **Page 20**
- ❑ **Reversing Device** (ERD) **Page 18**
- ❑ Safety Loops. **Page 4**

Need Help ? info@sgcaccess.com

Date _____

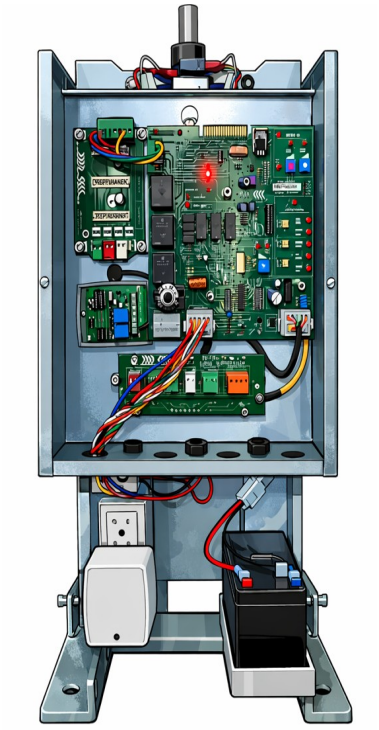
Signature _____

Please Sign Release Of Liability (see below)

By signing a **release of liability** (also known as a liability waiver), you are entering a legal contract where you agree **not to hold Superior Gate Controls Inc. responsible** for injuries, damages, or losses that may occur during a specific activity or transaction. This essentially functions as a "promise not to sue"

Don’t Love the "School of Hard Knocks" avoiding the bruises and going straight to the pros is definitely the smarter move! For those looking to dive into those training videos, you can find them on the official SGC Access Controls YouTube channel.

COMING SOON Spring of 2026



Overview of the PRO-4500 Swing Gate Operator

How to Measure for the Arm Length

Programming the KP-900 and KP-950

Wiring and Settings for the MiniLoop Detector

Option Board wiring options

Gate Safety Edge Kit

PRO-4500-S Solar Option Kit

Got something you would like to see, let us know.
info@sgcaccess.com