



ROBO SWING R900

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

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ROLE OF SPECIFIERS AND DESIGNERS

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

- Utilize an operator suited for gate system type, size, frequency of use, location and user population.
- 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.
- Be consistent with DASMA's Automatic Gate Opener System Safety Guide.

ROLE OF DEALERS, INSTALLERS AND TRAINED GATE SYSTEM TECHNICIANS

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.
- 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.
- 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

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 overtighten the operator clutch of load sensing device to compensate for a damaged or stiff operating 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.
- Always be certain that the gate area is clear of pedestrians before operating the gate.

SWING GATE SYSTEMS

- 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** The opening mechanism may have arms that can overlap with a scissoring effect, which can result in serious injury. Pedestrians must stay clear of the opening mechanism at all times, particularly when gate is opening.

WARNINGS AND PRECAUTIONS



Instructions regarding **Robo Swing** Installation.

- A) Install the gate operator only when all exposed pinch points are eliminated or guarded.
- 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.
- 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.

WARNINGS AND PRECAUTIONS

- **F)** 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.
- **G)** For a gate operator utilizing a contact sensor such as an edge sensor:
 - 1) 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.
 - 2) 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.
 - 3) One or more contact sensors shall be located on the inside and outside leading edge of a swing gate. Additionally, if the bottom edge of a swing gate is greater than 6 inches (152 mm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.

WARNINGS AND PRECAUTIONS

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.
- **4.** Use the emergency release only when the gate is not moving. Make sure the power for the gate operator is **off**.
- KEEP GATES PROPERLY MAINTAINED. Read the manual. Have a qualified service person make repairs to the gate or gate hardware.
- 6. The entrance is for vehicles only. Pedestrians must use separate entrance.
- 7. SAVE THESE INSTRUCTIONS.

SAFELY OPERATING GATE



The Robo Swing is for Single Home Applications

DO NOT Use for Apartment or Condominium Applications.



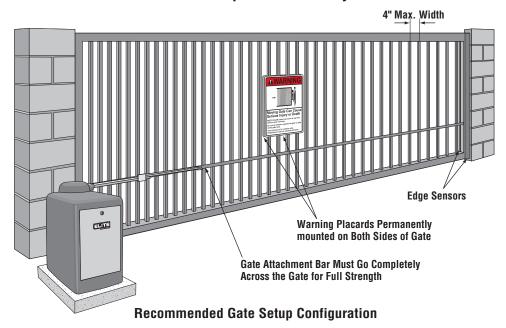
A Property owners must never let pedestrians cross the path of a moving gate!





A Property owners must never let anyone hang or ride on the gate!

All "Pinch Points" MUST have protective safety devices.



Robo Swing Specifications:

Gate Speed - 15 - 17 seconds per 90 cycle

Maximum Gate Length - 16 feet

Maximum Gate Weight – 400 pounds

Maximum Cycles – 250 cycles per day with Elite's Plug-In Transformer. (Gate size 16 ft x 6 ft)

- Solar power cycles per day varies, Contact Chamberlain Elite for more Information
- Battery back-up cycles (50 cycles total)

AC Power Supply - 25 Vdc 1.6 Amp Plug-In Transformer (Part # A POW-1)

AC Power Supply Wire – 14 gauge or greater landscape lighting cable rated for direct burial and 300 watts at maximum length of 1000 ft

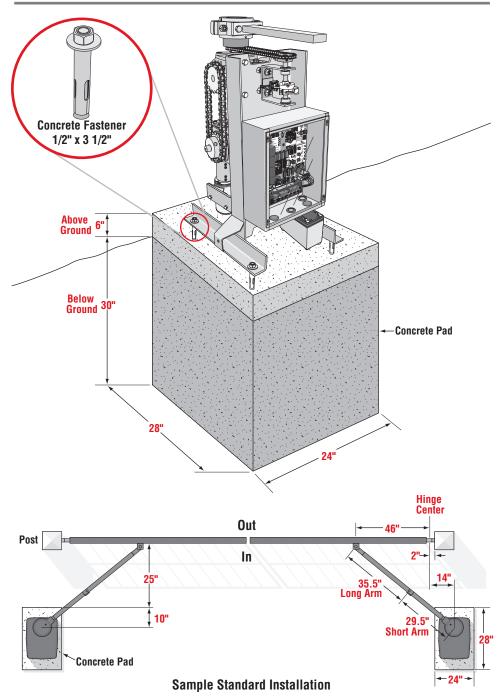
DC Power Supply – Built-in, back-up for AC or Solar power failure only

Solar Power - Optional (Part # SOLAR 3)



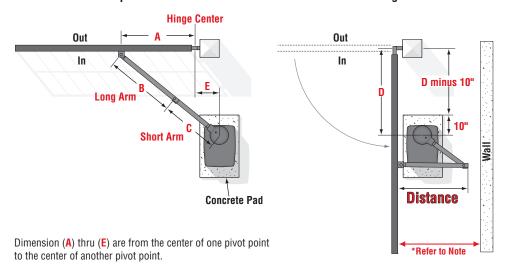
Be sure to read and follow all Chamberlain Elite's instructions before installing and operating any Chamberlain Elite product. Always disconnect the gate operator's power source before repairs are attempted. Chamberlain Elite Access Systems, Inc. is not responsible for improper installation or failure to comply with local building codes.

CONCRETE PAD AND GATE ATTACHMENT



STANDARD INSTALLATION

Sample Standard Installation is Shown on Previous Page.



Caution: If the gate is longer than 18 feet, follow Chart A: A-2.

Suggestion: The dimension between the gate and the concrete pad is always 10 inches less than the dimension D. Example: D = 42", if the dimension between the gate and the concrete pad is 32".

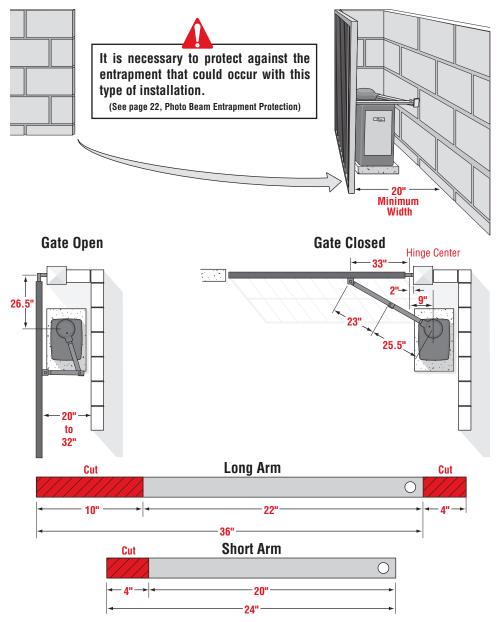
	A	B	Cha C	rt A	E	Distance		A	В	Cha C	rt B	E	Distance
1	46"	35.5"	29.5"	35"	11"	45"	1	34.5"	34.75"		35"	14"	43"
2	46.75"	35.5"	33.5"	42"	11"	37"	2	44"	36.5"	32.5"	42"	14"	32"
3	46.75"	37"	31.5"	40"	11"	41"	3	44"	37"	30.5"	40"	14"	40"
4	47.25"	37.25"	30"	37"	11"	45"	4	45"	37"	30.5"	37"	14"	43"
5	47"	35"	29.5"	32"	11"	45"	5	44.75"	35.75"	29.5"	32"	14"	44"
6	42.5"	33"	26.5"	28.5"	11"	41"	6	41"	39"	27.5"	28.5"	14"	41"

^{*}Note - If this dimension is between 20 and 32 inches, compact installation is necessary. (Refer to Page 11)

COMPACT INSTALLATION

Compact Installation Only!

DO NOT Use These Measurements for a Standard Installation.



Follow the exact measurements, then cut the standard arm to meet the shorter measurements.

GATE ARM INSTALLATION Incorrect Installation **Correct** Installation Once the gate arm measurements are calculated: weld the bracket on the gate.

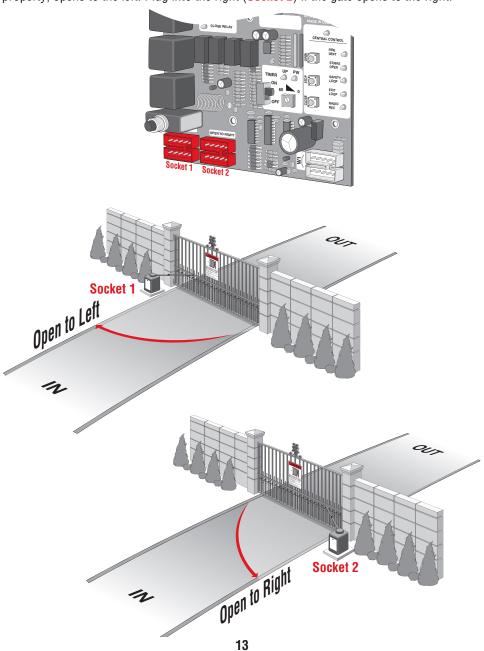
Weld Completely Around the Rectangular Tubes

Weld the longer arm.....

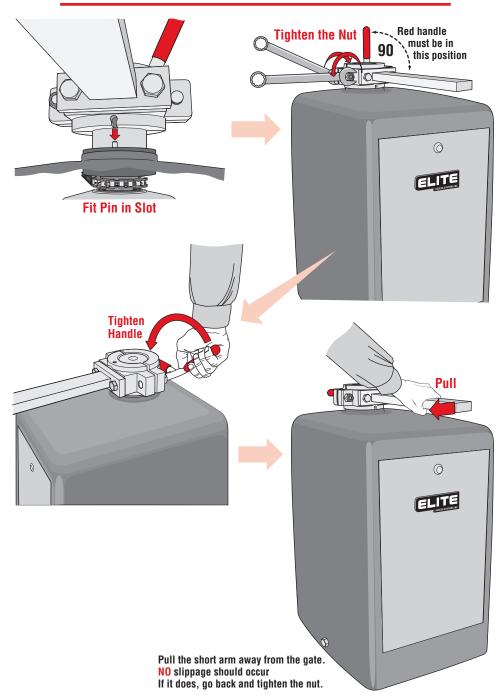
.....then weld the shorter arm.

GATE MOVEMENT DIRECTION

Plug in the motor harness wires to the left (Socket 1) if your gate, from the inside of the property, opens to the left. Plug into the right (Socket 2) if the gate opens to the right.



ADJUSTMENT OF OUTPUT SHAFT





An earth ground rod must be installed to protect this operator

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.

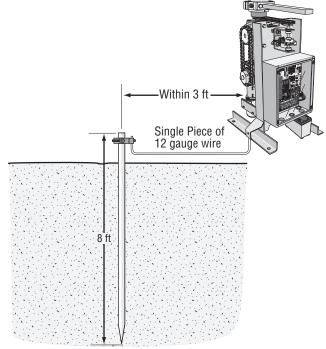
Without this path, the intense energy generated by lightning could be directed towards the Chamberlain Elite gate operator Although nothing can absorb the tremendous power of a direct lightning strike, proper grounding can protect the gate operator in most cases.



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 Chamberlain Elite 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.

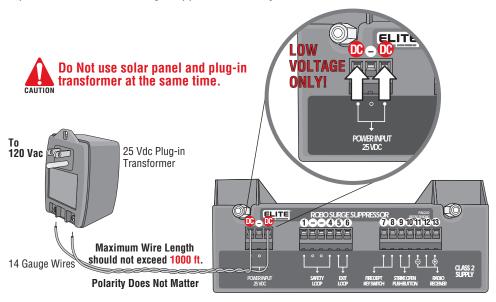


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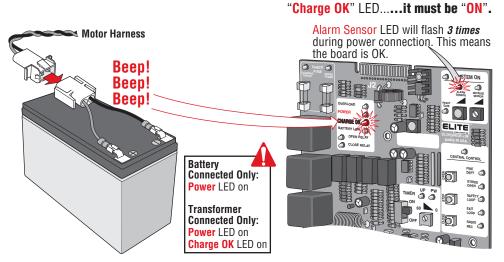
Chamberlain Elite Access Systems is not responsible for improper installation or failure to comply with all necessary local building codes.

DC POWER SUPPLY CONNECTION

Use Chamberlain Elite's optional 25 Vdc plug-in transformer (Part # A POW-1). Hook up the transformer to 120 Vac. Use two, low voltage, 14 gauge / 300watt direct burial, landscape lighting cables. Hook these wires to the plug-in transformer and to the power input connection on the surge suppressor. Polarity does not matter.

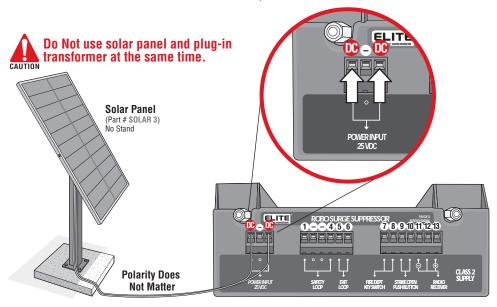


When the plug-in transformer has been connected to the power source, connect the battery cable plug to the motor harness plug. You will hear 3 beeps. After the beeps, check the



"OPTIONAL" SOLAR PANEL

If you use Chamberlain Elite's optional solar panel (Part # Solar 3). Connect the two wires from the solar panel to the power input connection on the surge suppressor (Polarity does not matter). Sunlight will energize the batteries through the solar panel. This solar panel will charge up to 1000 Mamp/Hr in optimum conditions & 300 Mamp/Hr in light overcast conditions. For further details about Chamberlain Elite's solar panel, consult the "Solar 3" Installation sheet that is included with the solar panel.



Energizing this operator with solar power only needs the radio receiver to operate the gate. The only recommended external devices other than radio receivers are dry-contact command devices which do not consume any current like key switches. Using other devices that consume high current such as telephone access, magnetic locks or loop detectors will cause excess drainage of the battery and eventually completely drain the battery.

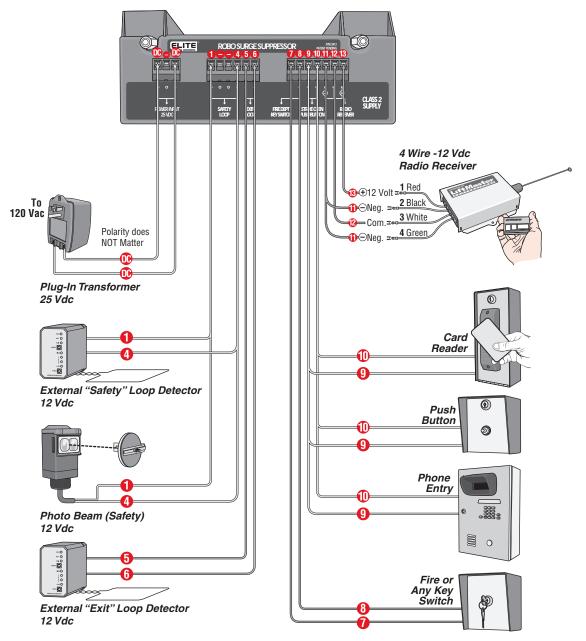


Chamberlain Elite recommends using a larger battery (12 Vdc, 30 AHr) (Part # A 12330) in this operator when using the optional solar panel.

For More Details, contact your Local Dealer

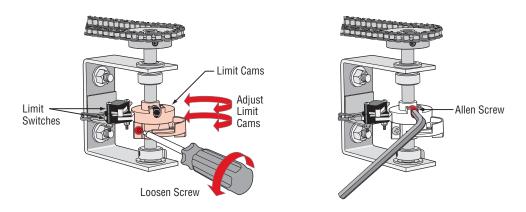
SURGE SUPPRESSOR TERMINAL CONNECTIONS

The radio receiver **must be 12 Vdc only** (Part # A 1099-12V). If you want to use safety or exit loops, you **must use 12 Vdc loop detectors only** (Part # A 23).



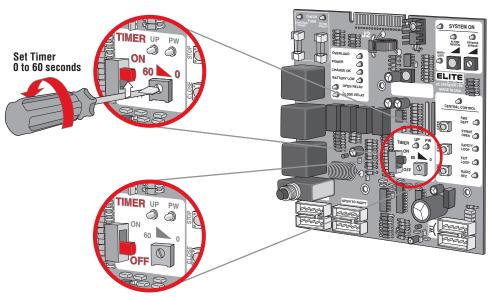
ADJUSTING GATE TRAVELING DISTANCE

Release the red handle and open the gate to a distance desired. Loosen the screw. Turn limit cam until the half moon shape hits the limit switch and you hear the switch *click*. For closing cycle, do the same with the other limit cam. For a more precise adjustment, use the set allen screw.



ADJUSTABLE TIMER

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.



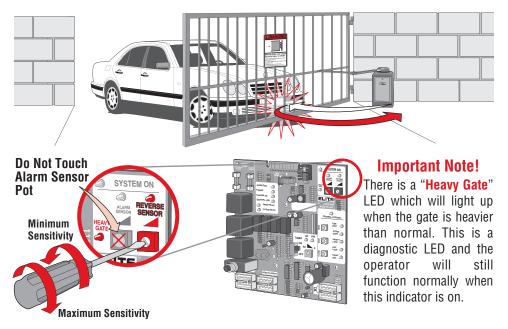
ADJUSTABLE REVERSING SENSOR

Adjust the "Reverse Sensor" pot on the upper portion of the control board. Do Not Touch Alarm Sensor pot.

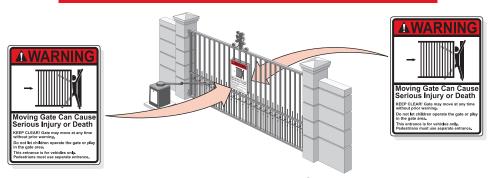
The level of reverse sensitivity depends on the weight of the gate and the condition of installation.

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

Not sensitive enough = if the gate hits an object and does not stop or reverse.

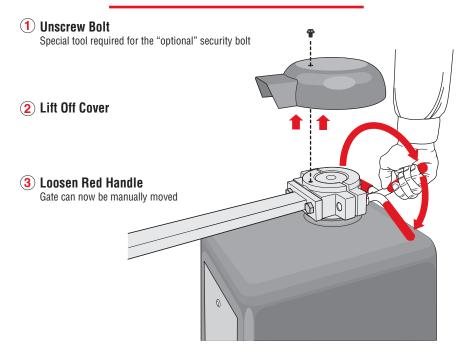


WARNING PLACARD PLACEMENT

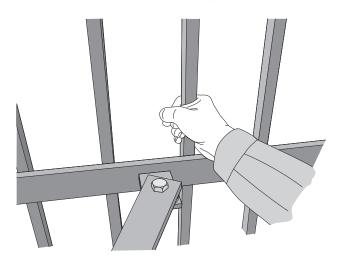


Warning placards need to be permanently mounted on BOTH sides of the gate.

EMERGENCY RELEASE



Grab the Gate to Make Adjustments



Tighten the Red Handle, Replace the Cover and Bolt when Finished When the power is turned on again, the gate will readjust itself automatically.

SAFETY DEVICE WIRING

Sensing Edges

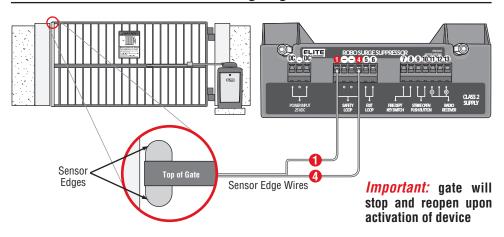
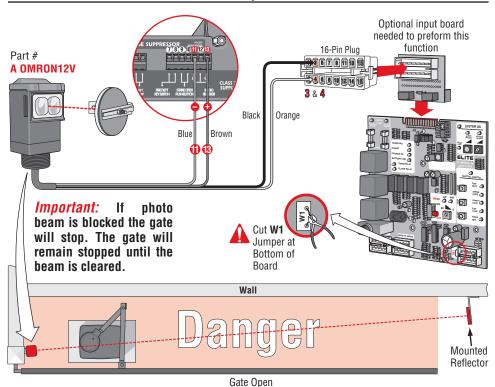


Photo Beam Entrapment Protection



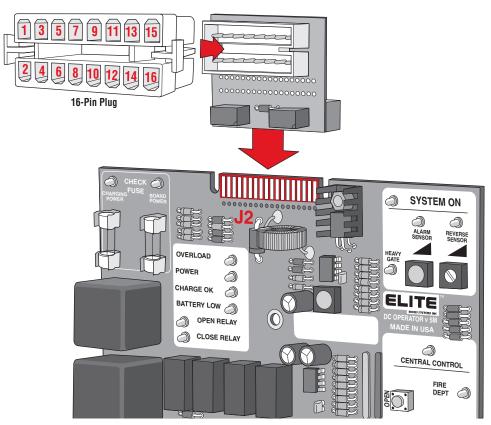
"OPTIONAL" INPUT BOARD

The optional board allows extra control of the gate, is available only from Chamberlain Elite Access Systems. Installation is simple; just clip the optional board to the **J2** slot on the top of the control board. Below lists the function of each pin.

- 1 & 2 Open Switch (N.O.)
- 3 & 4 Stop Switch (N.C.) (Cut W1 Jumper at Bottom of Board)

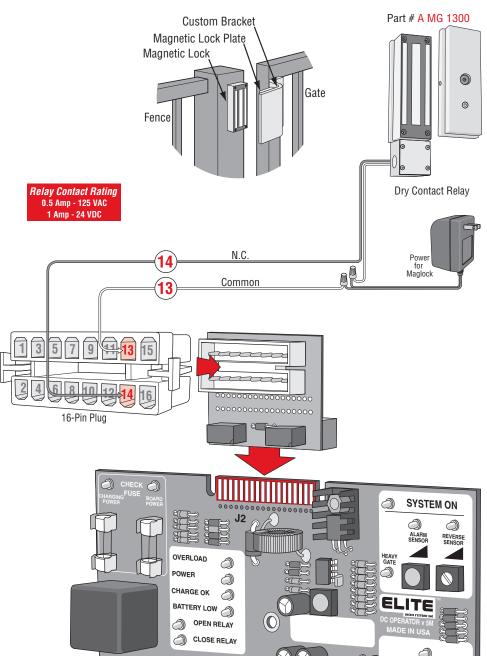


- **5** & **6** Timer Close Output to Slave
- 7 & 8 Timer Input from Master (Close Command or Close Switch) (N.O.)
- 9 & 10 Alarm Output will be set off with very heavy gates or object preventing gate operation. (Not Burglar Alarm) (9 = +12 Vdc, 10 = Alarm)
- 11 & 4 Emergency Open Switch (Direct Command from Battery to Motor)
- 12 & 7 Emergency Close Switch (Direct Command from Battery to Motor)
- 13 & 14 Magnetic Lock Dry Contact Relay (13 = Com, 14 = N.C.)
- 15 & 16 Center Loop Option (For Swing Gate Operators Only)



MAGLOCK WIRING CONNECTION

The "Optional" input board **MUST** be used to perform this function. (Part# Q203)



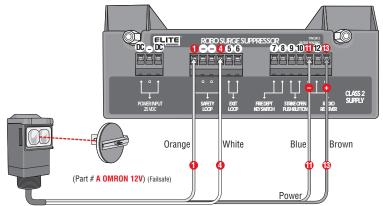
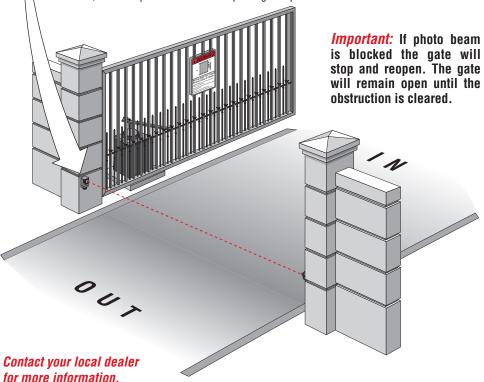


Photo Beam (Safety) 12 Vdc

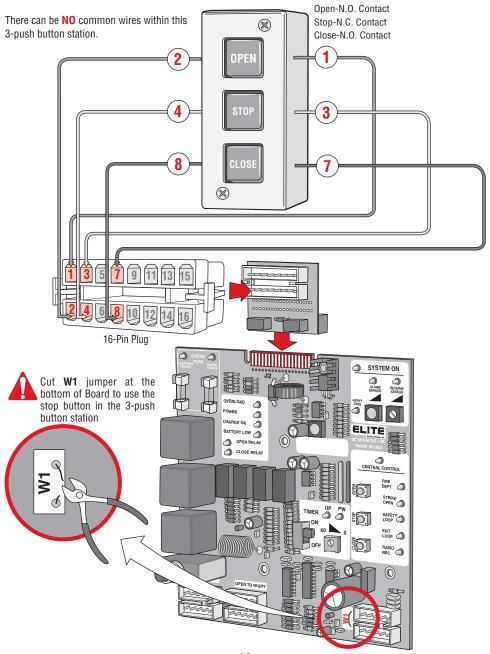
It is best to use 12 Vdc Failsafe Photo Beam Sensors for this Safety Option

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



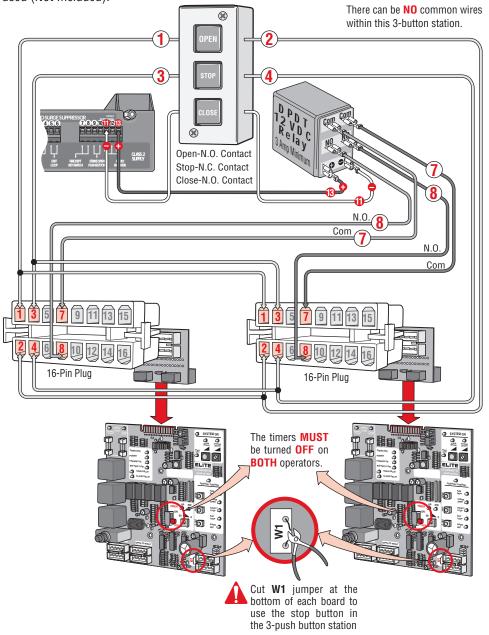
3-PUSH BUTTON WIRING CONNECTION

The "Optional" input board **MUST** be used to perform this function. (Part# Q203)

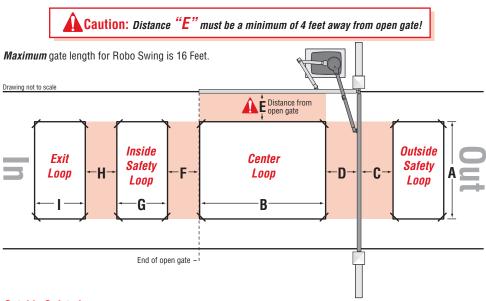


3-PUSH BUTTON WIRING MASTER/SECOND

The "Optional" input board *MUST* be used on both operators to perform this function (Part# Q203). A 12 Vdc Double Pull Double Throw (DPDT) 3 Amp Minimum Relay must be used (Not Included).



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



Outside Safety Loop:

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

Center Loop:

This loop must have enough space between loop and gate when opened or closed.

If driveway is **smaller** than 18 ft, then \mathbf{D} must be ≥ 4.5 ft

If driveway is **bigger** than 18 ft, then \mathbf{D} must be ≥ 5 ft

If B = 6 Feet		9 Feet	12 Feet	15 Feet	
Then E =	Then E = 4 Feet		5 Feet	5 Feet	

Inside Safety Loop

If there is **no** center loop, then $\mathbf{F} \ge 4$ ft

If there is a center loop, then $\mathbf{F} = \mathbf{B}$ or \mathbf{G} which ever is largest.

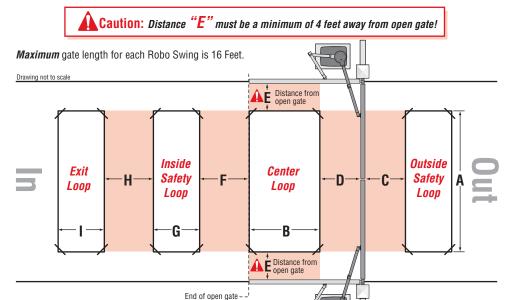
Exit Loop

 $\mathbf{H} = \mathbf{G}$ or \mathbf{I} which ever is largest.

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

MASTER/SECOND LOOP SIZE AND PLACEMENT

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



Outside Safety Loop:

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

Center Loop:

This loop must have enough space between loop and gate when opened or closed.

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If B = 6 Feet		9 Feet	12 Feet	15 Feet	
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Inside Safety Loop

If there is no center loop, then $F \ge 4$ ft

If there is a center loop, then $\mathbf{F} = \mathbf{B}$ or \mathbf{G} which ever is largest.

Exit Loop

 $\mathbf{H} = \mathbf{G}$ or \mathbf{I} which ever is largest.

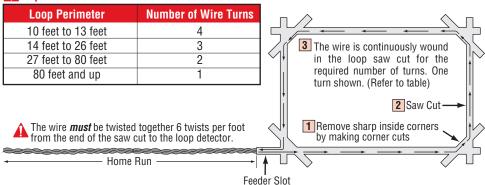
This is for a typical master/slave loop installation. Individual circumstances may alter dimensions.

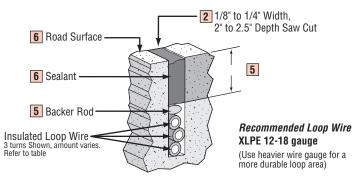
Loop Installation "Saw Cut" Type

- 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 heavier wire gauge for a more durable loop area. 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.
- 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.
- Apply the sealant. The sealant selected should have good adhering properties with similar expansion and contraction characteristics to that of the pavement material.

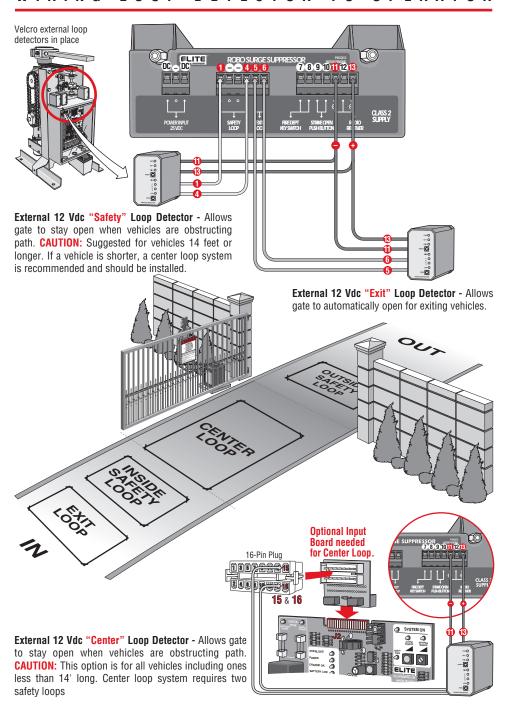
Number of Wire Turns Needed for Loop

🛕 Important





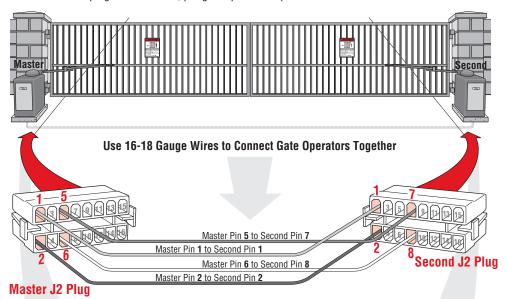
WIRING LOOP DETECTOR TO OPERATOR



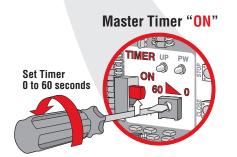
MASTER AND SECOND WITH TIMER

To use the master/second option with Robo Swing, you must purchase the **Optional Input Board** (Part # 0203) and connect it to the **J2** slot of each board. (Refer to page 23)

Caution: 25 Vdc plug-in transformer per gate operator required



- 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

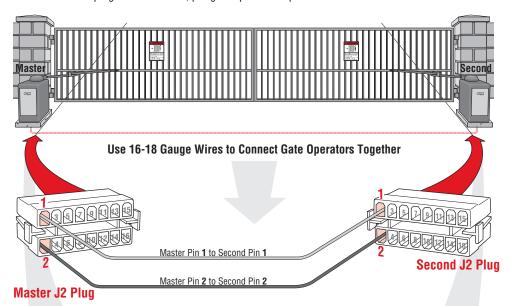




MASTER AND SECOND WITHOUT TIMER

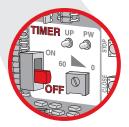
To use the master/second option with Robo Swing, you must purchase the **Optional Input Board** (Part # **Q203**) and connect it to the **J2** slot of each board. (Refer to page 23)

Caution: 25 Vdc plug-in transformer, per gate operator required

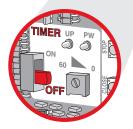


- 1. Make master/second J2 plug connections as shown above
- 2. Turn timers on **BOTH** control boards to the "OFF" position

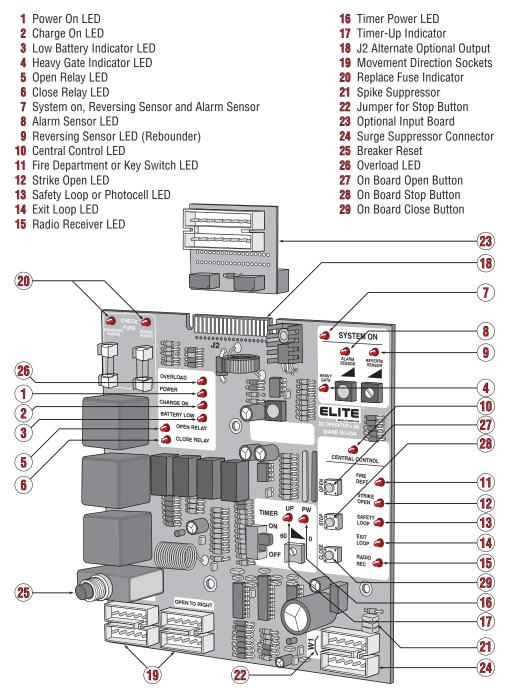
Master Timer "OFF"



Second Timer "OFF"



CONTROL BOARD FUNCTIONS



CONTROL BOARD LED DESCRIPTION

LED Description	LED On	LED Off	
Power at all times when there is one or more power sources ie: Battery, 25 Vdc or solar	Power source OK and board power fuse OK	1. No power source at all If dimmed down 1. Bad board power fuse	
2 Charger OK on when there is any charging power ie: 25 Vdc - solar	Transformer or solar OK and charging power fuse OK	 No Transformer or Solar If dimmed down Bad charging power fuse 	
3 Battery Low normally off - it will indicate low battery	Flashing LED - Battery is less than required limit needs to be recharged 1. Excess usage 2. Bad charging system 3. Under rate solar panel 4. Bad battery 5. Bad battery connection	Battery OK Battery voltage is over minimum required limit	
Heavy Gate will work only when the gate is in motion	 Gate is too heavy Bad wheels Bad rollers Chain is too tight Steep slope on open or close cycle Low battery 	Gate weight and condition are OK	
5 Open Relay	Open relay is energized	Open relay is not energized	
6 Close Relay	Close relay is energized	Close relay is not energized	
System On will work only when the gate is in motion	Detecting motor current	Motor stop No motor current detected	
Alarm Sensor when LED goes on you will hear a "beep" sound for about 20 seconds. LED will flash 3 times for "board OK" during power connection.	 Hearing beep sound means overload Gate is too heavy Broken wheel Gate off track Unwanted object has physically stopped gate 	System is OK	

Note: Circled red numbers indicates location on control board, identified on page 34.

CONTROL BOARD LED DESCRIPTION

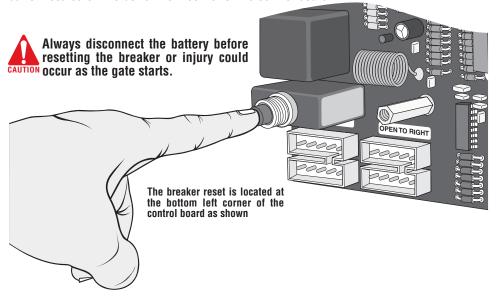
LED Description	LED On	LED Off	
Reversing Sensor	Sensor is detecting obstruction	No obstruction is detected	
10 Central Control	Acknowledgement of receiving open command from one of the surge suppressor terminals • Fire Department 7 & 8 • Strike Open 9 & 10 • Safety Loop 1 & 4 • Exit Loop 5 & 6 • Radio Receiver 11 & 12	Not receiving any command	
11 Fire Dept	Receiving signal at the surge suppressor terminal block 7 & 8	Not receiving signal at the surge suppressor terminal block 7 & 8	
12 Strike Open	Receiving signal at the surge suppressor terminal block 9 & 10	Not receiving signal at the surge suppressor terminal block 9 & 10	
13 Safety Loop	Receiving signal at the surge suppressor terminal block 1 & 4	Not receiving signal at the surge suppressor terminal block 1 & 4	
14 Exit Loop	Receiving signal at the surge suppressor terminal block 5 & 6	Not receiving signal at the surge suppressor terminal block 5 & 6	
15 Radio Rec	Receiving signal at the surge suppressor terminal block 11 & 12	Not receiving signal at the surge suppressor terminal block 11 & 12	
16 Timer PW	Timer power is on	Timer is not on	
17 Timer UP	Output signal to close relay	Not receiving signal to close relay	

Note: Circled red numbers indicates location on control board, identified on page 34.

TROUBLESHOOTING

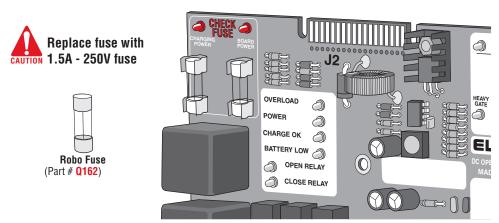
How to Reset the Breaker

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.

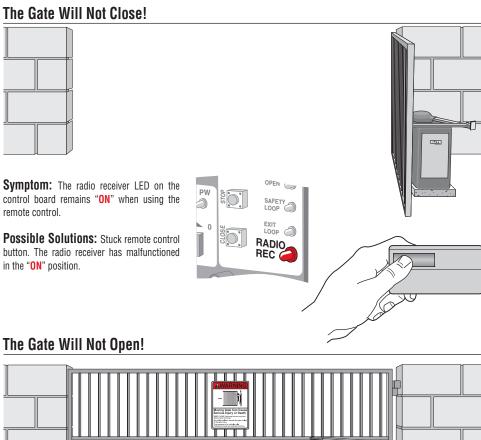


How to Check the Fuses

If the gate is not moving in any direction be sure to check all of the LED displays on the control board. If the board power or charging power LEDs are "ON", change the corresponding fuse on the top left corner of the board.



TROUBLESHOOTING





LOOP

RADIO

control board remains "OFF" when using the remote control.

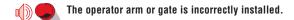
Possible Solutions: Dead battery in the remote control. Remote control code switches are different from radio receiver code switches. The radio receiver has malfunctioned in the "OFF" position.

For further information, contact your local dealer.

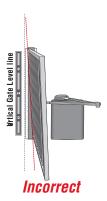
AUDIO ALARM



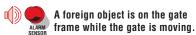


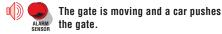


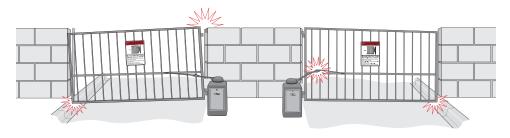










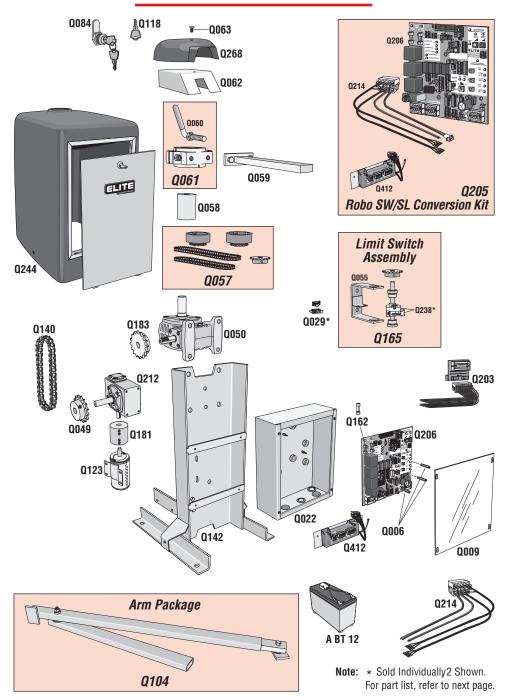






The gate hits the driveway, curb or other, and gets stuck or bent in an awkward position.

ROBO SWING PARTS



PARTS LIST

Robo SW / SL Conversion Kit

□ Q206 - Control Board

Q205 | Q214 - Limit/Motor Harness

Q412 - Surge Suppressor Terminal

Limit Switch Assembly

Q165 - Q238 - Gate Adjustment (Plastic Part)

Arm Package Q104

Cludge Assembly

Q061 - Q060 - Arm Release Handle Q061 - Output Shaft Cludge (T)

Sprocket and Chain Kit

1 1/8" dia. sprocket fits size 70 gear box 1" dia. sprocket fits size 60 gear box Sprocket #35 Chain #35-72 links Chain #35-68 links

Note:

Multiple Parts "Q" Number

A BT 12 - 12 VDC, 7 amp. Battery

Q006 - PC Board Nuts (1 Set)

Q009 - Electronic Access Panel

Q022 - Electronic Box

Q029 - Limit Switch

Q049 - Sprocket (B50-16)

Q050 - Gear Reducer (Size 60)

Q058 - Output Shaft 2 1/2"

Q059 - Output Arm (Solid)

Q062 - Stainless Steel Cludge Cover

Q063 - Security Bolt

Q084 - Emergency Key Release

Q118 - Key for Access Door

Q123 - Motor - DC - 12V

Q140 - Chain #50 (Robo Swing)

Q142 - Chassis - Robo Swing

Q162 - Fuse - Robo

Q181 - Coupling 2 1/2"

Q183 - Sprocket 50B16 5/8" Bore

Q203 - Option Board with Harness

Q206 - Electronic Control Board

Q212 - Gear Reducer 40 - 30:1

Q214 - Limit/Motor Harness

Q244 - Cover, Polyethylene Robo Swing

Q268 - Plastic Cludge Cover

Q412 - Surge Suppressor Terminal

MAINTENANCE

- 1. The gate area should be kept clean to insure proper operation.
- 2. Make sure the hinges are working smoothly and lubricated properly.
- **3.** Make sure gate arm is greased properly.
- 4. Keep the cover clean.
- **5.** Check gate reversing sensor.
- **6.** Check for proper synthetic oil level in the upper gear box. (Mobil 10W-30 weight synthetic oil)
- 7. For parts, refer to Robo Swing parts page and this page.

HOW TO ORDER REPAIR PARTS

OUR LARGE SERVICE ORGANIZATION SPANS AMERICA

Installation and service information are available.

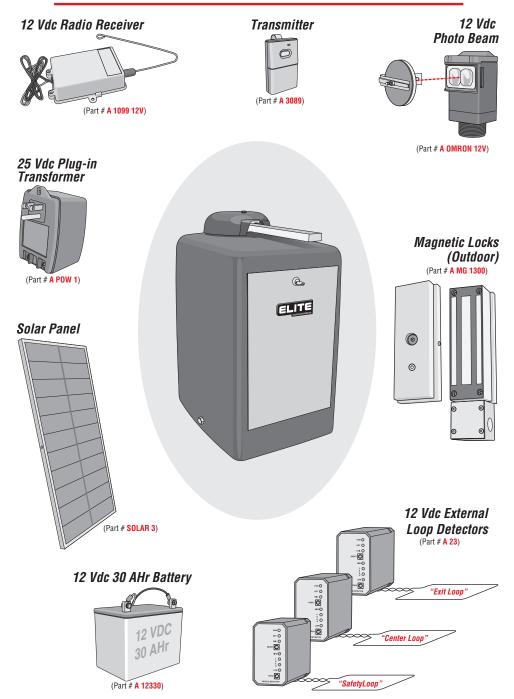
Call our TOLL FREE number:

1-800-528-2806

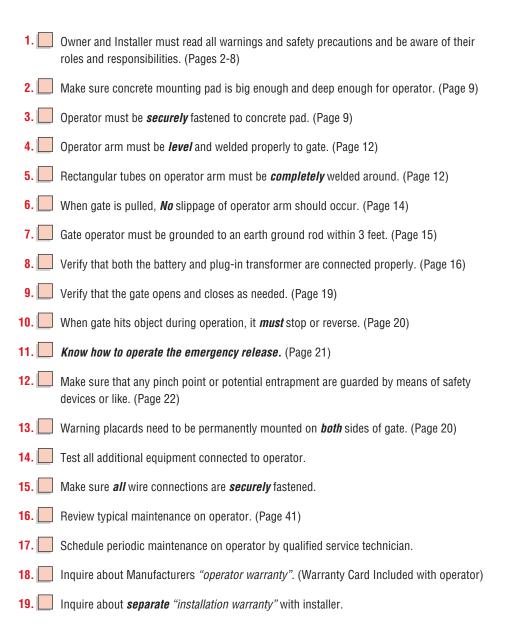
www.liftmaster.com

If you need further assistance, please call your local service company.

ELITE ROBO SWING ACCESSORIES

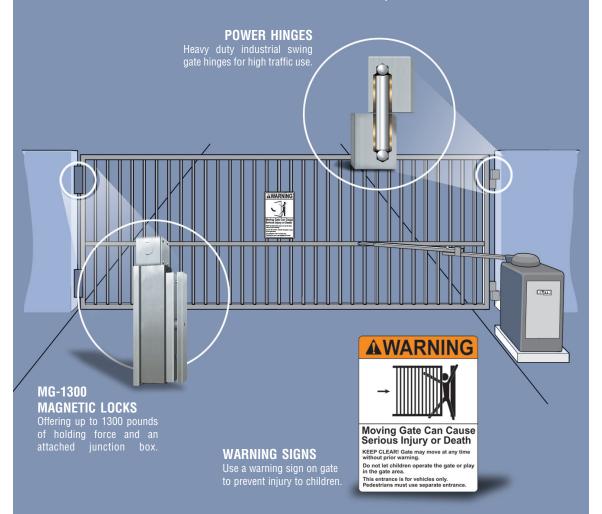


OWNERS CHECKLIST OF INSTALLATION



FEATURES AND SPECIFICATIONS

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



To insure a strong gate installation, weld a horizontal bar across the entire gate. Then weld the arm attachment onto the bar.