Set so operator cycles OPEN upon initial power up and determine when the relay will activate. See manual.

Switches 7 & 8 work in conjunction with each other and Switch MUST be ON for Model 1175.

Terminals 14 – 20 are reserved for internal operator wiring: connections.

Gate Tracker Busy 8

Gate Tracker Data 7

Partial Open 5

Full Open 2

Not Used 9

* 24 VAC 3

*** Dry Relay Contact 10

** Loop Out or Full Open 4

Low Voltage Common 13

Low Voltage Common 12

Not Used 14 Alarm 15 Reset 16 Motor 17 Motor 18

CAUTION – High Voltage!

Not Used.

Auto-Close Timer is ON (Normal Setting).

Loop Detector

HOT Detector

115 VAC Only

Exit Loop Detector

3-Button Control

External Inputs

Monitored Connections

Dependant on SW1, switch 3.

Dependant on SW1, switch 7 & 8.

*** Operation of the relay is

Not Used.

ON

ON

OFF

OFF

**  Dependant on SW1, switch 3.

* Limited to 250 ma Max.

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QUICK GUIDE: DIP-Switches

The two DIP-switches located on the circuit board are used to program the operator to operate in various modes and to turn on or off various operating features. Whenever a switch setting is changed, power to the operator must be turned OFF and then turned back on for the new setting to take affect. Check and review ALL switch settings prior to applying power to the operator.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Opening Direction</td>
<td>MUST be in ON Position.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>OFF</td>
<td>Leave in OFF Position.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Exit Loop Port Output</td>
<td>OFF</td>
<td>The output wired to terminal #4 becomes the output from the exit loop detector plugged into the EXIT Loop port.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Full Open Input</td>
<td>ON Normal Setting. Terminal #4 is a normal full open input.</td>
</tr>
<tr>
<td>4</td>
<td>Auto-Close Timer</td>
<td>OFF</td>
<td>Auto-close timer is OFF. Manual input required to close gate/door.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ON</td>
<td>Normal Setting. Auto-close timer is ON. Adjustable from 1-23 seconds.</td>
</tr>
<tr>
<td>5</td>
<td>OFF</td>
<td>Leave in OFF Position.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>OFF</td>
<td>Leave in OFF Position.</td>
<td></td>
</tr>
<tr>
<td>7 and 8</td>
<td>Circuit Board Relay</td>
<td>7-OFF 8-OFF Normal Setting. Relay activates when gate/door is at open limit. Relay activates when gate/door is not closed. 7-ON 8-ON Relay activates when gate/door is opening and open. 7-ON 8-ON Relay activates during opening and closing cycle.</td>
<td></td>
</tr>
</tbody>
</table>

**Switch 1** Must OPEN upon initial AC power up and open command. Set to ON Position.

**Switch 2** Leave in OFF position.

**Switch 3** Determines that a device wired to terminal #4 is a normal full open command OR terminal #4 becomes the output from the exit loop detector that is plugged into the EXIT Loop port in the circuit board (Used for specialized functions).

**Switch 4** Turns the auto-close timer on or off. Maximum time that the close timer can be set for is approximately 23 seconds.

**Switch 5** Leave in OFF position.

**Switch 6** Leave in OFF position.

**Switches 7-8** These work in conjunction with each other and determine when the relay on the board will be activated. This relay can be used as a switch for various functions such as illuminating a warning light when the gate/door is moving, or turning on a green light when the gate/door is full open.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OFF</td>
<td>Leave in OFF Position.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Magnetic lock</td>
<td>OFF Normal Setting. Magnetic lock is not used.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ON</td>
<td>Magnetic lock is used and connected to terminals 9 and 13. See page 17 for wiring.</td>
</tr>
<tr>
<td>3</td>
<td>ON</td>
<td>Switch 3 MUST be in ON Position.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>OFF</td>
<td>Switch 4 MUST be turned OFF for Model 1175 operator.</td>
<td></td>
</tr>
</tbody>
</table>

**Switch 1** Leave in OFF position.

**Switch 2** If a magnetic lock is not used with the gate/door operator, leave this switch in the OFF position. Turn this switch ON if a magnetic lock is used and connected to terminals 9 and 13. This applies magnetic lock power and logic to these terminals (NC).

**Switch 3** MUST be in ON position.

**Switch 4** MUST be turned OFF for the Model 1175.
QUICK GUIDE: Terminal Descriptions

20-Pin Main Terminal

1. Low Voltage Common
2. Full Open
3. 24 VAC - 250 mA max. (See note below)
4. Loop Out or Full Open
5. Full Open
6. Standard Reverse
7. Tracker Data
8. Tracker Busy
9. 24 VDC Mag Lock Power
10. Dry Relay Contact
11. Dry Relay Contact
12. Low Voltage Common
13. Low Voltage Common
14. Entrapment Alarm
15. Alarm Reset
16. Not Used
17. Motor
18. Motor
19. Circuit Board Power
20. Circuit Board Power

- When when gate/door is closed, input will open gate/door.
- When gate/door is open and auto close timer SW 1, switch 4 is turned ON, input will re-set and hold timer.
- When gate/door is open and auto close timer SW 1, switch 4 is turned OFF, input will close gate/door.
- When gate/door is closing, input will reverse gate/door.

4-Pin Non-Removable Terminal

- Use a standard 4-wire 3-button control station mounted at least 5 ft above of the floor and at least 6 ft from gate/door. See page 13 for info about installation. (DoorKing’s 3-wire 3-button control station cannot be used)
- When using a 3-button control station AND a interlock device together, #3 terminal (N.C.) must be wired in series.
- See page 17 for wiring.

- If SW 1, switch 3 is ON, functions as a normal full open input (Normal setting).
- If SW 1, switch 3 is OFF, input to terminal #4 becomes the output from the EXIT loop detector plugged into the EXIT loop port. (Used for specialized functions).

3-Pin with Jumper

Jumper on bottom 2 pins when using 4-pin terminal.
Jumper on top 2 pins when NOT using 4-pin terminal.

24-volt DC magnetic lock power is provided constantly except when the gate/door is opening or open (Normally Closed function). 1 Amp Max.

Operation of the circuit board dry relay contact is dependent on setting of SW 1, switches 7 and 8. Relay contacts can be set for Normally Open (NO) or Normally Closed (NC) operation. Contact rating is 1 amp maximum at 24-volts DC.

Main Terminal #3 Note:
Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.
SPECIFICATIONS

For the Model 1175 with circuit board 4405-018 Rev A or higher ONLY.

Class of Operation: Model 1175 - UL325 Class II, III and IV
Type of Opening: Vehicular high traffic gate/door only.
Horsepower/ Voltage / Phase: ½ HP - 115 VAC - 60 Hz. Single-Phase
Current: 5.4 Amps
Max Gate/Door Dimensions: Height - 14 Feet, Width - 25 Feet
Gear Reduction: 40:1 Worm gear in a continuous oil bath.
Chain Type: #40
Cycles Per Hour: Continuous Duty
Speed: Approximately 10 inches per second

Inherent Entrapment Protection Device:
Inherent Reverse Sensor System (Type A)

External Entrapment Protection Device Inputs (Monitored Inputs):
Monitored connection inputs for Non-contact Sensor - Photo Sensor (Type B1)
Monitored connection input for Contact Sensor - Reversing Edge (Type B2)

Installation of ONE EXTERNAL entrapment protection MONITORED device MUST be installed in the DOWN direction or operator WILL NOT function.

TWO (2) Entrapment Protection Devices are REQUIRED in the DOWN direction for UL 325 compliance. Type B1 and B2 MUST be MONITORED when used.

Type of wiring to be used on ALL external devices:
A) Type CL2, CL2P, CL2R, or CL2X.
B) Other cable with equivalent or better electrical, mechanical, and flammability ratings.

<table>
<thead>
<tr>
<th>Rail Part Number</th>
<th>Max. Gate/Door Height</th>
<th>Dimension A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1150-225</td>
<td>8 feet</td>
<td>147 inches</td>
</tr>
<tr>
<td>1150-226</td>
<td>10 feet</td>
<td>171 inches</td>
</tr>
<tr>
<td>1150-227</td>
<td>12 feet</td>
<td>195 inches</td>
</tr>
<tr>
<td>1150-228</td>
<td>14 feet</td>
<td>219 inches</td>
</tr>
</tbody>
</table>

IF the operator MUST be installed less than 8 feet (2.44 m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer.

DoorKing offers a 1175 cover to protect against anyone coming in contact with the operator’s exposed moving parts. Sold separately, P/N 1175-020

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One or more contact or non-contact external MONITORED entrapment protection systems shall be located where the risk of entrapment or obstruction exists at either the opening or closing direction. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate/door is still moving.

**WARNING**

Persons are to keep clear! The gate is able to be moved without prior warning. Do not let children operate the gate or play in the area of the gate. This entrance is for vehicles only. Pedestrians must use a separate entrance.

**Note:** If operator is mounted LESS THAN 8 ft above the floor, a safety cover is REQUIRED on operator.

**Note:** Make sure the gate/door opens and closes smoothly. Gate/door should stay in the open position when springs are properly balanced before operator installation.
**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/door controls. Keep remote controls (when provided) away from children.
3. Personnel should keep away from the gate/door in motion and keep the moving gate/door in sight until it is completely closed or opened.

**NO ONE SHOULD CROSS THE PATH OF A MOVING GATE/DOOR.**
4. Test the gate/door safety features at least once a month. After adjusting either the force or the limit of travel, retest the gate/door operator’s safety features. Failure to adjust the operator properly may cause severe injury or death.
5. Use the manual release only when the gate/door is closed. Use caution when using this release when the gate/door is open. Weak or broken springs may cause the gate/door to fall rapidly, causing severe injury or death.
6. KEEP GATE/DOOR PROPERLY OPERATING AND BALANCED. Refer to the hardware manufacturer’s User Manual. An improperly operating or balanced gate/door could cause severe injury or death. Have a trained technician make repairs to cables, spring assemblies, and other hardware.

7. **SAVE THESE INSTRUCTIONS.**

**Important Installation Instructions**

**WARNING – To reduce the risk of injury or death:**
1. READ AND FOLLOW ALL INSTRUCTIONS.
2. Install only on a properly operating and balanced overhead gate/door. An overhead gate/door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies, and other hardware before installing the operator.
3. Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) connected to the gate/door before installing the operator.
4. A commercial/industrial overhead gate/door operator that has exposed moving parts capable of causing injury to persons or employs a motor deemed indirectly accessible by virtue of its location above the floor shall include:
   a. Install the gate/door operator at least 8 feet (2.44 m) or more above the floor; or
   b. If the operator must be installed less than 8 feet (2.44 m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer; or
   c. Both (a) and (b).
5. Use the manual release only when the gate/door is closed. Use caution when using this release when the gate/door is open. Weak or broken springs may cause the gate/door to fall rapidly, causing severe injury or death.
6. KEEP GATE/DOOR PROPERLY OPERATING AND BALANCED. Refer to the hardware manufacturer’s User Manual. An improperly operating or balanced gate/door could cause severe injury or death. Have a trained technician make repairs to cables, spring assemblies, and other hardware.

7. **SAVE THESE INSTRUCTIONS.**

**Instructions regarding intended installation:**

- Install the gate/door operator only if:
  1. The operator is appropriate for the construction of the gate/door and the usage class of the gate/door.
  2. All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet (1.83 m) above the ground to prevent a 2 ¼ inch (57.2 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.
  3. All exposed pinch points are eliminated or guarded.
  4. Guarding is supplied for exposed rollers.
- The operator is intended for installation only on gates/doors used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate/door such that persons will not come in contact with the vehicular gate/door during the entire path of travel of the vehicular gate/door.
- The gate/door must be installed in a location so that enough clearance is supplied between the gate/door and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates/doors should not open into public access areas.
- The gate/door must be properly installed and work freely in both directions prior to the installation of the gate/door operator. Do not over-tighten the operator clutch, pressure relief valve or reduce reversing sensitivity to compensate for a damaged gate/door.
- For gate/door operators utilizing Type D protection:
  1. The gate/door operator controls must be placed so that the user has full view of the gate/door area when the gate/door is moving.
  2. A warning placard shall be placed adjacent to the controls.
  3. An automatic closing device (such as a timer, loop sensor, or similar device) shall not be employed.
  4. No other activation device shall be connected.  

Continued on next page.
Important Notices

Vehicular gate/door operator products provide convenience and security. However, gate/door operators must use high levels of force to move gates/doors and most people underestimate the power of these systems and do not realize the potential hazards associated with an incorrectly designed or installed system. These hazards may include:

- Pinch points
- Entrapment areas
- Reach through hazards
- Absence of entrapment protection devices
- Improperly located access controls
- Absence of vehicle protection devices
- Absence of controlled pedestrian access

In addition to these potential hazards, automated vehicular gate/door systems must be installed in accordance with the UL 325 Safety Standard and the ASTM F2200 Construction Standard. Most people are unaware of, or are not familiar with, these standards. If an automated vehicular gate/door system is not properly designed, installed, used and maintained, serious injuries or death can result. Be sure that the installer has instructed you on the proper operation of the gate/door and gate/door operator system. Be sure that the installer has trained you about the basic functions of the required reversing systems associated with your gate/door operating system and how to test them. These include reversing loops, inherent reversing system, electric edges, photoelectric cells, or other external devices.

- This Owner’s Manual is your property. Keep it in a safe place for future reference.
- Be sure that all access control devices are installed a minimum distance of 6 feet away from the gate/door and gate/door operator, or in such a way that a person cannot touch the gate/door or gate/door operator while using the device. If access control devices are installed in violation of these restrictions, immediately remove the gate/door operator from service and contact your installing dealer.
- Loops and loop detectors, photo-cells or other equivalent devices must be installed to prevent the gate/door from closing on vehicular traffic.
- The speed limit for vehicular traffic through the gate/door area is 5 MPH. Install speed bumps and signs to keep vehicular traffic from speeding through the gate/door area. Failure to adhere to posted speed limits can result in damage to the gate/door, gate/door operator, and to the vehicle.
- Be sure that all persons who will use the gate/door system are familiar with the proper use of the gate/door and gate/door operator and are familiar with the possible hazards associated with the gate/door system.
- Be sure that warning signs are permanently installed on both sides of the gate/door in an area where they are fully visible to traffic.
- It is your responsibility to periodically check all entrapment protection devices. If any of these devices are observed to function improperly, remove the operator from service immediately and contact your installing or servicing dealer.
- Follow the recommended maintenance schedule.
- Do not allow children to play in the area of the operator or to play with any gate/door-operating device.
- To remove the gate/door operator from service, operate the gate/door to the full open position and then shut off power to the operator at the service panel.
UL325 Entrapment Protection

UL 325 Classifications

Class I - Residential Vehicular Gate Operator
A vehicular gate operator (or system) intended for use in garages or parking areas associated with a residence of one-to-four single families. This does **NOT** apply to DKS commercial gate operator.

Class II - Commercial/General Access Vehicular Gate/Door Operator
A vehicular gate/door 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 buildings accessible by or servicing the general public.

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

Class IV - Restricted Access Vehicular Gate/Door Operator
A vehicular gate/door 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.

Gate/Door Operator Category

<table>
<thead>
<tr>
<th>Vertical Lift, Vertical Pivot</th>
<th>Swing, Vertical Barrier (Arm)</th>
</tr>
</thead>
</table>

**Entrapment Protection Types**

- **Type A** - Inherent entrapment protection system.
- **Type B1** - Non-contact sensor (photoelectric sensor or the equivalent).
- **Type B2** - Contact sensor (edge device or equivalent).
- **Type C** - Inherent force limiting, inherent adjustable clutch or inherent pressure relief device.
- **Type D** - Actuating device requiring constant pressure to maintain opening or closing motion of the gate/door.

* **B1 and B2** means of entrapment protection must be **MONITORED**.

**Vertical Barrier Note:** Barrier gate operators (arm) that is not intended to move toward a rigid object closer than 16 inches (406 mm) are not required to be provided with a means of entrapment protection.
**GATE/DOOR** - A moving barrier such as a swinging, sliding, raising, lowering, or the 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.

**RESIDENTIAL VEHICULAR GATE OPERATOR – CLASS I** - A vehicular gate operator (or system) intended for use in a home of one-to four single family dwelling, or garage or parking area associated therewith.

**COMMERCIAL / GENERAL ACCESS VEHICULAR GATE OPERATOR - CLASS II** - A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units), hotels, garages, retail store, or other building servicing the general public.

**INDUSTRIAL / LIMITED ACCESS VEHICULAR GATE OPERATOR - CLASS III** - A vehicular gate operator (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

**RESTRICTED ACCESS VEHICULAR GATE OPERATOR - CLASS IV** - A vehicular gate operator (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.

**VEHICULAR BARRIER (ARM) OPERATOR (OR SYSTEM)** - An operator (or system) that controls a cantilever type device (or system), consisting of a mechanical arm or barrier that moves in a vertical arc, intended for vehicular traffic flow at entrances or exits to areas such as parking garages, lots or toll areas.

**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 and exit to a drive, parking lot, or the like.

**VEHICULAR SWING-GATE OPERATOR (OR SYSTEM)** - A vehicular gate operator (or system) that controls a gate which moves in an arc in a horizontal plane that is intended for use for vehicular entrance and exit to a drive, parking lot, or the like.

**SYSTEM** - In the context of these requirements, a system refers to a group of interacting devices intended to perform a common function.

**WIRED CONTROL** - A control implemented in a form of fixed physical interconnections between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

**WIRELESS CONTROL** - A control implemented in means other than fixed physical interconnections (such as radio waves or infrared beams) between the control, the associated devices, and an operator to perform predetermined functions in response to input signals.

**INHERENT ENTRAPMENT PROTECTION SYSTEM** - A system, examples being a motor current or speed sensing system, which provides protection against entrapment upon sensing an object and is incorporated as a permanent and integral part of the operator.

**EXTERNAL ENTRAPMENT PROTECTION DEVICE** - A device, examples being an edge sensor, a photoelectric sensor, or similar entrapment protection device, which provides protection against entrapment when activated and is not incorporated as a permanent part of an operator.

**ENTRAPMENT** - The condition when an object is caught or held in a position that increases the risk of injury.
SECTION 1 - INSTALLATION

Prior to beginning the installation of the commercial gate/door operator, we suggest that you become familiar with the instructions, illustrations, and wiring guidelines in this manual. This will help ensure that your installation is performed in an efficient and professional manner compliant with UL 325 safety and ASTM F2200 construction standards.

The proper installation of the vehicular commercial gate/door operator is an extremely important and integral part of the overall access control system. Check all local building ordinances and building codes prior to installing this operator. Be sure your installation is in compliance with local codes.

1.1 Determine Location of Operator

**IMPORTANT:** Make sure the gate/door opens and closes smoothly BEFORE installing operator. Gate/door should REMAIN in the open position when balancing springs are properly adjusted.

**IF the operator is installed less than 8 feet above the floor, then operator’s exposed moving parts must be covered. DoorKing offers a 1175 cover for protection, Sold separately, P/N 1175-020**

1. With the gate/door CLOSED, measure and mark a centerline of the gate.

2. With the gate/door OPEN, mark a centerline of the gate on the ceiling.

1.2 Attach Rails to Powerhead

Secure rails to powerhead with 4 bolts, nuts and lockwashers.

**CAUTION:** FRAGILE POWERHEAD!
1.3 Manual Release and Chain Connection

Cut wire ties and route chain around gear reducer’s sprocket and through unlocked carriage assembly (To unlock assembly, use key to unlock release ring, pull ring up and rotate 45° to release spring loaded chain catch). Connect chain together with double master link.

1. Unlock

2. Pull Up and Turn Ring

**IMPORTANT** The carriage assembly’s spring loaded chain catch will only lock into place in the double master chain link.

1.4 Adjust Chain Tension

Do not overtighten chain. Make adjustments equally on both sides of rails. Chain will need final adjustment after operator has been mounted. Chain will stretch over time and will need to be tightened.

- Do not let chain touch steel rail separators.
- Approximate chain tension, front rail removed for illustration.
- Chain must be centered between rails.
- Return wheel must be centered between rails.
- Chain tension adjustment. Adjust equally on both sides of rails.
1.5 Attach Gate/Door Bracket

Install the gate/door bracket on the top of the gate/door. Use appropriate hardware, not included. **Bracket must be mounted level and centered on gate/door!**

![Diagram of Gate/Door Bracket Installation](image)

1.6 Attach Header Bracket

Header bracket should be mounted on the center line a **MINIMUM of 2.5 inches** from highest point of the gate/door in the open position (see below). Use appropriate hardware, not included. **Header bracket must be level and SECURELY mounted.**

![Diagram of Header Bracket Installation](image)
1.7 Mount Operator

Connect rails to header bracket. The powerhead must be protected from damage. Use the shipping box and packing material to set the powerhead on while connecting the rails to the header bracket.

CAUTION
FRAGILE POWERHEAD!

Mount Powerhead Directly to Ceiling

Install the powerhead with lag bolts or anchor sleeves. Rails must be mounted level!

Mount Powerhead Using a Ceiling Extension Bracket

Ceiling extension bracket must be fabricated (2” wide L angle steel is recommended).

Install the powerhead with lag bolts or anchor sleeves. Rails must be mounted level!

Note: If operator is mounted LESS THAN 8 ft above the floor, a safety cover is REQUIRED on operator.
**Connect Carriage Arm**

Carriage assembly must be unlocked. After connecting the arm, manually raise and lower the gate/door, be sure the gate/door is operating smoothly and is not binding anywhere. Any interference must be corrected now.

**Final Chain Adjustment**

Check that the chain is not rubbing on the steel rail separators. Final tension adjustment might be needed.

**Installation of Warning Signs**

This Operator is shipped with two warning signs. The purpose of the warning sign is to alert uninformed persons, and to remind persons familiar with the gate/door system, that a possible hazard exists so that appropriate action can be taken to avoid the hazard or to reduce exposure to the hazard. See page 2 for suggested mounting positions of signs.

- Permanently install the supplied warning signs in locations so that the signs are visible by persons on both sides of the gate/door.
- Use appropriate hardware such as wood or sheet metal screws (not supplied) to install the warning signs.
1.8 External Entrapment Protection Installation

External Entrapment Protection Devices:
In addition to the inherent reversing sensor system, this operator has a 6-pin UL 325 terminal for the connection of monitored photo sensors-Type B1 and/or monitored reversing edges-Type B2 entrapment protection required by UL 325 standards. At least one external entrapment protection monitored device must be installed in the down direction or the operator will not function. Install these devices where the risk of entrapment or a safety hazard exists while the gate/door is moving. Specific installations will vary, see page 2 for more information.

Non-Contact Sensor (Type B1)
- Photocells must be monitored.
- Photocell should be placed so that an entrapment cannot occur at the lower travel of the gate/door. Do not place the photocell so high that a person could be trapped under the gate/door without activating the photocell (6” beam height maximum above the ground).
- If high bed vehicles access the gate/door, a second photocell should be placed so that the photo-beam cannot scan under the vehicle.
- Photocells may require separate power depending on model used.

Contact Sensor (Type B2)
- Reversing edge must be monitored.
- Hardwired Reversing Edge must be located and wiring arranged so that the communication between the edge and the gate/door operator is not subjected to mechanical damage.
- Additional contact sensors should be added where multiple entrapment zones may exist.

See page 18 for entrapment protection wiring.
1.9 3-Button Control Station Installation

Permanently install the supplied warning sign next to the 3-Button control station so the sign is visible by a person using the control station.

WARNING

AVERTISSEMENT

Moving Gate Has the Potential of Inflicting Injury or Death – Do Not Start Gate Unless Path is Clear.
La Porte Mobile a le Potentiel D'infliger Des Blessures ou de la Mort - Ne Pas Démarrer la Porte à Moins que le Chemin ne Soit Clair.

AVERTISSEMENT!

Install a standard **4-wire** 3-button control station mounted at least 5 ft above the floor and at least 6 ft from gate/door. It **MUST** be in the Line-of-Sight of the gate/door so a person operating the control station can see the moving gate/door area. See page 17 to wiring control station to gate/door operator.

Type of wiring to be used on ALL external devices:
A) **Type CL2, CL2P, CL2R, or CL2X**.
B) Other cable with **equivalent or better** electrical, mechanical, and flammability ratings.
Before attempting to connect any wiring to the operator, be sure that the circuit breaker in the electrical panel is in the OFF position. Permanent wiring must be installed to the operator as required by local electrical codes. It is recommended that a licensed electrical contractor perform this work.

Since building codes vary from city to city, we highly recommend that you check with your local building department prior to installing any permanent wiring to be sure that all wiring to the operator (both high and low voltage) complies with local code requirements.

**THIS GATE/DOOR OPERATOR MUST BE PROPERLY GROUNDED!!**

### 2.1 Conduit Requirements

- The conduit requirements are for a typical overhead gate/door operator installation. **The conduit requirements for your application may vary from this depending on your specific needs.**
- Use only sweeps for conduit bends. Do not use 90° connectors as this will make wire pulls very difficult and can cause damage to wire insulation.
- We suggest that minimum ¾-inch conduit be used.
- Be sure that all conduits are installed in accordance with local codes.

---

**Type of wiring to be used on ALL external devices:**

- **A)** Type CL2, CL2P, CL2R, or CL2X.
- **B)** Other cable with equivalent or better electrical, mechanical, and flammability ratings.

**Installation of ONE EXTERNAL entrapment protection MONITORED device MUST be installed in the DOWN direction or operator WILL NOT function.**
2.2 High Voltage Wire Run

The distance shown in the chart is measured in Feet from the operator to the power source. If power wiring is greater than the maximum distance shown, it is recommended that a service feeder be installed. When large gauge wire is used, a separate junction box must be installed for the operator connection. The wire table is based on stranded copper wire. Wire run calculations are based on a power source with a 3% voltage drop on the power line, plus an additional 10% reduction in distance to allow for other losses in the system.

This table illustrates the high voltage wire size and distance limitations.

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Voltage Required</th>
<th>Amps Required</th>
<th>Wire Size / Max Distance in Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>12 AWG</td>
</tr>
<tr>
<td>1175</td>
<td>115</td>
<td>5.4</td>
<td>170</td>
</tr>
</tbody>
</table>

Never run high voltage and low voltage wires in the same conduit. Keep them in separate conduits.

2.3 High Voltage Terminal Connection

DO NOT cycle the operator without the OPEN and CLOSE limit nuts in their specific open and close positions. The limit nuts or the AC power switch are the only ways to STOP the operator once an open cycle has started. This could cause damage to the gate/door and/or operator if the gate/door opens too far!

Installation of ONE MONITORED external entrapment protection device MUST be installed in the DOWN direction or operator WILL NOT function.

- Route incoming high voltage power through conduit and into the operator as shown.
- Be sure wiring is installed in accordance with local codes. Be sure to color code all wiring.
- Connect power wires as shown.
- It is recommended that a surge suppressor be installed on the high voltage power lines to help protect the operator and circuit board from surges and power fluctuations.

THIS GATE/DOOR OPERATOR MUST BE PROPERLY GROUNDED!!
2.4 Main Terminal Description

4-Pin Non-Removable Terminal

- Use a standard 4-wire 3-button control station mounted at least 5 ft above the floor and at least 6 ft from gate/door. See page 13 for info about installation. (DoorKing’s 3-wire 3-button control station cannot be used)
- When using a 3-button control station AND a interlock device together, #3 terminal (N.C.) must be wired in series.
- See page 17 for wiring.

20-Pin Main Terminal

- When gate/door is closed, input will open gate/door.
- When gate/door is open and auto close timer SW 1, switch 4 is turned ON, input will re-set and hold timer.
- When gate/door is open and auto close timer SW 1, switch 4 is turned OFF, input will close gate/door.
- When gate/door is closing, input will reverse gate/door.

3-Pin with Jumper

Jumper on bottom 2 pins when using 4-pin terminal.

Jumper on top 2 pins when NOT using 4-pin terminal.

24-volt DC magnetic lock power is provided constantly except when the gate/door is opening or open. (Not Normal function). 1 Amp Max.

Operation of the circuit board dry relay contact is dependent on setting of SW 1, switches 7 and 8. Relay contacts can be set for Normally Open (NO) or Normally Closed (NC) operation. Contact rating is 1 amp maximum at 24-volts DC.

Main Terminal #3 Note:
Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.
2.5 Control Wiring

**Fire Dept Open**
Gate will ONLY OPEN when this device is activated by authorized personnel ONLY (fire, police, EMS) and operator has power. Alarm will sound during entire open cycle. Operator will then go into a hard shutdown once fully opened. Operator MUST be reset to function normally again. This device MUST be mounted in the line-of-site of gate so authorized personnel can monitor gate movement.

**Activation Note:** Activation of this device will OPEN gate regardless of the status of the open direction monitored external entrapment protection device(s). If gate is opening, and the operator’s inherent entrapment protection system detects an obstruction, the operator will reverse approx. 2 inches and go into a hard shutdown. Operator reset button MUST be pushed to function again OR cycle operator’s power.

**4-Pin Non-Removable Terminal**

3-BUTTON CONTROL STATION
Use a standard 4-wire 3-button control station. DoorKing’s 3-wire 3-button control station CANNOT be used.

<table>
<thead>
<tr>
<th>#1 Open N.O.</th>
<th>#2 Close N.O.</th>
<th>#3 Stop N.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.O.</td>
<td>N.C.</td>
<td>N.C.</td>
</tr>
<tr>
<td>Relay Com</td>
<td>Relay Com</td>
<td>To #4 Com</td>
</tr>
</tbody>
</table>

**Note:** When using 3-button control station AND interlock switch together, #3 terminal (N.C.) must be wired in series.

**3-Pin With Jumper**
Place jumper on bottom 2 pins when using 4-pin terminal.

** Normally Closed Interlock Switch**

Operator Cycling

<table>
<thead>
<tr>
<th>N.O.</th>
<th>N.C.</th>
<th>Com</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock Engaged</td>
<td>Lock Disengaged</td>
<td></td>
</tr>
</tbody>
</table>

To #3 Stop N.C. To #4 Com

**Operator Stopped**

<table>
<thead>
<tr>
<th>N.O.</th>
<th>N.C.</th>
<th>Com</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock Engaged</td>
<td>Lock Disengaged</td>
<td></td>
</tr>
</tbody>
</table>

To #4 Com

**Terminal #3 Note:**
Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.

**Type of wiring to be used on ALL external devices:**
A) Type CL2, CL2P, CL2R, or CL2X.
B) Other cable with equivalent or better electrical, mechanical, and flammability ratings.

**Gate Tracker** - DoorKing Access Control System (Model 1833, 1835, 1837 or 1838) tracker system can be connected. This system can keep track of gate operator cycle count, shorted inputs, loop detector problems, any forced entry attempts, if the gate has struck anything during the open or close cycle, power interruptions, etc. For more detailed information refer to the Tracker Installation and Wiring Manual, DoorKing P/N 2358-065.

**DANGER**
HIGH VOLTAGE!

**Terminal #5 Note:**
Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.

**Radio Receivers**

**3-Wire**

**Relay Com**

24 Volt Com

Relay N.O.

24 Volt - 250 mA max.

24 Volt - 250 mA max.

**4-Wire**

**Relay Com**

24 Volt Com

Relay N.O.

24 Volt - 250 mA max.

**Terminal #5 Note:**
Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.

**Type of wiring to be used on ALL external devices:**
A) Type CL2, CL2P, CL2R, or CL2X.
B) Other cable with equivalent or better electrical, mechanical, and flammability ratings.

**Important:** Controls intended for user activation must be located at least six (6) feet away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Emergency access controls only accessible by authorized personnel (e.g., fire, police, EMS) may be placed at any location in the line-of-sight of the gate.
2.6 External Entrapment Protection Wiring

**External Entrapment Protection Devices:**
In addition to the inherent reversing sensor system, this operator has a 6-pin UL 325 terminal for the connection of **photo sensors-Type B1** and/or **reversing edges-Type B2** entrapment protection required by UL 325 standards. **At least ONE EXTERNAL entrapment protection MONITORED device MUST be installed in the DOWN direction or the operator will NOT function.** Install these devices where the risk of entrapment or a safety hazard exists while the gate/door is moving. Specific installations will vary.

- Use only UL listed (or equivalent) MONITORED sensors.
- Sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate/door or barrier. Additional sensors should be added for additional protection where entrapment zones exist. Actual placement of sensors is dependent on the installation requirements.
- Disconnect power to gate/door operator before installing the sensors.

**Non-Contact Sensor (Type B1)**
- Photo-cell should be placed so that an entrapment cannot occur at the lower travel of the gate/door. Do not place the photocell so high that a person could be trapped under the gate/door without activating the photocell.
- If high bed vehicles access the gate/door, a second photocell should be placed so that the photo-beam cannot scan under the vehicle.
- Photocells may require separate power depending on model used.

**Entrapment Protection Board**
ONLY connect monitored devices.
The 6-pin terminal can be unplugged from circuit board for easy wire connections.

**LED Lights:**
LED OFF: appropriate device is connected.
LED ON: device has been activated.
Flashing LED: device NOT connected. Not appropriate device.

**DIP-Switches MUST be turned ON for each connected device.**

**Contact Sensor (Type B2)**
- Hardwired contact sensors must be located and wiring arranged so that the communication between the sensor and the gate/door operator is not subjected to mechanical damage.
- Additional contact sensors should be added where multiple entrapment zones may exist.

All potential entrapment areas MUST be protected with an external entrapment protection device. See page 12. At least ONE EXTERNAL entrapment protection MONITORED device MUST be installed in the DOWN direction or the operator will NOT function.

Type of wiring to be used on ALL external devices:
A) Type CL2, CL2P, CL2R, or CL2X.
B) Other cable with equivalent or better electrical, mechanical, and flammability ratings.

Avoid interference with gate/door hardware.
2.7 Loop Detector Wiring

Loop detectors must be installed to prevent the gate/door from accidentally closing on vehicles that may be in the path of the gate/door.

- Install 9410 Single Channel or 9409 Dual Channel DoorKing plug-in loop detectors (Sold separately).
- If using external loop detectors, use only UL listed (or equivalent) detectors. Use a separate power supply for external loop detectors. Inputs to circuit board are Normally Open (NO).
- Disconnect power to operator before installing any loop detectors.

- Loop layout shown is for a typical overhead gate/door application with two-way traffic, or one-way exit only traffic.
- Refer to the Loop Information Manual (available from www.doorking.com) for more information on loops and loop detectors.
SECTION 3 - ADJUSTMENTS

The switch settings and adjustments in this chapter should be made after your installation and wiring to the operator is complete. Whenever any of the programming switches on the circuit board are changed, power must be shut-off, and then turned back on for the new setting to take effect.

3.1 4405 Circuit Board Descriptions and Adjustments

DIP-Switches
Set the DIP-switches on the circuit board to the desired setting. See switch-settings on next 2 pages.

Fire Dept Open
Connect ONLY emergency access controls accessible by authorized personnel (e.g., fire, police, EMS). Upon activation, alarm will sound and the operator will go into a hard shutdown after reaching the open limit. Operator must be reset to resume normal operation. See pages 17, 25-26.

Auto-Close Timer
Auto-close timer (when turned on) SW 1, switch 4.

Time Delay:
Adjust from 1 second (full counter-clockwise) to approximately 23 seconds (full clockwise).

How LEDs Function
Illuminated LEDs indicates that low voltage power is being applied to the circuit board.
Input LEDs should be OFF and will only illuminate when the input is activated.
Limit LEDs will only illuminate when the respective limit sensor has been activated.
Loop LEDs will only illuminate when a reverse or exit loop is activated (Vehicle passing over a loop).

4-Pin Non-Removable Terminal See pages 16 and 17.
6-Pin UL 325 Removable Terminal and 4 DIP-Switches
See pages 12, 18.

Dry Relay Contact
Operation of the circuit board dry relay contact is dependent on setting of SW 1, switches 7 and 8. See switch-settings on next page.
Terminals 10-11 can be set for Normally Open (NO) or Normally Closed (NC) operation by placing the relay shorting bar on the N.O. or N.C. pins respectively.

Inherent Reverse Sensor
Adjust reversing sensitivity for the open AND close direction of the operator. Secondary adjustment is NOT used. See page 23.

Plugs
MUST be plugged in.
3.2 DIP-Switch Descriptions and Functions

The two DIP-switches located on the circuit board are used to program the operator to operate in various modes and to turn on or off various operating features. Whenever a switch setting is changed, power to the operator must be turned OFF and then turned back on for the new setting to take affect. Check and review ALL switch settings prior to applying power to the operator.

### SW 1 (Top 8 Switches)

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Opening Direction</td>
<td><strong>MUST</strong> be in <strong>ON</strong> Position.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Exit Loop Port Output</td>
<td><strong>OFF</strong></td>
<td>The output wired to terminal #4 becomes the output from the exit loop detector plugged into the EXIT Loop port.</td>
</tr>
<tr>
<td>3</td>
<td>Full Open Input</td>
<td><strong>ON</strong></td>
<td><strong>Normal Setting.</strong> Terminal #4 is a normal full open input.</td>
</tr>
<tr>
<td>4</td>
<td>Auto-Close Timer</td>
<td><strong>OFF</strong></td>
<td><strong>Normal Setting.</strong> Auto-close timer is OFF. Manual input required to close gate/door.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ON</strong></td>
<td><strong>Normal Setting.</strong> Auto-close timer is ON. Adjustable from 1-23 seconds.</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td><strong>OFF</strong></td>
<td>Leave in <strong>OFF</strong> Position.</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td><strong>OFF</strong></td>
<td>Leave in <strong>OFF</strong> Position.</td>
</tr>
<tr>
<td>7 and 8</td>
<td>Circuit Board Relay</td>
<td>7-OFF 8-OFF</td>
<td><strong>Normal Setting.</strong> Relay activates when gate/door is at open limit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7-OFF 8-ON</td>
<td>Relay activates when gate/door is not closed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7-ON 8-OFF</td>
<td>Relay activates when gate/door is opening and open.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7-ON 8-ON</td>
<td>Relay activates during opening and closing cycle.</td>
</tr>
</tbody>
</table>

**Switch 1** Must **OPEN** upon initial AC power up and open command. Set to **ON** Position.

**Switch 2** Leave in **OFF** position.

**Switch 3** Determines that a device wired to terminal #4 is a normal full open command **OR** terminal #4 becomes the output from the exit loop detector that is plugged into the EXIT Loop port in the circuit board (Used for specialized functions).

**Switch 4** Turns the auto-close timer on or off. Maximum time that the close timer can be set for is approximately 23 seconds.

**Switch 5** Leave in **OFF** position.

**Switch 6** Leave in **OFF** position.

**Switches 7-8** These work in conjunction with each other and determine when the relay on the board will be activated. This relay can be used as a switch for various functions such as illuminating a warning light when the gate/door is moving, or turning on a green light when the gate/door is full open.

### SW 2 (Bottom 4 Switches)

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OFF</td>
<td></td>
<td>Leave in <strong>OFF</strong> Position.</td>
</tr>
<tr>
<td>2</td>
<td>Magnetic lock</td>
<td><strong>OFF</strong></td>
<td><strong>Normal Setting.</strong> Magnetic lock is not used.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ON</strong></td>
<td>Magnetic lock is used and connected to terminals 9 and 13. See page 17 for wiring.</td>
</tr>
<tr>
<td>3</td>
<td>ON</td>
<td></td>
<td>Switch 3 <strong>MUST</strong> be in <strong>ON</strong> Position.</td>
</tr>
<tr>
<td>4</td>
<td>OFF</td>
<td></td>
<td>Switch 4 <strong>MUST</strong> be turned <strong>OFF</strong> for Model 1175 operator.</td>
</tr>
</tbody>
</table>

**Switch 1** Leave in **OFF** position.

**Switch 2** If a magnetic lock is not used with the gate/door operator, leave this switch in the **OFF** position. Turn this switch **ON** if a magnetic lock is used and connected to terminals 9 and 13. This applies magnetic lock power and logic to these terminals (NC).

**Switch 3** **MUST** be in **ON** position.

**Switch 4** **MUST** be turned **OFF** for the Model 1175.
3.3 Limit Switch Adjustments

**Basic DIP Settings**
- Start-up direction **MUST** be **ON**.
  - SW 1, switch 1.
- SW 1, switch 3 should be **ON**.
- Auto close timer (when turned on) SW 1, switch 4.
- SW 2, switch 3 **MUST** be **ON**.
- SW 2, switch 4 **MUST** be **OFF**.

**Setting Auto Close Timer**
Adjust from 1 second (full counter clockwise) to approximately 23 seconds (full clockwise).
- Turn power off.
- Push and hold locking plate tab.
- Adjust limit nuts at full open and full close gate/door positions.
- Release locking plate tab to secure limit nuts.
- Turn power on. Cycle gate/door and check positions.
- Re-adjust if necessary.

---

**Installation of ONE EXTERNAL entrapment protection MONITORED device MUST be installed in the DOWN direction or operator WILL NOT function.**
3.4 Inherent Reverse Sensor Adjustment

This vehicular gate/door operator is equipped with an inherent (Type A) entrapment sensing system. This system will sense an obstruction in either the opening or closing gate/door cycles and will cause the gate/door to reverse direction should an obstruction be encountered. For this system to function correctly, the gate/door must be properly installed and work freely in both directions.

1. After the limit nuts have been adjusted, activate the gate/door operator by pushing “Push to Operate” button.

2. While the gate/door is OPENING, slowly rotate the PRIMARY reverse sensor clockwise until the gate/door stops and the LED will light up, then rotate the sensor 1/8 turn counter-clockwise. After the gate/door has stopped, push “Push to Operate” button again to continue the open cycle of the gate/door. Auto close timer (if ON, SW1, switch 4) will then close the gate/door, completing the gate/door's open/close cycle.

Note: Secondary reverse sensor is NOT used.

Note: Clockwise INCREASES the reverse sensitivity. Counter-clockwise DECREASES the reverse sensitivity.

3. While the gate/door is CLOSING, slowly rotate the PRIMARY reverse sensor clockwise until the gate/door stops and the LED will light up, then rotate the sensor 1/8 turn counter-clockwise. The gate/door will automatically reverse direction and open. Auto close timer (if ON, SW1, switch 4) will then close the gate/door, completing the gate/door's open/close cycle.

Note: You may have to repeat these steps a few times to get the gate/door to completely cycle open and closed.

Test Reverse Sensors

1. Place an immobile object along the path of the gate/door so that the gate/door strikes it while opening. Gate/door must STOP! Re-adjust Open sensor if necessary.

2. Place an immobile object along the path of the gate/door so that the gate/door strikes it while closing. Gate/door must REVERSE direction and open! Re-adjust Close sensor if necessary.

Note: If alarm sounds while performing these tests, press alarm reset button to shut off alarm.
SECTION 4 - OPERATING INSTRUCTIONS

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/door controls. Keep the remote control away from children.
3. Always keep people and objects away from gate/door. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE/DOOR.
4. Test the operator monthly. The gate/door MUST reverse on contact with a rigid object or stop or reverse when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate/door operator. Failure to adjust and retest the gate/door operator properly can increase the risk of injury or death.
5. Use the emergency release only when the gate/door is not moving and power has been shut-off.
6. KEEP GATE/DOOR PROPERLY MAINTAINED. Read the owner’s manual. Have a qualified service person make repairs to gate/door hardware.
7. The entrance is for vehicles only. Pedestrians must use separate entrance.
8. SAVE THESE INSTRUCTIONS.

4.1 Power Switch and Alarm Reset Switch

AC Power Switch - Powers the operator ON (toggle up) or OFF (toggle down).

Alarm Siren

Alarm Reset Switch - Used to turn off the entrapment alarm and to reset the operator after a hard shutdown has occurred.
4.2 Shutdown Conditions

Under various entrapment conditions the operator will assume either a soft or hard (alarm) shutdown. To determine what type of reset action is required, you will need to understand how the different entrapment conditions affect the gate/door operator.

Soft Shutdown

This occurs in various situations where the inherent or entrapment protection devices have been activated. In a soft shutdown condition, the operator will not respond to any input that was present when the entrapment protection device sensed an obstruction. If the gate/door stops at the open position, the operator will not respond to the automatic close timer.

- **Example 1** - A time clock keys the gate/door open in the morning and an entrapment protection device senses an obstruction prior to the gate/door reaching the full open position. If the entrapment is sensed by the inherent system, the gate/door will reverse and run back to the closed position. The time clock input is still present, but the gate/door will not re-open.

**Note:** In some systems, the time clock input comes from the telephone entry system relay. This same relay may also provide open commands for a card reader, MicroPLUS transmitters and the visitor telephone entry. If so, these devices will also be disabled in a soft shutdown condition.

- **Example 2** - If the gate/door is closing and an entrapment protection device is activated, the gate/door will either stop or reverse and run back to the open position, depending upon if the external or inherent device was activated. The automatic close timer will not close the gate/door.

- **Example 3** - Vehicle arrives at open loop and gate/door runs towards the open position. The inherent entrapment protection is activated. The gate/door reverses and runs back to the closed position. If the vehicle is still present at the open loop a soft shutdown condition does not occur. The loop input provides an immediate reset of the operator and the gate/door will again run to the open position.

Resetting a Soft Shutdown

In some conditions, a soft shutdown will reset as soon as the entrapment condition clears. For example, if a non-contact sensor (photo sensor) is sensing an obstruction, the operator will stop the gate/door and assume a soft shutdown condition. When the photocell clears, the operator will return to normal operation.

When the operator is in a soft shutdown, activation of any “intended input” will reset the operator. An “intended input” includes any command, any standard safety input and any loop input. Activating any of these inputs will reset the gate/door. At that point the gate/door will return to normal operation. If the gate/door is open, the automatic close timer will then time out and close the gate/door.

Hard Shutdown (Alarm Activated)

A hard shutdown condition occurs when the inherent entrapment protection system has sensed **TWO** consecutive obstructions before the **closing** gate/door reaches the closed position.

- **Example** - The gate/door is closing and the inherent entrapment protection system senses an obstruction and causes the gate/door to reverse direction. As the gate/door begins to run in the open direction, a second obstruction is sensed prior to the gate/door reaching the full open position. Once the second obstruction has been sensed, the operator will stop, the audio alarm will be activated and all standard inputs are shut down (including open commands, safety commands, loop inputs, etc.).

The audio alarm will sound for five minutes, or until the operator’s reset button is pushed. After (5) five minutes the alarm will “chirp every 5 sec.” and the hard shutdown condition will remain in affect until the reset button is pushed.

- After 5 minutes, the audio alarm will “chirp” every 5 seconds. This indicates that the operator is in a hard shutdown condition and the reset switch must be activated to reset the operator and silence the alarm.

Continued on the next page
Resetting a Hard Shutdown

When the operator is in a hard shutdown condition (audio alarm activated or audio alarm “chirps” every 5 seconds), the only way to reset the gate/door operator and return it to normal operation is to activate the alarm reset input (auxiliary terminals 2 and 3). An alarm-reset switch can be mounted external of the gate/door operator provided that it is installed in the line of sight of the gate/door and gate/door operator.

- Before resetting a hard shutdown, determine why the shutdown occurred. Inspect the gate/door for any obstructions along its path that could have activated the inherent entrapment sensing system. Inspect the gate/door and gate/door hardware.

NOTE: DoorKing operators have a built-in alarm reset push button mounted on the operator above the power ON-OFF toggle switch. Activating this button will return the gate/door operator to normal operation, **but will not activate the gate/door operator.**

Once the gate/door has been reset, an open or close command is needed to start the gate/door operator. Most activating commands will cause the gate/door operator to cycle to the open position. This includes activation of a key switch or open command and activation of the automatic exit loop. Activation of a close command will run the gate/door to the closed position.

4.3 Manual Gate/Door Operation

This operator is equipped with a manual release system that will allow the gate/door to be pushed open in the event of a power outage or equipment failure.

**This gate/door operator CAN NOT be manually forced open in the event of a power failure without FIRST manually releasing the gate/door! (See next page)**

**Never attempt to manually push open any gate/door with an operator attached to it until you have verified that power to the operator has been shut-off.**

Emergency Vehicle Access Conditions

The automatic vehicular gate/door system must be designed to allow access to emergency vehicles under different operating conditions.

1. **During normal powered operation**, emergency vehicles access the gate/door by use of the **Emergency Vehicle Access Device** installed on your gate/door system. The type of device that is used in your community is dependent on your city codes. These devices may include (but are not limited to) Fire Department lock boxes, Click-2-Enter radio receivers, strobe light sensors, siren sensors, etc.

2. **In the event of a primary (AC) power failure**, the system must have a release system to allow the gate/door to be **Manually Operated** (See next page).
Manual Release

1 Unlock

2 Pull Ring Down and Turn
   Gate/door can now be manually operated

Never attempt to manually open any gate/door with an operator attached to it until you have verified that power to the operator has been shut-off.

IMPORTANT:
The carriage assembly’s spring loaded chain catch will ONLY lock into place in the DOUBLE MASTER CHAIN LINK.
SECTION 5 - TECHNICAL INSTRUCTIONS

Inspection and service of this gate/door operator by a qualified technician should be performed anytime a malfunction is observed or suspected. High cycle usage may require more frequent service checks.

5.1 Maintenance

When servicing the gate/door operator, always check any external reversing devices (loops, photocells, etc.) for proper operation. If external reversing devices cannot be made operable, do not place this operator in service until the malfunction can be identified and corrected.

Always check the inherent reversing system when performing any maintenance. If the inherent reversing system cannot be made operable, remove this operator from service until the cause of the malfunction is identified and corrected. Keeping this operator in service when the inherent reversing system is malfunctioning creates a hazard for persons which can result in serious injury or death should they become entrapped by the gate/door.

When servicing the gate/door operator, be sure that the AC input power is disconnected.

<table>
<thead>
<tr>
<th>Operator Component</th>
<th>Maintenance</th>
<th>Monthly Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning Signs</td>
<td>Check that warning signs are on BOTH sides of the gate area.</td>
<td>✓</td>
</tr>
<tr>
<td>Chain</td>
<td>Check for sagging, chain must not rub against steel rail separators. Tighten if necessary. Grease chain if necessary.</td>
<td>✓</td>
</tr>
<tr>
<td>Fire Dept.</td>
<td>Check emergency vehicle access device for proper operation.</td>
<td>✓</td>
</tr>
<tr>
<td>Gate/Door</td>
<td>Inspect for damage. Check gate/door hinges for wear and grease if necessary.</td>
<td>✓</td>
</tr>
<tr>
<td>Loop(s)</td>
<td>Check vehicular reverse and exit loops for proper operation.</td>
<td>✓</td>
</tr>
<tr>
<td>Gearbox Oil</td>
<td>Check oil level, should be at fill mark. Fill if necessary. Use Mobil SHC-629 synthetic gear oil or equivalent.</td>
<td>✓</td>
</tr>
<tr>
<td>Primary Reverse System</td>
<td>Check that the gate/door reverses on contact with an object in both the opening and closing cycles. Adjust the reversing sensors if necessary. See page 35.</td>
<td>✓</td>
</tr>
<tr>
<td>Release</td>
<td>Check manual release for proper operation. See page 34.</td>
<td>✓</td>
</tr>
<tr>
<td>External Reverse Device</td>
<td>Check external reverse device(s) stop or reverse the gate/door when activated. See page 35.</td>
<td>✓</td>
</tr>
<tr>
<td>Complete System</td>
<td>Complete check of gate/door and gate/door operating system.</td>
<td>✓</td>
</tr>
</tbody>
</table>

5.2 Diagnostics Check

Have the following diagnostic tools available: VOM meter with minimum voltage memory or min-max range to check voltage and continuity. Meg-ohm meter capable of checking up to 500 megohms of resistance to properly check ground loop integrity. A malfunction can be isolated to one of the following:

- Gate/Door Operator
- Loop System
- External Keying Devices

Use caution when checking high voltage areas: high voltage input terminal and the main terminals 17 through 19, the motor capacitor and the motor.

Check the input indicator LEDs. They should only come ON when an external keying device (card reader, push button, etc.) is activated. If any of the input LEDs are ON continuously, the gate/door will not operate. Disconnect the external keying devices one at a time until the LED goes OFF.
A malfunction in a loop or loop detector can cause the gate/door operator to hold open, or not detect a vehicle when it is present over the loop. Pull the loop detector circuit boards from the loop ports on the operator circuit board. If the malfunction persists, the problem is not with the loop system. For more information refer to the loop detector instruction sheet and the DoorKing Loop and Loop Detector Information Manual.

Check to be sure that there are no shorted or open control wires from the external keying devices to the gate/door operator. If a external keying device fails to operate the gate/door, momentarily jumper across terminals 6 and 14 on the operator circuit board. If the gate/door operates, this indicates that a problem exist with the external keying device and is not with the operator.

Check the high voltage supply. A voltage drop on the supply line (usually caused by using too small supply voltage wires) will cause the operator to malfunction. Refer to the wire size chart on page 15.

### 5.3 Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
</table>
| Operator will not run – power LED is OFF.   | • Check that power to the operator is turned ON.  
• Transformer may be overheated. Turn power off and allow board to cool for several minutes then retest. Check for low 120 VAC power and low voltage shorts.  
• Check for 120 VAC at terminals 18 and 19. If voltage measures 0, check power. If voltage measures OK, check the terminal strip or replace the circuit board. |
| Operator will not run – power LED is ON.    | • Insure that a minimum of one (1) external entrapment protection device is connected in the DOWN direction of gate/door travel and the input is connected and enabled (UL 325 DIP-switch is turned ON).  
• If a photocell is used as external entrapment prevention device, check to be sure that the beam is not blocked.  
• Momentarily jumper terminal 1 to terminal 6 or press “Push to Operate” button. If the input LED does not come ON, check the terminal strip or replace the circuit board. If LED does come ON, proceed to next steps.  
• Be sure that the chain is not too tight. A too tight chain may cause the operator to stall.  
• Turn power switch OFF and remove the control board.  
• Place a jumper wire from terminal 19 to terminal 18. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run. Turn the power switch off and remove the jumper.  
• Place a jumper wire from terminal 19 to terminal 17. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run in the opposite direction. Turn the power switch off and remove the jumper.  
• If the motor runs in both steps above, replace the control board. If the motor does not run, or runs in only one direction, problem can be a bad motor, motor capacitor, wire connections from the control board to the motor or a bad control board. |
| Gate/door opens a short distance, stops and reverses. | • Disconnect the gate/door from the gate/door operator and check that the gate/door moves freely without any binding.  
• Re-adjust the open reverse sensitivity.  
• Replace the circuit board. |
| Gate/door opens but will not close.           | • Check the input LEDs. Any ON will hold the gate/door open and indicates a problem with a external keying device.  
• Check the external safety devices. Any that are activated will hold the gate/door open and indicates a problem with the safety device.  
• Check the loop detectors. Any that are activated can hold the gate/door open and indicates a problem with the loop detector or in-ground loop.  
• SW-2, switch 3 may be set incorrectly. Be sure that this switch is in the ON position for overhead gate/door operation. Activate any external keying device to determine if operator returns to normal operation.  
• If automatic close timer is desired, be sure SW-1, switch 4 is ON.  
• Check motor:  
  Place a jumper wire from terminal 19 to terminal 18. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run. Turn the power switch off and remove the jumper.  
  Place a jumper wire from terminal 19 to terminal 17. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run in the opposite direction. Turn the power switch off and remove the jumper.  
  If the motor runs in both steps from previous page, replace the control board. If the motor does not run, or runs in only one direction, problem can be a bad motor, motor capacitor, wire connections from the control board to the motor or a bad control board. |

Operator will not run – power LED is OFF.
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Solution(s)</th>
</tr>
</thead>
</table>
| Gate/door closes but will not open.         | • SW-2, switch 3 may be set incorrectly. Be sure that this switch is in the ON position for overhead gate/door operation. Activate any keying device to determine if operator returns to normal operation.  
• Check to be sure that the operator is running in the proper direction. Turn power OFF, and then back ON. Activate an external keying device. Operator should run in the open direction. If operator runs in the close direction, turn power OFF and change direction switch SW-1, switch 1 MUST be **ON**. Go to the previous symptom if operator now opens but will not close.  
• Be sure that the respective LED on the control board lights when the external keying device connected to the respective terminal is activated. If LED does not light, momentarily place a jumper wire from terminal 1 to the input terminal being checked. If LED lights and gate/door opens, problem is with the external keying device. If LED does not light, replace control board.  
• Check motor:  
  Place a jumper wire from terminal 19 to terminal 18. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run. Turn the power switch off and remove the jumper.  
  Place a jumper wire from terminal 19 to terminal 17. **CAUTION – HIGH VOLTAGE.** Turn the power switch on. The motor should run in the opposite direction. Turn the power switch off and remove the jumper.  
  If the motor runs in both steps above, replace the control board. If the motor does not run, or runs in only one direction, problem can be a bad motor, motor capacitor, wire connections from the control board to the motor or a bad control board. |
| Gate/door starts to close, then reverses to open. | • Re-adjust the close reverse sensitivity.  
• Disconnect the gate/door from the operator and check that the gate/door operates freely without any binding.  
• Check the loop detector LEDs and input LEDs. Any that flash ON will cause the gate/door to reverse.  
• Replace the circuit board. |
| Gate/door closes and then re-opens.         | • Check for any input or loop detector LEDs that are ON.  
• Check that the operator is running in the proper direction, switch SW-1, switch 1 MUST be ON. |
| Loop detector LED is ON continuously.       | • Activate the RESET switch on the loop detector.  
• Decrease loop detector sensitivity.  
• Check loop wire for resistance to ground with a meg-ohm meter. Should be 100 megohms or higher. If less, problem may be with loop wire.  
• Be sure that lead-in wire from loop is twisted.  
• Be sure that all loop connections are soldered.  
• Replace loop detector. |
| Loop detector LED never activates.          | • Increase loop detector sensitivity.  
• Check continuity of loop wire. Should be 0 ohms. If continuity check indicates greater than 0 ohms, check all connections or replace loop wire.  
• Move loop detector board to the other loop detector port on the control board, then check loop operation. If loop detector still fails, replace loop board with a known good one. If problem continues, ground loop may be too small to detect vehicles – replace ground loop. |
| Loop detectors do not open or reverse gate/door. | • If loop detector LED illuminates when vehicle crosses over, problem may be in loop detector board. Replace with a known good detector and re-check. If problem continues, control board may be bad.  
• If loop detector LED does not illuminate, see above symptom. |
| Operator has intermittent functionality problems that vary. | • The main terminal #3 250 mA power has been exceeded. Check total amp draw of connected device(s). |
5.4 Accessories

UL 325 Monitored Entrapment Protection Devices available for the model 1175 commercial overhead gate/door operator.

**Type B2 Contact Sensors (Reversing Edge)**
- Miller Edge Sensing Edges - all models with a T2 (resistive) termination.
- Miller Edge wireless monitored transmitter/receiver kit model RB-G-K10
- ASO GMBH Sentir GF Series sensing edges

**Type B1 Non-contact Sensors (Photo Cell)**
- Miller Edge Reflective-Guard Model RG
- Miller Edge Prime-Guard Model PG
- EMX Industries Model IRB-MON
- EMX Industries Model IRB-RET
- Omron Model E3K-R10K4
- Seco-Larm Model E-936-S45RRGQ
- Seco-Larm Model E-960-D90GQ

**Monitored Expansion Kit**
- Miller Edge Multi-Input Module Model MIM-62

Accessory items available for the model 1175 commercial overhead gate/door operator.

**Plug-In Loop Detector** - Detectors plug directly into ports on circuit board simplifying wiring.
- Single channel detector - P/N 9410-010
- Dual channel detector - P/N 9409-010
- Single channel detector with aux relay - P/N 9411-010
- Single channel low power draw detector - P/N 9416-010
- Dual channel low power draw detector - P/N 9415-010

**External Loop Detector**
- Reno A&E 12/24 VDC or 24 VAC - 9402-045
- Reno A&E 120 VAC - 9402-047
- Carlo Gavazzi 24 VAC/VDC - 9402-044
- Diablo 10-30 VAC/VDC low power draw - 9402-050

**Loop Wire** - 18 AWG loop wire with XLPE insulation is ideal for ground loops. Available in 500 and 1000 foot rolls with red, blue or black insulation.

**Pre-Fab Loops** - Prefabricated ground loops. 24-foot circumference with 50-foot lead-in. Available in yellow, red or blue jackets. Not for use in asphalt roadways.

**Time Clock** - 7 day time clock can be used to automatically open gate at pre-set time and days. Compact clock fits inside the operator.
- P/N 2600-791 - 7 day clock

**Surge Devices** - High and low voltage surge suppressors help prevent circuit board failure caused by lightning strikes and power surges.
- P/N 1879-010 - High Voltage
- P/N 1878-010 - Low Voltage

**Speed Bumps** - Prefabricated six-foot speed bump reduces traffic speed through gate/door system. P/N 1610-150

**Model 1175 Protective Cover** - Prefabricated plastic cover to protect operator components. P/N 1175-020
SECTION 6 - OWNER OF THE GATE/DOOR OPERATOR

6.1 Alarm Sounding and Gate/Door WILL NOT Operate

When alarm is sounding...

ALWAYS CHECK GATE/DOOR AREA FOR ANY OBSTRUCTIONS FIRST.

If the cause of the alarm cannot be corrected, shut-off power and DO NOT place this operator back into service until the malfunction can be identified and CORRECTED.

IMPORTANT: Putting this gate/door operator back into service without CORRECTING the cause of the alarm could result in serious injury or DEATH!

Gate/Door Operator is in a Hard Shutdown Condition when Alarm is Sounding

This occurs when:
1. The inherent entrapment protection system (Type A) gets activated TWO consecutive times before the gate/door completes the open or close cycle.
2. The reversing edge contact sensor (Type B2) gets activated and reverses but before the gate/door completes the reverse cycle the inherent entrapment protection system (Type A) gets activated.

The audio alarm will sound for five minutes, or until the operator’s reset button is pushed. After (5) five minutes the alarm will “chirp every 5 sec.” and the hard shutdown condition will remain in affect until the reset button is pushed.

Please read SECTION 4 - OPERATING INSTRUCTIONS for more information about operating this gate/door operator.
6.2 Manual Gate/Door Operation

Caution: NEVER attempt to manually operate the gate/door until you have VERIFIED that power to the gate/door operator has been SHUT-OFF!

Note: The owner of the gate/door operator is responsible for the KEY availability.

1 Unlock

2 Pull Ring Down and Turn
Gate/door can now be manually operated

IMPORTANT:
The carriage assembly’s spring loaded chain catch will ONLY lock into place in the DOUBLE MASTER CHAIN LINK.

Please read SECTION 4 - OPERATING INSTRUCTIONS for more information about operating this gate/door operator.
7.3 Gate/Door Operator’s Monthly Checkup

**Caution:** Make SURE gate/door area is clear BEFORE testing the gate/door operator!

DO NOT repair or adjust gate/door systems yourself. Contact a trained gate/door systems technician with any questions or to make any repairs or adjustments. If you feel uncomfortable performing any of these inspections or testing, a qualified service technician will perform the visual inspections and testing for you.

You can find a trained service technician at DoorKing’s “Dealer Locator” at www.doorking.com

### Visual Inspection

Visually inspect the rollers, fasteners, brackets, chain and other gate/door hardware for proper alignment, proper tightness, and signs of damage, breakage, looseness, rust or wear. Moving parts should be lubricated and should not be squeaking. Visually inspect wiring for fraying or exposure. If a malfunction is found, contact a trained service technician to make adjustments or repairs.

### Test Built-In Reversing Sensor

Begin with the gate/door in the fully OPEN position. Stand just outside the path of the gate/door and close the gate/door (typically auto-timer will time-out and close gate/door automatically). As the gate/door is closing, firmly press a solid object against the end of the gate/door frame in the direction opposing the travel of the gate/door. The gate/door should stop within 2 sec. and reverse to the OPEN position. Another input command is needed before the gate/door will reset and close again. Repeat this test while opening the gate/door. Start from the fully CLOSED position. While opening, gate/door should stop and reverse to the CLOSE position. If gate/door does NOT respond like it should in either direction of gate/door travel, contact a trained service technician to make adjustments or repairs.

### Test Photo Sensors

If the gate/door has a photo sensing device protecting the path of a closing gate/door, perform the following test. Begin with the gate/door in the fully OPEN position. Stand just outside the path of the gate/door and close the gate/door (typically auto-timer will time-out and close gate/door automatically). Pass an object across the path of the closing photo sensing beam. The gate/door should stop within 2 sec. and reverse to the OPEN position. Typically the auto-timer times out and gate/door closes again. If the gate/door has a photo sensing device protecting the path of an opening gate/door, start from the fully CLOSED position. OPEN gate/door. Pass an object across the path of the opening photo sensing beam. The gate/door should stop, the gate/door will resume opening when the beam is clear. If gate/door does NOT respond like it should in either direction of gate/door travel, contact a trained service technician to make adjustments or repairs.

### Test Reversing Edges

If the gate/door has a reversing edge(s) protecting the path of a closing gate/door, perform the following test. Begin with the gate/door in the fully OPEN position. Stand just outside the path of the gate/door and close the gate/door. As the gate/door is closing, firmly press a solid object against the reversing edge in the direction opposing the travel of the gate/door. The gate/door should stop within 2 sec. and reverse to the OPEN position (typically auto-timer will time-out and close gate/door automatically). If the gate/door encounters another obstruction before it is closed, the gate/door will stop and reverse to the OPEN position again. A input command is needed before the gate/door will reset and close again, auto-timer will NOT close gate/door (Typically, press your remote button for input command). If the gate/door has a reversing edge(s) protecting the path of an opening gate/door, starting from the fully CLOSED position. Stand just outside the path of the gate/door and open the gate/door. OPEN gate/door. As the gate/door is opening, firmly press a solid object against the reversing edge in the direction opposing the travel of the gate/door. Gate/door should stop and reverse to the CLOSE position. If gate/door does NOT respond like it should in either direction of gate/door travel, contact a trained service technician to make adjustments or repairs.

**Note:** This gate/door operator uses high levels of force to move the gate/door and most people underestimate the power of these systems and do not realize the potential hazards associated with this system if NOT maintained properly.

Scheduled maintenance visits are offered by most qualified service technicians to MAINTAIN your gate/door operator system.
When alarm is sounding...

ALWAYS CHECK GATE/DOOR AREA FOR ANY OBSTRUCTIONS FIRST.

The audio alarm will sound for five minutes, or until the operator's reset button is pushed. After (5) five minutes the alarm will "chirp every 5 sec." and the hard shutdown condition will remain in affect until the reset button is pushed.

Gate/Door Operator is in a Hard Shutdown Condition when Alarm is Sounding

This occurs when:
1. The inherent entrapment protection system (Type A) gets activated TWO consecutive times before the gate/door completes the reverse cycle
2. The reversing edge entrapment protection (Type B) gets activated and reverses the gate/door before the reversible conditions are met
3. The inherent and reversing edge entrapment protection (Type A) gets activated and reverses the gate/door before the gate/door completes the reverse cycle

If the cause of the alarm cannot be corrected, shut-off power and DO NOT place this operator back into service until the malfunction can be identified and CORRECTED.

IMPORTANT: Putting this gate/door operator back into service without CORRECTING the cause of the alarm could result in serious injury or DEATH!

ON
OFF
RESET BUTTON
Press to turn off the entrapment alarm and to reset the operator after a hard shutdown has occurred.

ON
OFF
Unlock
Pull Ring Down and Turn Gate/door can now be manually operated

ATTENTION: The carriage assembly's spring loaded chain catch will ONLY lock into place in the DOUBLE MASTER CHAIN LINK.

Manual Gate/Door Operation

Please read SECTION 4 - OPERATING INSTRUCTIONS for more information about operating this gate/door operator.

Caution:
NEVER attempt to manually operate the gate/door until you have VERIFIED that power to the gate/door operator has been SHUT-OFF.

When alarm is sounding...

NEVER attempt to manually operate the gate/door until you have

Alarm Sounding and Gate/door WILL NOT Operate

To obtain key to unlock gate/door operator contact:

Name
Phone #

Unlock
Gate/door operator contact: To obtain key to unlock gate/door operator

ATTENTION: NEVER attempt to manually operate this gate/door operator.
EXTERNAL ENTRAPMENT PROTECTION MUST be installed or the gate/door operator WILL NOT function.

THIS PRODUCT IS FOR INDOOR USE ONLY. Install in a protected area NOT exposed to weather.

THIS PRODUCT IS TO BE INSTALLED AND SERVICED BY A TRAINED GATE/DOOR SYSTEMS TECHNICIAN ONLY. Visit www.doorking.com/dealer-locator to find a professional installing and servicing dealer in your area.