**Quickstart “Basic” Guidelines for Model 9050 - Front Installation Mounted on a Concrete Pad**

Model 9050 is intended for installation only on sliding gates used for vehicles. Pedestrians must be supplied with a separate access opening. For safety and installation instructions, please refer to the Installation/Owner’s manual.

**Concrete Pad and Conduit Area**

- **Chain Adjustment**
  - Adjust the chain nuts to tighten the chain. The chain should sag no more than one (1) inch per 10 feet of chain travel.
  - The chain should not protrude past the gate frame.

- **DIP-Switches**
  - Switch 1 - Must OPEN the gate upon initial AC power up and open command. If the open command begins to close the gate, turn AC power off and reverse this switch. (See reverse side)
  - Switch 2 - Auto-Close Timer
  - Switch 3 - DELAY TIME
  - Switch 4 - Change 

- **Automatic Limits**
  - The operator’s open/close limits DO NOT have to be physically adjusted. Every time the operator is powered up, the first open command will automatically run “2 open/close gate cycles” that will locate and remember the gate’s open and close limit positions. These limit positions are determined by where the physical stops have been installed. It does not matter what position the gate is in before running this sequence. The gate will function normally after this automatic sequence has finished.
  - Note: Auto-close timer should be on before running this sequence.

- **Warning Signs**
  - Permanently mount signs on BOTH sides of the gate area and make sure they are easily visible.

- **Plug-In Loop Detectors**
  - Not included - Refer to the Installation/Owner’s manual and Loop Information Manual (available from www.doorking.com) for more information on loops and plug-in loop detectors.

- **Radio Receiver**
  - Not included - Refer to a specific Radio Receiver Manual (available from www.doorking.com) for more information on radio receivers and antenna installation. See reverse side for wiring.

**High Voltage Connection**

**Gate Operator Must Be Properly Grounded!!**

- **Tip:** It is recommended that a surge suppressor be installed on the high voltage power lines.

**Concrete Pad**

- **Physical Stops MUST be Used to Stop Gate**
  - Do NOT power up and cycle the operator without “Physical Stops” installed to stop the gate in the open and close positions (Chain stops are included with the operator but other physical stops can be used). Damage could occur to the gate and operator.
  - Chain stop’s rubber bumpers face toward operator. They will make contact with the operator housing during the initial automatic open/close limits setting sequence.

- **Pedestrian Access**
  - Pedestrians must be supplied with a separate access opening. For safety and installation instructions, please refer to the Installation/Owner’s manual.

**Plug-In Loop Detectors**

- **Not included - Refer to the Installation/Owner’s manual and Loop Information Manual (available from www.doorking.com) for more information on loops and plug-in loop detectors.**

**Radio Receiver**

- **Not included - Refer to a specific Radio Receiver Manual (available from www.doorking.com) for more information on radio receivers and antenna installation. See reverse side for wiring.**

**Anti-Grounding**

- **Solenoid**
  - Use exi

- **Chassis Ground**
  - Use (4) 3/8” x 2” sleeve anchors installed on the high voltage power lines.

**Important Note**

DoorKing highly recommends that loops and loop detectors are installed with this slide gate operator. A loop detection system will prevent the gate from opening or closing on a vehicle when it is in the gate’s path.

**Concrete Pad and Conduit Area**

- **Concrete Pad**
  - 21” Min.
  - 15” Min.
  - Minimum space between the gate and the operator housing

- **Conduit Area**
  - Min. 11”
  - 8.25” Min.
  - 2.5” Min.

- **High Voltage Connection**
  - High Voltage 115 VAC Connection
  - Chassis Ground
  - White - Neutral
  - Black - 115 VAC Hot
  - Green - Chassis Ground

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Every time the 9050 is powered up, the First open command will automatically run “2 open/close gate cycles” that will locate and remember the gate’s open and close limit positions. See “Automatic Open/Closed Limit Adjustment” in Installation/Owner’s manual for more information.
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**Radio Receiver**

- **Not included - Refer to a specific Radio Receiver Manual (available from www.doorking.com) for more information on radio receivers and antenna installation. See reverse side for wiring.**

**Entrainment Protection**

- **Entrainment Protection must be provided for the gate system where the risk of entrapment or obstruction exists. The operator will NOT run without one or more monitored type B1 or B2 external entrapment protection devices in EACH direction of gate travel (minimum of 2 external devices required). See manual for more information.**

**Operator and Chain MUST be parallel to gate!**

- **Chain bracket MUST align with idler wheels!**
Model 9050 is intended for installation only on sliding gates used for vehicles. Pedestrians must be supplied with a separate access opening. For safety and installation instructions, please refer to the Installation/Owner’s manual.

### DIP-Switches

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Changes the direction the operator will open/close the gate depending on the different chain configurations.</td>
<td>Front or Mount</td>
<td>Opening direction using OFF setting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Center or Post</td>
<td>Opening direction using ON setting.</td>
</tr>
<tr>
<td>2</td>
<td>Auto Close Timer</td>
<td>OFF</td>
<td>Auto-close timer is OFF. Manual input required to close gate.</td>
</tr>
<tr>
<td>3</td>
<td>Relay</td>
<td>OFF</td>
<td>Relay is activated when gate is full open.</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>ON</td>
<td>Relay is activated when gate is not closed.</td>
</tr>
<tr>
<td>4</td>
<td>Built-In Solenoid Lock</td>
<td>OFF</td>
<td>Normal Setting. Fail-Safe (Factory Set). Lock engages only when an attempt is made to manually force the gate open.</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>ON</td>
<td>Fail-Secure. Lock engages whenever the gate is in motion. CAUTION: Do not use this setting unless a separate power source is used.</td>
</tr>
<tr>
<td>5 and 6</td>
<td>Gate Open/Close Position</td>
<td>5-ON 6-OFF</td>
<td>Normal Setting. Gate fully opens.</td>
</tr>
<tr>
<td>5 and 6</td>
<td></td>
<td>5-OFF 6-ON</td>
<td>Gate stops short 1&quot; from full open position. Used for a reversing edge device.</td>
</tr>
<tr>
<td>5 and 6</td>
<td></td>
<td>5-ON 6-OFF</td>
<td>Gate stops short 2&quot; from full open position. Used for a reversing edge device.</td>
</tr>
<tr>
<td>5 and 6</td>
<td></td>
<td>7-ON 8-OFF</td>
<td>Gate stops short 3&quot; from full open position. Used for a reversing edge device.</td>
</tr>
<tr>
<td>7 and 8</td>
<td>Gate Open/Close Position</td>
<td>5-ON 6-ON</td>
<td>Normal Setting. Gate fully opens.</td>
</tr>
<tr>
<td>7 and 8</td>
<td></td>
<td>5-OFF 6-OFF</td>
<td>Gate stops short 1&quot; from full close position. Used for a reversing edge device.</td>
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<tr>
<td>7 and 8</td>
<td></td>
<td>7-OFF 8-OFF</td>
<td>Gate stops short 2&quot; from full close position. Used for a reversing edge device.</td>
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<td>Gate stops short 3&quot; from full close position. Used for a reversing edge device.</td>
</tr>
</tbody>
</table>

Note: After a DIP-switch setting is changed, power must be turned OFF and then turned back on for the new setting to take affect.

### External Entrapment Protection Devices

- **Normal Open (NO) Contacts**: These contacts are used to detect the presence of an object in the gate's path. The gate will stop if the beam is obstructed.
- **Normal Closed (NC) Contacts**: These contacts are used to detect the absence of an object in the gate's path. The gate will not stop if the beam is obstructed.

**Connect Only Monitored Devices**

- **UL 325 Terminal**: These terminals are used to connect monitored devices. Only one monitored device can be connected to each terminal.

**Important**: Photo sensors must use Normally Closed (NC) contacts with the beam set for light operate (relay activated when beam is not obstructed). Some manufacturer's photo sensor contacts are labeled as Normally Open (NO) but their relay functions are the same as described above. See specific manufacturer’s wiring manual for more information about their specific relay functions.