QUICKSTART “BASIC” GUIDELINES FOR MODEL 6500 - FOR GATES UP TO 22 FEET AND OPENING 90°

Model 6500 is intended for installation only on swing gates used for vehicles. Pedestrians must be supplied with a separate entry.

For safety and installation instructions, please refer to the Installation/Owner’s manual.

Concrete Pad
Concrete pad MUST be level.

Tip: Brief the edges of concrete pad to eliminate water puddling under the operator.

Concrete Depth
4” minimum above ground.

This depth of the concrete pad is determined by soil conditions and local building codes (reinforced concrete recommended).

Concrete Pad Length
28” Concrete Pad Length

Concrete Pad Width
22” Concrete Pad Width

Concrete Pad Thickness
4” minimum thickness

AC Power Connection
OPERATOR MUST BE PROPERLY GROUNDED!!

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

Limit Sensors
Magnetic sensor activator MUST be directly above the limit sensor to activate.

Manual Release Tool

DIP-Switches
1. Changes Gate Opening Direction (See reverse side)
2. OFF
3. OFF
4. OFF
5. OFF
6. OFF
7. OFF

Note: “Optional” High Voltage Kit black and white wires connect the same as shown. See High Voltage Kit Instruction sheet for more information.

Loop Detectors

Radio Receiver

Not included - Refer to www.doorking.com for more information on loops and loop detectors.

Underground Conduit and Chassis Location

Tip: Never run low voltage rated wire insulation in the same conduit as high voltage rated wire insulation. Keep them in separate conduits.

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For safety and installation instructions, please refer to the Installation/Owner's manual.

### SW 1 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>Primary 6500 Changes Gate Opening Direction</td>
<td>ON</td>
<td>Clockwise</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF</td>
<td>Counter-Clockwise</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Secondary 6500 Changes Gate Opening Direction</td>
<td>ON</td>
<td>Same as above, for secondary 6500 ONLY</td>
</tr>
</tbody>
</table>

### SW 2 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>Gate Overlap</td>
<td>OFF</td>
<td>Primary and secondary operators start at the same time (Normal setting for single gate operator).</td>
</tr>
<tr>
<td>2</td>
<td>Magnetic lock</td>
<td>OFF</td>
<td>Normal Setting. Magnetic lock is not used.</td>
</tr>
</tbody>
</table>

### 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.

- **SW 1**
  - **#1** Open N.O.
  - **#2** Close N.O.
  - **#3** Stop N.C.

#### Normally Closed Interlock Switch
- **Operator Stopped**
- **Lock Engaged**
- **N.O. Com**

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

### 20-Pin Main Terminal

#### Normal Setting:
- Power (24-Volt DC) and logic output. Power is shut off while gate is opening and in the open position.

#### Edge/Beam Inputs (DE Switch 3 & CE Switch 4) Note:
- Open/Close/Edge/Beam inputs will activate in EITHER direction of gate travel.
- Entrapment 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 entrapment protection devices in EACH entrapment area.

### Magnetic Lock
- Power (24-Volt DC) and logic output. Power is shut off 5 sec. prior to gate starting and remains off while gate is opening and in the open position.

### UL 325 Sensors

- **Open Beam**
- **Close Beam**

### UL 325 August 1998 Standard

- **High Voltage!**
- **Stand-Alone Keypad**
- **Stand-Alone Card Reader**
- **Telephone Entry**

### Stand-Alone Key Switch

- **Edge/Beam Inputs (DE Switch 3 & CE Switch 4)**
- **Open/Close/Edge/Beam inputs will activate in EITHER direction of gate travel.**

### 2-Wire Radio Receiver

- **Radio**

### Phone Sensors

- ** нормально (Normal) **
- ** обратно (Reverse)**

### Type of Wiring to be Used on ALL boards:

- **CL2**
- **CL2P**
- **CL2P-12**
- **CL2P-24**
- **CL2P-12**
- **CL2P-24**

### IMPORTANT:
- Plade sensors must use Normally Closed (NC) contacts with the relay type operate relay activated when beam is not obstructed. Some manufacturer's photo sensor contacts are labeled as Normally Open (NO) at their relay functions the same way as described above. See specific manufacturer's wiring manual for more information about their specific relay function.

### Contact Information:

- **DoorKing, Inc.**
  - 120 S. Glasgow Avenue
  - Inglewood, California 90301
  - U.S.A.

- **Phone Sensors**
  - (2) Two 115 VAC Convenience Outlets
  - Type of Wiring to be Used on ALL external devices:
    - (A) UL 325, UL 2057, UL 412, CL2 or CL2P
    - (B) Other cable with equivalent wire size and voltage rating.

- **Expansion Board (sold separately)**

- **Radio**

- **2-Wire Radio Receiver**

- **Stand-Alone Key Switch**

- **Stand-Alone Card Reader**

- **Telephone Entry**

### Note:
- 4405-018

### Magnetic Lock
- Power (24-Volt DC) and logic output. Power is shut off 5 sec. prior to gate starting and remains off while gate is opening and in the open position.

### IMPORTANT:
- Controls intended for stand-alone use must be located within 10 ft. of an emergency stop or be connected to a circuit that can be turned on and off (e.g., a wall switch, thermostat, or system controller) that stops the gate when the controls are turned off. Emergency access controls will be installed at the single and dual operator stations.

- **Pedestrians must be supplied with a separate access opening.**

- **Model 6500 is intended for installation only on swing gates used for vehicles.**

- **Secondary 6500**

- **Single Operator**

- **DIP-Switches**

- **Magnetic lock is not used.**

- **Auto-Close**

- **Direction**

- **Output**

- **Circuit Board**

- **Timer**

- **4-Pin Main Terminal**

- **2-Wire Radio Receiver**

- **Stand-Alone Keypad**

- **Stand-Alone Card Reader**

- **Telephone Entry**

- **Radio**

- **2-Wire Radio Receiver**

- **Stand-Alone Keypad**

- **Stand-Alone Card Reader**

- **Telephone Entry**

### Magnetic Lock
- Power (24-Volt DC) and logic output. Power is shut off 5 sec. prior to gate starting and remains off while gate is opening and in the open position.

### IMPORTANT:
- Controls intended for stand-alone use must be located within 10 ft. of an emergency stop or be connected to a circuit that can be turned on and off (e.g., a wall switch, thermostat, or system controller) that stops the gate when the controls are turned off. Emergency access controls will be installed at the single and dual operator stations.