Mount Control Box Cabinet

Position the control box on the wall, close enough to the gate operator so the primary operator cable can be easily routed inside the box. Use appropriate hardware (not supplied) in the existing 3 mounting holes to secure the cabinet to a vertical surface.

DO NOT drill any additional holes in the cabinet. Drilling produces metal filings, which can cause shorts on the circuit board and will void the warranty.

• Never run high voltage and low voltage wire insulation in the same conduit.

DoorKing offers an OPTIONAL mounting post kit (P/N 1000-045) when no vertical surface is available to mount the control box cabinet to.

Opening Devices

Controls must be far enough from the gate so the user is prevented from coming in contact with the gate while operating the controls. Do not connect any control devices to the circuit board terminal.

Circuit Board Settings

Typical Settings with Reverse and Exit Loops. See reverse side.

- 1. Primary Operator Open
- 2. Secondary Operator Open
- 3. Open
- 4. Close
- 5. Standard Reverse
- 6. Overlapping Gates
- 7. Single/Dual Operators
- 8. ON

Adjust 1 to 23 sec.

Low Current Draw External Loop Detectors

See the specific loop detector instruction sheet for more information (P/N 1476-010).

24 Volt Solar Panel

Keep sunlight OFF solar panel while connecting to prevent electric shock.

Solar Pos. (White Wire)
Solar Neg. (Black Wire)
Solar panel should face true south in unobstructed sunlight.

Loop Detectors

DO NOT power up and cycle the gate operator before the limit sensors and DIP-switches have been adjusted, damage could occur to gate and operator.

24 Volt 35 Amp/Hr batteries: (P/N 2000-076).
18 Amp/Hr batteries: (P/N 2000-077).

Keep sunlight OFF solar panel while connecting to prevent electric shock.

Solar Power Terminals

Two 12 Volt Batteries

DoorKing recommends: 12 Volt 16 Amp/Hr batteries: Use for applications with normal usage (60 cycles per day or less).
12 Volt 35 Amp/Hr batteries: Use for applications with higher usage (60 cycles per day or more).

Battery Wiring Notes:
Use ONLY 12 Volt batteries. Batteries are wired in series.

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QUICKSTART “BASIC” GUIDELINES FOR SOLAR CONTROL BOX FOR 6003, 6004, 6006 OR 6400

UL 325 August 2018 Standard

120 S. Glasgow Avenue
Inglewood, California 90301
U.S.A.

External Entrapment Protection Devices

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.

- LED ON: Connected device has been activated. LED remains off during normal operation.
- LED Flashing: Connected device is in fault. Wiring is suspect.

Only 1 Device can be wired to each input. An OPTIONAL Expansion Kit (sold separately) will allow connection for additional devices.
### SW 1 DIP-Switches

**Opening Direction of PRIMARY Operator**

The operator MUST OPEN GATE upon initial power up and OPEN command. If the operator closes gate after giving open command, shut off power and reverse this switch setting otherwise operator will NOT function correctly.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 1</td>
<td>ON</td>
<td>OFF</td>
<td>On setting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OFF setting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Push to Open</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pull to Open</td>
</tr>
</tbody>
</table>

**Switch Function Setting Description**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Input Power</td>
</tr>
<tr>
<td>OFF</td>
<td>Switch MUST be in the ON position.</td>
</tr>
</tbody>
</table>

**6003 ONLY**

- Left-Side
  - OFF setting, Open
  - ON setting, Open as Shown
- Right-Side
  - OFF setting, Open
  - ON setting, Open as Shown

**6004 ONLY**

- Left-Side
  - OFF setting, Open
  - ON setting, Open as Shown
- Right-Side
  - OFF setting, Open
  - ON setting, Open as Shown

**6006 ONLY**

- Left-Side
  - OFF setting, Open
  - ON setting, Open as Shown
- Right-Side
  - OFF setting, Open
  - ON setting, Open as Shown

### SW 2 DIP-Switches

**Reset**

Whenever any programming or switch setting on the control board is changed, press the reset button for new settings to take effect.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 and 2</td>
<td>Relay Operation</td>
<td>1-OFF 2-ON</td>
<td>Circuit board relay activates when the gate is NOT closed.</td>
</tr>
<tr>
<td>3</td>
<td>Maglock</td>
<td>OFF</td>
<td>NO maglock is used.</td>
</tr>
<tr>
<td>4</td>
<td>Spare</td>
<td>OFF</td>
<td>Leave in the OFF position.</td>
</tr>
</tbody>
</table>

**Gate Operator(s) Connection**

- **Choose Your Operator Model:** Follow wiring colors for the PRIMARY/Single or DUAL gate operators. If factory wired jumpers are installed on operator terminals, they must be removed or operators will NOT function.

### 6400 Wiring

- Primary/Single operator wiring
  - Brown wire
  - Blue wire
  - Orange wire
  - Red wire
  - Yellow wire
  - Green wire
  - Green/Yellow wire
  - NOT USED

- Secondary operator wiring
  - Brown wire
  - Blue wire
  - Orange wire
  - Red wire
  - Yellow wire
  - Green wire
  - Green/Yellow wire
  - NOT USED

**Discontinued 6005**

Operator Wiring ONLY:

- Jumper MUST be on operator terminals so 6005 will NOT function.

**6005 7-Wire Operator Actuator Cable**

- Red & Green Wires are Terminated.

**6000 Primary/Single operator wiring**

- Brown wire
  - Blue wire
  - Orange wire
  - Red wire
  - Yellow wire
  - Green wire
  - Green/Yellow wire
  - NOT USED

**6000 Secondary operator wiring**

- Brown wire
  - Blue wire
  - Orange wire
  - Red wire
  - Yellow wire
  - Green wire
  - Green/Yellow wire
  - NOT USED

Note: Secondary operator MOTOR wires MUST be reversed from the primary operator when using DUAL gate operators.