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 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.

Circuit Board Settings

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

4. ON: Switch 1 Must be ON.
5. OFF - Standard Reverse
6. Overlapping Gates
7. Open/Closed
8. POWER LOOP
9. Battery Switch

Safety Opening Device

Adjust 1 to 23 sec.

SW1, Switch 1 & 2: Note: See reverse side for your specific operator switch settings.

1. Direction Primary operator opens.
3. Open Input
4. Off - Auto-Close Timer
5. Closed-Gate
6. Power 1-24V (depending on mounting location)
7. Safe-T-Edge
8. OVERLAPPING GATES
9. SHORTS on the circuit board and in the cabinet. Drilling produces secure the cabinet to a vertical hardware (not supplied) in the box.

Switch 5

SW 1
SW 2

Low Current Draw External Loop Detectors

See the specific loop detector instruction sheet for more information (P/N 9402-050).

Use existing screws to mount detector(s) in mounting position or open

Solar Power Terminals

24 Volt 20 Watt Solar Panel for operator so the primary operator wall,
in the same conduit.

SW 1
SW 2

DoorKing Photo Sensor 8080-057

Inclusive, see “UL 325 Terminal” section

Warning: Connect to circuit board terminal. Do not connect any control devices to the circuit board terminal.

Use 18 AWG minimum.

Open 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.

Solar Control Box Requirements:

- (1) 24 Volt 10 Watt Solar Panel for 18 Amp/Hr Batteries (P/N 2000-076)
- (1) 24 Volt 20 Watt Solar Panel for 35 Amp/Hr Batteries (P/N 2000-078)

DO NOT connect 12 Volt solar panel. Damage WILL occur!

Two 12 Volt Batteries

DoorKing Recommends:
12 Volt 18 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 DIP-SWITCH REFERENCE AND OPERATOR(S) CONNECTION

SW 1 DIP-Switches

<table>
<thead>
<tr>
<th>Switch</th>
<th>Function</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6004 ONLY</td>
<td>Left Side</td>
<td>ON</td>
<td>Opening Direction of PRIMARY Operator.</td>
</tr>
<tr>
<td>6004 ONLY</td>
<td>Right Side</td>
<td>OFF</td>
<td>The operator MUST OPEN GATE upon initial power up and OPEN command.</td>
</tr>
<tr>
<td>6006 ONLY</td>
<td>Left Side</td>
<td>ON</td>
<td>Opening Direction of PRIMARY Operator.</td>
</tr>
<tr>
<td>6006 ONLY</td>
<td>Right Side</td>
<td>OFF</td>
<td>The operator MUST OPEN GATE upon initial power up and OPEN command.</td>
</tr>
</tbody>
</table>

Antenna Connection

Learn MicroPlus® Transmitter

The MicroPlus® type transmitter and LOW Power Mode are the factory default settings for 6040-080 receiver in solar control box.

Gate Operator(s) Connection

DO NOT cycle the operator BEFORE setting limit sensors.

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.

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 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>Not Used</td>
<td>OFF</td>
<td>Leave in the OFF position.</td>
</tr>
<tr>
<td>4</td>
<td>Spare</td>
<td>OFF</td>
<td>Leave in the OFF position.</td>
</tr>
</tbody>
</table>