QUICKSTART "BASIC" GUIDELINES FOR SOLAR CONTROL BOX FOR 6004, 6006 AND 6400 USING MICROPLUS® TR



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120 S. Glasgow Avenue

Inglewood, California 90301

Mount Control Box Cabinet



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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

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.

Circuit Board Settings

3. Open Input

OFF - Spare

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

SW1. Switch 1&2 Note: See reverse side

for your specific operator switch settings.

Direction **Primary** operator opens.

2. Direction Secondary operator opens.

4. ON - Auto-Close Timer R

. OFF - Circuit Board Relay Control

2. ON - Circuit Board Relay Control 3. OFF - Not Used

5. OFF - Standard Reverse

7. Single/Dual Operators

6. Overlapping Gates

Note: Opening Devices MUST use a separate

power source if power

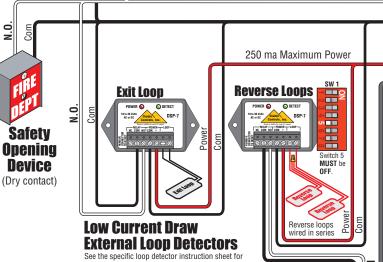
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is required.

DoorKing Photo Sensor 8080-057 Green LED remains ON when reflector is properly aligned. Power to Circuit Board Relay to UL 325 Terminal: Terminal: To #1 Open Beam OR #2 Close Beam (depending on mounting location)

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.

Controls must be far enough from the gate so that 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.

Use 18 AWG minimum Relay N.O Relay COM 24 V NE >24 V POS **Primary** ⇒Solar POS Operator Solar NEG ONLY DO NOT Connect a Plug-In DANGER OF ELECTRIC SHOCK!! Transformer to the Standard Reverse input **Solar Power Terminals** on Terminal 8 ONLY functions while the gate is a at the full **open** position or during the closing cycle. See the specific loop detector instrumore information (P/N 9402-050). Com Push to Operate: **Battery Switch Loop Detectors** Cycles operator when Disconnects battery power from pressed. Will use

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:

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Adjust 1 to 23 sec.

- (1) One 24 Volt 10 Watt Solar Panel for 18 Amp/Hr Batteries (P/N 2000-077).
- (1) One 24 Volt 20 Watt Solar Panel for 35 Amp/Hr Batteries (P/N 2000-076).

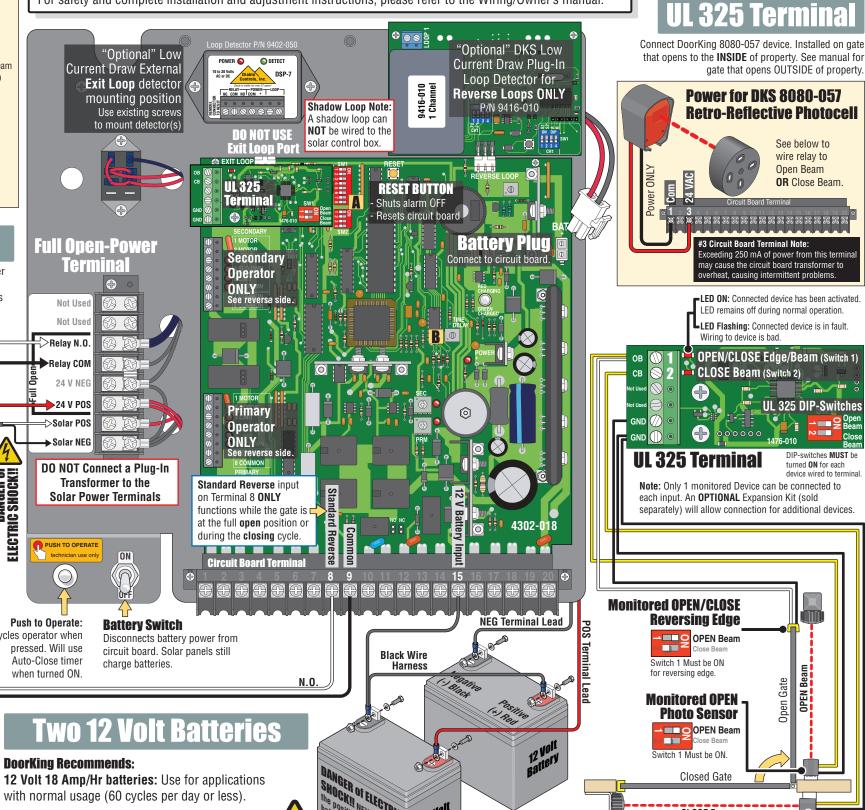
DO NOT connect 12 Volt solar panel. Damage WILL occur!!

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

Control box is intended for installation only on automated gates used for vehicles.

Pedestrians must be supplied with a separate access opening.

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



Battery Wiring Notes:

Use **ONLY** 12 Volt batteries.

Batteries are wired in series

CLOSE Beam

Switch 2 Must be ON. CLOSE Beam **Monitored CLOSE Photo Sensor**

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12 Volt 35 Amp/Hr batteries: Use for applications

DANGER of

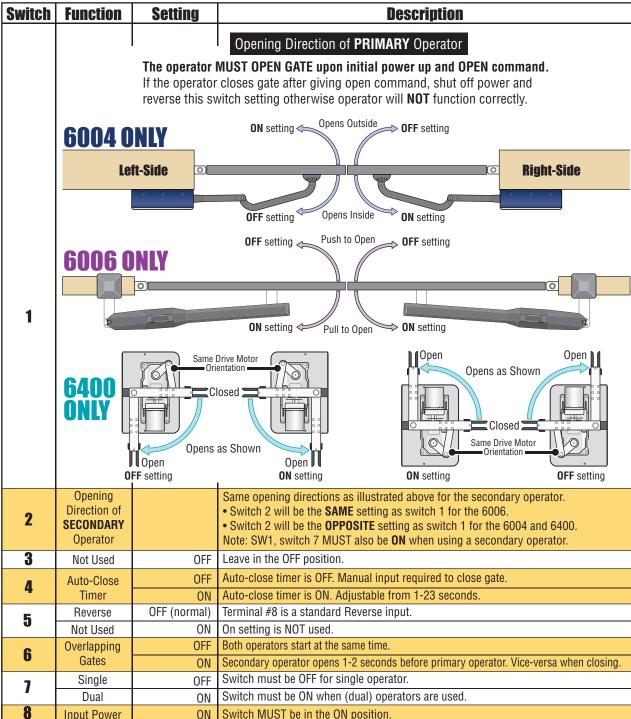
ELECTRIC SHOCK!!

with higher usage (60 cycles per day or more).

4302-068-11-7-20

QUICKSTART "BASIC" GUIDELINES FOR SOLAR CONTROL BOX DIP-SWITCH REFERENCE AND OPERATOR(S) CONNECTION

SW 1 DIP-Switches



SW 2 DIP-Switches



SW 1

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S	witch	Function	Setting	Description
1	and 2	Relay Operation	1-0FF 2-0N	Circuit board relay activates when the gate is NOT closed.
	3	Not Used	OFF	Leave in the OFF position.
	4	Spare	OFF	Leave in the OFF position.

RESET Whenever any programming or switch setting

on the control board is changed, press the

reset button for new settings to take effect.

The Micro**Plus**® type transmitter and **LOW Power Mode** are the factory default settings for 8040-080 receiver in solar control box.

Antenna Connection

Note: See manual for MicroClik® transmitter programming.





2. Press and HOLD Program Button until the Program LED flashes ONCE and receiver will BEEP once. Receiver is now in "Learn Mode" and will flash and beep for 10 seconds.



MicroPlus® Transmitter ONLY (Sold separately)

3. Press a specific button on the MicroPlus® transmitter to be "Learned" within 10 seconds. wait for the receiver to time-out. MicroPlus® transmitter can now operate the gate.

Gate Operator(s) Connection

"Ontional" Coaxial Cable

Increases signal range P/N 1514-073

15 ft Cable

Antenna Kit



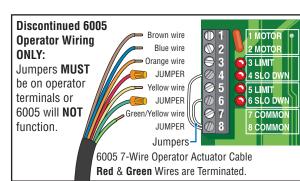
Refer to your specific operator for limit sensor adjusti

Antenna (Included)

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.

Brown wire Orange wire Red wire Yellow wire Green wire Green/Yellow wire 7-Wire Operator Cable



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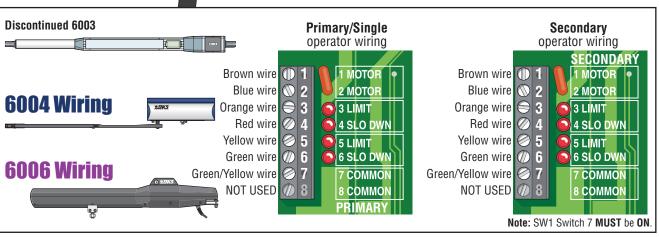
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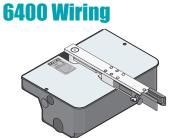
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Primary/Single

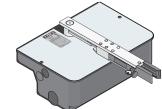
Operator Cable ONLY



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

operator wiring Brown wire MOTOR • 2 MOTOR Orange wire 😂 🕄 3 LIMIT 4 SLO DWN Red wire 0 4 S LIMIT Yellow wire 6 5 Green wire (7) 6 🔼 6 SLO DW Green/Yellow wire 7 COMMON NOT USED (7) 8 R COMMON

6400 Secondary operator wiring SECONDARÝ Blue wire MOTOR Brown wire 0 2 2 MOTOR Orange wire 😂 💲 3 LIMIT Red wire Ø 4 4 SLO DWN Yellow wire 5 6 SLO DWN Green wire Green/Yellow wire 7 COMMON NOT USED **COMMON** Note: SW1 Switch 7 MUST be ON



6400 Primary/Single

