

QUICKSTART "BASIC" GUIDELINES FOR SOLAR CONTROL BOX FOR 6002, 6003, 6004 OR 6400



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

Mount Control Box Cabinet

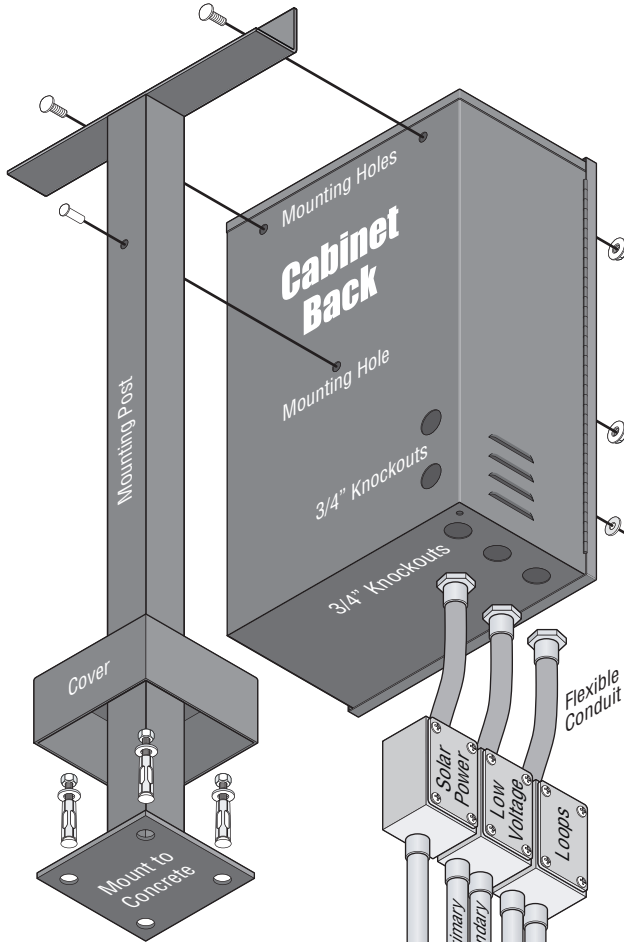


Position the control box on the wall, close enough to the gate operator so the primary operator cable can be easily routed inside the box. Use appropriate hardware (not supplied) in the existing 3 mounting holes to secure the cabinet to a vertical surface.

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



To attach post to concrete, DoorKing recommends four (4) 3/8" x 3" sleeve anchors (not supplied). Do Not mount post on asphalt.

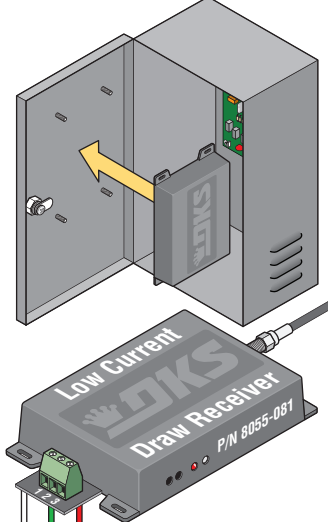
Typical conduit configuration (not supplied).

Key Switch
(Dry contact)

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.

DoorKing
RF Radio Receiver

Mount inside of control box door.



Radio #1 Com (White)
Radio #2 Relay (Green)
Radio #3 Power (Red)

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

Pedestrians must be supplied with a separate access opening. For complete safety, installation and adjustment instructions, please refer to the Solar Control Box Wiring/Owner's manual.

Shadow Loop Note: A shadow loop can **NOT** be wired to the solar control box.

Circuit Board Settings

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

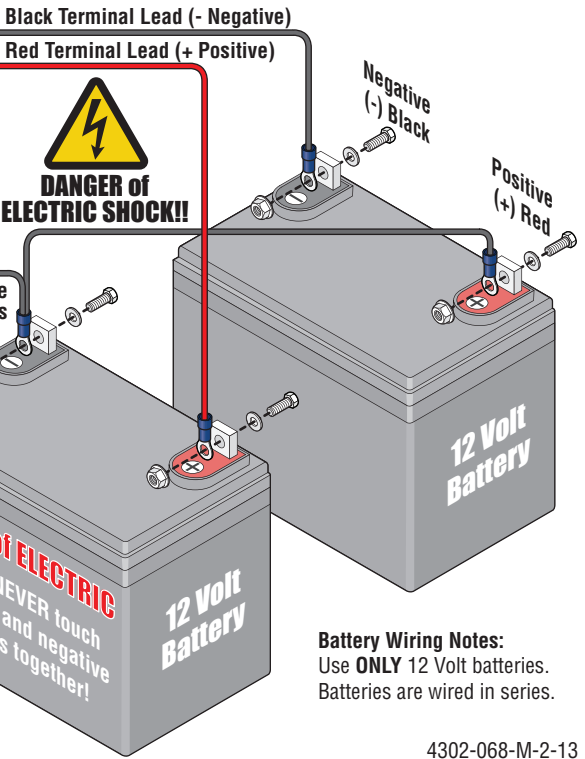
- A**
- | | |
|---|----|
| 1 | ON |
| 2 | ON |
| 3 | ON |
| 4 | ON |
| 5 | ON |
| 6 | ON |
| 7 | ON |
| 8 | ON |
- B**
- | | |
|---|----|
| 1 | ON |
| 2 | ON |
| 3 | ON |
| 4 | ON |
- Adjust 1 to 23 sec.
1. Direction **Primary** operator opens.
 2. Direction **Secondary** operator opens.
 3. Open Input
 4. **Auto-Close Timer**
 5. Standard Reverse
 6. Overlapping Gates
 7. Single/Dual Operators
 8. ON
- SW 1**
- | | |
|---|----|
| 1 | ON |
| 2 | ON |
| 3 | ON |
| 4 | ON |
1. OFF - Circuit Board Relay Control
 2. ON - Circuit Board Relay Control
 3. OFF
 4. OFF

Battery Plug

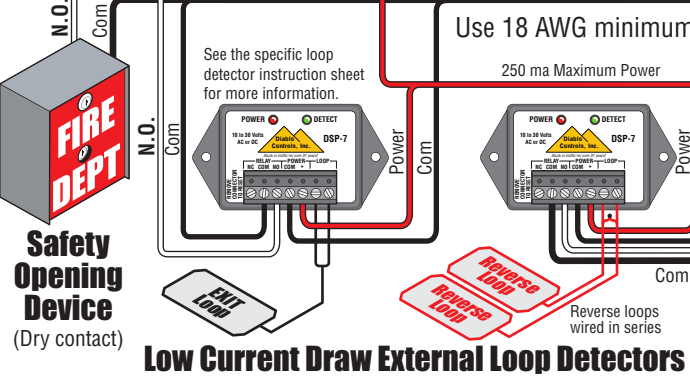
Connect to circuit board.

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).

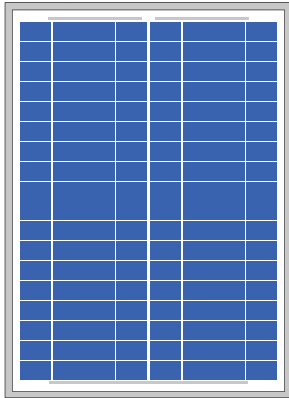


Battery Wiring Notes:
Use **ONLY** 12 Volt batteries. Batteries are wired in series.



24 Volt Solar Panel

Keep sunlight OFF solar panel while connecting.
Solar Pos. (White Wire)
Solar Neg. (Black Wire)
Solar panel should face true south in unobstructed sunlight.



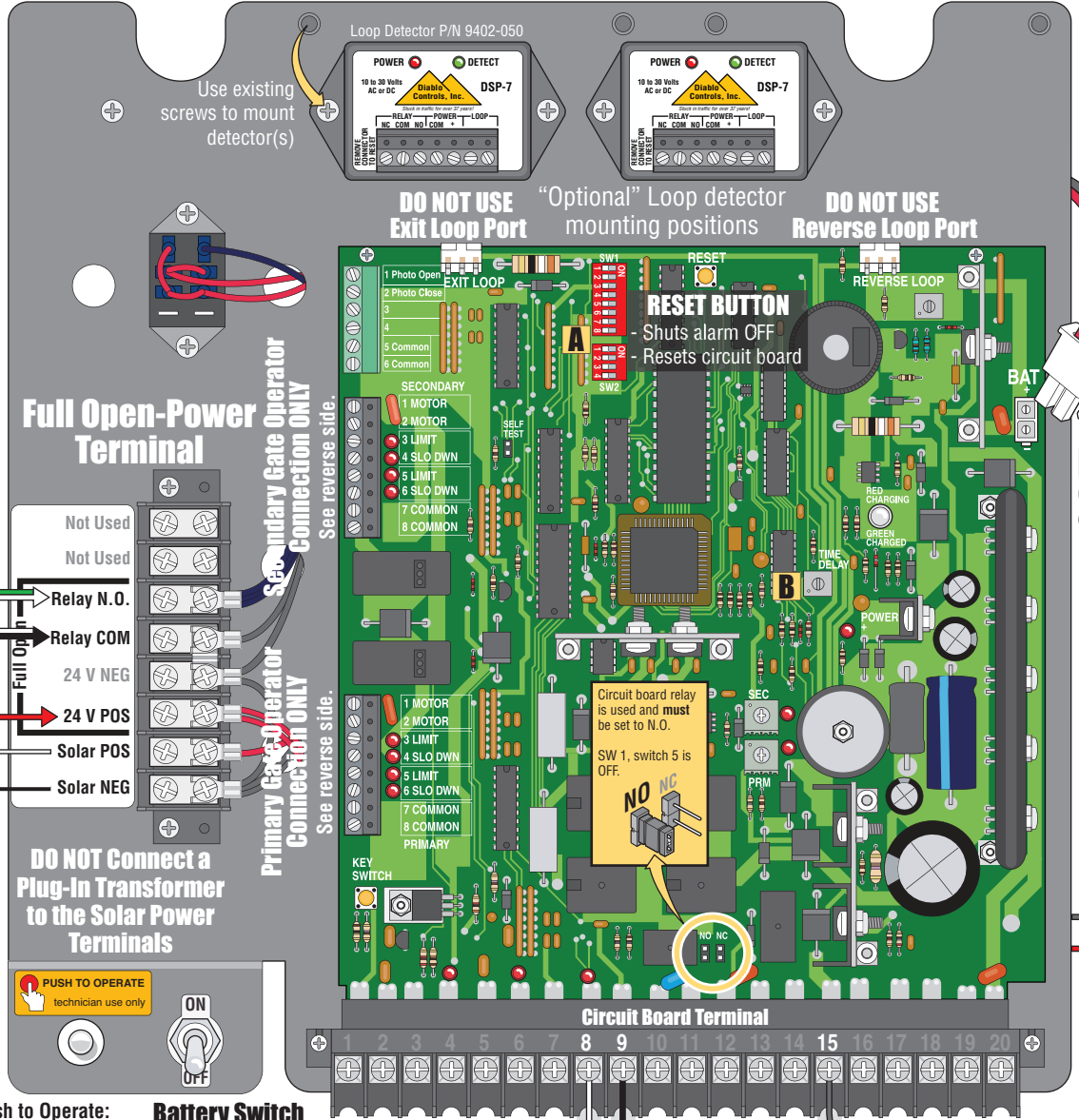
Solar Control Box Requirements:

- (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.

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Push to Operate:
Cycles operator when pressed. Will use Auto-Close timer when turned ON.

Battery Switch
Disconnects battery power from circuit board. Solar panels still charge batteries.

Reversing input on Terminal 8 **ONLY** functions while the gate is at the full open position or during the closing cycle.

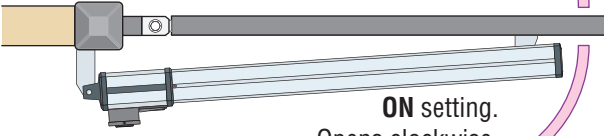
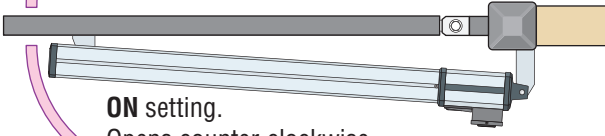


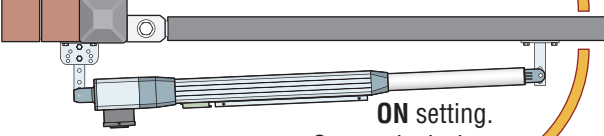
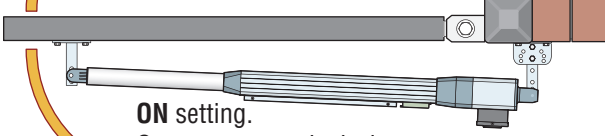

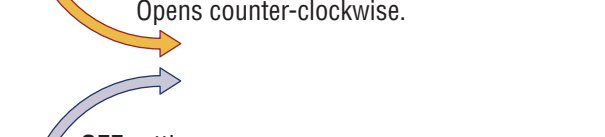
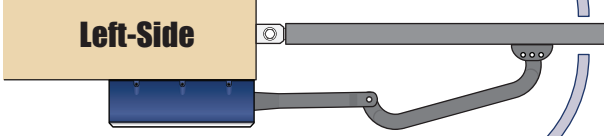
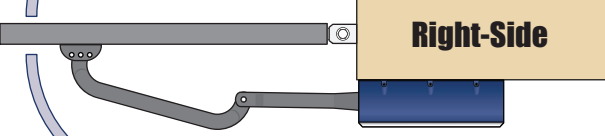

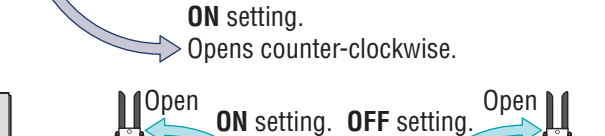
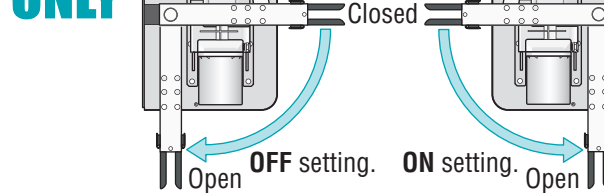
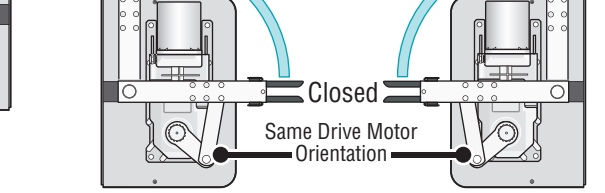
QUICKSTART “BASIC” GUIDELINES FOR SOLAR CONTROL BOX DIP-SWITCH REFERENCE AND OPERATOR(S) CONNECTION



120 Glasgow Avenue
Inglewood, California 90301
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SW 1 DIP-Switches



Switch	Function	Setting	Description	
DIP-Switches				
1				Opening Direction of PRIMARY Operator
	6002 ONLY			
				OFF setting. Opens counter-clockwise.
				OFF setting. Opens clockwise.
				ON setting. Opens clockwise.
				ON setting. Opens counter-clockwise.
	6003 ONLY			
				OFF setting. Opens counter-clockwise.
				OFF setting. Opens clockwise.
				ON setting. Opens clockwise.
				ON setting. Opens counter-clockwise.
	6004 ONLY			
			ON setting. Opens counter-clockwise.	
			OFF setting. Opens clockwise.	
			OFF setting. Opens clockwise.	
			ON setting. Opens counter-clockwise.	
6400 ONLY				
				
				
2	Opening Direction of SECONDARY Operator		Same opening directions as illustrated above for the primary operator type. • Switch 2 will be the SAME setting as switch 1 for the 6002 or 6003 ONLY . • Switch 2 will be the OPPOSITE setting as switch 1 for the 6004 and 6400 ONLY . Note: SW 1, switch 7 MUST also be ON when using a secondary operator.	
3	Not Used	OFF	Leave in the OFF position.	
4	Auto-Close Timer	OFF	Auto-close timer is OFF. Manual input required to close gate.	
		ON	Auto-close timer is ON. Adjustable from 1-23 seconds.	
5	Reverse	OFF (normal)	Terminal #8 is a standard Reverse input.	
	Not Used	ON	On setting is NOT used.	
6	Overlapping Gates	OFF	Both operators start at the same time.	
		ON	Secondary operator opens 1-2 seconds before primary operator. Vice-versa when closing.	
7	Single	OFF	Switch must be OFF for single operator.	
	Dual	ON	Switch must be ON when (dual) operators are used.	
8	Input Power	ON	Switch MUST be in the ON position.	

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SW 2 DIP-Switches

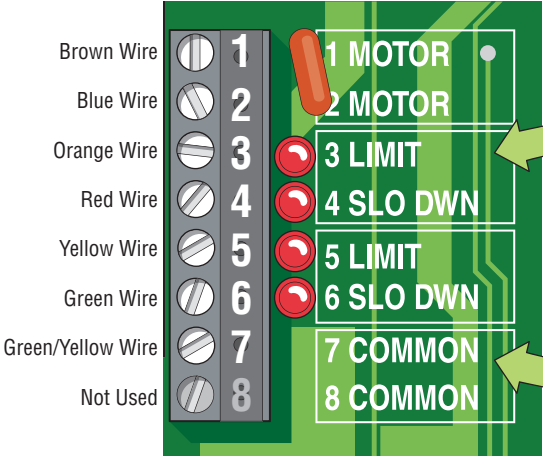


Switch	Function	Setting	Description
1 and 2	Relay Operation	1-OFF 2-ON	Circuit board relay activates when the gate is NOT closed.
3	Not Used	OFF	Leave in the OFF position.
4	Spare	OFF	Leave in the OFF position.

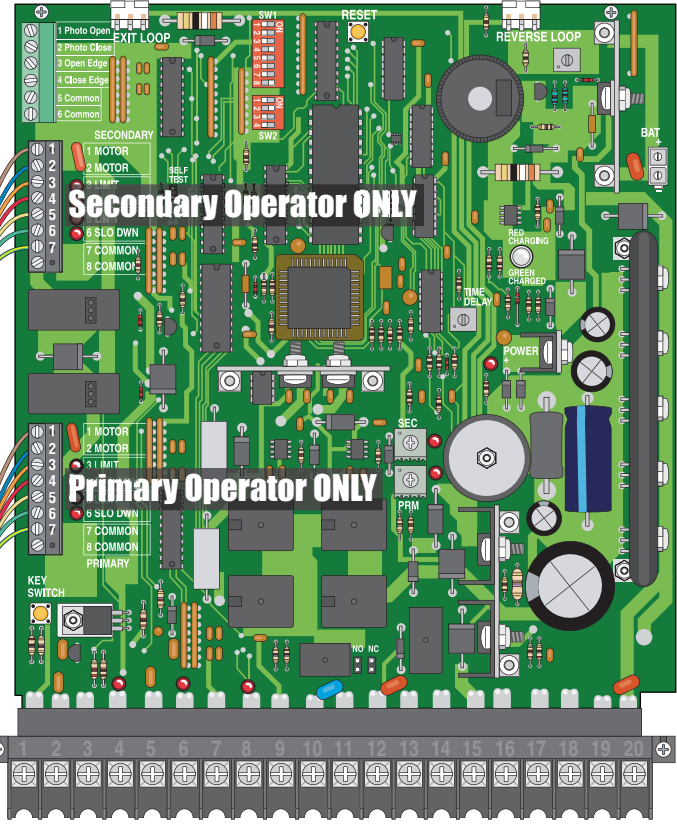
RESET
Whenever any programming or switch setting on the control board is changed, press the reset button for new settings to take effect.

Gate Operator(s) Connection

Primary or Secondary Operator Cable Terminal



Operator Cable Terminal Note: The 8-pin terminals can be unplugged from circuit board for easy wire connections.



6400 Dual Operator Wiring ONLY!

