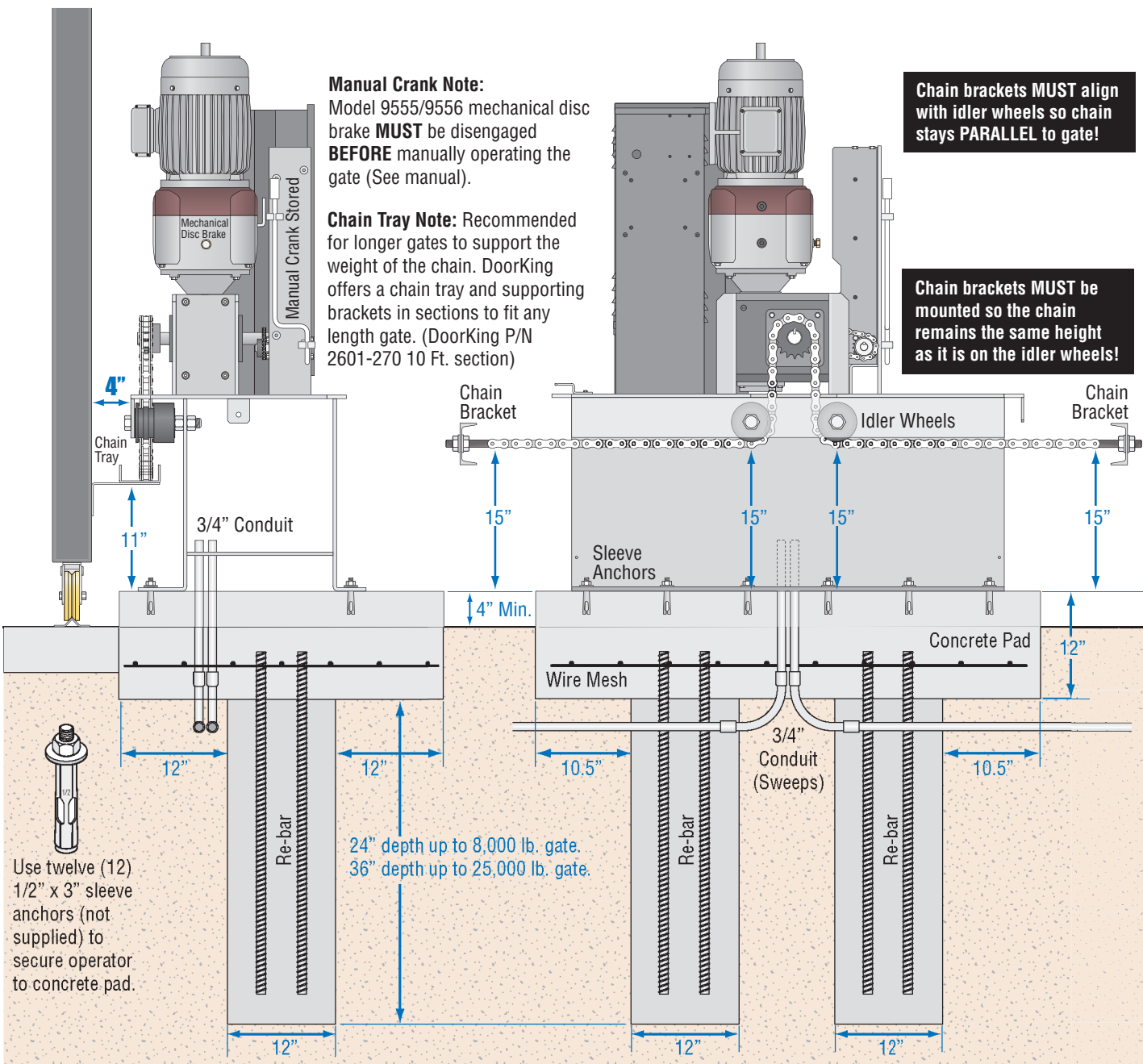
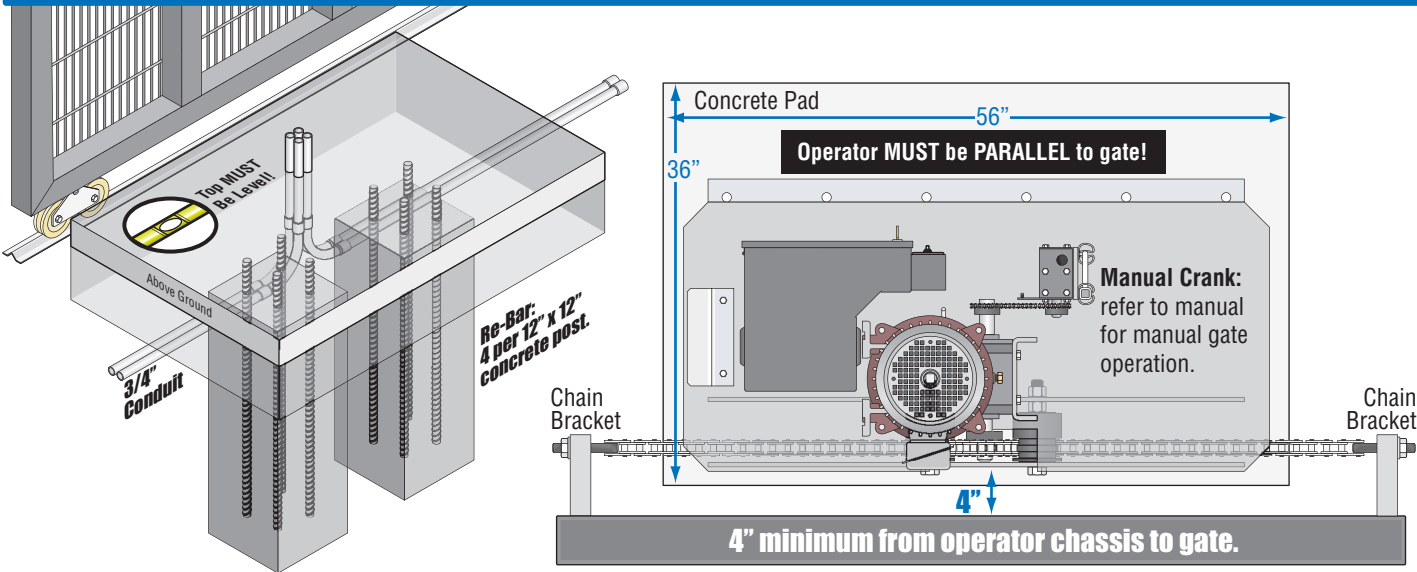
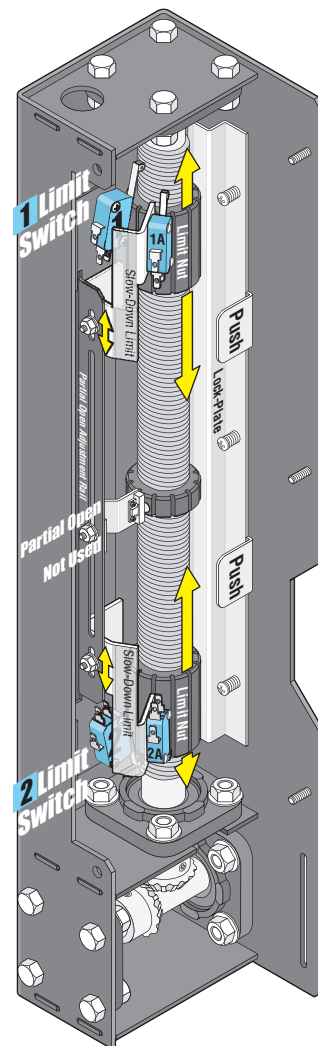


# QUICKSTART "BASIC" GUIDELINES FOR MODEL 9500 "FULL OPEN"



## Limit Switches



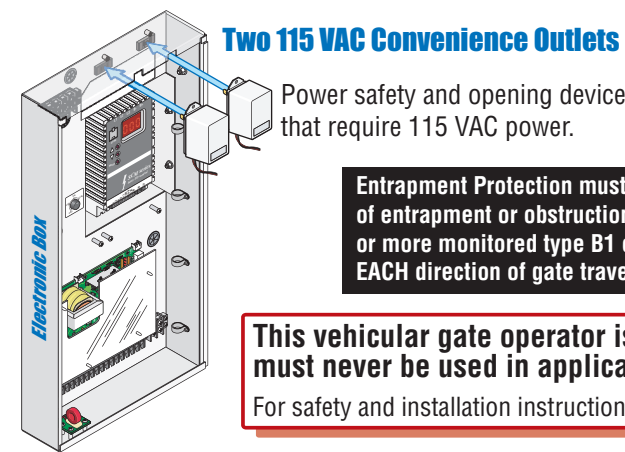
With power OFF, push and hold the lock plate down where shown to adjust the Open and Close limit nuts.

After adjusting the limit-nuts, be sure that the lock-plate is engaged in the slots on the limit-nuts to prevent them from rotating.

The slow-down limits will move up or down 3/4 inch. **DO NOT** remove the slow-down limit assembly from the 3/4 inch slot and re-attach it in the longer slot on the partial open adjustment rail to gain further adjustment. **This will cause mechanical damage to the switch assembly when the operator is activated.**

Turn power ON and activate the gate operator.

Re-adjust the limit nuts as necessary for full-open and full-close gate travel. After you are satisfied with the gate limit settings, the speed control knob can then be adjusted to personal preference.



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 external entrapment protection devices in EACH direction of gate travel (minimum of 2 external devices required).

This vehicular gate operator is designed for Class III and Class IV applications only and must never be used in applications serving the general public.

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

UL 325 August 2018 Standard

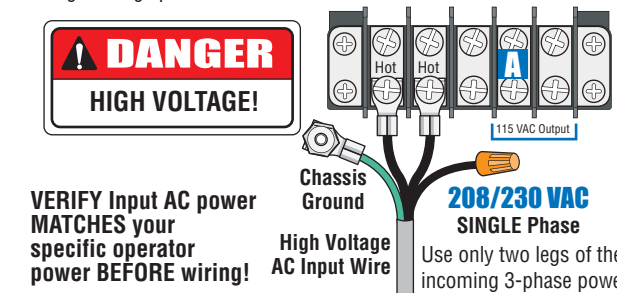
**DKS**  
DOOR KING®

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

## High Voltage Connection

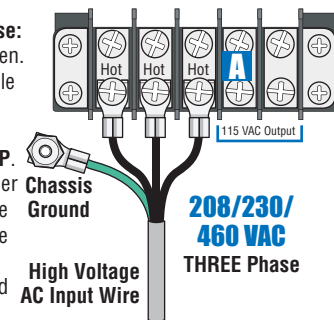
**GATE OPERATOR MUST BE PROPERLY GROUNDED!!**

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



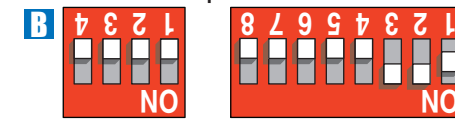
VERIFY Input AC power MATCHES your specific operator power BEFORE wiring!

**Check polarity of Three Phase:** Position the gate half way open. Give open command and while gate is opening, activate the appropriate limit switch with your finger. Gate should STOP. If it does not, activate the other limit switch. If this STOPS the gate, AC power wires must be changed (Reverse the connection of any 2 wires and re-check limits).



## DIP-Switches

SW 1 and 2 are Upside-Down on Circuit Board.



### Auto-Close Timer

See reverse side



Adjust 1 to 23 sec.

## Plug-In Loop Detectors

Not included - Refer to the Installation/Owner's manual AND Loop Information Manual (available from [www.doorking.com](http://www.doorking.com)) for more information on loops and plug-in loop detectors.

**Important Note:** DoorKing highly recommends that loops and loop detectors are installed with this slide gate operator. A loop detection system will preventing the gate from automatically opening or closing on a vehicle when it is in the gate's path.



QUICKSTART "BASIC" GUIDELINES FOR MODEL 9500 - DIP-SWITCH AND WIRING REFERENCE

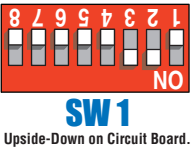
This vehicular gate operator is designed for Class III and Class IV applications only and must never be used in applications serving the general public. For safety and installation instructions, please refer to the Installation/Owner's manual.

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DKS DOOR KING 120 S. Glasgow Avenue Inglewood, California 90301 U.S.A.

SW 1 DIP-Switches (Right Hand Side)

Switch	Function	Setting	Description
1	Changes the direction the operator will open/close the gate.		<div>Opening direction using ON setting.</div> <div>Opening direction using OFF setting.</div>
2	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 to close gate.
3	Exit Loop Port Output	OFF	The output wired to terminal #4 becomes the output from the exit loop detector plugged into the EXIT Loop port. Used for dual operator application.
	Full Open Input	ON	Normal Setting. Terminal #4 is a normal full open input.
4 and 5	Relay Activation and LED Indicator Light Activation	4-OFF 5-OFF	Relay activates and LED is ON when the gate is fully open.
		4-OFF 5-ON	Relay activates and LED is ON when the gate is not closed.
		4-ON 5-OFF	Relay activates and LED is ON when the gate is opening and open.
		4-ON 5-ON	Relay activates and LED is ON when the gate is opening and closing.
6	Warn Before Operate	OFF	Internal alarm will NOT sound.
		ON	Internal alarm will sound before gate starts and throughout gate's cycle.
7	Reverses Gate	OFF	Normal Setting. Input to terminal #6 and/or reverse loops will REVERSE gate during CLOSE cycle.
	Stops Gate	ON	Input to terminal #6 and/or reverse loops will STOP gate during CLOSE cycle.
8	Quick-Close Timer Override	OFF	Normal Setting. Timer will function normally.
		ON	Opening gate will stop and begin to close as soon as all reversing inputs (Reverse loops, photo sensors) are cleared regardless of the distance the gate has opened.

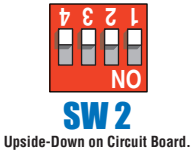


Upside-Down on Circuit Board.

Note: After a DIP-switch setting is changed, power must be turned OFF and then turned back on for the new setting to take affect.

SW 2 DIP-Switches (Left Hand Side)

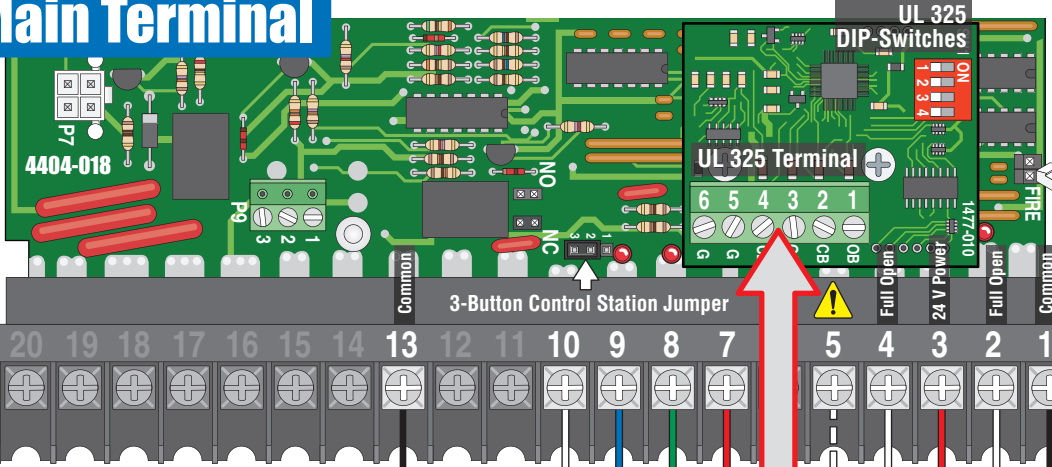
Switch	Function	Setting	Description
1	Self-Test	OFF	Normal Setting. Normal gate operation.
		ON	Self-test mode. Operator MUST be disconnected from gate to run self-test.
2	Gate Opens Uphill	OFF	Normal Setting. Level gate operation or gate opens DOWNHILL.
		ON	MUST be ON if gate opens UPHILL.
3	Gate Opens Downhill	OFF	Normal Setting. Level gate operation or gate opens UPHILL.
		ON	MUST be ON if gate opens DOWNHILL.
4	Spare	OFF	Leave in the OFF position.



Upside-Down on Circuit Board.

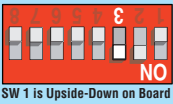
Important: Controls intended for user activation must be located at least six (6) feet away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Emergency access controls only accessible by authorized personnel (e.g., fire, police, EMS) may be placed at any location in the line-of-sight of the gate.

Main Terminal

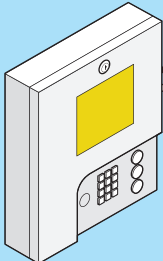


Entrapment Protection must be provided for the gate system where the risk of entrapment or obstruction exists. The operator will NOT run without one or more monitored type B1 or B2 external entrapment protection devices in EACH direction of gate travel (minimum of 2 external devices required).

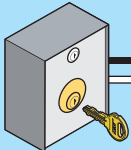
Note: All stand-alone and telephone entry devices must use a separate power source.



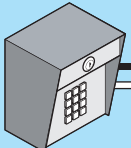
SW 1, Switch 3 MUST be ON except for dual operators or exit loop partial open applications.



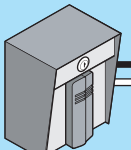
Telephone Entry



Key Switch

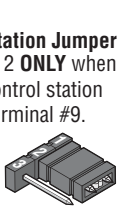


Stand-Alone Keypad



Stand-Alone Card Reader

3-Button Control Station Jumper Jumper Pins 1 & 2 ONLY when using a 4-wire control station to enable stop terminal #9.

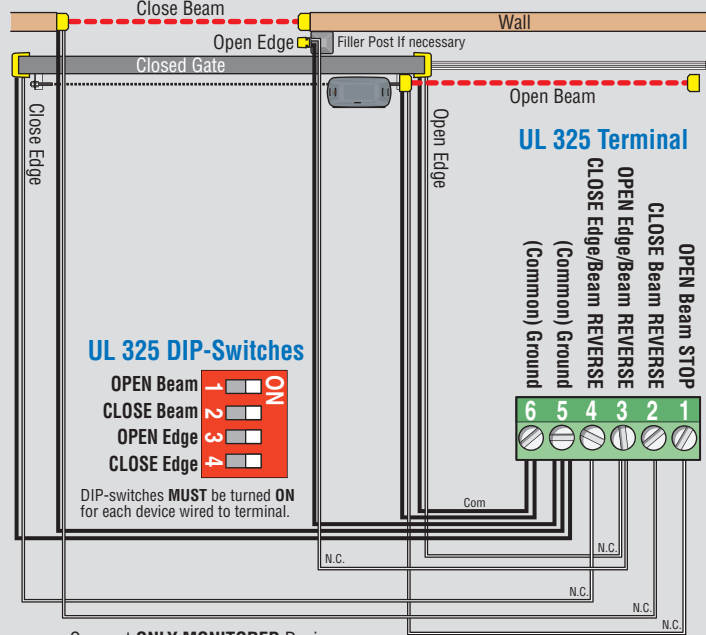


3-Button Control Station

External Entrapment Protection Devices

IMPORTANT: Only 1 monitored Device can be connected to each input. An OPTIONAL Expansion Kit (sold separately) will allow connection for additional devices.

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

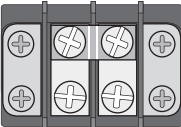


Connect ONLY MONITORED Devices (See Installation/Owner's manual for more information)

To #4 or #5

Auxiliary Common Terminal

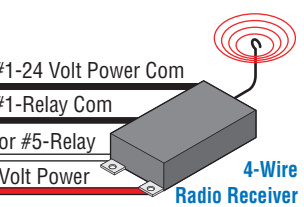
Connect any common wire to these 2 terminals.



Gate will ONLY OPEN when this device is activated by authorized personnel ONLY (fire, police, EMS) and operator has power. Alarm will sound during entire open cycle. Operator will then go into a hard shutdown once fully opened. Operator MUST be reset to function normally again. This device MUST be mounted in the line-of-site of gate so authorized personnel can monitor gate movement.

Activation Note: Activation of this device will OPEN gate regardless of the status of the open direction monitored external entrapment protection device(s). If gate is opening, and the operator's inherent entrapment protection system detects an obstruction, the operator will reverse approx. 2 inches and go into a hard shutdown. Operator reset button MUST be pushed to function again OR cycle operator's power.

Main Terminal #3 Note: Exceeding 250 mA of power from this terminal may cause the circuit board transformer to overheat, causing intermittent problems.



#5 Terminal Note: Any opening device connected to terminal #5 will open the gate to the partial open setting. External entrapment protection devices will also open the gate to the partial open setting. If the Inherent Reverse Sensor gets activated during the close cycle, it will always fully open the gate.