

1600 115 VAC - 3.3 AMP HEATER KIT

DoorKing Part Number

1601-092

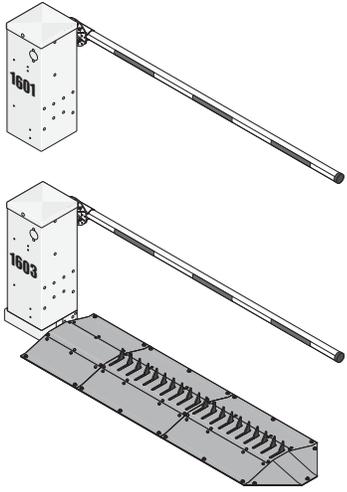
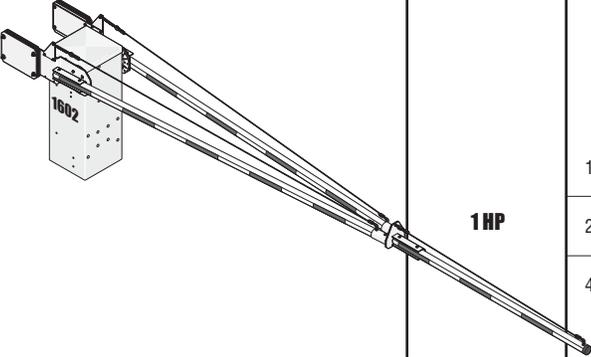
This kit is designed for the 1600 model barrier gate operators only. For cold weather climates where temperatures routinely drop below 40°F (4°C). A built-in thermostat will automatically control the temperature inside operator housing.

High Voltage AC Input Power for the 1600 Barrier Gate Operator with a Heater

DO NOT use the “high voltage wire size and distance requirements” table in the Installation/Owner’s manuals to determine the high voltage AC input power wire size and distance requirements for the barrier gate operator because of a **much greater** current draw when using the heater. Use the table below to determine the wire size and distances for your chosen barrier gate operator when a heater is installed. EACH operator should have a “**Dedicated**” circuit breaker at the power source.

If the high voltage AC input power wiring is greater than the maximum distance shown, it is recommended that a service feeder be installed. When large gauge wire is used, a separate junction box must be installed for the operator connection. Wire run distances are based on NEC guidelines for copper wire allowing a maximum 3% voltage drop on the line. The calculated distance was then further reduced by 10% to allow for other losses in the system. **Never** run low voltage rated wire insulation in the same conduit as high voltage rated wire insulation.

High voltage AC input wire size and distance requirements for a 1600 with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	9.0	105	175	290	435
		230	4.6	420	675	1125	1685
		460	2.4	1615	2585	4310	6465
	1 HP	115	13.0	70	120	200	300
		230	6.5	295	475	795	1190
		460	3.3	1175	1880	3136	4705

In bi-parting (dual) barrier gate applications, high voltage AC input power is required for EACH 1600 operator with heater.

Installation of Heater

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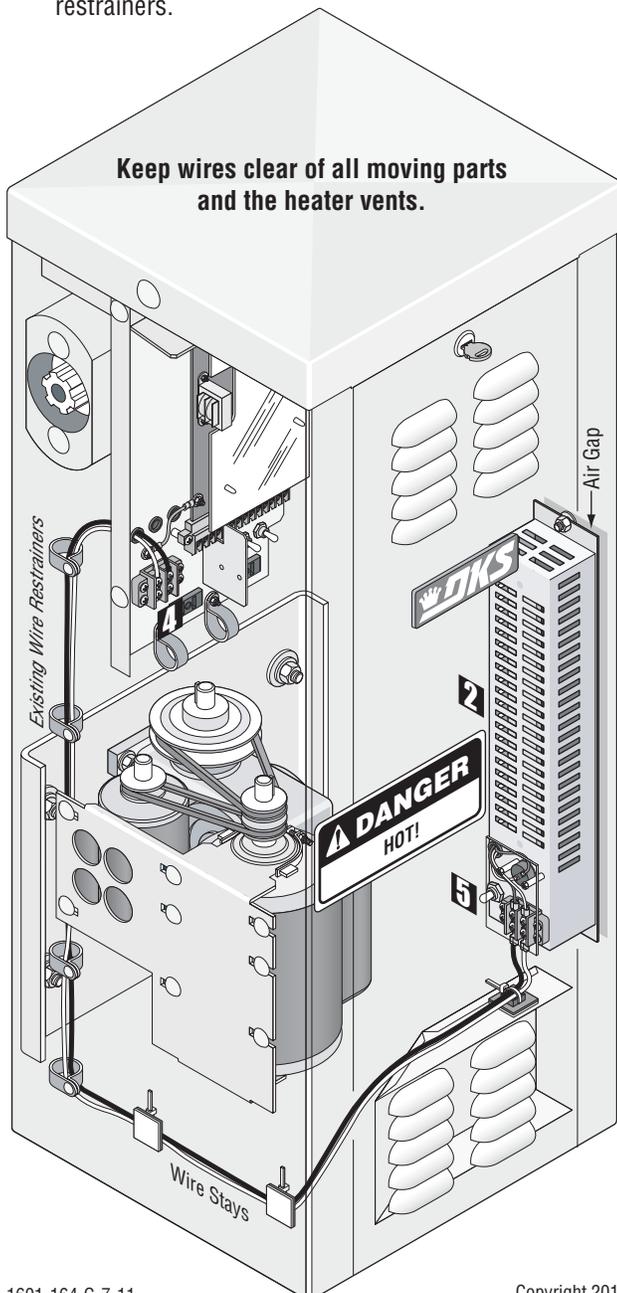
Kit Includes: Heater / mounting plate, 2 locknuts, 5 wire ties, 3 double stick wire tie mounts, and 2 plastic wire restrainers.

1 Shut off ALL power to operator.

Turn off the DC convenience open power switch on certain operator models **first** then shut off the AC input power to the operator from the circuit breaker.

3 Route heater wires as shown.

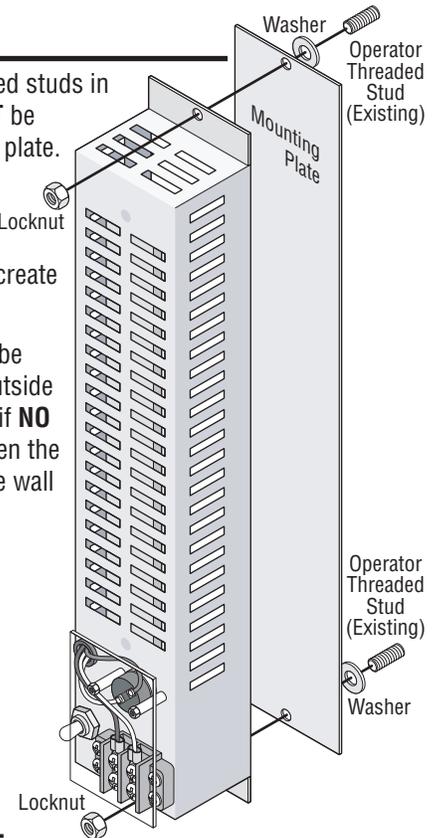
Use supplied wire stays and existing wire restrainers.



2 Mount Heater

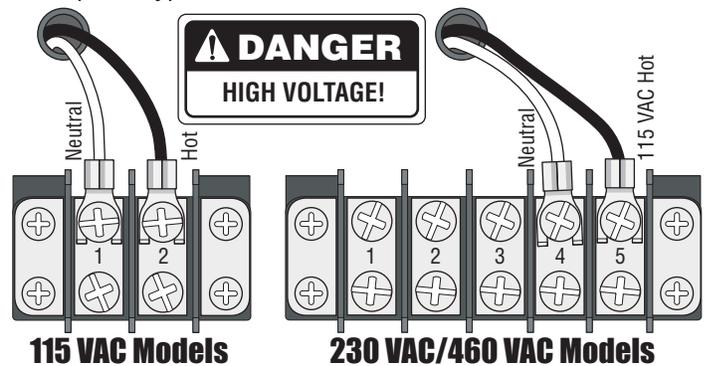
Locate existing threaded studs in operator. Heater **MUST** be mounted on mounting plate. Place the 2 supplied washers between the operator wall and the mounting plate to create an air gap.

CAUTION: Heat will be transferred to the outside wall of the operator if **NO** air gap exists between the heater and the inside wall of the operator.



4 Power Connection

Connect the heater power wires according to operator AC power type.



5 Heater Switch



AUTO - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F inside the operator, and turns the heater **OFF** when the temperature rises above 40°F inside the operator.

OFF - Turns the heater off.

ON - Turns the heater on **continuously**. The heater will become **VERY HOT** when running continuously.

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