

1600 115 VAC - 3.3 AMP HEATER KIT

DoorKing Part Number

1601-092

IMPORTANT: DO NOT install this heater kit if your barrier gate operator has the optional **high voltage kit** installed on it.

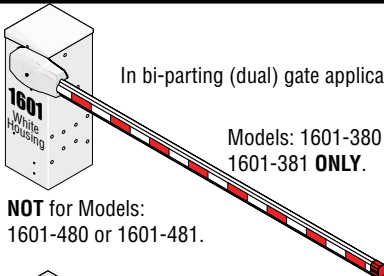
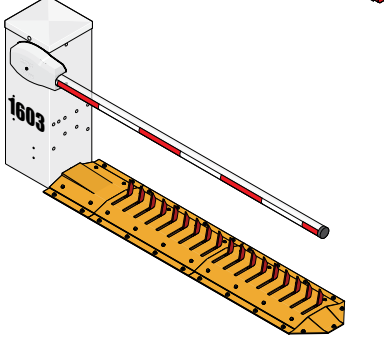
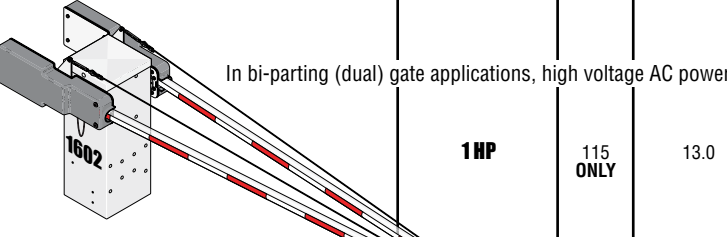
This kit is designed for the **115 VAC** 1600 model barrier gate operators **ONLY**. **NOT for use in the 1601-480 or 1601-481 (GRAY Housing units)**. For cold weather climates where temperatures routinely drop below 10°F (-12°C). A built-in thermostat will automatically control the temperature inside operator housing.

High Voltage AC Input Power for the 115 VAC 1600 Barrier Gate Operator with a Heater

DO NOT use the “high voltage wire size and distance limitations” table in the Installation/Owner’s manuals to determine the high voltage AC input power wire size and distance limitations 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. Keep them in separate conduits.

High voltage AC input wire size and distance limitations for a 115 VAC 1600 with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
 <p>In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601 operator with heater.</p> <p>Models: 1601-380 1601-381 ONLY.</p> <p>NOT for Models: 1601-480 or 1601-481.</p>	1/2 HP	115 ONLY	8.7	100	150	250	400
							
 <p>In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1602 operator with heater.</p>	1 HP	115 ONLY	13.0	60	100	160	200

Installation of Heater

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1601-092

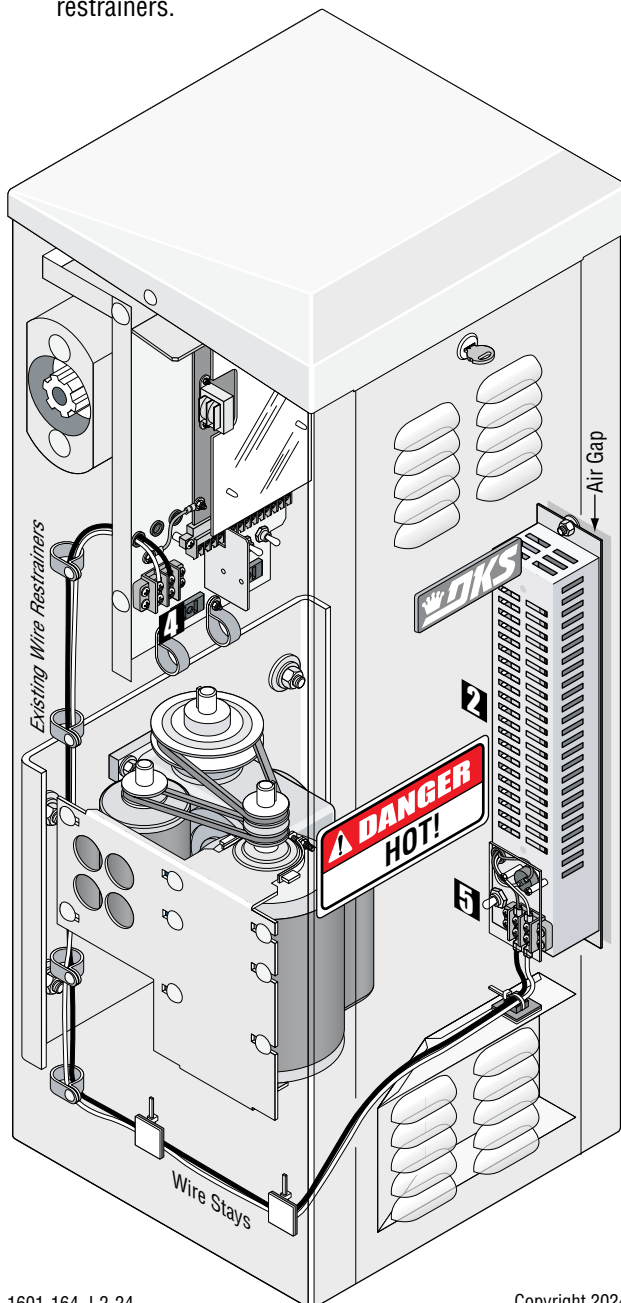
Kit Includes: Heater / mounting plate, 2 locknuts, 5 wire ties, 3 double stick wire tie mounts, and 2 plastic wire restrainers.

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.

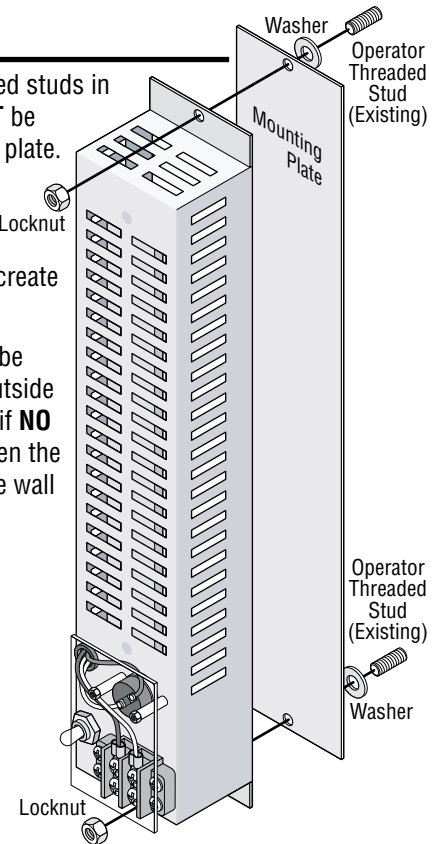
Use supplied wire stays and existing wire restrainers.



2 Mount Heater

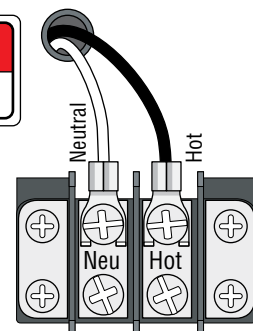
Locate existing threaded studs in operator. Heater **MUST** be mounted on mounting plate. Place the 2 supplied washers between the operator wall and the mounting plate to create an air gap.

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.



**115 VAC
Power Terminal**

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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