

# 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.

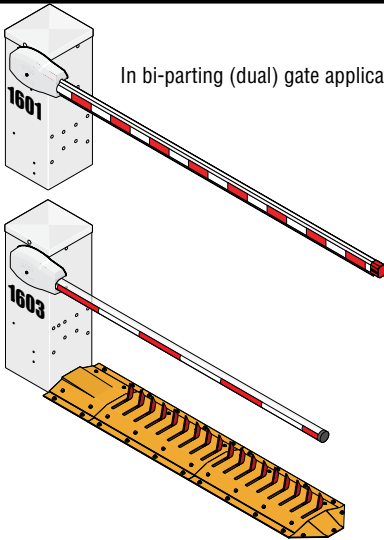
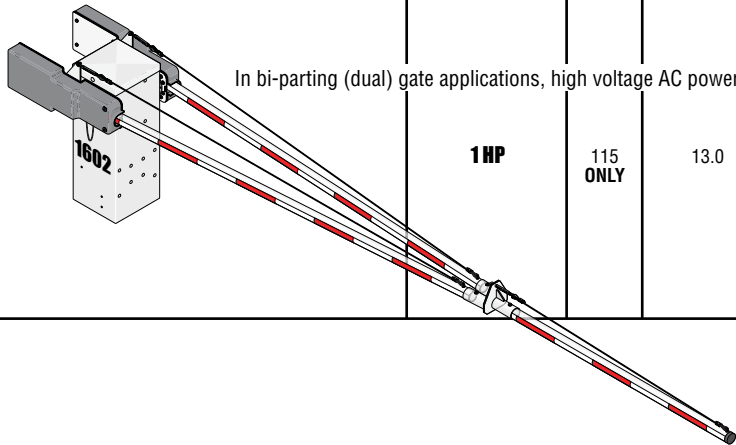
This kit is designed for the 115 VAC 1600 model barrier gate operators **ONLY**. For cold weather climates where temperatures routinely drop below 10°F (-12°C). A built-in thermostat will automatically control the temperature inside operator housing.

## 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>  | 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   |



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

# Installation of Heater

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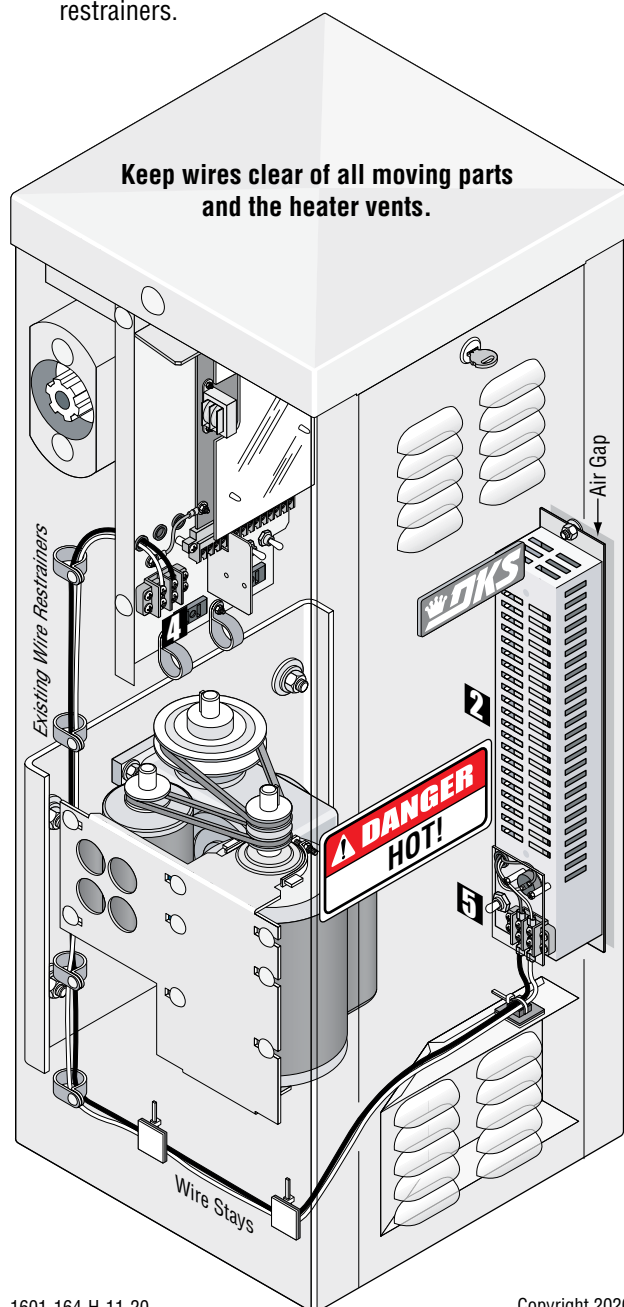
**Kit Includes:** Heater / mounting plate, 2 locknuts, 5 wire ties, 3 double stick wire tie mounts, and 2 plastic wire restrainers.

## 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.

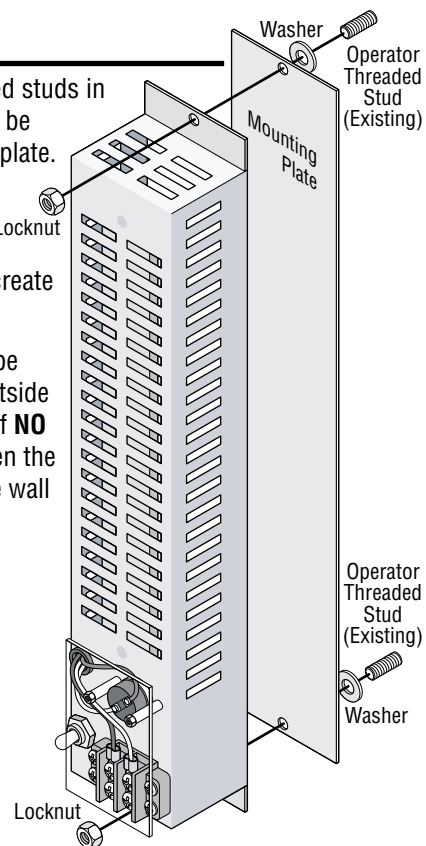
Use supplied wire stays and existing wire restrainers.



## 2 Mount Heater

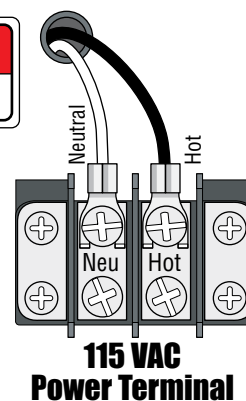
Locate existing threaded studs in operator. Heater **MUST** be mounted on mounting plate. Place the 2 supplied washers between the operator wall and the mounting plate to create an air gap.

**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.



## 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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