

1601-154 115VAC 3.3 Amp HEATER / FAN KIT

DoorKing Part Number

1601-154

115VAC Model
3.3 Amp

This kit is designed for DoorKing model gate operators:

6050/6100 (pg 1), **6300** (pg 2), **6550** (pg 8), **9000** (pg 3), **9050/9100** (pg 5), **9150** (pg 6), **9024** (pg 4) / **eVolve 2160** (pg 9) / **2170** (pg 10) **AC POWERED 115 VAC INPUT power ONLY**, and **1601/1602/1603** (pg 7). 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. **Find your SPECIFIC operator on the next pages.**

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 gate operator because of a **much greater current draw** when using the heater.

Use the wire run tables in this manual to determine the wire size and distances for your chosen gate operator when a heater is installed.

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 calculations are based on NEC 310.15(B)(16) with a maximum voltage drop of 3%. These wire runs are a general guideline but **these distances may vary**.

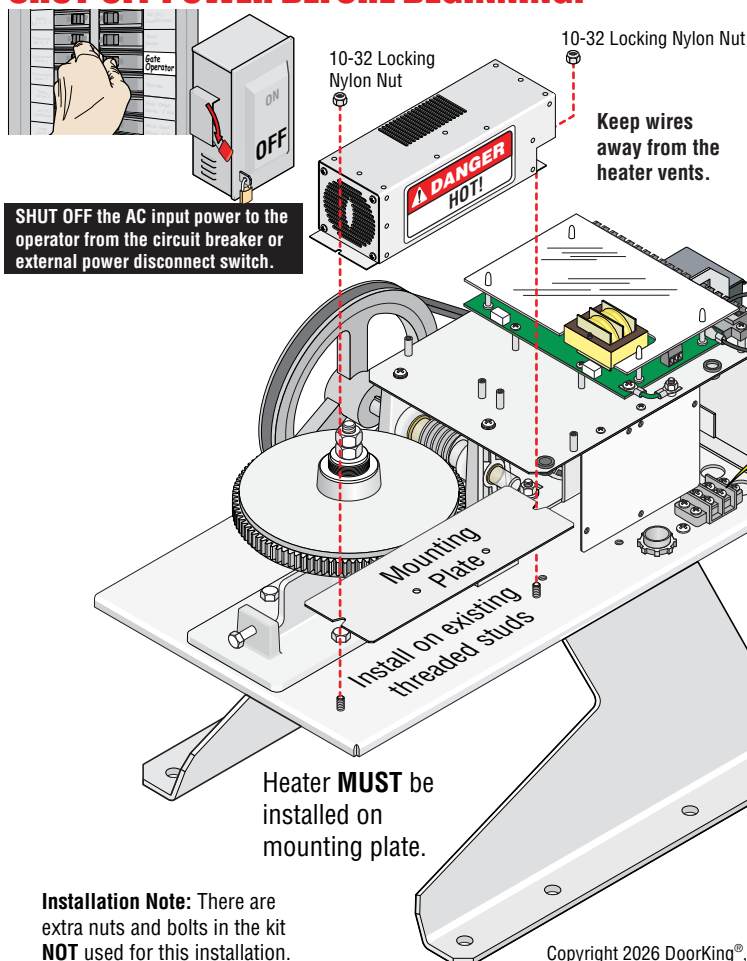
Never run low voltage rated wire insulation in the same conduit as high voltage rated wire insulation. Keep them in separate conduits.

6050 / 6100

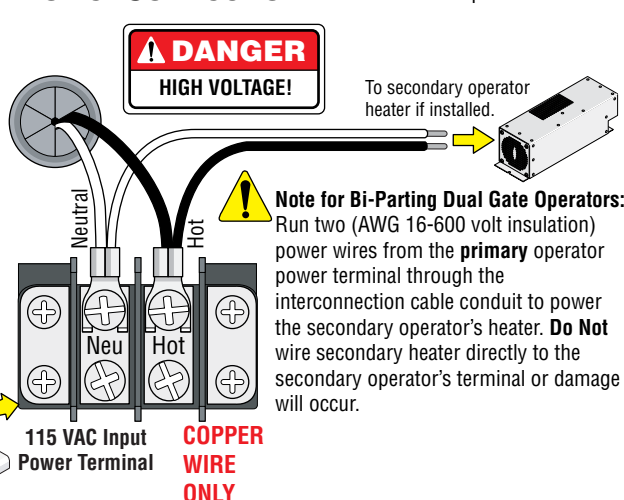
High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	8.7	100	150	250	400
Wire run distances are shown for a single 6050 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.							
	1/2 HP	115	8.7	100	150	250	400
Wire run distances are shown for a single 6100 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.							

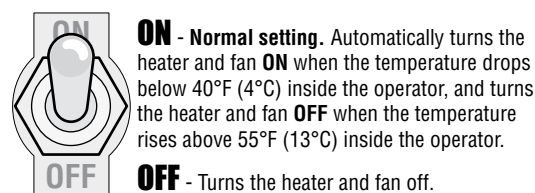
SHUT-OFF POWER BEFORE BEGINNING!



Power Connection



Heater Switch



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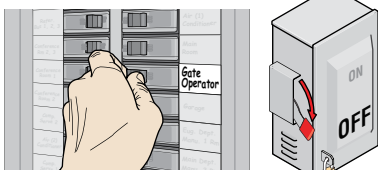
IMPORTANT: DO NOT install this heater kit if your gate operator has the optional **high voltage** kit installed on it.

High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	8.7	100	150	250	400
	1 HP	115	13.0	60	100	160	260

Wire run distances are shown for a single 6300 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.

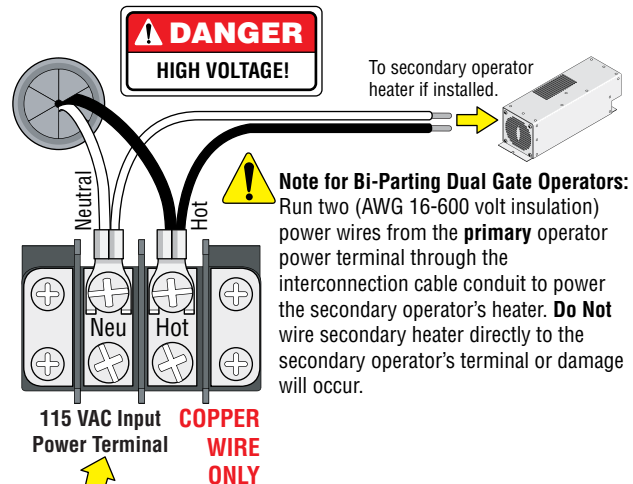
SHUT-OFF POWER BEFORE BEGINNING!



SHUT OFF the AC input power to the operator(s) from the circuit breaker or external power disconnect switch.

Power Connection

Connect the heater power wires.

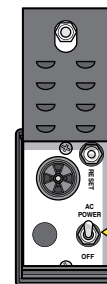


Heater Switch



ON - Normal setting. Automatically turns the heater and fan **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater and fan **OFF** when the temperature rises above 55°F (13°C) inside the operator.

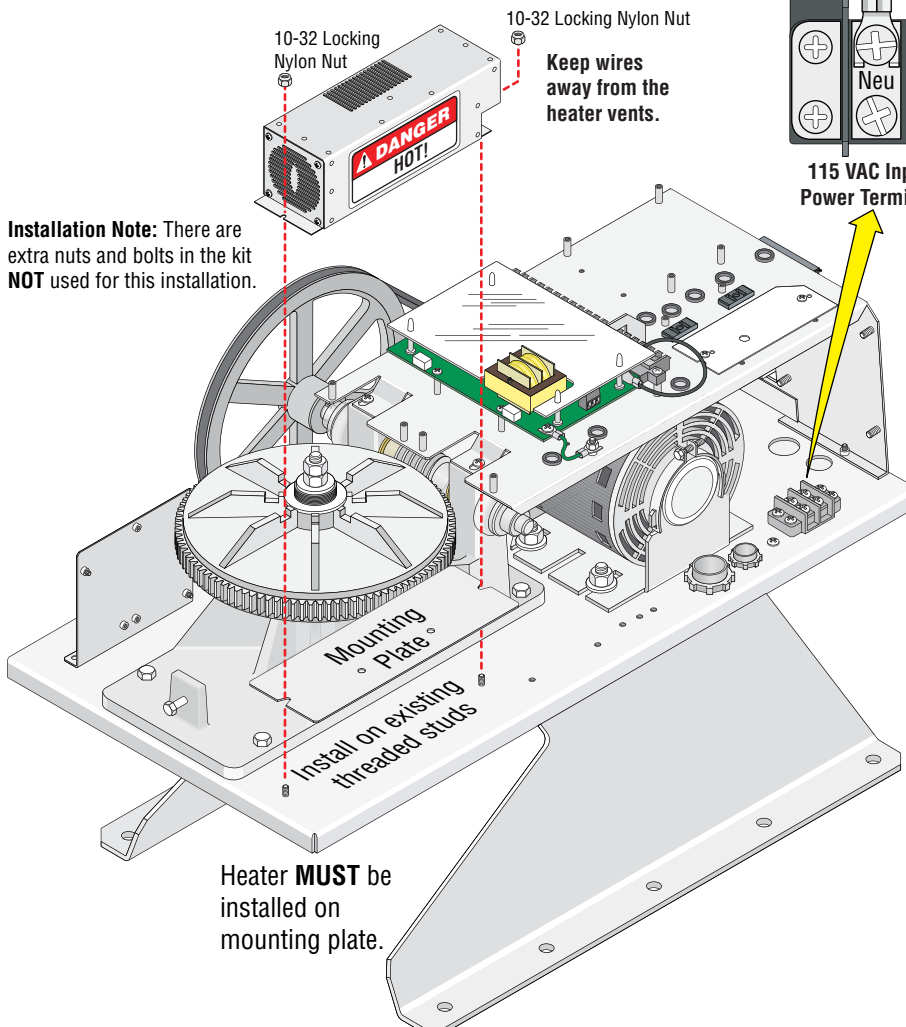
OFF - Turns the heater and fan off.



Note: Heater(s) will **NOT** turn off when using the gate operator ON/OFF power switch.

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Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.



Heater **MUST** be installed on mounting plate.

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

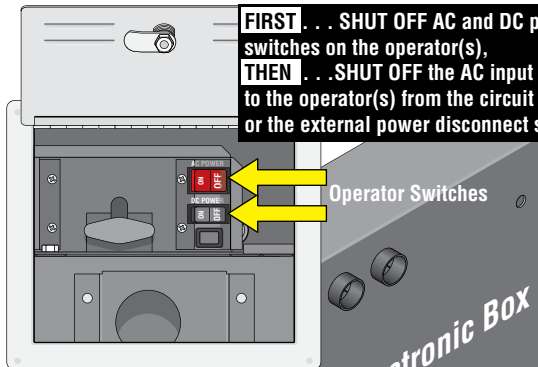
High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	8.7	100	150	250	400
	1 HP	115	13.0	60	100	160	260

Wire run distances are shown for a single 9000 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.

SHUT-OFF POWER to AC Powered Operator(s) ONLY BEFORE BEGINNING!

FIRST . . . SHUT OFF AC and DC power switches on the operator(s), THEN . . . SHUT OFF the AC input power to the operator(s) from the circuit breaker or the external power disconnect switch.



Operator Switches

Note: Heater(s) will NOT turn off when using the gate operator ON/OFF power switches.

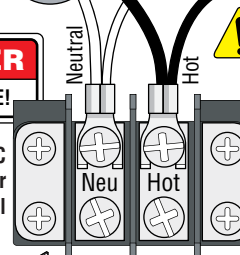
Power Connection

Connect the heater power wires in electronic box.

To secondary operator heater if installed.

DANGER
HIGH VOLTAGE!

115 VAC
Input Power
Terminal



Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the **primary** operator power terminal through the interconnection cable conduit to power the secondary operator's heater. **Do Not** wire secondary heater directly to the secondary operator's terminal or damage will occur.

COPPER WIRE ONLY

10-32 Locking Nylon Nut

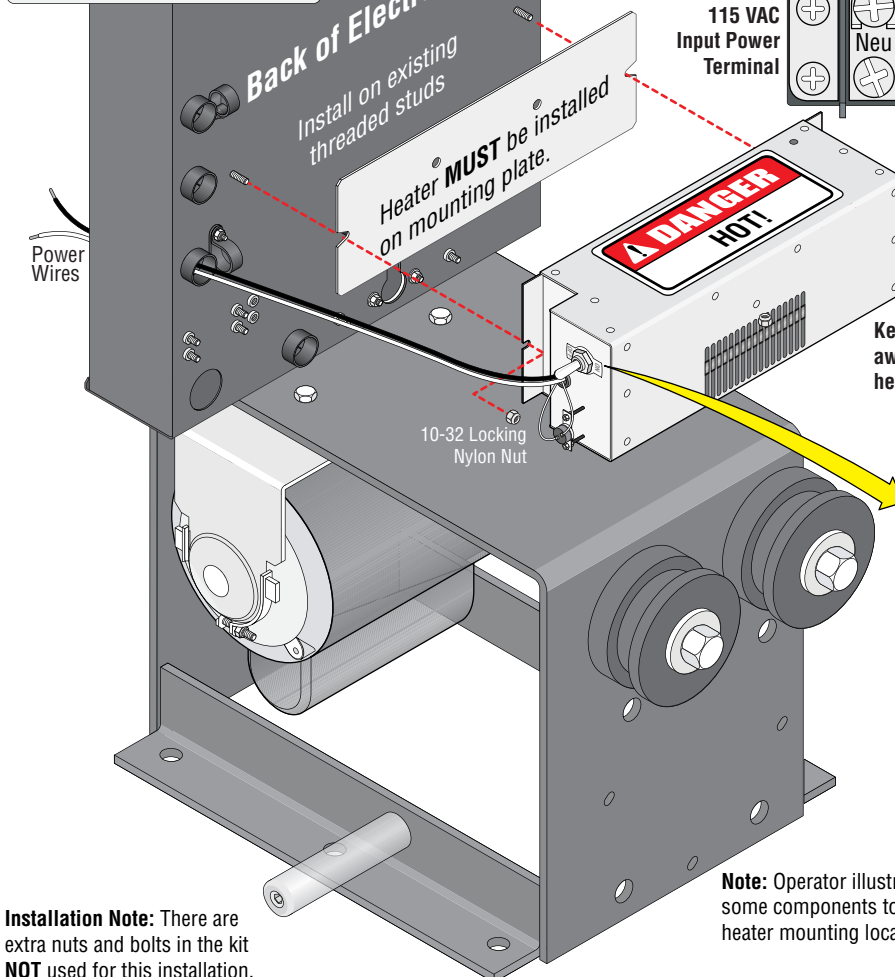
Keep wires away from the heater vents.

Heater Switch



ON - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater off.



Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.
9210-165-K-8-26

Note: Operator illustrated without some components to better show heater mounting location.

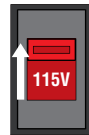
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9024 AC Powered 115 VAC ONLY

DoorKing Part Number

1601-154

This is **ONLY** for the 9024 AC Powered operator **using 115 VAC input power**.



Operator
Input Power
Selector Switch

High voltage AC input wire size and distance limitations for a single gate operator with a heater.

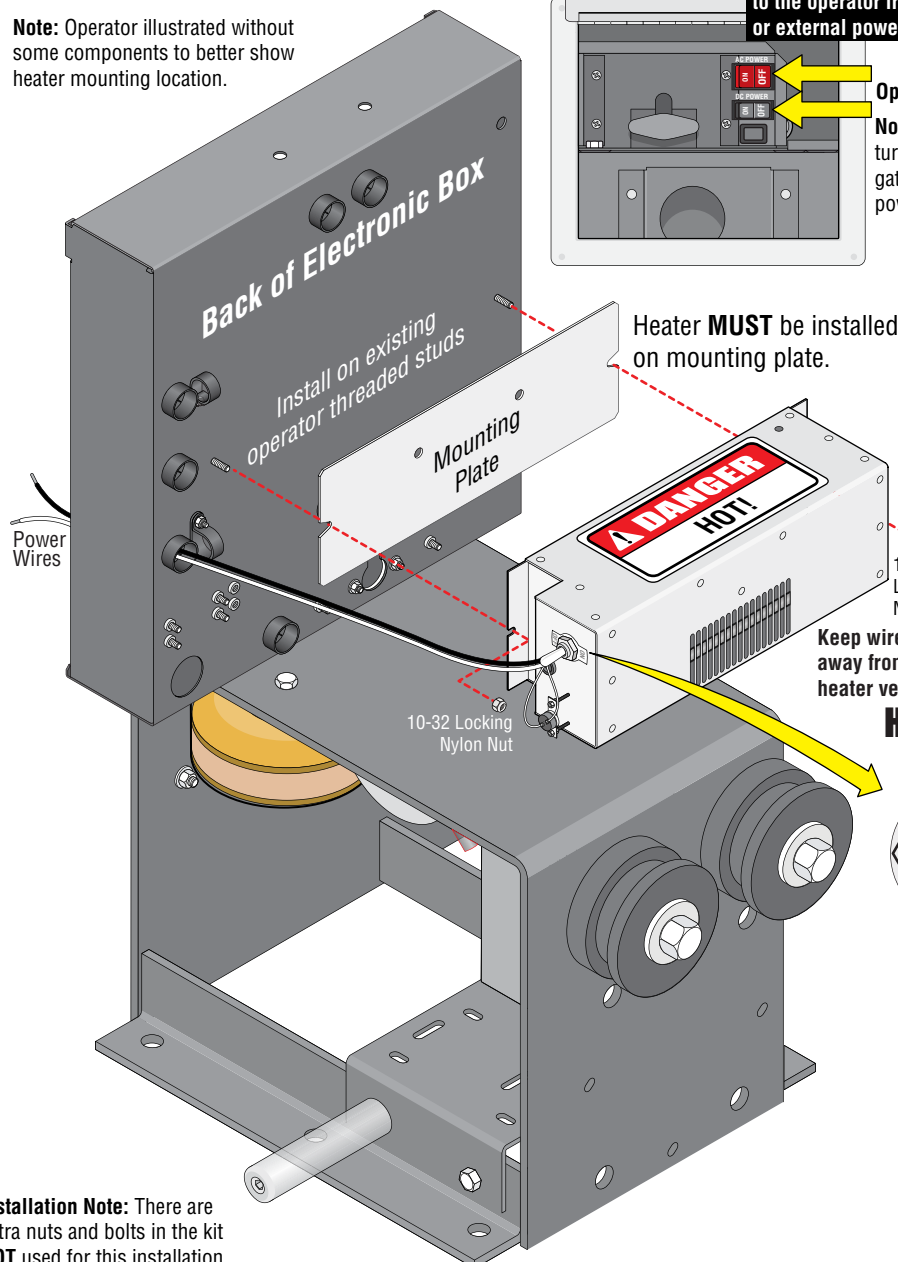
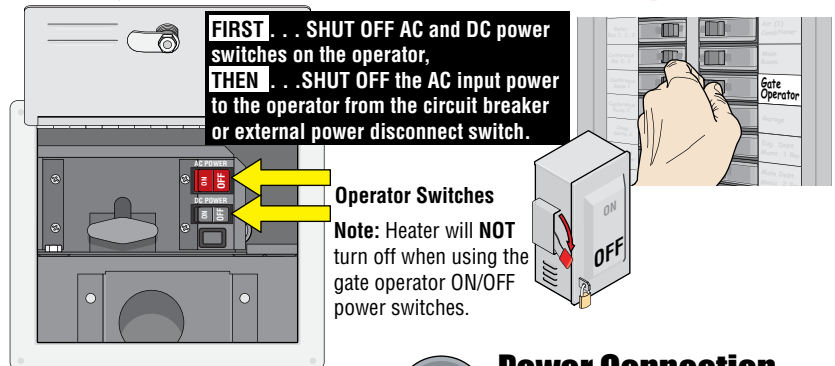
Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	Quadra Drive DC Motor	115 ONLY	5.1	170	270	430	680

In bi-parting (dual) gate applications, high voltage AC power is required for EACH 9024 AC Powered 115 VAC operator with heater.

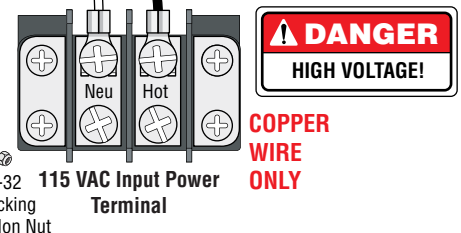
NO Solar Powered Operator

BEFORE BEGINNING, SHUT-OFF POWER to 9024 AC Powered Operator ONLY!

Note: Operator illustrated without some components to better show heater mounting location.



Power Connection
Connect the heater power wires in electronic box.



Heater Switch



ON - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater off.

Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.
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High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	8.7	100	150	250	400
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 9050 operator with heater.							
	1/2 HP	115	8.7	100	150	250	400
In bi-parting (dual) gate applications, AC input power is required for EACH 9100 operator with heater.							

DANGER
HIGH VOLTAGE!

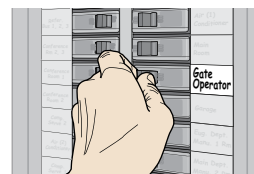
Power Connection

Connect the heater power wires in the electronic box.

COPPER WIRE ONLY

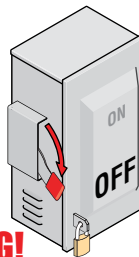
115 VAC Input Power Terminal

Heater Location



SHUT-OFF POWER BEFORE BEGINNING!

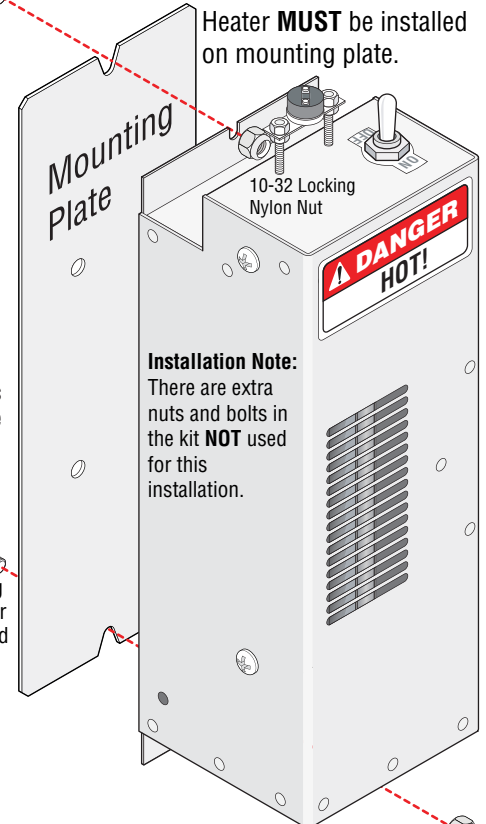
SHUT OFF the AC input power to the operator from the circuit breaker or external power disconnect switch.



Keep wires away from the heater vents.

Existing Operator Threaded Stud

Heater **MUST** be installed on mounting plate.



Installation Note:
There are extra nuts and bolts in the kit **NOT** used for this installation.

10-32 Locking Nylon Nut

Heater Switch



ON - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater off.

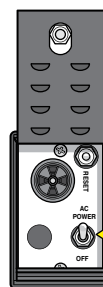


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Note: Operators illustrated without some components to better show heater mounting location.

9210-165-K-8-26

Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switch.



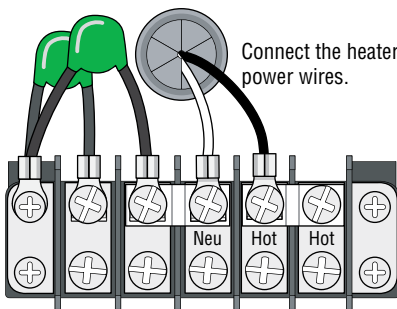
IMPORTANT: DO NOT install this heater kit if your gate operator has the optional **high voltage** kit installed on it.

High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115	8.7	100	150	250	400
	1 HP	115	13.0	60	100	160	260

In bi-parting (dual) gate applications, high voltage AC power is required for EACH 9150 operator with heater.

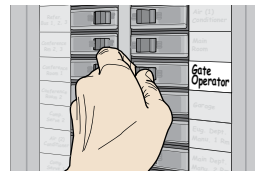
Power Connection



COPPER WIRE ONLY

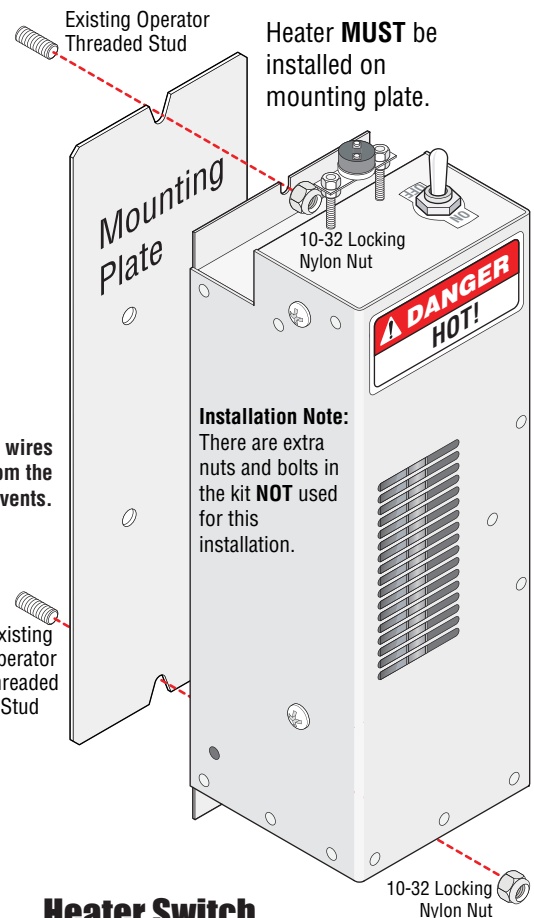
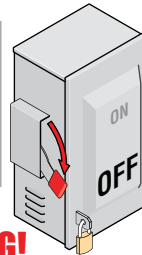
115 VAC Output
9150 ONLY

⚠ DANGER
HIGH VOLTAGE!



SHUT-OFF POWER BEFORE BEGINNING!

SHUT OFF the AC input power to the operator from the circuit breaker or external power disconnect switch.



Keep wires away from the heater vents.

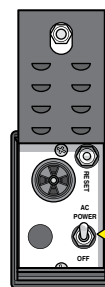
Heater Switch



ON - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater off.

Note: Operators illustrated without some components to better show heater mounting location.



Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switch.

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1601 / 1602 / 1603 Barrier Gate Operators

DoorKing Part Number

1601-154

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

High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
1601 / 1603	1/2 HP	115	8.7	100	150	250	400
1602	1 HP	115	13.0	60	100	160	260

In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601 or 1602 operator with heater.

BEFORE BEGINNING:

SHUT-OFF POWER for AC/DC Models!

FIRST . . . SHUT OFF AC and DC power switches on the operator.



THEN . . . SHUT OFF the AC input power to the operator from the circuit breaker or external disconnect switch.

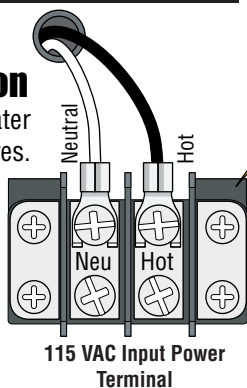
OR SHUT-OFF POWER for AC Models!



SHUT OFF the AC input power to the operator from the circuit breaker or external power disconnect switch.

Power Connection

Connect the heater power wires.



COPPER WIRE ONLY

Heater Switch



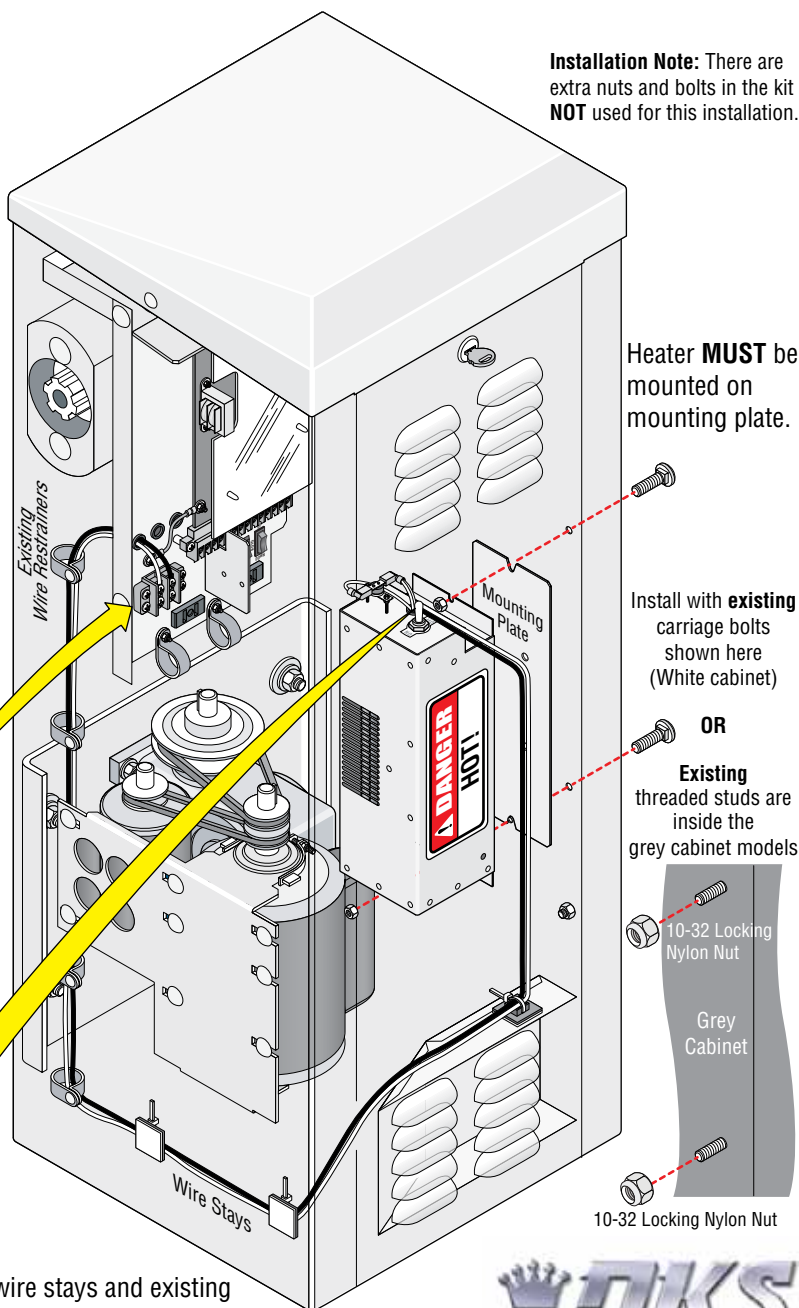
ON - Normal setting. Automatically turns the heater and fan **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater and fan **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater/fan off.

Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switches.

Use supplied wire stays and existing wire restrainers to run wires. **Keep wires clear of all moving parts and the heater vents.**

Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.



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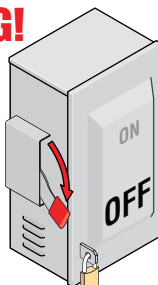
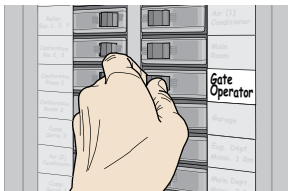
IMPORTANT: DO NOT install this heater kit if your gate operator has the optional **high voltage** kit installed on it.

High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1 HP	115	13.0	60	100	160	260

Wire run distances are shown for a single 6550 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.

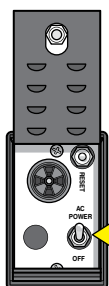
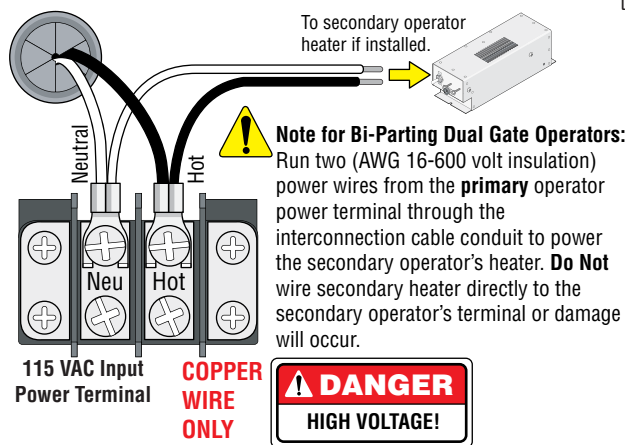
SHUT-OFF POWER BEFORE BEGINNING!



SHUT OFF the AC input power to the operator(s) from the circuit breaker or external power disconnect switch.

Power Connection

Connect the heater power wires.



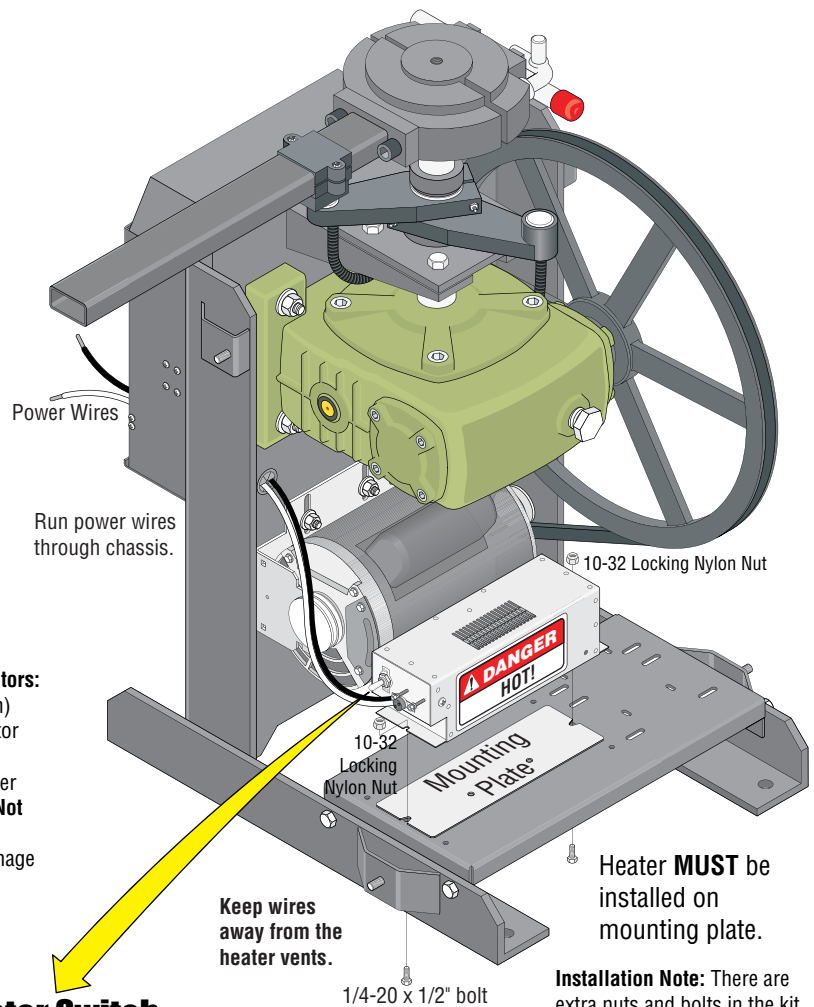
Note: Heater(s) will **NOT** turn off when using the gate operator ON/OFF power switch.

Heater Switch



ON - Normal setting. Automatically turns the heater and fan **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater and fan **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater and fan off.



Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.



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This is **ONLY** for the eVolve 2160 operator using **115 VAC input power**.

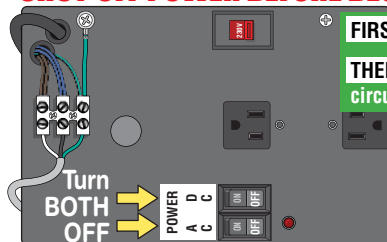


High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts/Watts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115/500 ONLY	8.3	100	170	225	425
	1 HP	115/750 ONLY	10.3	75	135	200	350

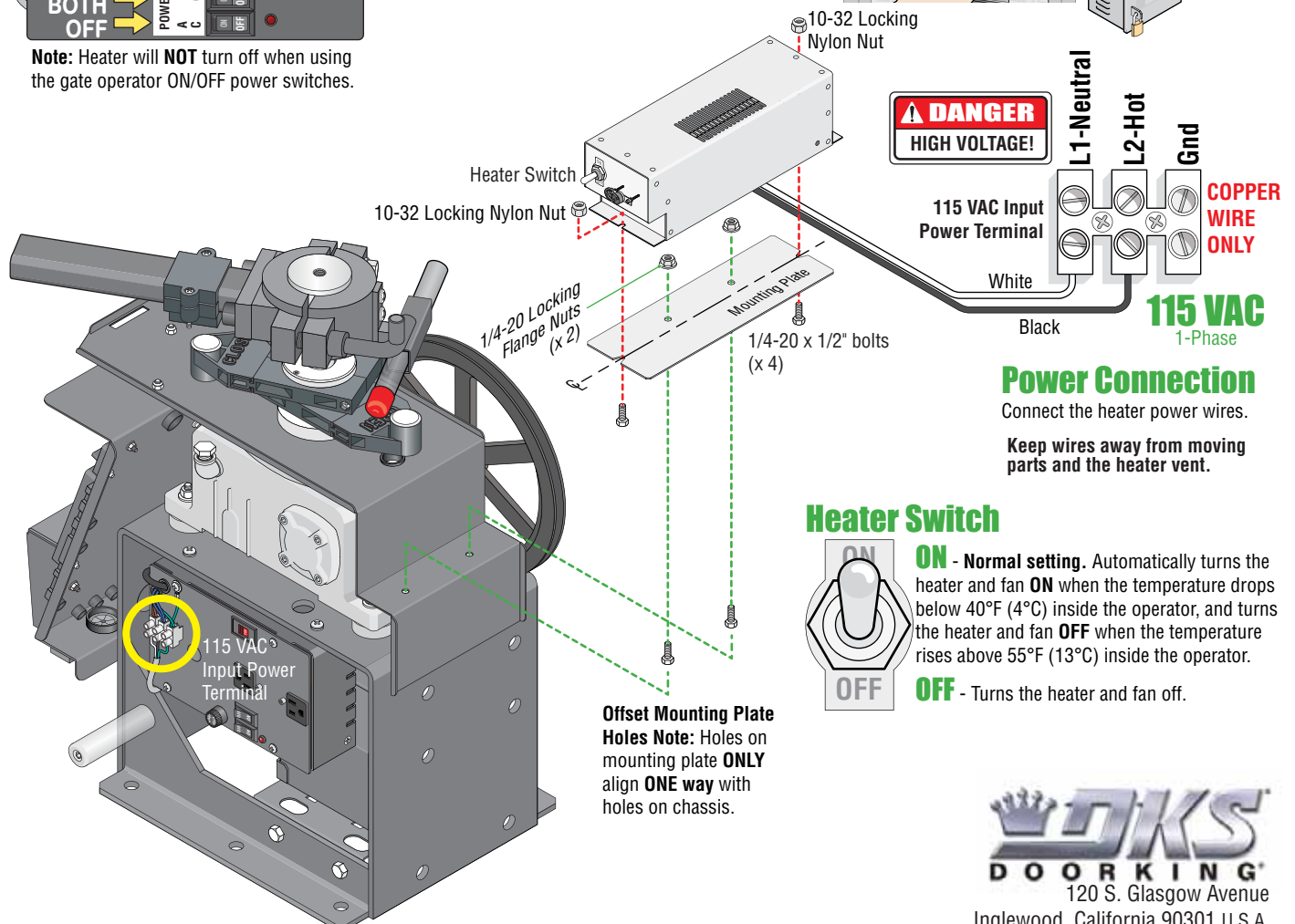
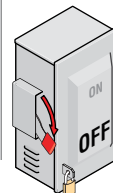
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 2160 operator with heater.

SHUT-OFF POWER BEFORE BEGINNING!



Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switches.

FIRST . . . SHUT OFF AC and DC power switches on the operator,
THEN . . . SHUT OFF the AC input power to the operator from the circuit breaker or the external power disconnect switch.



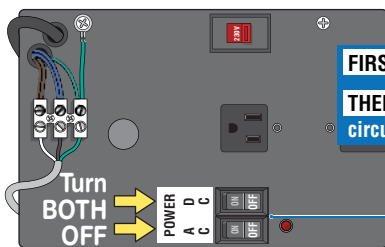
This is **ONLY** for the eVolve 2170 operator using **115 VAC input power**.



High voltage AC input wire size and distance limitations for a single gate operator with a heater.

Model	Horsepower	Volts/Watts	Operator and Heater Amps	Wire Size / Max Distance in Feet			
				12 AWG	10 AWG	8 AWG	6 AWG
	1/2 HP	115/500 ONLY	8.3	100	170	225	425
	1 HP	115/750 ONLY	10.3	75	135	200	350

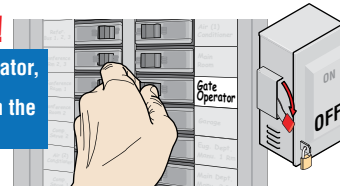
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 2170 operator with heater.



SHUT-OFF POWER BEFORE BEGINNING!

FIRST . . SHUT OFF AC and DC power switches on the operator,
THEN . . SHUT OFF the AC input power to the operator from the circuit breaker or the external power disconnect switch.

Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switches.



115 VAC Input Power Terminal

Offset Mounting Plate Holes Note: Mounting plate can **ONLY** be mounted **ONE** way on chassis otherwise heater will come into contact with gear reducer.

1/4-20 x 1/2" bolts (x 4)

Mounting Plate

1/4-20 Locking Flange Nuts (x 2)

10-32 Locking Nylon Nut

10-32 Locking Nylon Nut

Power Connection

Connect the heater power wires.

DANGER
HIGH VOLTAGE!

115 VAC Input Power Terminal

10-32 Locking Nylon Nut

Keep wires away from moving parts and the heater vent.

115 VAC 1-Phase

L1-Neutral (White)
L2-Hot (Black)
Gnd

COPPER WIRE ONLY

Heater Switch

ON - Normal setting. Automatically turns the heater and fan **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater and fan **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater and fan off.

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