

-195 / -197 / -198 HEATER / FAN KITS

DoorKing Part Numbers:

1601-195 Kit

115 VAC Model
6.6 Amp

1601-197 Kit

208/230 VAC Models
3.3 Amp

1601-198 Kit

460 VAC Models
3.3 Amp

These Heater/Fan kits are designed 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.**

- **9200** 115 / 208 / 230 / 460 VAC Input power (pages 1,2)
- **9000** 208/230 VAC or 460 VAC Input power (pages 5,6)
- **9150** 208/230 VAC or 460 VAC Input power (pages 8,9)
- **6300** 208/230 VAC or 460 VAC Input power (pages 11,12)
- **eVolve 2160** swinger 230 VAC Input power ONLY (page 15)
- **1601/1602/1603** 208/230 or 460 VAC Input power (pages 16,17).
- **9500** 208 / 230 / 460 VAC Input power (pages 3,4)
- **9024** AC powered slider 230 VAC ONLY (page 7)
- **eVolve 2170** slider 230 VAC Input power ONLY (page 10)
- **6550** 208/230 VAC or 460 VAC Input power (pages 13,14)

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.

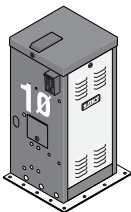
Use the wire run tables in this manual for wire sizes and distances for your chosen gate operator when a heater is installed.

9200 Specifications Tables

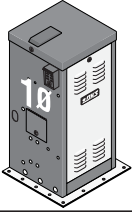
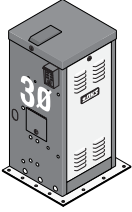
The 9200 draws significant power and should have a **“Dedicated”** circuit breaker at the power source.

If 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 it is highly suggested that individual calculations are made for your specific installation as these distances may vary. **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 limitations for a 9210 - **115 VAC** with a heater.

Phase	Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
					12 AWG	10 AWG	8 AWG	6 AWG	
	9210	1	115 VAC	16.3	50	80	130	210	1601-195
					Note: Operator should have a “Dedicated 20 Amp” minimum circuit breaker at the power source.				

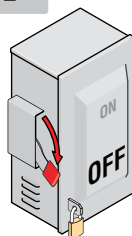
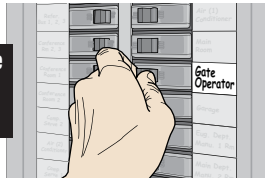
High voltage AC input wire size and distance limitations for a 9200 - **208/230 VAC OR 460 VAC** with a heater.

Phase	Model	Motor Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
					12 AWG	10 AWG	8 AWG	6 AWG	
	9210	1	208 VAC	8.4	180	290	470	750	1601-197
			230 VAC	8.3	210	330	530	840	1601-197
	9220	2	208 VAC	15.0	100	160	260	420	1601-197
			230 VAC	14.8	110	180	290	470	1601-197
	9210	1	208 VAC	6.7	270	430	680	1090	1601-197
			230 VAC	6.6	300	480	770	1220	1601-197
			460 VAC	5	800	1280	2040	3240	1601-198
	9220	2	208 VAC	10.0	180	290	460	730	1601-197
			230 VAC	9.6	210	330	530	840	1601-197
			460 VAC	6.6	610	970	1540	2450	1601-198
	9230/9240	3	208 VAC	13.2	130	210	340	550	1601-197
			230 VAC	13.0	150	240	390	620	1601-197
			460 VAC	8.0	300	800	1100	2000	1601-198
	9235	3	208 VAC	16.2	110	170	280	450	1601-197
			230 VAC	16.0	120	200	310	500	1601-197
			460 VAC	8.0	300	800	1100	2000	1601-198

9200 Installation of Heater

SHUT-OFF POWER BEFORE BEGINNING!

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



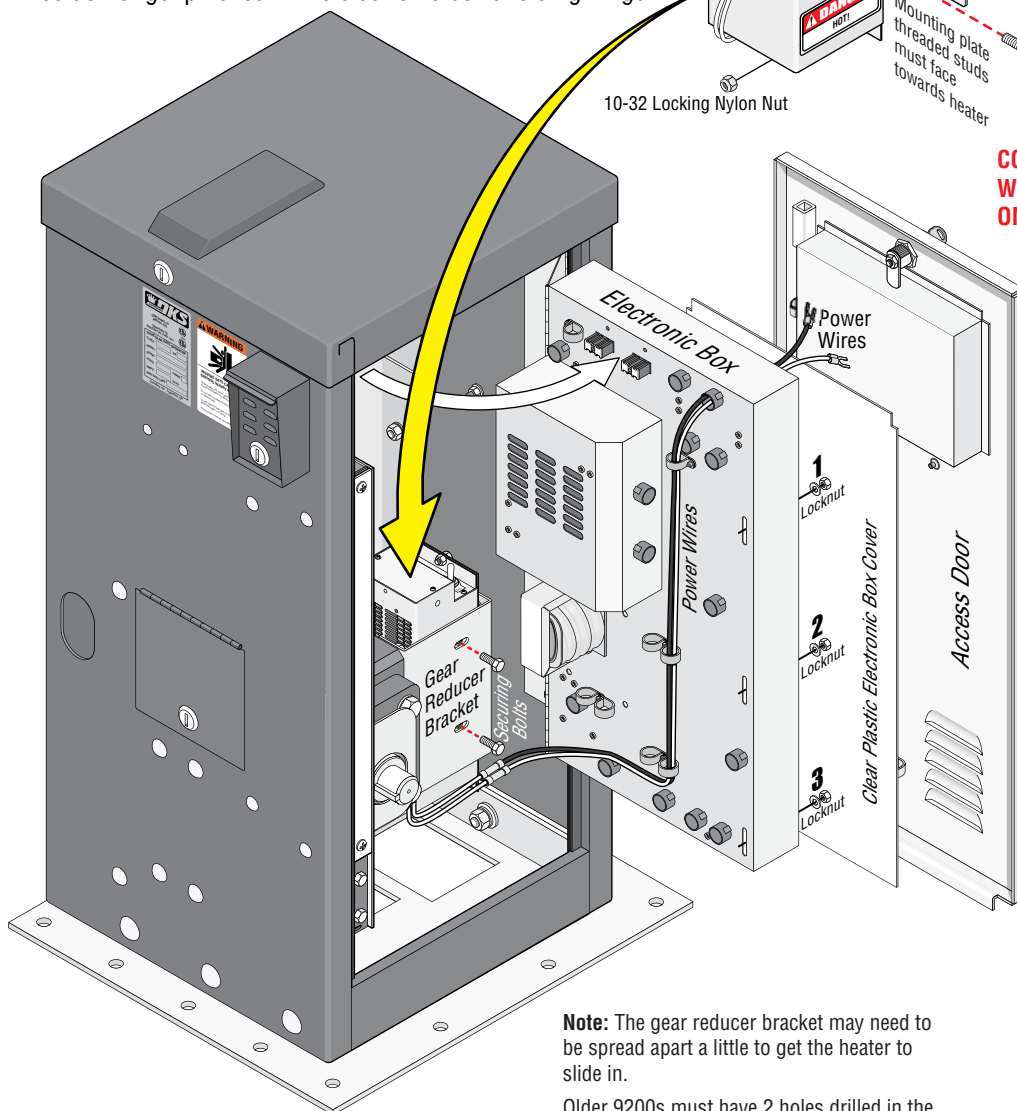
Remove clear plastic electronic box cover. Remove the 3 locknuts inside the electronic box to swing box open.

Bolt mounting plate to heater with 2 supplied bolts and nuts.

Slide heater into the gear reducer bracket as shown below and bolt heater to the bracket with 2 supplied securing bolts.

Run the 2 power wires as shown below.

Keep wires away from the heater vents and make sure wires do not get pinched in the electronic box's folding hinge.



Note: The gear reducer bracket may need to be spread apart a little to get the heater to slide in.

Older 9200s must have 2 holes drilled in the gear reducer bracket for the securing bolts.

DoorKing Part Numbers

1601-195 Kit

115 VAC Model
6.6 Amp

1601-197 Kit

208/230 VAC Models
3.3 Amp

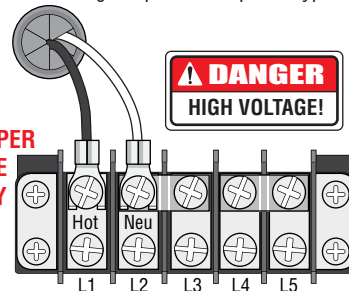
1601-198 Kit

460 VAC Models
3.3 Amp

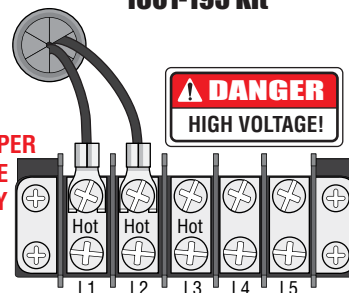
Wire run tables on previous page.

Power Connection

Connect the 2 heater power wires according to operator AC power type.



115 VAC
1601-195 Kit



208/230/460 VAC
1-Phase and 3-Phase
1601-197 Kit (208/230 VAC)
1601-198 Kit (460 VAC)

Heater Switch for: 115/208/230 VAC



OFF - Turns the heater off.

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.

Note: Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.



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

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

1601-167-K-8-26

9500 Specifications Table

DoorKing Part Numbers:

1601-197 Kit
208/230 VAC Models
3.3 Amp

1601-198 Kit
460 VAC Models
3.3 Amp

High Voltage AC Input Power for the 9500 Gate Operator with a Heater(s)

The 9500 draws significant power and should have a “Dedicated” circuit breaker at the power source.

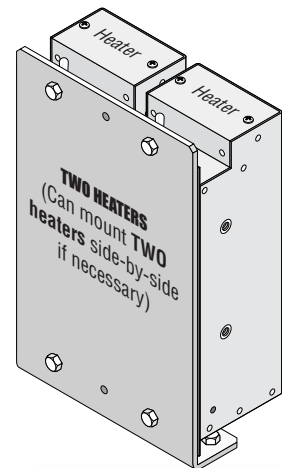
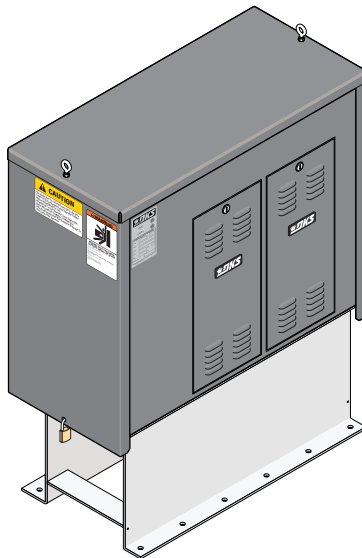
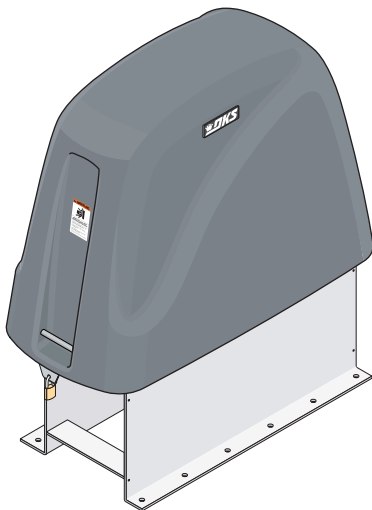
If power wiring is greater than the maximum distance shown, it is recommended that a service feeder be installed. When large gauge wire is used, a separate junction box must be installed for the operator connection. Wire run calculations are based on NEC 310.15(B)(16) with a maximum voltage drop of 3%. These wire runs are a general guideline but it is highly suggested that individual calculations are made for your specific installation as these distances may vary.

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 limitations for a 9500 - 208/230 VAC OR 460 VAC with 1 heater or 2 heaters.

Model	Motor Horsepower	Phase	Volts	Operator and Heater Amps		Wire Size / Max Distance in Feet								Heater Kit P/N Sold Individually
				One Heater	Two Heaters	12 AWG		10 AWG		8 AWG		6 AWG		
9550/9555	5	3	208 VAC	16.2	19.5	110	90	175	140	280	230	450	370	1601-197
			230 VAC	16.1	19.4	125	100	195	160	315	260	500	410	
			460 VAC	9.7	13	410	300	660	490	1050	780	1650	1240	
		1	208 VAC	24.4	27.7	n/a	n/a	100	80	160	140	260	220	1601-197
			230 VAC	22.4	25.7	n/a	n/a	120	100	190	160	310	270	
			460 VAC	12.5	15.8	270	220	430	350	700	550	1100	880	
9570/9575	7	3	208 VAC	25.0	28.3	n/a	n/a	110	100	180	160	290	250	1601-197
			230 VAC	23.8	27.1	n/a	n/a	130	110	210	180	340	290	
			460 VAC	13.5	18.8	290	210	470	340	750	540	1200	860	
		1	208 VAC	35.0	38.3	n/a	n/a	n/a	n/a	110	100	180	160	1601-197
			230 VAC	32.0	35.3	n/a	n/a	n/a	n/a	130	120	210	190	
			460 VAC	17.0	20.3	200	170	320	270	510	430	820	680	
9590/9595	10	3	208 VAC	29.3	32.6	n/a	50	90	80	150	140	250	220	1601-197
			230 VAC	26.3	29.6	n/a	60	120	100	190	170	300	270	
			460 VAC	15.3	18.6	260	210	410	340	660	540	1060	870	
		1	208 VAC	45.5	48.8	n/a	n/a	n/a	n/a	n/a	n/a	130	120	1601-197
			230 VAC	41.4	44.7	n/a	n/a	n/a	n/a	n/a	n/a	160	150	
			460 VAC	21.6	24.9	n/a	n/a	250	220	400	350	640	560	

Note: *Italic type are “Amps” and “Distances” for TWO Heaters.*



Installation on next page.



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

9500 Installation of Heater

Wire run tables on previous page.

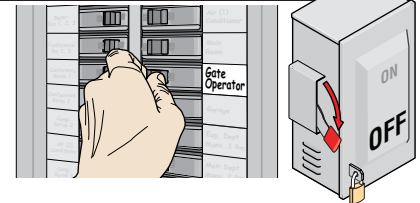
DoorKing Part Numbers:

1601-197 Kit
208/230 VAC Models
3.3 Amp

1601-198 Kit
460 VAC Models
3.3 Amp

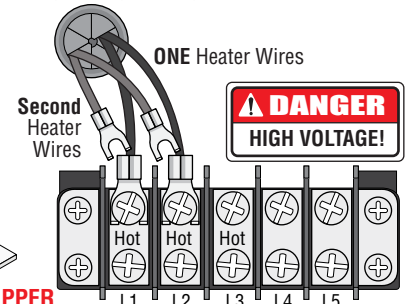
**SHUT-OFF POWER
BEFORE BEGINNING!**

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



Power Connection

Connect the heater(s) power wires to operator power input terminal as shown.



**COPPER
WIRE
ONLY**

208/230/460 VAC
1-Phase and 3-Phase

1601-197 Kit (208/230 VAC)

1601-198 Kit (460 VAC)

Heater Switch for: 208/230 VAC



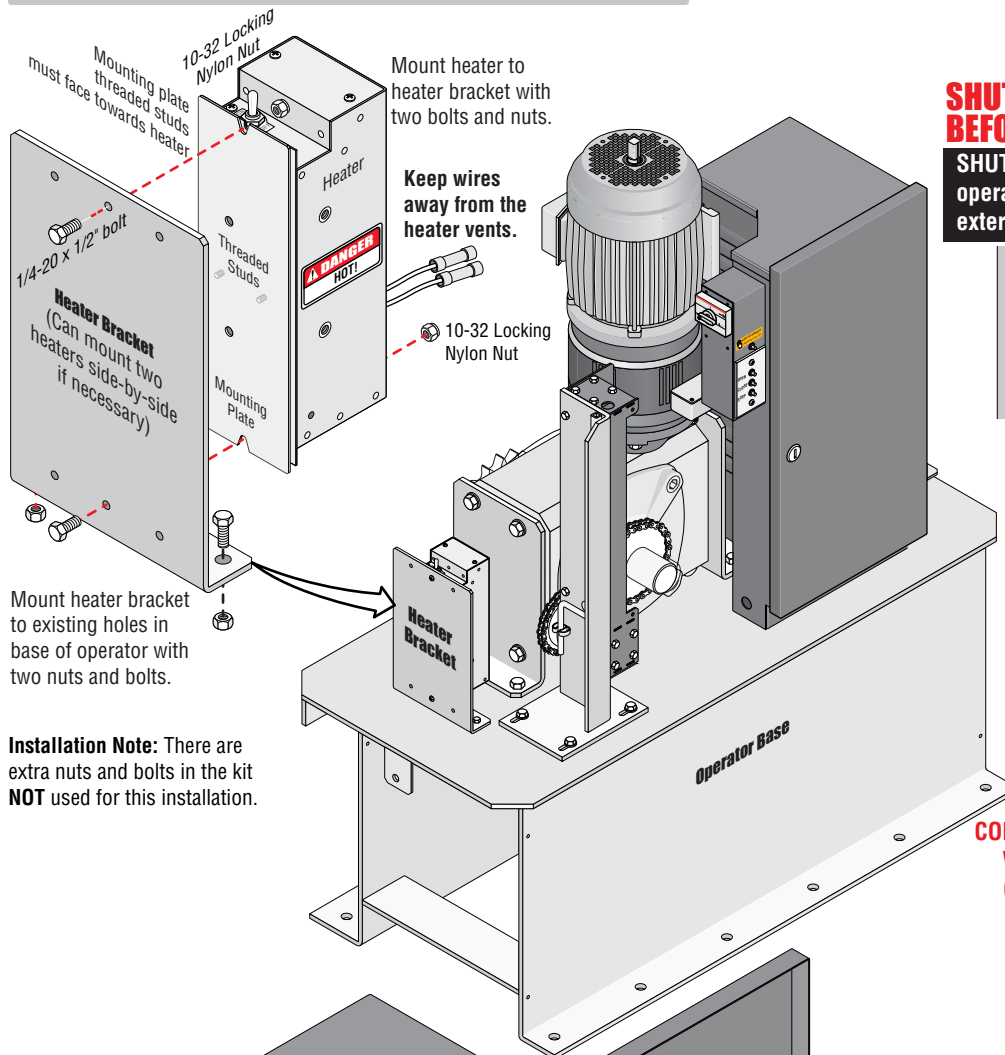
ON - Normal setting. Automatically turns the heater **ON** when the temperature drops below 40°F (4°C) inside the operator, and turns the heater **OFF** when the temperature rises above 55°F (13°C) inside the operator.

OFF - Turns the heater off.

Note: Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.

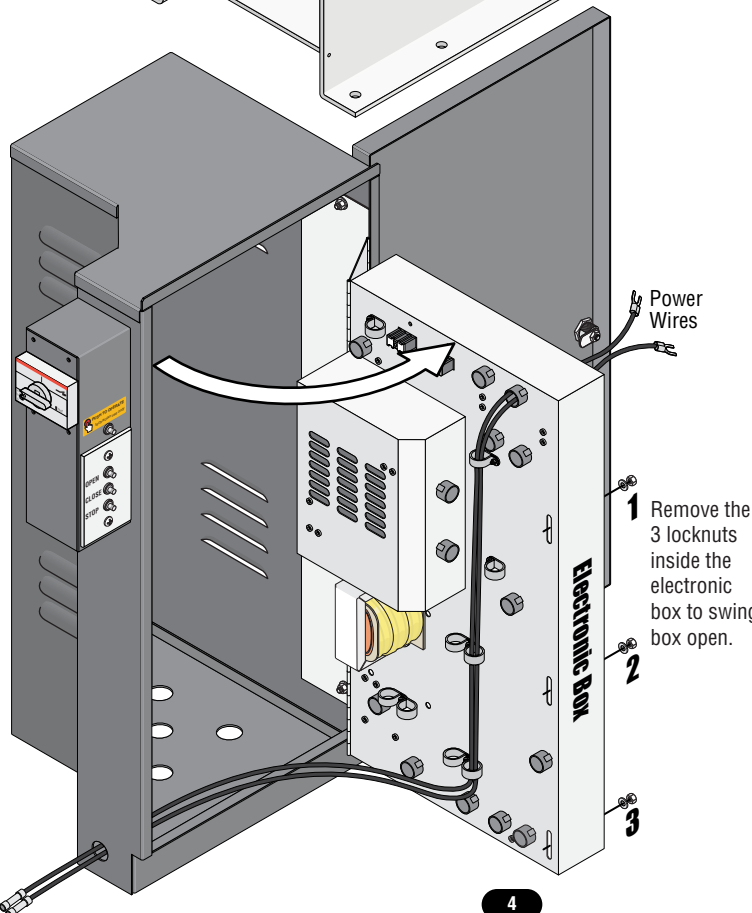


120 S. Glasgow Avenue
Inglewood, California 90301 U.S.A.



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

Run the 2 power wires as shown. Make sure wires do not get pinched in the electronic box's folding hinge.



9000 - 208/230 VAC Input Power ONLY

DoorKing Part Number:

1601-197 Kit

208/230 VAC Models

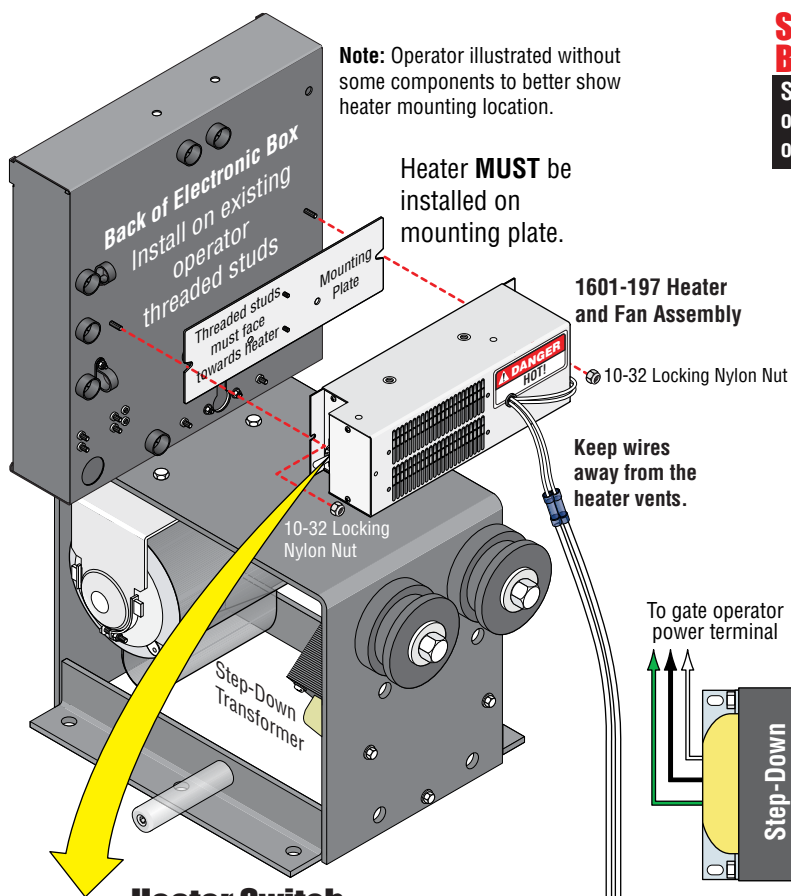
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for 9000 208/230 VAC Input Power with a heater.

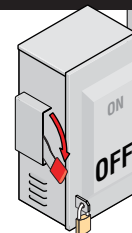
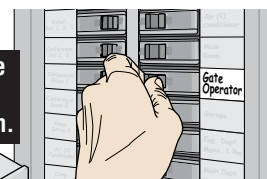
Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1/2 HP	208/230	6.0	260	410	660	1050	1601-197
	1 HP	208/230	8.2	190	300	480	770	1601-197

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

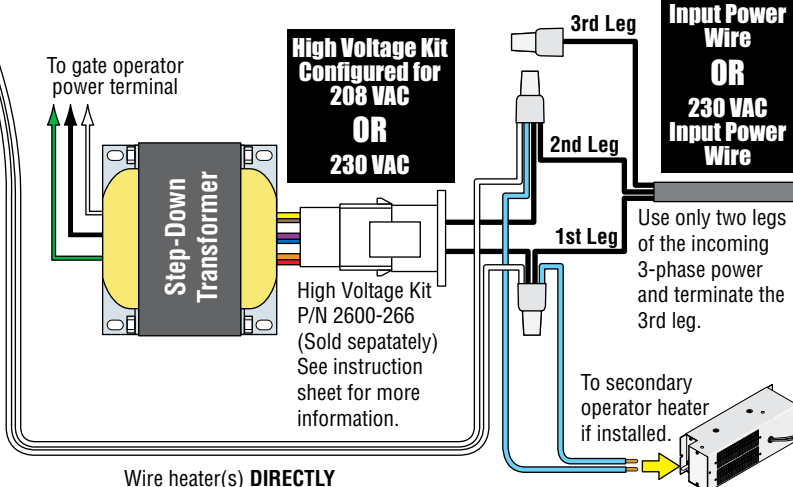


SHUT-OFF POWER BEFORE BEGINNING!

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



DANGER
HIGH VOLTAGE!

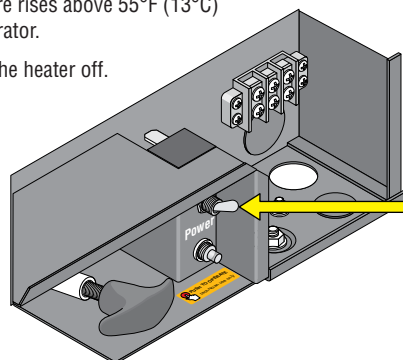


Heater Switch



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.



Wire heater(s) **DIRECTLY** from input power wire.

DO NOT wire heater to gate operator power terminal or damage will occur.

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

Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.
1601-167-K-8-26

Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the **input power wire** through the interconnection cable conduit to power the secondary operator's heater.

DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.

DOORS DOOR KING

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

9000 - 460 VAC Input Power ONLY

DoorKing Part Number:

1601-198 Kit

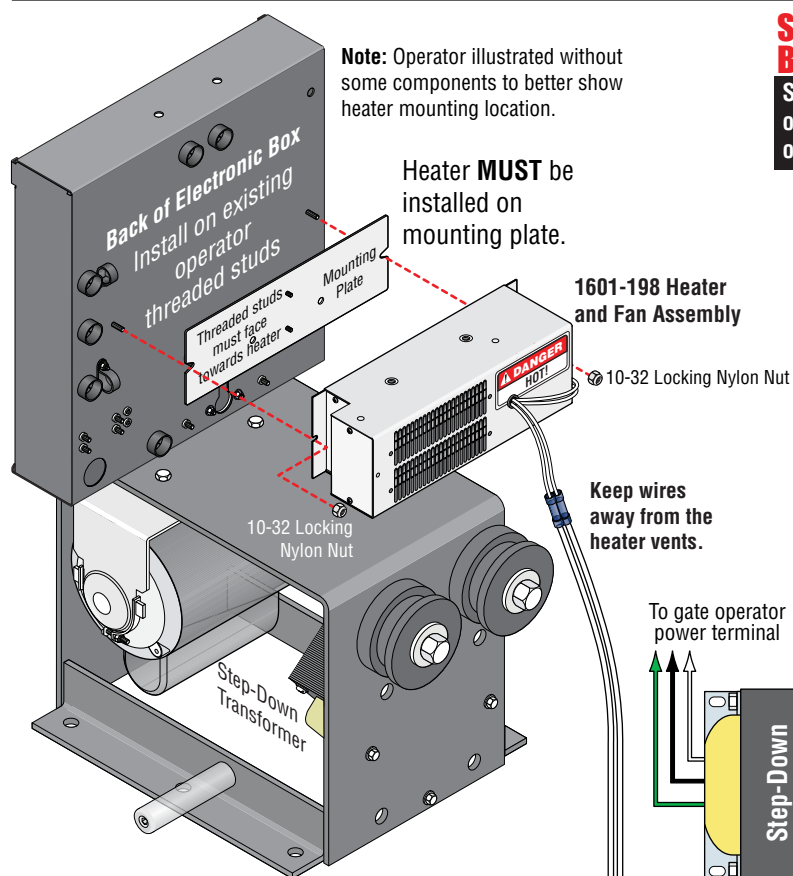
460 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for 9000 460 VAC Input Power with a heater.

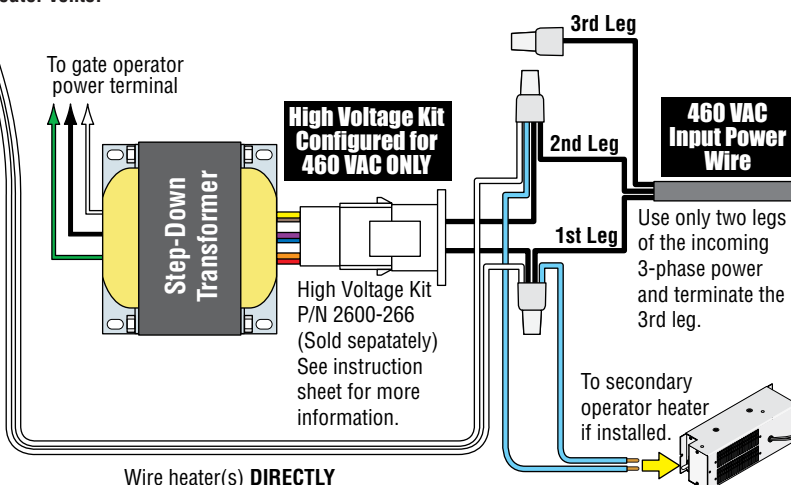
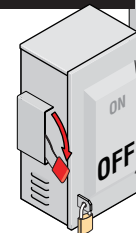
Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
				12 AWG	10 AWG	8 AWG	6 AWG	
	1/2 HP	460	4.7	1160	1850	2940	4670	1601-198
	1 HP	460	5.7	850	1350	2150	3420	1601-198

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



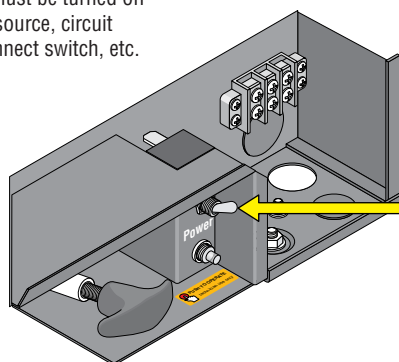
SHUT-OFF POWER BEFORE BEGINNING!

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



Turning Heater On/Off

Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.



Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.
1601-167-K-8-26

Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the **input power wire** through the interconnection cable conduit to power the secondary operator's heater.

DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.



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

9024 AC Powered - 230 VAC ONLY

DoorKing Part Number:

1601-197 Kit
208/230 VAC Models
3.3 Amp

This is **ONLY** for the 9024 AC Powered operator using 230 VAC input power.



Operator
Input Power
Selector Switch

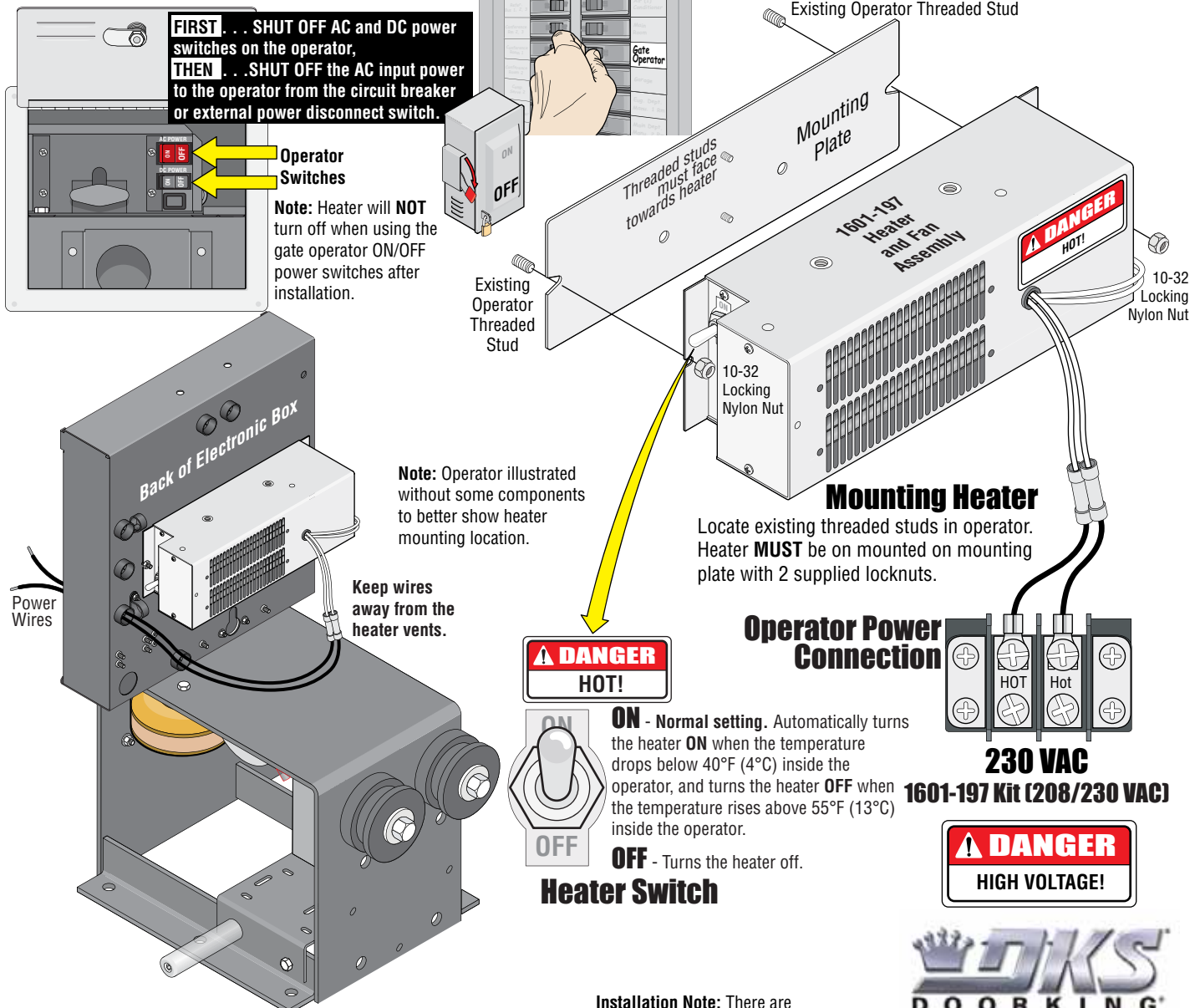
If power wiring is greater than the maximum distance shown, it is recommended that a service feeder be installed. When large gauge wire is used, a separate junction box must be installed for the operator connection. The wire table is based on stranded copper wire. Wire run calculations are based on an AC power source with a 3% voltage drop on the power line, plus an additional 10% reduction in distance to allow for other losses in the system.

High voltage AC input wire size and distance limitations for a 9024 AC Powered 230 VAC with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	Quadra Drive DC Motor	230 ONLY	4.2	410	660	1050	1670	1601-197
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 9024 AC Powered 230 VAC operator with heater.								

NO Solar Powered Operator

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



9024 AC Powered - 230 VAC ONLY

1601-167-K-8-26

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

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

9150 - 208/230 VAC Input Power ONLY

DoorKing Part Number:

1601-197 Kit

208/230 VAC Models

3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

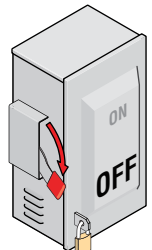
High voltage AC input wire size and distance limitations for a 9150 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1/2 HP	208/230	6.0	260	410	660	1050	1601-197
	1 HP	208/230	8.2	190	300	480	77	1601-197

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

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

SHUT-OFF POWER BEFORE BEGINNING!



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

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

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

DANGER
HIGH VOLTAGE!

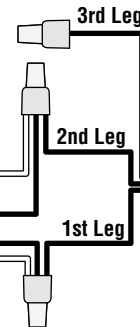
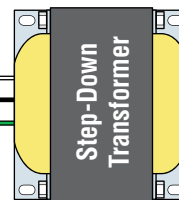
High Voltage Kit Configured for 208 VAC OR 230 VAC

High Voltage Kit P/N 2600-266 (Sold separately) See instruction sheet for more information.

208 VAC Input Power Wire OR 230 VAC Input Power Wire

Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

To gate operator power terminal

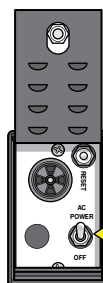


Heater **MUST** be installed on mounting plate. Install on existing operator threaded studs.

Keep wires away from the heater vents.

Wire heater **DIRECTLY** from input power wire.

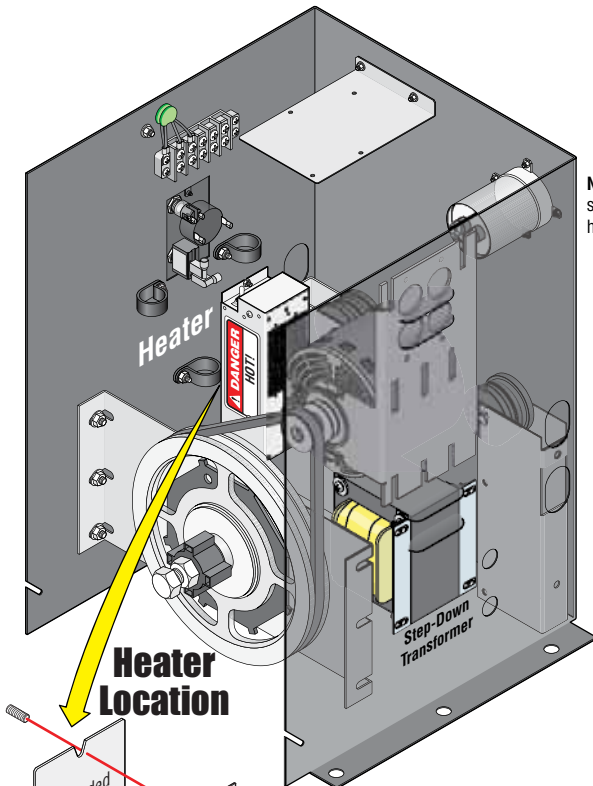
DO NOT wire heater to gate operator power terminal or damage will occur.



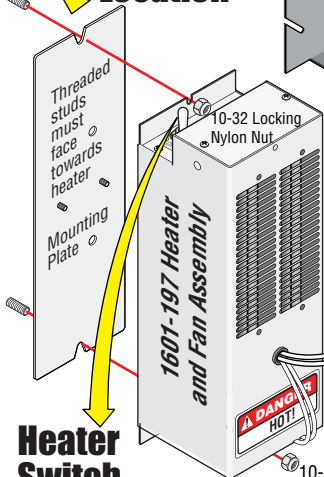
Note: Heater will **NOT** turn off when using the gate operator ON/OFF power switch.

DKS
DOOR KING

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



Heater Location



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.

1601-167-K-8-26

9150 - 460 VAC Input Power ONLY

1601-198 Kit

460 VAC Models

3.3 Amp

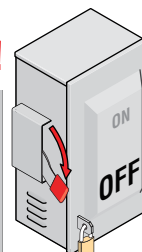
IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for a 9150 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
				12 AWG	10 AWG	8 AWG	6 AWG	
	1/2 HP	460	4.7	1160	1850	2940	4670	1601-198
	1 HP	460	5.7	850	1350	2150	3420	1601-198

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

**SHUT-OFF POWER
BEFORE BEGINNING!**

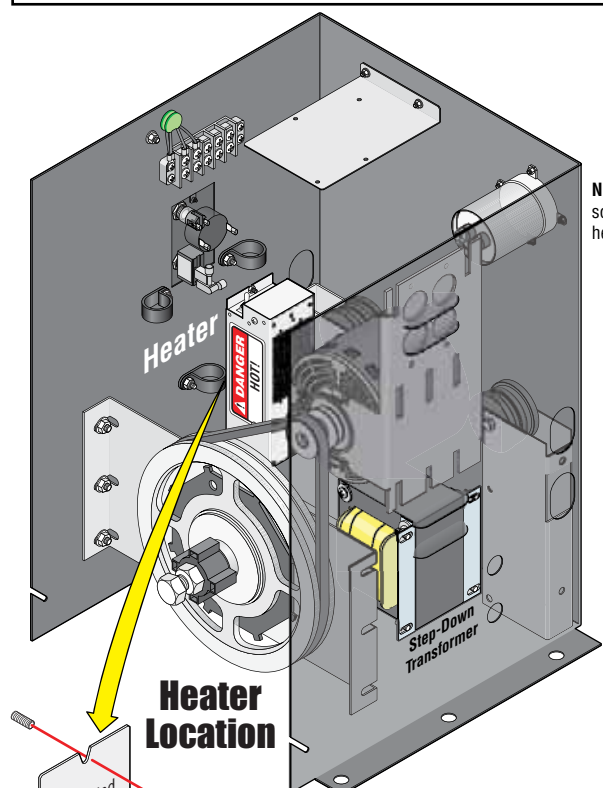


SHUT OFF the AC input power to the operator from the circuit breaker or external power disconnect switch.

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

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

**! DANGER
HIGH VOLTAGE!**

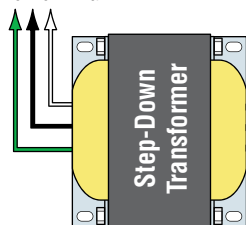


Heater Location

Heater **MUST** be installed on mounting plate. Install on existing operator threaded studs.

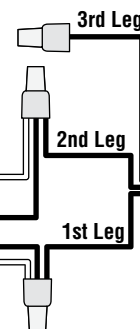
Keep wires away from the heater vents.

To gate operator power terminal



**High Voltage Kit
Configured for
460 VAC ONLY**

High Voltage Kit
P/N 2600-266
(Sold separately)
See instruction
sheet for more
information.



**460 VAC
Input Power
Wire**

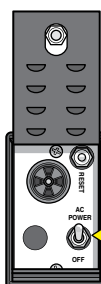
Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

Wire heater **DIRECTLY** from input power wire.

DO NOT wire heater to gate operator power terminal or damage will occur.

Turning Heater On/Off

Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.



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

**DKS
DOOR KING**

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

eVolve 2170 230VAC Input Power ONLY



DoorKing Part Number

1601-197 Kit

208/230 VAC Models
3.3 Amp

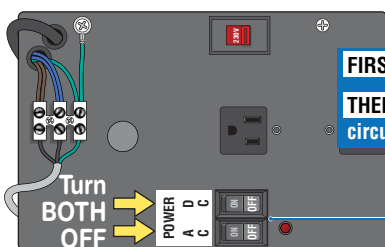
This is **ONLY** for the eVolve 2170 operator using **230 VAC input power**.



High voltage AC input wire size and distance limitations for a eVolve 2170 230 VAC with a heater.

Model	Horsepower	Volts/Watts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
				12 AWG	10 AWG	8 AWG	6 AWG	
	1/2	230/500 ONLY	6.3	275	450	725	1150	1601-197
	1	230/750 ONLY	7.3	175	275	425	700	

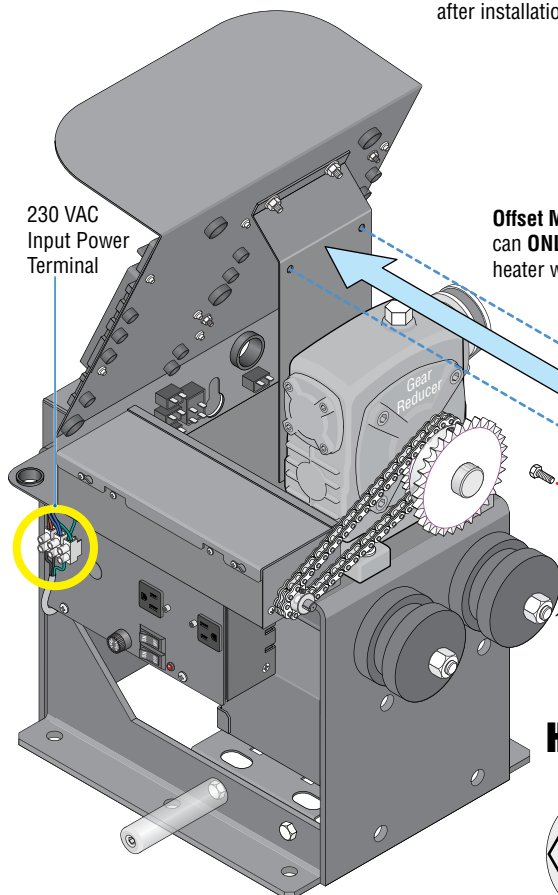
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 2170 operator with heater.



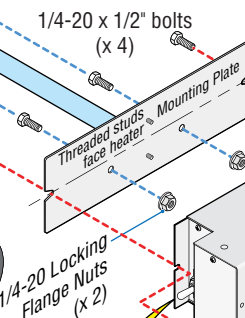
SHUT-OFF POWER BEFORE BEGINNING!

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 after installation.



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



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.

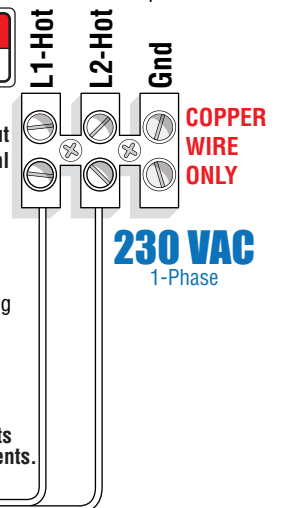
OFF - Turns the heater and fan off.

Power Connection

Connect the heater power wires.



230 VAC Input Power Terminal



230 VAC
1-Phase



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

6300 - 208/230 VAC Input Power ONLY

DoorKing Part Number:

1601-197 Kit

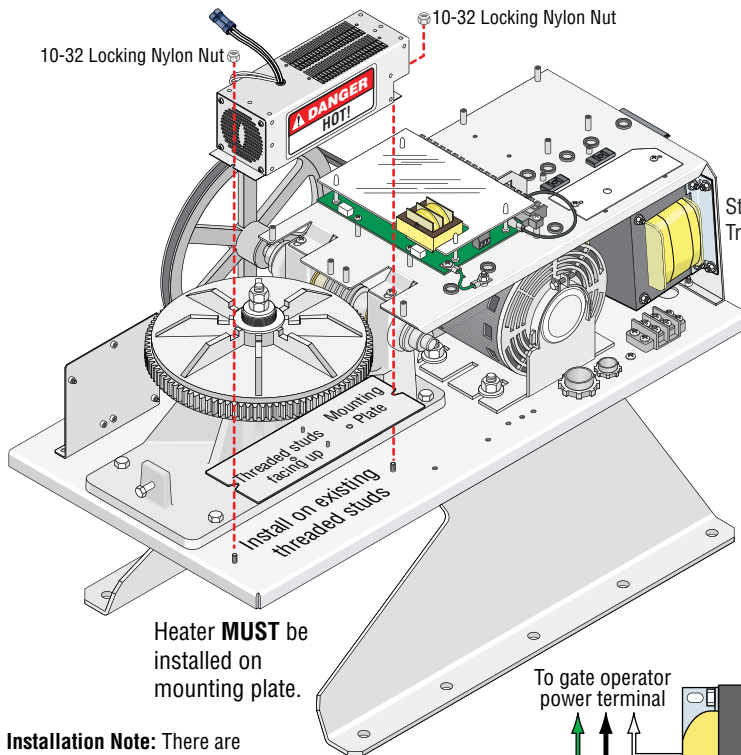
208/230 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for a 6300 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1/2 HP	208/230	6.0	260	410	660	1050	1601-197
	1 HP	208/230	8.2	190	300	480	770	1601-197

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

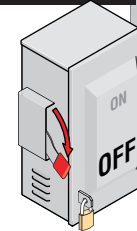
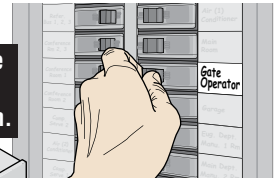


Heater **MUST** be installed on mounting plate.

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

SHUT-OFF POWER BEFORE BEGINNING!

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



DANGER
HIGH VOLTAGE!

High Voltage Kit Configured for 208 VAC OR 230 VAC

High Voltage Kit P/N 2600-266 (Sold separately) See instruction sheet for more information.

208 VAC Input Power Wire OR 230 VAC Input Power Wire

Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

To secondary operator heater if installed.

Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the input power wire through the interconnection cable conduit to power the secondary operator's heater.

DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.

DOORS
DOOR KING®

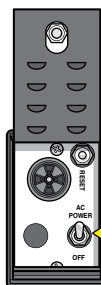
120 S. Glasgow Avenue
Inglewood, California 90301 U.S.A.

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

Wire heater(s) **DIRECTLY** from input power wire.

DO NOT wire heater to gate operator power terminal or damage will occur.

To gate operator power terminal

Keep wires away from the heater vents.

6300 - 460 VAC Input Power ONLY

DoorKing Part Number:

1601-198 Kit

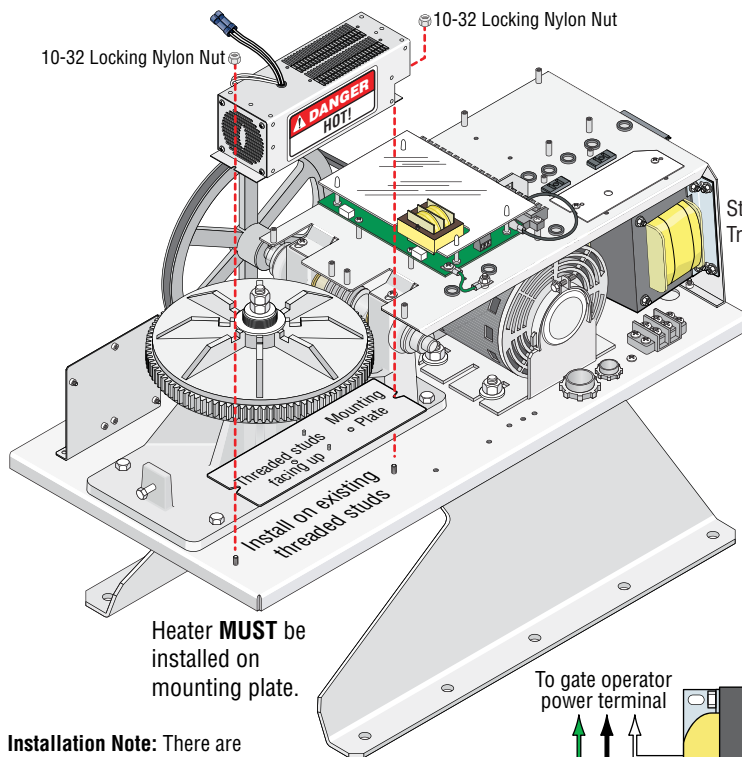
460 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for a 6300 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1/2 HP	460	4.7	740	1180	1870	2980	1601-198
	1 HP	460	5.7	610	970	1540	2460	1601-198

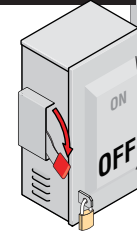
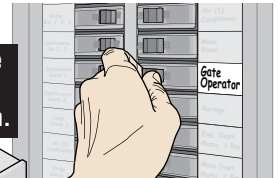
Wire run distances are shown for a single 6300 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.



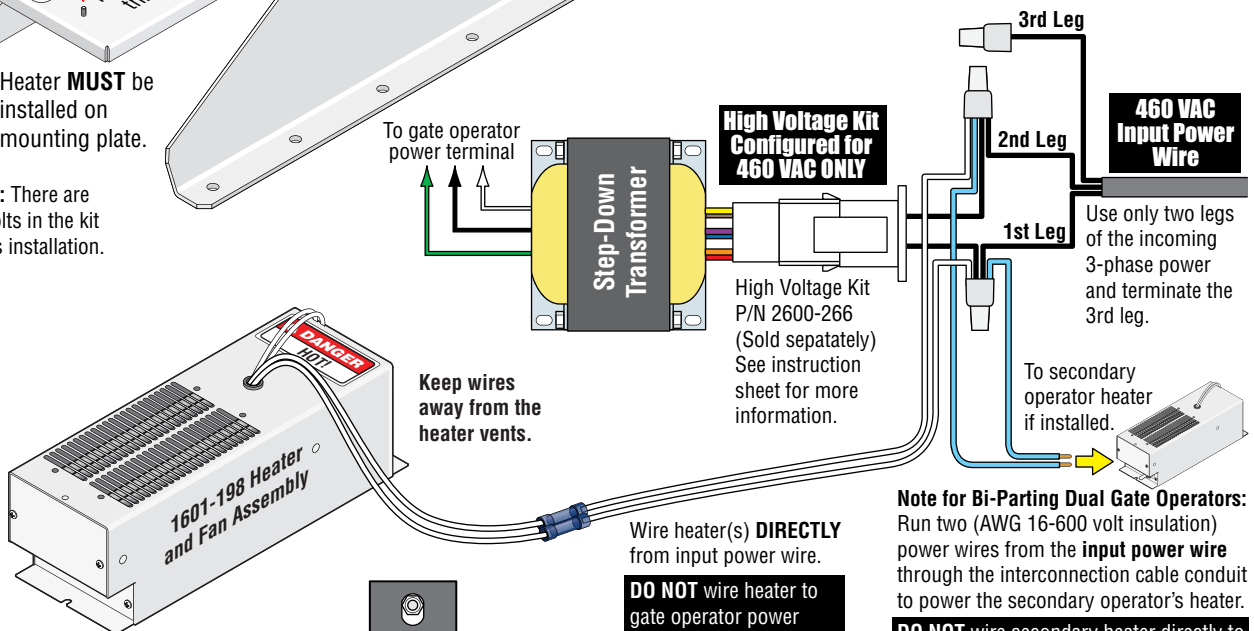
Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.

SHUT-OFF POWER BEFORE BEGINNING!

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



DANGER
HIGH VOLTAGE!

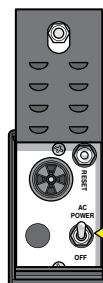


Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the **input power wire** through the interconnection cable conduit to power the secondary operator's heater.

DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.

Turning Heater On/Off

Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.



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

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

6550 - 208/230 VAC Input Power ONLY

DoorKing Part Number:

1601-197 Kit
208/230 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

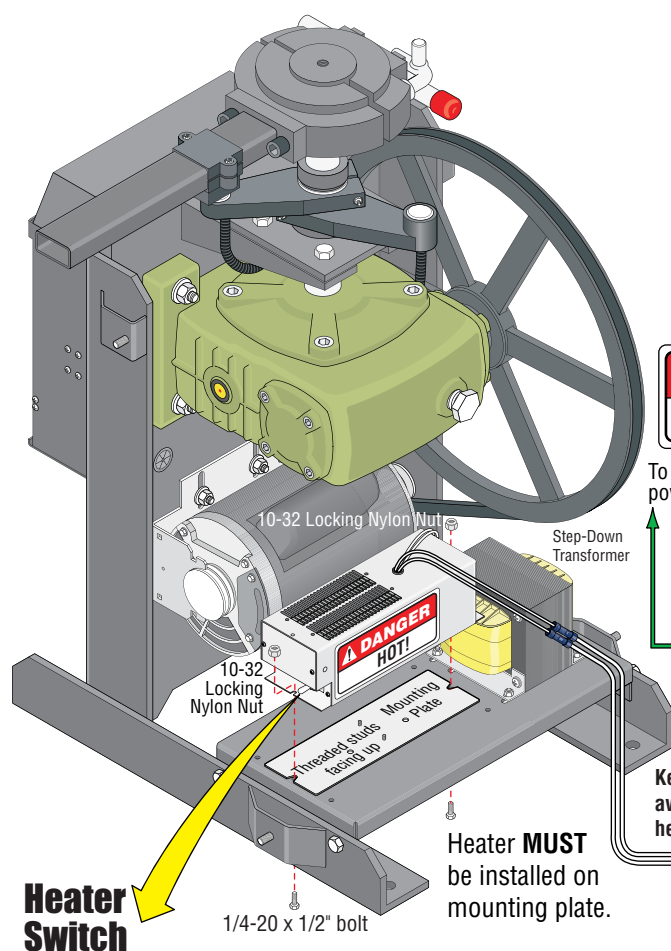
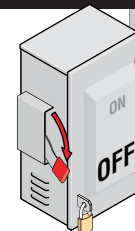
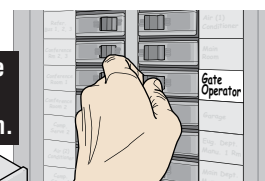
High voltage AC input wire size and distance limitations for a 6550 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1 HP	208/230	8.2	190	300	480	770	1601-197

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.



DANGER
HIGH VOLTAGE!

To gate operator power terminal

Step-Down Transformer

Keep wires away from the heater vents.

Wire heater(s) **DIRECTLY** from input power wire.

DO NOT wire heater to gate operator power terminal or damage will occur.

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

High Voltage Kit Configured for 208 VAC OR 230 VAC

High Voltage Kit P/N 2600-266 (Sold separately) See instruction sheet for more information.

208 VAC Input Power Wire OR 230 VAC Input Power Wire

Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

To secondary operator heater if installed.

Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the input power wire through the interconnection cable conduit to power the secondary operator's heater.

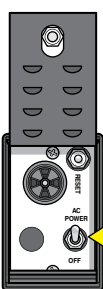
DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.

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.
1601-167-K-8-26

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

6550 - 460 VAC Input Power ONLY

DoorKing Part Number:

1601-198 Kit

460 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

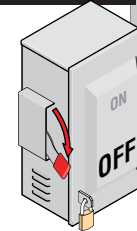
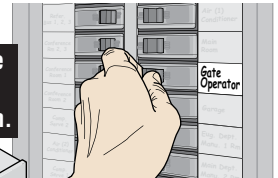
High voltage AC input wire size and distance limitations for a 6550 460 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				Heater Kit P/N
				12 AWG	10 AWG	8 AWG	6 AWG	
	1HP	460	5.7	850	1350	2150	3420	1601-198

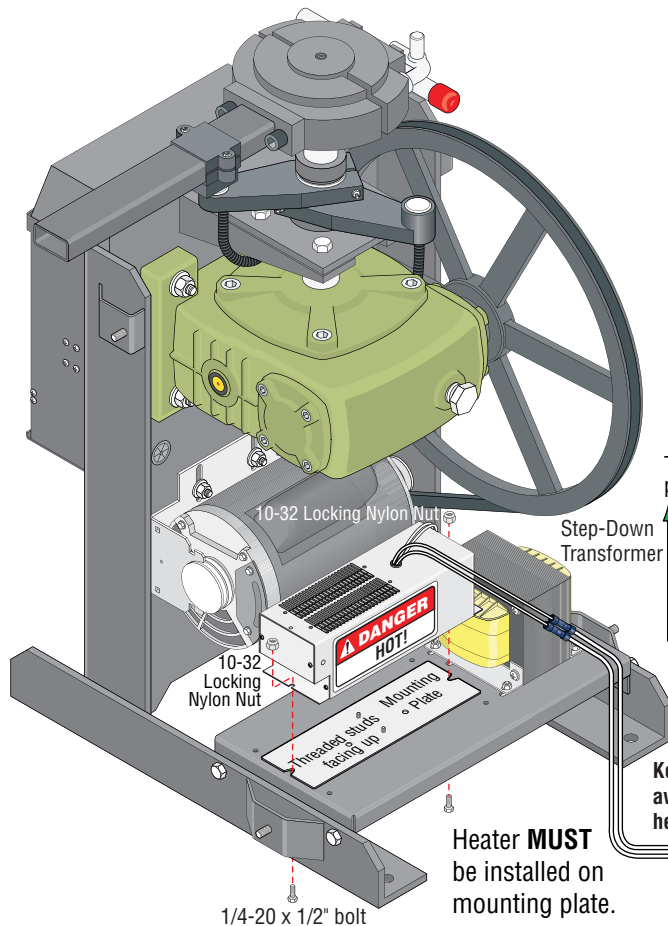
Wire run distances are shown for a single 6550 operator with heater. In bi-parting (dual) gate applications, reduce the distance by one-half.

SHUT-OFF POWER BEFORE BEGINNING!

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



DANGER
HIGH VOLTAGE!



To gate operator power terminal

Step-Down Transformer

Step-Down Transformer

High Voltage Kit Configured for 460 VAC ONLY

High Voltage Kit P/N 2600-266 (Sold separately) See instruction sheet for more information.

Keep wires away from the heater vents.

Wire heater(s) **DIRECTLY** from input power wire.

DO NOT wire heater to gate operator power terminal or damage will occur.

3rd Leg

2nd Leg

1st Leg

460 VAC Input Power Wire

Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

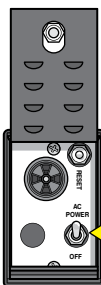
To secondary operator heater if installed.

Note for Bi-Parting Dual Gate Operators: Run two (AWG 16-600 volt insulation) power wires from the **input power wire** through the interconnection cable conduit to power the secondary operator's heater.

DO NOT wire secondary heater directly to the secondary gate operator's terminal or damage will occur.

Turning Heater On/Off

Model 1601-198 460 VAC does **NOT** have a On/Off heater switch. Heater must be turned off at the operator's input power source, circuit breaker, external power disconnect switch, etc.



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

Installation Note: There are extra nuts and bolts in the kit **NOT** used for this installation.
1601-167-K-8-26

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

eVolve 2160 230VAC Input Power ONLY



DoorKing Part Number

1601-197 Kit

208/230 VAC Models
3.3 Amp

This is **ONLY** for the eVolve 2160 operator using **230 VAC** input power.

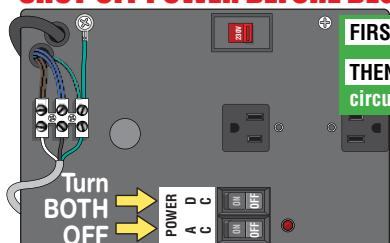


High voltage AC input wire size and distance limitations for a eVolve 2160 230 VAC with a heater.

Model	Horsepower	Volts/Watts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
	1/2	230/500 ONLY	6.3	275	450	725	1150	1601-197
	1	230/750 ONLY	7.3	175	275	425	700	

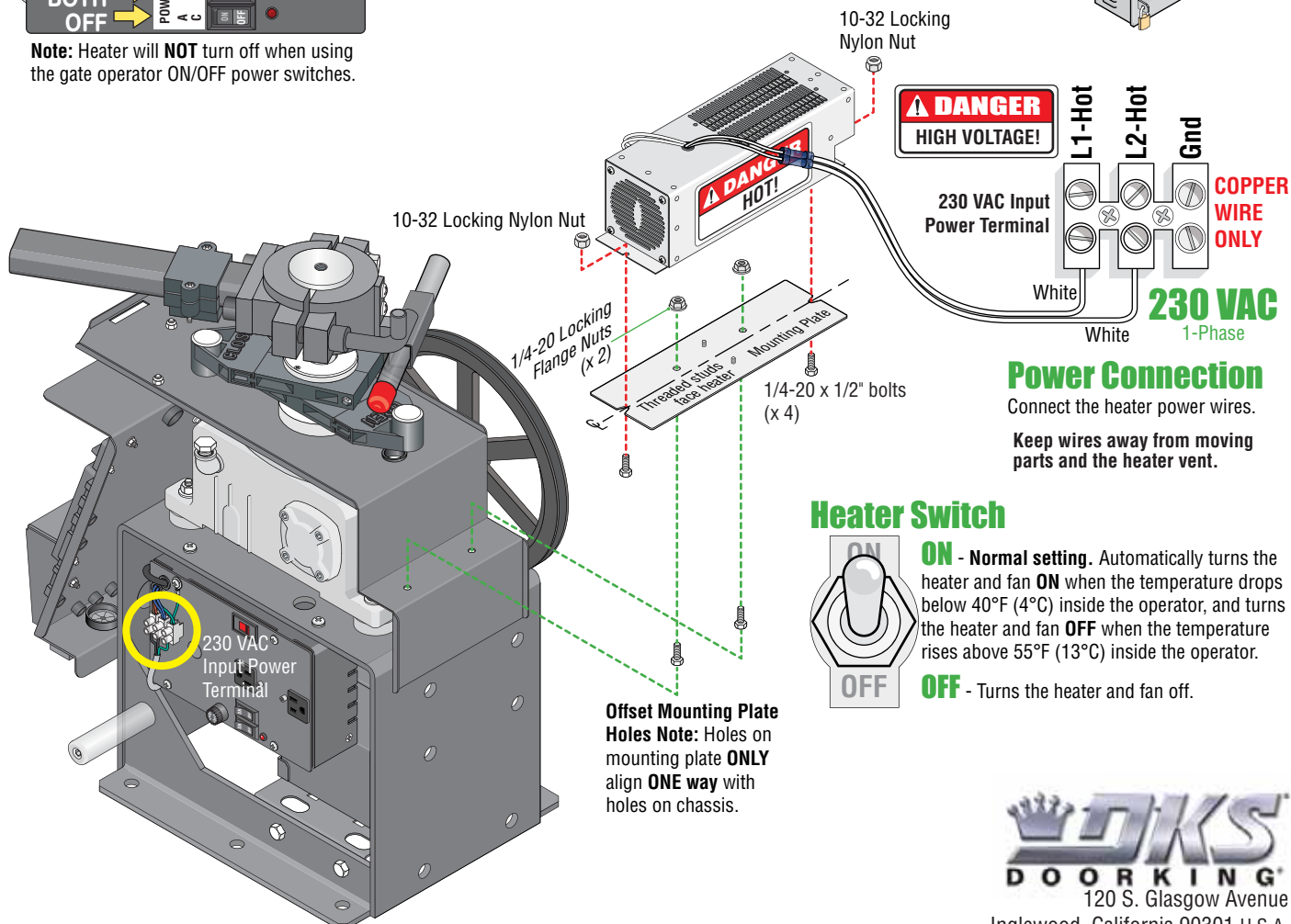
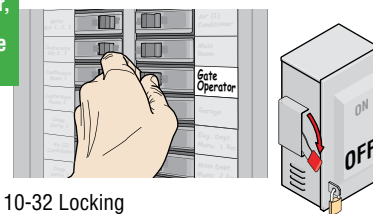
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 2160 operator with heater.

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.



Offset Mounting Plate Holes Note: Holes on mounting plate **ONLY** align **ONE** way with holes on chassis.

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.



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

1600 - 208/230 VAC Input Power ONLY

DoorKing Part Number:

1601-197 Kit

208/230 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional high voltage kit installed on it.

High voltage AC input wire size and distance limitations for a 1600 208/230 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
1601 / 1603	1/2 HP	208/230	6.0	260	410	660	1050	1601-197
1602	1 HP	208/230	8.2	190	300	480	770	1601-197
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601/1603 or 1602 operator with heater.								

In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601/1603 or 1602 operator with heater.

BEFORE BEGINNING:

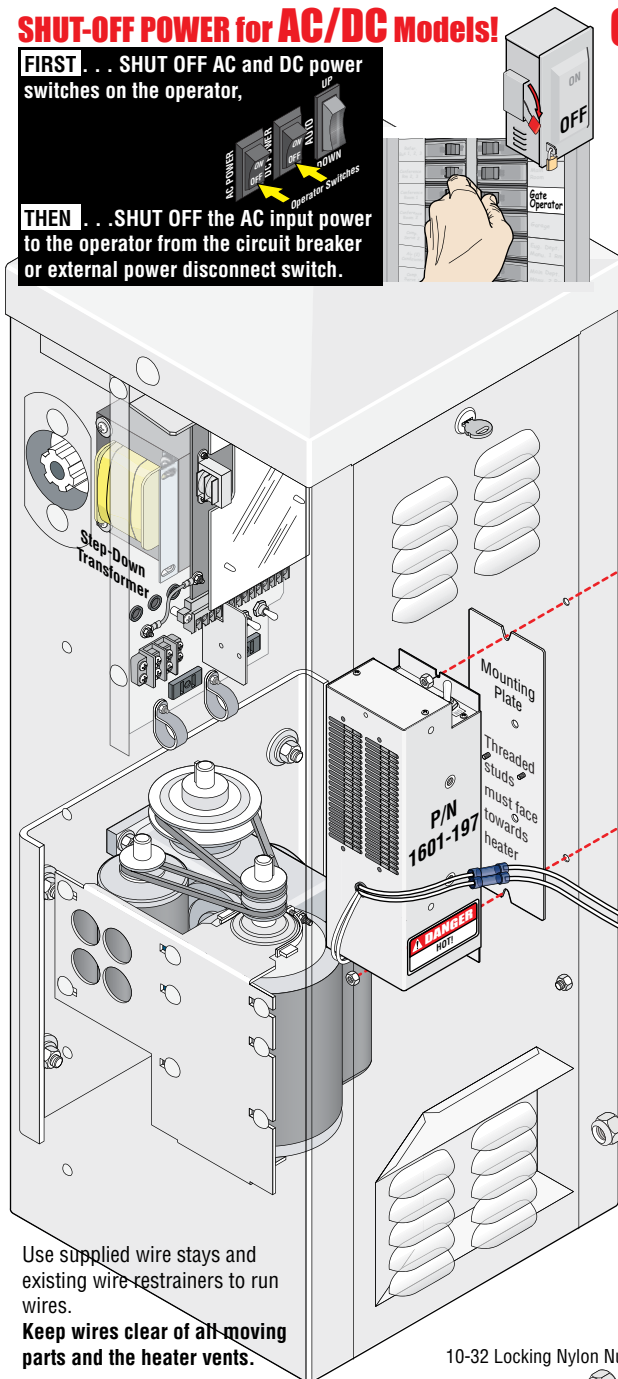
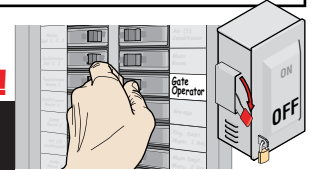
SHUT-OFF POWER for AC/DC Models!

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

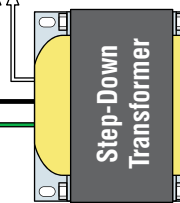
THEN . . SHUT OFF the AC input power to the operator from the circuit breaker or external power disconnect switch.

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.



To gate operator power terminal



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

Install with **existing** carriage bolts shown here (White cabinet)

OR

Existing threaded studs are inside the grey cabinet models

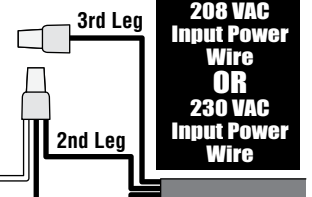
10-32 Locking Nylon Nut

Grey Cabinet

10-32 Locking Nylon Nut

High Voltage Kit Configured for 208 VAC OR 230 VAC

High Voltage Kit P/N 2600-266 (Sold separately) See instruction sheet for more information.



Use only two legs of the incoming 3-phase power and terminate the 3rd leg.

DANGER
HIGH VOLTAGE!

Wire heater **DIRECTLY** from input power wire.

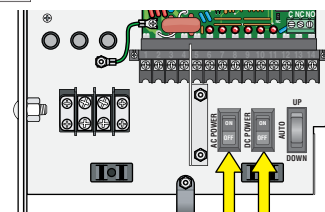
DO NOT wire heater to gate operator power terminal or damage will occur.

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

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



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

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

1600 - 460 VAC Input Power ONLY

DoorKing Part Number:

1601-198 Kit

460 VAC Models
3.3 Amp

IMPORTANT: Your gate operator **MUST** have the optional **high voltage kit** installed on it.

High voltage AC input wire size and distance limitations for a 1600 460 VAC Input Power with a heater.

Model	Horsepower	Volts	Operator and Heater Amps	Wire Size / Max Distance in Feet				
				12 AWG	10 AWG	8 AWG	6 AWG	Heater Kit P/N
1601 / 1603	1/2 HP	460	4.7	1160	1850	2940	4670	1601-198
1602	1 HP	460	5.7	850	1350	2150	3420	1601-198
In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601/1603 or 1602 operator with heater.								

In bi-parting (dual) gate applications, high voltage AC power is required for EACH 1601/1603 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 power 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.

