

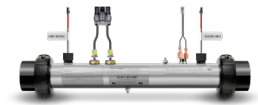
# HEATER INSTALLATION GUIDE

Balboa Generic Model Number	BP2000	BP2100	BP6013	BP501	BP601
Agency Prefix	B20	BP21	BP21	BP501	BP6

## ⚠ WARNING

There are no user serviceable parts inside the system. All connections must be made by a qualified electrician in accordance with the country or local electrical codes in effect at the time of installation.

## Tools / Supplies



New heater



Wrench, 3/8" (9.5mm), open ended



Phillips screwdriver



Nyogel 760G



Applicator stick for Nyogel 760G

## Installation Precautions

1 - Make sure the system pack is powered Off at the GFCI or circuit breaker before starting the installation process.

2 - These instructions apply to system packs with one of the following agency prefixes: BP20, BP21, BP501, BP6. The agency prefix is noted on the system pack identification label (view page 2).

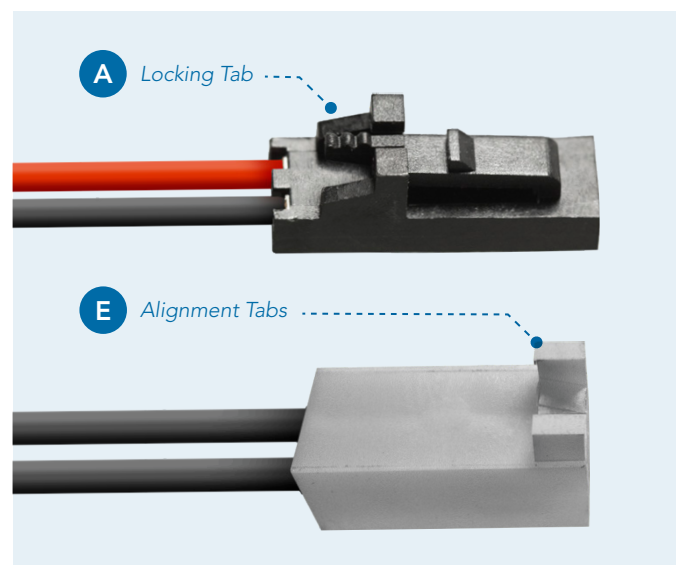
3 - The M7 temperature sensor connector has a locking tab (A). Depress the tab before disconnecting the sensor from the circuit board. When installing the new heater, make sure the locking tab is aligned properly with the circuit board connector. Misalignment may cause damage. The connectors are small, so a flashlight and magnifying glass can help with alignment.

4 - The third temperature sensor connector has alignment tabs (E). Make sure the tabs are aligned properly with the circuit board connector. Misalignment may cause damage. The connectors are small, so a flashlight and magnifying glass can help with alignment.

5 - Each connector is labeled on the system pack circuit board. The text is small, so a flashlight and magnifying glass can help with identification.

6 - Do not bump or bend the heater posts.

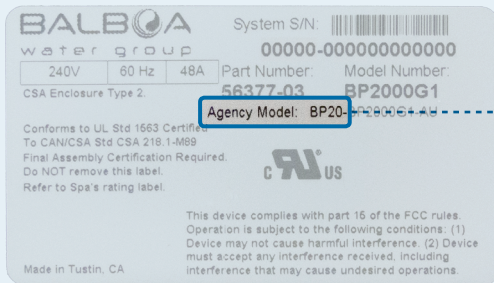
7 - Do not pull or apply unnecessary pressure to the heater connector wires.



### Heater Installation

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## Nomenclature



Identification label

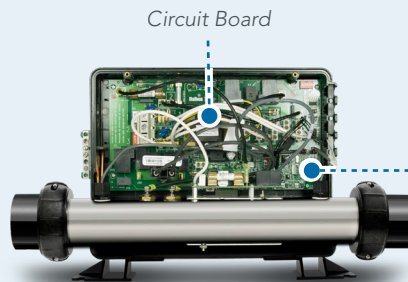
### AGENCY PREFIX

The agency prefix is noted on the identification label, which is on the top surface of the system pack. In this example the agency prefix is BP20.

Each connector is labeled on the circuit board. In this example the label is J29. The location of J29 may vary depending on which system pack model you have. All other connector locations vary, depending on the system pack model.

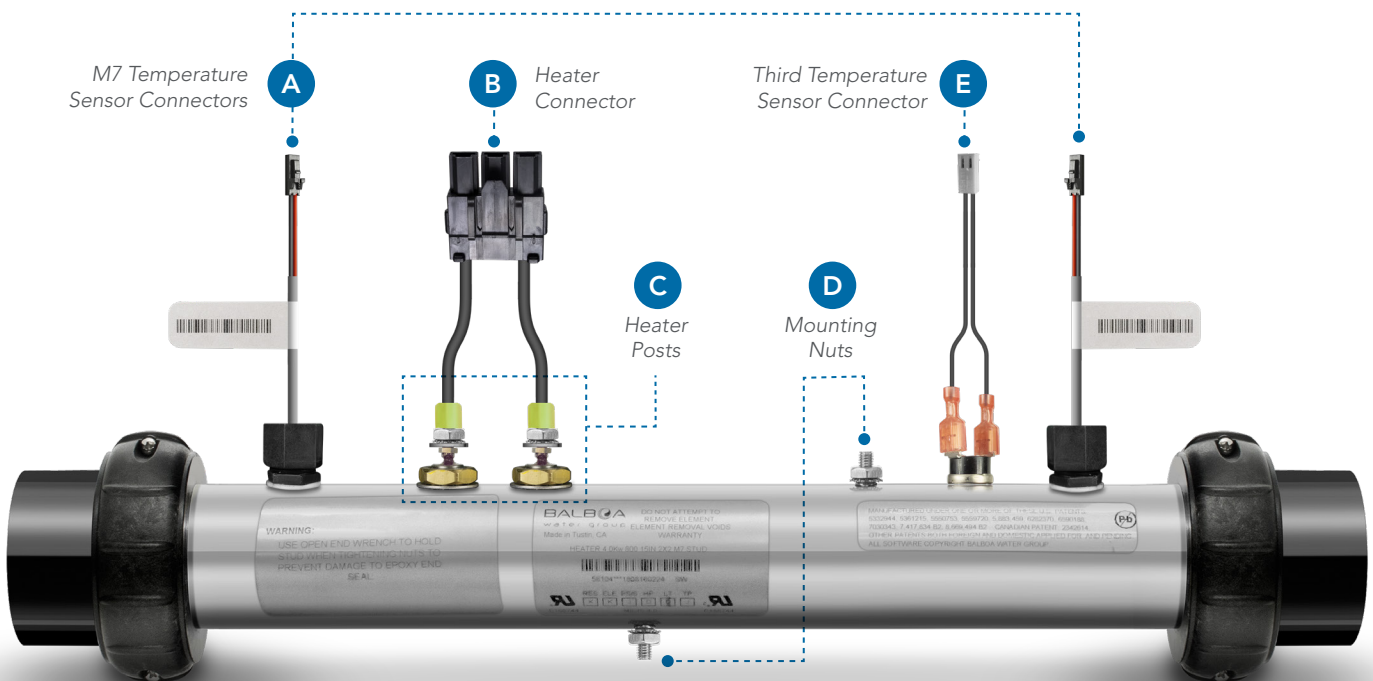


System Pack  
Agency Prefixes: BP20, BP21, BP501, BP6



System Pack Without Cover

Circuit Board Label



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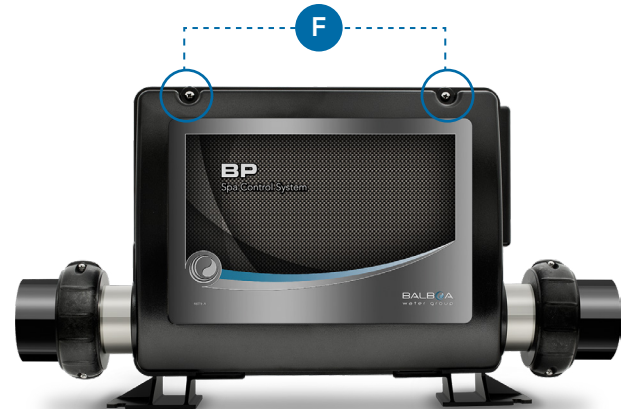
# Installation Instructions

## Step 1

Power Off the system pack at the GFCI or circuit breaker.

## Step 2

Remove the system pack cover by loosening two screws (F) with a phillips head screwdriver.

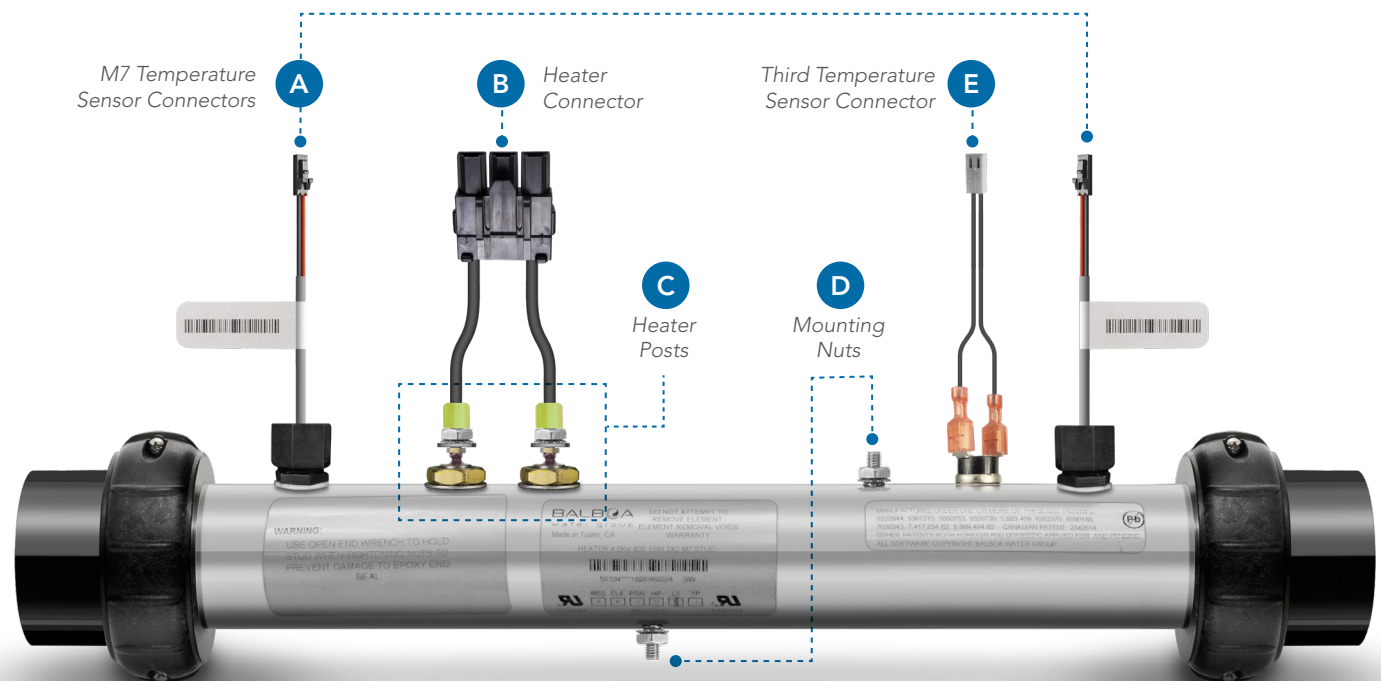


System pack with cover

## Step 3

If the agency prefix is BP501 or BP6, disconnect the heater connector (B) from J46 on the circuit board.

If the agency prefix is BP20 or BP21, disconnect the heater connector (B) from J44 on the circuit board.



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## Step 4

Disconnect both M7 temperature sensors (A) from J16 and J17 on the circuit board. The connectors have locking tabs (refer to page 1). Depress the locking tab before disconnecting the sensor from the circuit board.

## Step 5

Remove the heater from the system pack. The heater is mounted to the system pack with two nuts on mounting posts (D). Loosen the nuts with an open ended 3/8" (9.5mm) wrench, and remove the heater.

## Step 6

Install the new heater into the system pack, and tighten the two mounting nuts (D).

## Step 7

Connect the M7 temperature sensors (A) to J16 and J17 on the circuit board. The locking tabs only align one way on the J16 and J17 connectors (refer to page 1). Misalignment may cause damage.

## Step 8

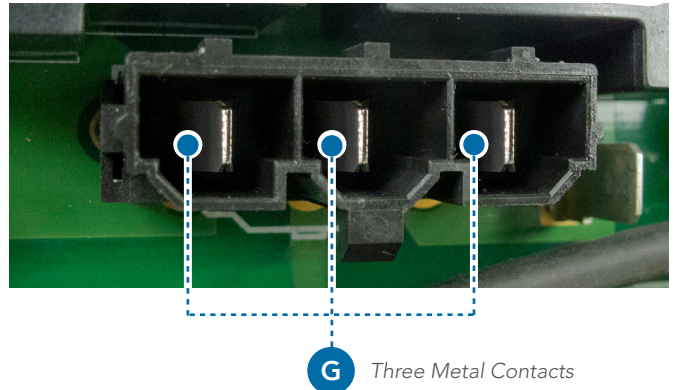
Connect the third temperature sensor (E) to the circuit board at J29. The connector has alignment tabs that only align one way on the J29 connector (refer to page 1). Misalignment may cause damage.

## Step 9

If the agency prefix is BP501 or BP6, use an applicator stick to apply Nyogel 760G to the three metal contacts (G) on J46.

If the agency prefix is BP20 or BP21, use an applicator stick to apply Nyogel 760G to the three metal contacts (G) on J44.

Cover all surfaces of the metal contacts. Nyogel provides corrosion protection (refer to page 1).



## Step 10

If the agency prefix is BP501 or BP6, connect the heater connector (B) to J46 on the circuit board.

If the agency prefix is BP20 or BP21, connect the heater connector (B) to J44 on the circuit board.

You will hear a click when the connection is secure.

## Step 11

Install the system pack lid and tighten the two mounting screws (F).

## Step 12

Power On the system pack at the GFCI or circuit breaker.



System pack with cover

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