

## Primary Heaters (A and B)



Before performing any troubleshooting procedures:

1. Relieve pressure, page 26.

2. Turn main power OFF



3. Allow equipment to cool.

Try the recommended solutions in the order given for each problem, to avoid unnecessary repairs. Also, determine that all circuit breakers, switches, and controls are properly set and wiring is correct before assuming there is a problem.

PROBLEM	CAUSE	SOLUTION
Primary heater(s) does not heat.	Heat turned off.	Press <b>A</b> or <b>B</b> zone <b>I</b> keys.
	Temperature control alarm.	Check temperature display for diagnostic code, page 11.
	Signal failure from thermocouple.	See <b>E04: Fluid Temperature Sensor (FTS) or thermocouple disconnected</b> , page 13.
Control of primary heat is abnormal; high temperature overshoots or E01 error occurs intermittently.	Dirty thermocouple connections.	Examine connection of thermocouples to long green plug on heater control board. Unplug and re-plug thermocouple wires, cleaning off any debris. Unplug and re-plug long green connector.
	Thermocouple not contacting heater element.	Loosen ferrule nut (N), push in thermocouple (310) so tip (T) contacts heater element (307). Holding thermocouple tip (T) against heater element, tighten ferrule nut (N) 1/4 turn past tight. See page 44 for illustration.
	Failed heater element.	See Primary Heaters, page 23.
	Signal failure from thermocouple.	See <b>E04: Fluid Temperature Sensor (FTS) or thermocouple disconnected</b> , page 13.
	Thermocouple wired incorrectly.	See <b>E04: Fluid Temperature Sensor (FTS) or thermocouple disconnected</b> , page 13. Power up zones one at a time and verify that temperature for each zone rises.