

# Reactor 2 Electric -Troubleshooting - Primary Heater

## Troubleshooting

### Primary Heater



Before performing any troubleshooting procedures:

1. Relieve Pressure. See [Pressure Relief Procedure, page 46](#).
2. Turn main power switch OFF.
3. Allow equipment to cool.

#### Problems

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.	Turn on heat zones.
	Temperature control alarm.	Check ADM for error codes.
	Signal failure from RTD.	Signal failure from RTD.
Control of primary heat is abnormal; high temperature overshoots (T4DA, T4DB) occurs intermittently.	Dirty RTD connections.	Examine RTD cables connected to TCMs. Confirm RTDs are not plugged into opposite heat zone. Unplug and re-plug RTD connectors. Unplug and re-plug RTD connectors. Ensure RTD tip contacts the heater element.
	RTD not contacting heater element.	Loosen ferrule nut, push in RTD so tip contacts heater element. Holding RTD tip against heater element, tighten ferrule nut 1/4 turn past tight.
	Failed heater element.	See <a href="#">Replace Heater Element, page 62</a> .
	Signal failure from RTD.	See (T6DA, T6DB), <a href="#">Error Codes</a> .