



COMMON PROBLEMS FOR ELECTRIC MODELS

Rev. 1

CONDITION	CAUSE	REMEDY	CONDITION	CAUSE	REMEDY
Continuous operation.	Undersized heater. Elements too small.	Replace with larger heater. Replace with higher watt element. Check with utility.	Blown fuse/circuit breaker cut-out (cont'd).	Short. Undersize service wiring.	Locate short circuit and correct. Check with utility.
	Thermostat not in contact with tank. Thermostat/element installed wrong. Thermostat set too low. Improper calibration. Faulty thermostat. Faulty hi limit (ECO).	Position properly. Be sure insulation is not interfering with thermostat. Cover thermostat/element with insulation. Turn knob to desired temperature. Replace thermostat. Replace. Replace.	Element failure.	Wrong wiring connections. Loose wiring connections. Lightning. Power surge. Low voltage. High voltage. Short.	Correct according to manufacturer's instructions. Locate, clean carefully, reconnect properly. Inspect/replace fuse, heater elements and thermostat. Inspect/replace fuse, heater elements and thermostat. Check utility for correction. Check utility for correction. Locate short circuit and correct.
Thermostat failure.	No power. Loose wiring connection. Lightning.	Check fuses/circuit breakers, replace/reset. Locate, clean carefully, reconnect properly. Inspect/replace fuse, heater elements and thermostat.	Excessive relief valve operation.	Excessive water pressure. Surge from washer solenoid valve. Improper calibration. Faulty thermostat.	Install proper pressure reducing valve. Install blind pipe air cushion. Replace thermostat. Replace.
	Power surge. Low voltage. High voltage. Short .	Inspect/replace fuse, heater elements and thermostat. Check utility for correction. Check utility for correction. Locate short circuit and correct.	Singing elements.	Lime formation on elements. Damage from electrolysis.	Clean elements, replace if necessary. Install dielectric unions or bushings.
Smoking wiring.	Lightning.	Inspect/replace fuse, heater elements and thermostat.	Singing thermostats	Thermostat not flush with tank. Loose wiring connection.	Position properly. Be sure insulation covers thermostat. Locate, clean carefully, reconnect properly.
	Power surge. Low voltage. High voltage. Variable voltage. Undersize service wiring.	Inspect/replace fuse, heater elements and thermostat. Check utility for correction. Check utility for correction. Check utility for correction. Check with utility.	Condensation.	Leaks around heating element. Insulation improperly replaced.	Tighten, clean and smooth face to tank flange and gasket. Adjust insulation to original factory condition.
Service wires charred or hot.	Wrong wiring connections. Poor ground. Lightning.	Correct according to manufacturers instructions. Install proper ground. see grounding instructions Inspect/replace fuse, heater elements and thermostat.	Drip from relief valve.	Sediment or lime in tank. Surge from washer solenoid valve. Improper calibration. Faulty thermostat.	Check to see if water treatment is necessary. Install blind pipe air cushion. Replace thermostat. Replace.
	Power surge. High voltage. Short. Undersize service wiring.	Inspect/replace fuse, heater elements and thermostat. Check utility for correction. Locate short circuit and correct. Check with utility.	Wet insulation.	Leaking faucets/nipples. Leaks around heat trap (see plumbing). Leaks around heating elements.	Locate and correct. Remove. Apply pipe dope and reinstall. Tighten, clean and smooth face to tank flange and gasket.
Blown fuse/circuit breaker cut-out.	No power. Wrong wiring connection. Loose wiring connection. Lightning.	Check fuses/circuit breakers, replace/reset. Correct according to manufacturers instructions. Locate, clean carefully, reconnect properly. Inspect/replace fuse, heater elements and thermostat.	Tank bulged, reversed heads.	No relief valve. Excessive water pressure. Surge from water solenoid valve. Check valve in water line. Pressure reducing valve installed. Faulty thermostat.	Install proper relief valves. Install proper pressure relief valve. Install blind pipe air cushion. Install proper pressure relief valve. Install temperature and pressure relief valve. Replace.
	Power surge. High voltage.	Inspect/replace fuse, heater elements and thermostat. Check utility for correction.			