

HT-25 or ADC-44/66 – Failure Mode: Heater Contactor & Heater Relay

COMPLAINT: “No Tank Heat” “Contactors All Chattering”

When the wash heater contactor (291-3032) or rinse heater contactor (291-3001) do not pull in, chatter, snap on and off—or when the motor contactors all snap on and off or chatter in unison, the problem can be traced back to a shorted circuit in the heater relay (291-3027). These are the common indicators of the shorted solid state relay. You may also see a blinking thermostat light.

CAUSE:

The shorted condition can be a result of human intervention, part failure, excessively low voltage, “dirty” voltage (a power utility problem), or using wrong, used, or defective parts from another machine. This condition has only occurred a few times, the thinking is the intensity or strength that caused the open short can transfer by the common (white neutral) between the relay and the coil of the contactor, in the case of a conveyor it can transfer to the other heater relay and contactor coil. This is much like the ASQ motor and motor relay that will fail concurrently when one or the other shorts out. If not replaced as a pair, the new part will be damaged when the machine is powered up.

SOLUTION:

Replacement of the heater relay and the heater contactor as a pair is the solution; the machine should not be powered up until both parts are installed and correctly wired. In the case of a conveyor, both wash and rinse relays and contactors must be replaced at the same time.

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