

TECHNICAL SUPPORT MATERIAL

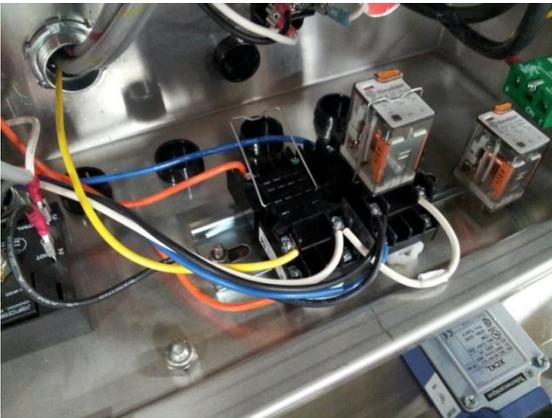
Routine and Preventative Maintenance

HT-25 W/Booster Inter-latching Circuit (The Combo)

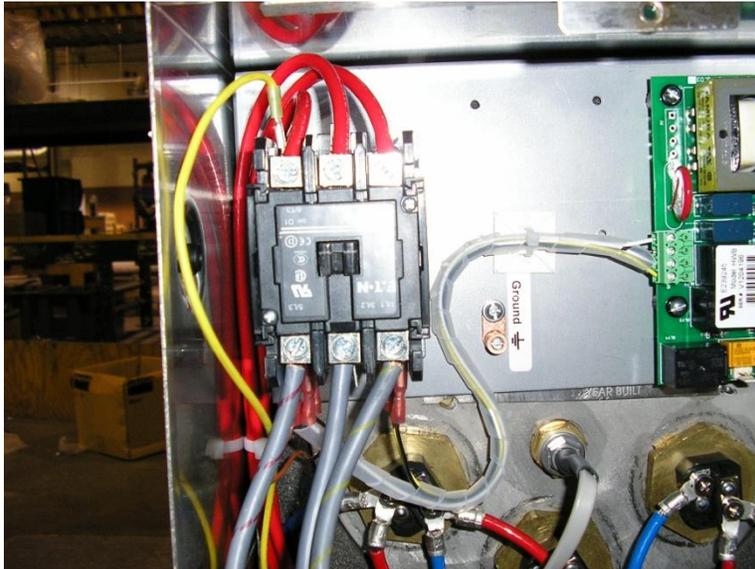
UL File E68594, Project 07NK23409--2/18/2008

For the HT-25, 3-phase power models, an attached booster option is available. This is a UL listed combo, single-point electrical power connection for both dishmachine and booster. It requires a breaker or fuses of 50 amps on 208v or 240v, 3-phase power. Supply wire size is 8 gauge, this is standard for both 4-wire and 5-wire models.

This is an inter-latching circuit meaning when the booster heater is energized a signal (yellow wire) will come from the booster heater contactor to a relay located in the control box. This relay will turn off the control circuit to the tank sustainer heater. So any time the final rinse is spraying 180F degree water into the tank, the sustainer heater is turned off. When the booster heater turns off, this allows the tank sustainer heater to turn back on. In this way, the combo of dishmachine and booster only draws one heater circuit at a time. The entire combo can operate from a 50amp circuit breaker



The booster heater relay socket takes the (yellow) signal wire from the booster to “open” the control circuit (orange wires) to the tank sustainer heater. The orange wire attached to the front lower left terminal and the orange wire on the rear upper left terminal are the proper connections for the inter-latch. When the relay is placed in the socket, the circuit can be tested by pressing down the orange button on top of the relay. This will manually disconnect the tank sustainer heater control circuit, turning off the dishmachine tank heater. This is the test for correct circuit disconnection. This button is not a reset, but just a manual override.



Booster control box showing booster contactor.

Power wires are attached to the bottom of the contactor. Lower left power wire has a red stripe indicating L1 from the machine. The yellow wire coming off the contactor's upper left terminal of T1 is the proper position for the inter-latch feature. This will return to the machine's control box and attach to the relay socket pictured on the page above.



Showing same type of relay wiring arrangement in the 230v control circuit of the 4-wire HT-25, which became available 4/26/2012.