

Before performing any service always follow applicable safety precautions.

1" Thermocouple Replacement Instructions

Affected Products: MLR-150, SPX-300, SPK-500, SP-700, MLR-850, SPK-1000

Affected Serial Range: N/A

Related Issue #: N/A

Issue Description:

Replacing the 1" thermocouple without fishing the wires through the liner.

Actions Required:

1. Remove the two mounting bolts (10-32) and pull the thermocouple plate away from the wall of the smoker to expose the thermocouple wires.

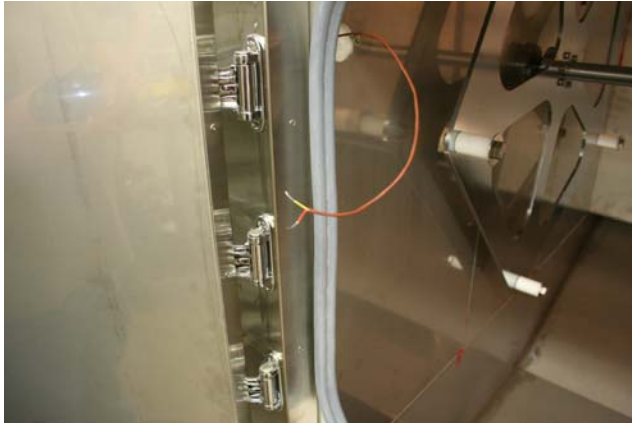


2. Cut the wires from the old thermocouple approximately 3 inches from the back of the thermocouple mounting plate.



Actions Required (continued):

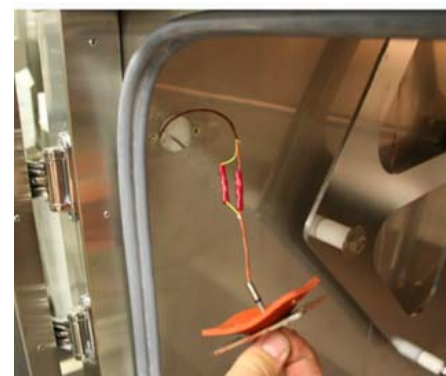
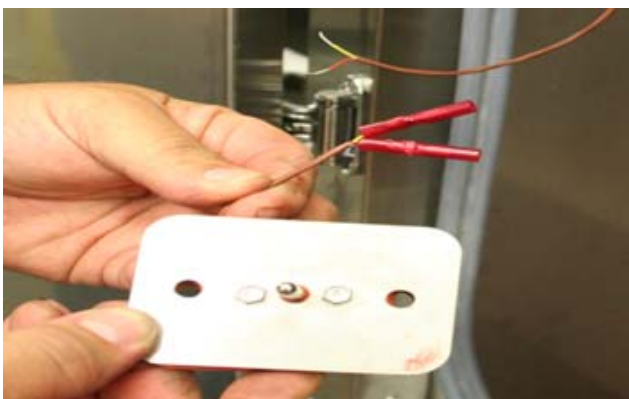
3. Strip the ends of the thermocouple wires coming from the smoker. The stripped portion of the wire should not be more than 1/4" and should not be exposed once the splice is placed on the wire.



4. Cut the new thermocouple wires about 3 inches back from the thermocouple mounting plate. Strip the ends of the thermocouple wires. The stripped portion of the wire should not be more than 1/4" and should not be exposed once the splice is placed on the wire.

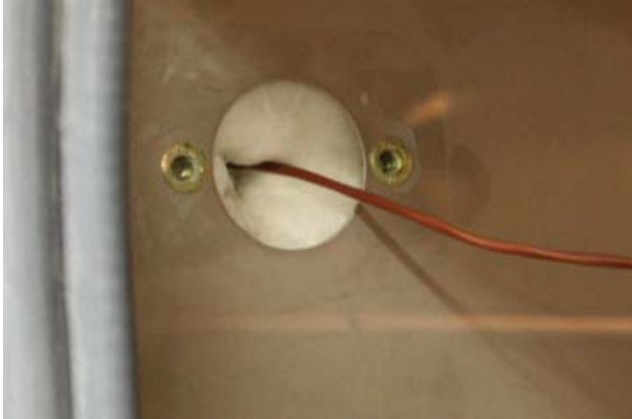


5. Splice the new thermocouple wires together with the old thermocouple wires coming from the smoker connecting the red wire to the red wire and the yellow wire to the yellow wire. Use nylon insulated wire splices (butt splices) #22 - #18 AWG (221°F minimum temp. rating, 600 V max). **CAUTION: The correct splice is critical for good wire connections that are necessary for a proper signal path back to the thermostat.**



Actions Required (continued):

6. When sliding the thermocouple wires back into the smoker liner make sure that they are fed behind the smoker insulation. If the wires are exposed to the back of the smoker liner panel, the heat from the liner panel could cause them to short together, causing the thermostat to not receive the proper signal from the thermocouple.



Additional Comments:

Southern Pride does not supply the necessary wire splices. They can be found at a local hardware, or electrical supply store.

Secondary Distribution:

Service technicians within the Distributor's organization.
Service companies.

For Additional Information:

Southern Pride Technical Service: (800) 437-2679