

SPE-DEX[®] 4790 Extractors
Replacing Thermistors / Thermistor Assembly
Thermistor Service Kit P/N 48-2604

Note: See the notes in Chapter 5 of Operator's Manual to disconnect the Extractor from the installed system. Replacing Thermistor assemblies requires access to the Extractor back panel.

Step 1) Remove the five- (5) $\frac{6}{32}$ Phillips screws located in the back panel of the Extractor.

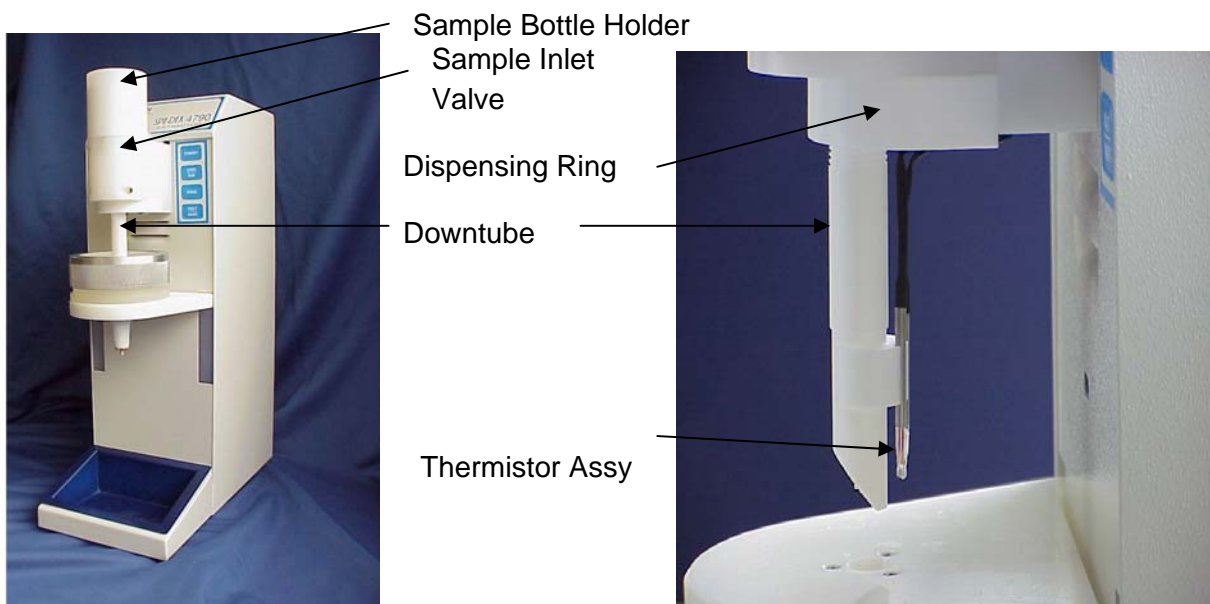


Figure 1 a & b: Downtube Thermistor Location

Step 2) Remove the cover, by holding the bottom of the side panels, and push the bottom toward the back of the unit. Then lift up. Set the cover aside.

Step 3) Before removing the thermistor clip, note the orientation of the clip and the heights of the thermistors. The thermistor on the right (as you face the unit) is the top sensor, and the thermistor on the left is the bottom sensor. For later reference, note the spacing difference between the two black sensing elements of both thermistors. See Figure 2.

Step 4) Remove the Thermistor Assembly clip from the Downtube by sliding the clip down and off. The platform can also be lowered to make it easier to remove the sensor clip.

Step 5) Follow the electrical lines from the Thermistor clip to the Extractor circuit board. There will be two, two-prong Molex connectors attached to the main electrical circuit board. The top thermistor will be attached to pin J6 and the bottom thermistor will be attached to pin J7. Pin J6 is the closest to the front of the circuit board, while pin J7

is the closest to the back of the circuit board. Replace the thermistors one at a time pulling the wire out through the slot in the front face of the chassis. Ensure that the

when facing Extractor		Circuit Board Connector
Right side	Top Thermister	J6
Left Side	Bottom Thermister	J7

Note: *Do not pull the thermistors into the clip or push in new thermistors as this could damage them. Use caution not to damage or break the Thermistors.*

Step 6) Hold the open sides of the Thermistor clip between two fingers, and gently squeeze the clip. Squeezing the clip reduces the tension holding the thermistor in position. Gently slide the thermistor out of the clip. While squeezing the clip, gently slid the new thermistor into the clip thermistor groove. Adjust the height of the replaced thermistor to match the positions before the thermistor was removed.

Step 7) Guide the electrical wire with the two-prong Molex connectors through the face of the Extractor where the Prewet lines are coming out. Connect the two-prong Molex connectors to the appropriate location on the electrical board.

Step 8) Carefully slide the Thermistor clip onto the Downtube and up to a middle position on the Downtube. Finally adjustment can be made once a Disk Holder is in position.

SENSOR HEIGHT

- The sensors should be staggered by a distance of one sensor bead.
- The sensors should be placed high enough on the Down Tube so that the disk does not go dry during the Prewet soak. Refer to figure 2.



Figure 2

Step 9) Replace the cover by sliding the cover down and pulling the bottom of the cover towards the front of the Extractor. Note the tabs on each side of the cover go inside the front panel.