



ATH639

HEATER BAR ASSEMBLY

TESTING & CLEANING THE HEATER BAR

SERVICE TIPS FOR THE AIR TECHNIQUES® A/T2000 FILM PROCESSOR

Testing the Heater Bar Assembly

1) Unplug the processor. Remove the base electrical compartment cover and unplug the heater bar connector from the base pc board #J4 - **see Figure A**. Using your ohmmeter, each heater bar element should measure about 130 ohms. First test pins #4 (large white 20 GA wire) and #1 (large black 20 GA wire), then pins #3 (large white/red 20 GA wire) and #2 (large black/red 20 GA wire) - **see Figure B**.

If the heater(s) test open or a very high resistance this indicates that the thermal fuse is bad, which means the tanks were left empty without chemicals. At this point, you must replace the heater bar (RPI #ATH639).

If the heating elements test fine go to the next step.

2) Using your ohmmeter, test the two thermistors for a resistance range of 5000-6000 ohms at room temperature 72°F. Each of the heaters has a thermistor that should drop in resistance. To check this, first test Pins #9 (small black 22 GA wire) and #6 (small black 22 GA wire), then Pins #10 (small red 22 GA wire) and #7 (small red 22 GA wire) - **see Figure B**. By the way, this would also be a good time to check to see the thermistor drops in resistance. While leaving the ohmmeter leads in the connector of the heater bar, grab a hold of the 90 degree bend of the heater bar and your own body heat is enough heat to cause a good thermistor to drop in resistance. If not replace the heater bar (RPI Part #ATH639).

SERVICE TIP Check for dripping liquids over the base electrical compartment cover of the base PC board (RPI #ATB643). Liquids getting onto or into the board can be costly. One way to prevent this from happening is to make sure that the cover's foam is intact and that the cover is installed correctly.

Cleaning the Heater Bar Assembly

- To avoid cross contamination, clean fixer heater bar and developer bar with separate sponges.
- During routine maintenance, wipe the black plastic bar with a clean damp sponge to remove chemistry build-up. Never submerge the entire heater bar assembly into liquid.

Service Tips for the Air Techniques A/T2000 Film Processor

The Air Techniques 2000 film processor is the most popular automatic processor on the market today and it seems to be the most abused and the most costly to repair. Here's a way to help keep the repair costs down and the equipment up and running smoothly.

Let's start with the bi-weekly and monthly cleaning. After you or your customer is finished with draining, cleaning and rinsing the tanks and the racks, be sure to wipe down the heater bar (RPI Part #ATH639). Also note that the o-rings (RPI Part #RPO244) SHOULD BE secure in place – about two inches from the end of the heater. Here's a warning: Do not turn on the processor without the chemicals in the tanks. An empty tank is the #1 cause for the heater bar to malfunction. The #2 cause is worn (ie. soft or swollen) drain plug washers (RPI Part #ATW638). Worn washers will allow the chemicals to leak down the drain, and that's lost money right there! In turn, the empty tank will cause the heater to malfunction. So it's a good idea to leave a package of washers with your customer to replace as needed or for you to replace them every 4-6 months.

FIGURE A

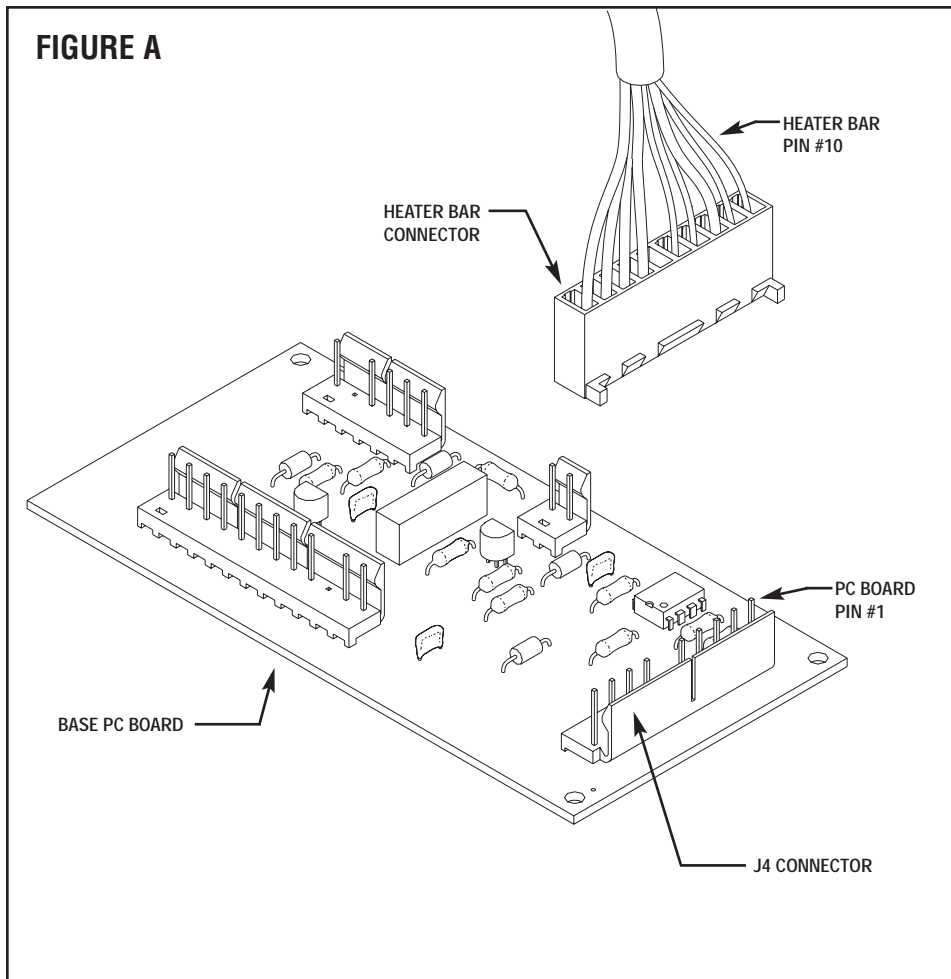


FIGURE B

