

Troubleshooting and replacing heat controls in the LEDCO Educator

To check the board, remove the right side cover, Unplug the sensor wires. They will be the 2 small, thin wires . the board is labeled "Sensor" where they plug in. . Short across those two pins with a wire or a screwdriver with the machine on and the heat switch turned on. If the board is good you will hear a click and the red heat light will come on.

If nothing happens then the board is bad and you need to replace it. The part is PRC212.

The board is easy to replace, just remove the 4 screws that hold it in and swap the wires.

Swap the heat control knob shaft out of the old board and snap it into the new board, then screw it back on to the side panel. Put the side cover back on and reinstall the knob. Be sure to calibrate the knob correctly. Turn the shaft all the way counterclockwise until it stops, put the knob on with the pointer pointing to the very first white mark on the decal on the side. Tighten it down.

If the heat does come on it is the sensor.

The sensor is part # PRC21221, **Note: there is a \$10 small order charge for all orders under \$50.00.**

The sensor is in a hole in the top heat shoe.

You will need to remove the top heat shoe by removing the 4 screws that hold it in. Don't lose the spacers. The short spacers go on the right side, the long ones go on the left side.

There is a hole in the shoe and the bullet sensor slides into that hole. The assembler then nicks the edge of the hole with a screwdriver and a hammer to hold the sensor in there.

To get it out you take a utility knife with a good blade and shave the peened over part away until the sensor slides out. This is easier said than done. You only have the sensor wire to pull it out so you really have to make the hole bigger so it will come out. If you pull on the wires too hard you'll have to drill it out, You don't want to do that if you don't have too.

If you absolutely can't get it out you will have to drill it out. It's ok if the hole ends up a bit bigger and the sensor is a little loose in the hole. It will still work fine.

Slide the new sensor in the hole and put the heat shoe back on. Cut the wires to the correct length and crimp on some new connectors and plug it back in. Test it and you're all set.

To test the machine set the temperature to the 280-290 range (just short of 12 o'clock). **Put the film on it (dull side out, shiny side in contact with the shoes). Remember, on the bottom the film goes under the bottom idler roller and on the top it goes directly to the shoe, it does not go over that top silver bar, that is just a support bar.** There is a threading diagram sticker on the bottom of the grey feed table. Set the mandrel tension by loosening the knobs until the spring is loose. Then tighten the knob until it just touches the spring, then add 3/4 turn. Run the threading card through stopping the machine when it is 1/2 way out of the back of the machine. Let it heat up for about 15 minutes.

Then run some film through until all the wrinkles clear out (about 3-4 ft). **Pull on the film as it comes**

out the back of the machine so it doesn't suck it back into the machine, especially the short piece where it is not clear and laminated together. Then run some test pieces.

Tools you'll need:

For the board all you'll need is a phillips screwdriver and a pair of pliers.

If you have to change the sensor you should also have 1/4" nut driver or a small socket set, a pair of crimpers to put new connectors on the wires, wire strippers, a utility knife with a couple blades, a 3/16 drill bit and a drill for worst case scenario.

You should be all set.

Let us know if you need anything else.

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