Digital 42/60 Heat Control Conversion

Part # D60 400.5

Issue: Digital 42/60 and Thermoglide models built between 1996 and 2000 used a Pactronics PRC215F and PRC217C heat control. This control is no longer available. We will now need to convert this series of Digital Laminators to use the current PRH130 control board if there is a heat control board failure. This conversion will require both boards to be changed even if only one has failed due to changes to the control panel.

Overview: To convert to the new style control. will require a special adapter plate to mount the heat control board since the existing board mounting standoffs have different spacing. To remove the current standoffs would require extensive disassembly of the machine because the fasteners for the current standoffs are located behind the top motor cover. The control panel and decal of the machine will also have to be changed because of the different controls. Wiring changes will be minimal as there is enough slack in most of the wires once they are untied. We will send the control panel with the switches installed. The switches will have to be replaced because the original switches have the connectors soldered to the existing switches.

The wiring of this assembly will require the technician to follow the wiring diagram precisely. Miswiring will short out additional components and cause additional expense in parts and labor. This should only be installed by highly skilled electrical technicians.

Parts Required:

1. (1) Heat control mounting adapter with fastener kit
2. (2) PRH130 heat control kits
3. (1) D105 220.4 Control panel
4. (1) LAB98 control panel decal
5. (8) Wire ties
6. (4) Heater control wire extensions
7. (1) PRS016 Rotary Switch
8. (2) PRS017 Red Heat Switch
9. (1) PRS018 Green Switch
10. (1) PRS019 Red Momentary Switch
11. (1) PRS020 Blue Switch
12. (1) PRS054 Emergency Stop Switch
13. (2) PRK185 Button
14. (2) PRK186 Button
15. (55) PRT310 Connector
16. Wiring Diagrams
17. (2) PRR251 relays (Note: Thermoglide Models will require (3) PRR251 relays)

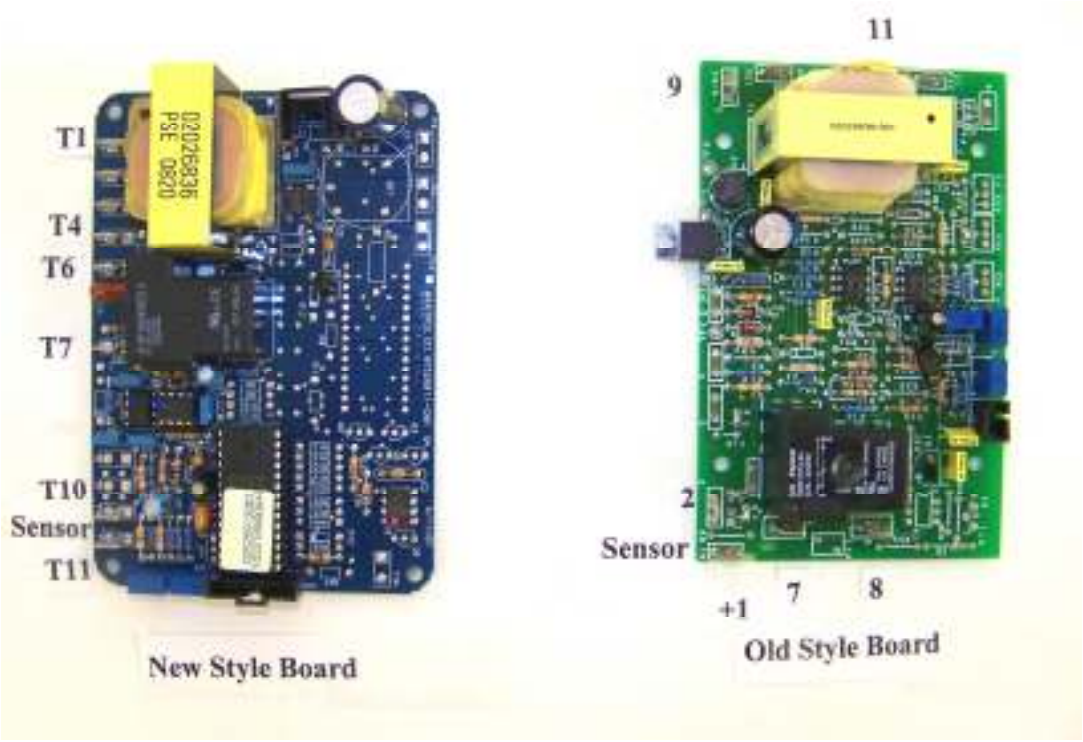
If sensors are needed they are Part# PRC212S

The steps to upgrade the control are:

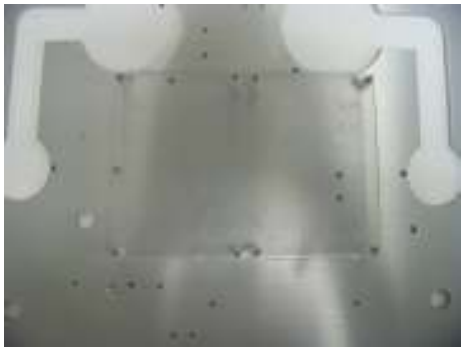
1. **<u>Unplug the machine first!</u>** Remove the existing heat control boards being careful to label each wire as they are removed per the diagram below.

<u>Be sure to label the wires before removing them from the old board!</u>

<u>Old Heat Board</u>		**<u>New Heat board</u>**
+1	=	**T10**
2	=	**T11**
7	=	**T6**
8	=	**T7**
9	=	**T4**
11	=	**T1**



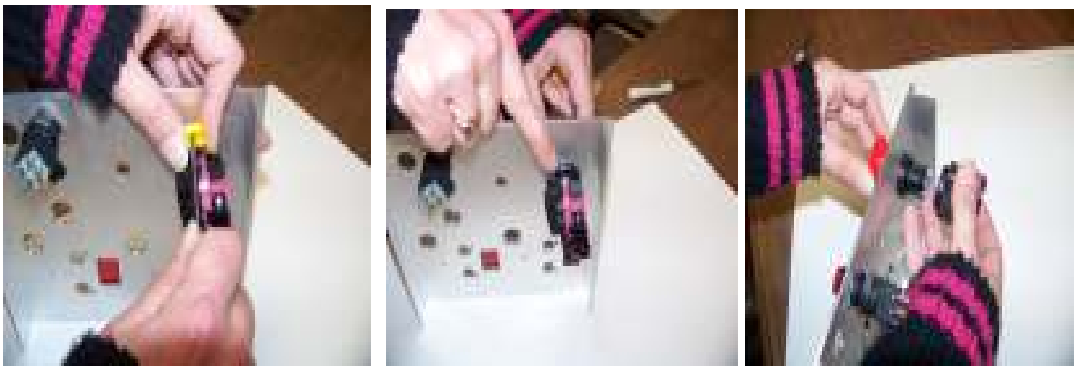
2. Mount the new adapter plate on the existing standoffs using the screws that held the old style boards on..



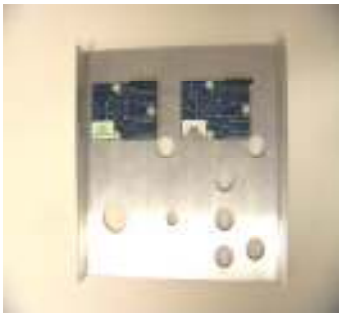
3. Mount the new heat control boards on the adapter plate using the included screws and standoffs.

4. Remove the switches and wiring from the existing control panel.
<u>NOTE</u>: **<u>YOU WILL NOT NEED TO UNHOOK ANY OF THE WIRES TO REMOVE THE SWITCHES.</u>**

Each switch has a small arm that locks the connecting plate of the switch to the control panel. The arm usually has a yellow plastic lock on it to keep it in place. Pry the yellow lock off and push the lever counter clockwise and slide the connecting plate out of the switch.



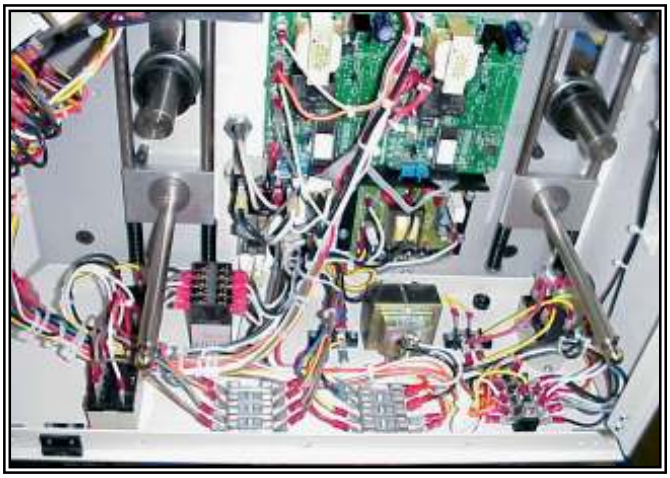
5. Remove the 4 screws holding the control panel on and install the new control



6. Reinstall the switches in the new control panel. Install the new heat control boards and connect the wires to the terminals as per the labeling you did in step one. There are extension wires included in this kit. Depending on the length of the wires on your machine these may not be needed. Run the ribbon cables to the digital readouts on the new control panel.

7. Plug the machine in and test the controls. If everything works fine, use the enclosed wire ties to secure the wiring.

8. **<u>The PRC130 Control can operate in Centigrade or Fahrenheit</u>**. To change to mode hold the blue button down for 5 seconds. You will see a “C” or an “F” in the display. This indicates the current mode.



Completed Installation


Be sure to label the wires before
removing them from the old board!
PART
TURN