

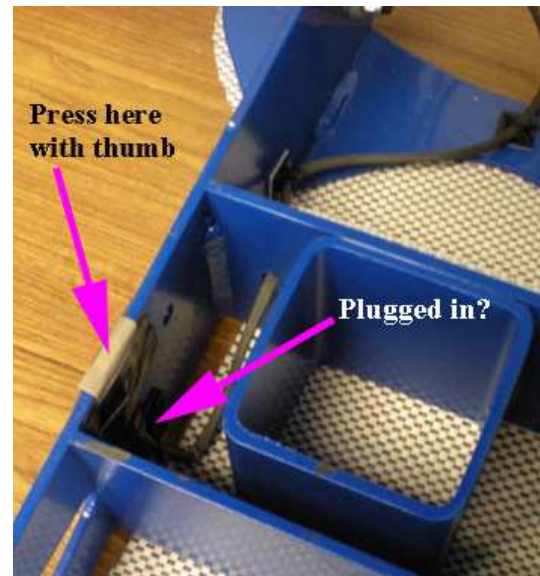
Troubleshooting the Digital Knight Pressure Bar-Graph Display

The pressure bar graph may lose its calibration due to the settling-in/break-in process of the lower table & sensor, and is easy to check & recalibrate. The press will operate fine with or without the pressure bar graph displaying as it is not a crucial feature for operation. Here are 2 major things to check & troubleshoot the bar graph:

1. Check the pressure sensor response by hand.

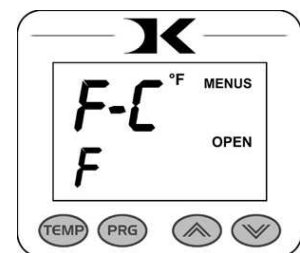
Lift the interchangeable rubber padded table off the base of the press as shown.

See if the wire is plugged in to the pressure sensor. The pressure sensor is a film strip that wraps around the top of the frame. The end has a circular line pattern, and this is what the lower table should be pressing on.



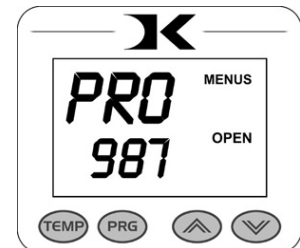
Turn the press on.

Press TEMP & PRG together. F-C displays. (if not, turn off press, try again)



Press PRG several times until PRO displays.

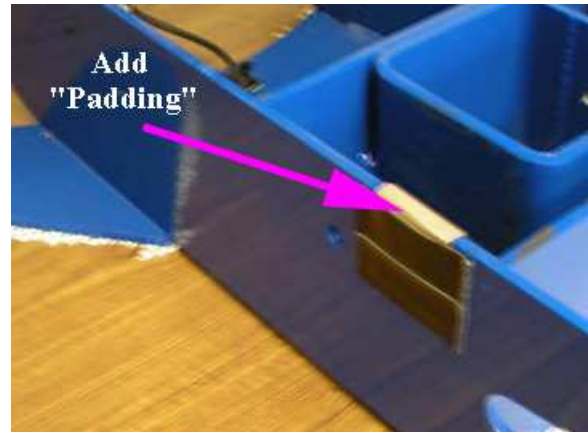
Press hard on the pressure sensor with your thumb. The numbers on the screen under PRO should change dramatically (more than a few digits). If they don't fluctuate, check to make sure the pressure sensor is plugged in at the base, and also at the circuit board in the control panel. If they still don't fluctuate when pressed on contact the factory.



Check the pressure sensor response by clamping the press.

If the numbers change/fluctuate when you press on the sensor, put the rubber padded table back on the press. Clamp the press onto the rubber padded table. See if the numbers under PRO change when the press is clamped normally like in regular use.

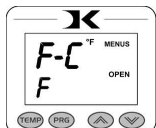
IF THERE IS NO CHANGE IN NUMBERS – you must ADD 2 or 3 layers of electrical tape/vinyl to the top of the pressure sensor for additional “Padding”. This will allow the sensor to feel the table pressing against it. Add the vinyl layers and check again.



2. Re-Calibrate the pressure sensor.

Once the numbers under PRO are responding, check to see if the pressure bar graph displays reasonable values for low & high pressure when operating the press normally.

If not, re-calibrate the bar graph:



Turn the press on.
Press TEMP & PRG together. F-C displays. *(if not, turn off press, try again)*



Press PRG until PRO displays.
To reset and redefine “0” for the pressure bar graph, use this calibration menu.

Adjust the pressure of the machine so there is barely any locking pressure when clamping and locking the press. Press either Arrow Key. The press now considers this pressure as “0” on the Pressure Bar Graph Display.



Press PRG and PMX displays.
To reset and redefine “9” for the pressure bar graph, use this calibration menu.

Adjust the pressure of the machine so there is extremely heavy pressure when clamping and locking the press. Press either Arrow Key. The press now considers this pressure as “9” on the Pressure Bar Graph Display. Press PRG repeatedly until the screen returns to the normal operating mode.

Play with the pressure setting and clamping of the press. The numbers should be low when the press clamps & locks lightly, and higher when the press locks tightly. Repeat the calibration process if necessary. It is a very “relative” pressure display and helpful feature for showing the difference of light and medium and heavy pressure only, and should not be correlated to high-accuracy psi gauges or other devices.

3. What to expect on the Pressure Bar Graph feature

A helpful comment on the pressure bar graph: Don't let it get you too sidetracked. The pressure bar graph feature is simply a nice display "bell & whistle" on the press to tell you when you are clamping and unclamping the press. On most models, it is somewhat useful, but the actual 2-handed clamping "FEEL" of locking the press is *Always* far more reliable to go by than the arbitrary numbers on the pressure graph. Let it guide you in light/medium/firm pressure, and always make sure the locking/clamping FEEL is correct, which is of first importance.

HOWEVER – with the Digital Combo multipurpose press in particular, the interchangeability of the bottom tables and attachments makes this newer feature less useful. It provides a good indicator that you are locking the press, but not necessarily 'scientifically super-accurate' as to whether you're pressing low/medium/high and all shades in between. Just an FYI...

All other features are super useful & accurate on these presses, and our USA-made and USA-supported machines will last you decades, not years.