

# DID YOU KNOW?

NO: 205

April 3, 2013

## CALIBRATION ROUTINES - PSS500 CONTROLLER

---

### Warning!

When in "EEPROM DIAGS", do not hit [ENTER] when "SET DEFAULT VALUES" is displayed. This will result in the loss of all setpoints and calibrations!

### Calibration Routines

#### Pressure LOW

Switch to calibrate and open the chamber door  
Hit any button  
Arrow up to **CALIBRATE**  
Arrow to **CALIB PRESSURE ZERO**  
Press **ENTER** "0.0"  
Press **ENTER** again to store settings. The printer will respond

#### Pressure HIGH

Close door and press **START** to charge the door gasket  
Arrow to **CALIB PRESSURE HIGH** and press **ENTER**  
Wait for all four cycle lights to light (pressure switch sees that gasket(s) are sealed)  
Arrow to 30  
Hold Button (1) (Steam to Chamber) until the gauge reaches 32. If the pressure bleeds too fast, the chamber bleed valve should be closed and then opened ¼ to ½ turn. Normally, it should be open approximately ½ turn  
When it is at 30, hit **ENTER** and the calibration will be stored and the printer will respond  
Press the Door Button to automatically exhaust the pressure after calibration is complete

### Buttons

1	Steam to Chamber (trim)
2	Purge (drain and trim)
3	Chamber Drain
4	Drain and Vac



# PRIMUS

STERILIZER Company, LLC • 6565 South 118<sup>th</sup> Street • Omaha, NE 68137 • Phone (402) 344-4200 • Fax (402) 344-4242

# DID YOU KNOW?

NO: 205

April 3, 2013

## CALIBRATION ROUTINES - PSS500 CONTROLLER (CONTINUED)

Press the Door Button to retract the gasket

### Jacket High and Low

#### NOTE

**Must have a pressure gauge connected to the jacket plumbing**

Either use room temperature for **JACKET LOW** if the machine is cold, or if calibrating to pressure, use the top part of the PRIMUS Logo Heart to charge the jacket until it reaches about 12 PSIG

Go to **CALIBRATE**, arrow to **JACKET LOW**, set to 230°F (110°C) and hit **ENTER** at 7 PSIG

Arrow to **CALIBRATE JACKET HIGH** and set to the calibration temperature

Using the top part of the PRIMUS Logo Heart to charge the jacket, calibrate 270°F (132.2°C) at 28 PSIG

### Chamber Low and High

Purge the chamber for one minute using Button (2)

Press and hold Button (1) until there is 10 PSIG on the gauge

Press and hold Button (4) until there is a 5-inch vacuum on the gauge

Press Button 1 until 10 PSIG

Press Button 4 until there is a 10-inch vacuum

Press Button 1 until 10 PSIG

Press Button 4 until there is a 15-inch vacuum

Press Button 1 until 10 PSIG

Page 2 of 3



# PRIMUS

STERILIZER Company, LLC • 6565 South 118th Street • Omaha, NE 68137 • Phone (402) 344-4200 • Fax (402) 344-4242

# DID YOU KNOW?

NO: 205

April 3, 2013

## CALIBRATION ROUTINES - PSS500 CONTROLLER (CONTINUED)

Press Button 4 until there is a 20-inch vacuum

Press Button 1 until around 30 PSIG

Go to **CALIBRATE CHAMBER HIGH, ENTER**, set temperature to 270°F (132.2°C) and while adjusting steam in, hit **ENTER** when the temperature matches the test thermometer or pressure (28.14 PSIG)

Go to **CALIBRATE CHAMBER LOW**, set temperature to 230°F (110°C), adjust steam, and hit **ENTER** when the temperature matches the test thermometer or pressure (7.06 PSIG)

PRIMUS usually calibrates at 90°C/194°F for Low and 135°C/275°F for High when using a heat well

### Pressure Temperature Table

230°F, 110°C = 7.06 PSIG

250°F, 121.1°C = 16.11 PSIG

270°F, 132.2°C = 28.14 PSIG

273°F, 134°C = 30.91 PSIG

Page 3 of 3



# PRIMUS

STERILIZER Company, LLC • 6565 South 118th Street • Omaha, NE 68137 • Phone (402) 344-4200 • Fax (402) 344-4242