

Initial Start-up Procedure after any Repairs

Test Connections

1. Go to (menu)(cal). Verify that MAIN transducer coefficients are correct.
2. Press (previous)(previous)
3. Go to (menu)(test)(shop1) and verify that the pump pressure and pump position transducers are functioning. The A/D counts should be between 0 and 39999 counts and be reasonably stable. The limit switches should be tripped manually by depressing the roller tip and an "X" should be displayed. If no responses are seen check that the ribbon cable which connects the upper and lower chassis is connected properly.
4. Press (previous)(previous)(previous)

Calibrate Pump Position

1. Go to (menu)(test)(pump)(cal pump)
2. Pump plunger should drive in both directions until it reaches it's limit switches, and then will calculate new coefficients and replace the defaults.
3. Press (previous)(previous)(previous)(previous)

Calibrate Pump Pressure

1. Go to (menu)(test)(purge)
2. Close RESERVOIR valve, open SYSTEM valve
3. COMPRESS pump to generate pressure between 85% and 100%. (If the pump runs out of stroke, record the reading of the pump transducer, close SYSTEM valve, EXPAND pump to bring the pressure down below 1000 psi, then open RESERVOIR valve, EXPAND pump to the limit switch. Close RESERVOIR valve and COMPRESS pump until the pump pressure transducer reads the value recorded earlier. Open the SYSTEM valve and repeat process from Step 2)
4. Once a pressure between 85% and 100% is achieved, and it is clear that the system is leak free, Press (previous)(previous)(previous)(previous).
5. Enter as a set point a pressure between 85% and 100%. Go to (CONTROL)(ENTER). Once a stable pressure is achieved the controller will then calculate new coefficients and replace the defaults. **DO NOT ALLOW THE CONTROLLER TO DO AN AUTOMATIC RECHARGE. IF THE CONTROLLER HAS NOT WRITTEN THE NEW COEFFICIENTS, THERE IS A POSSIBILITY THAT IT COULD BLOW A BURST DISC. IF THE CONTROLLER OSCILLATES AROUND SET POINT DUE TO A SMALL VOLUME, ADJUST THE CONTROL BAND FOR STABILITY.**