

4.8 PRO MONITOR CALIBRATION PROCEDURES

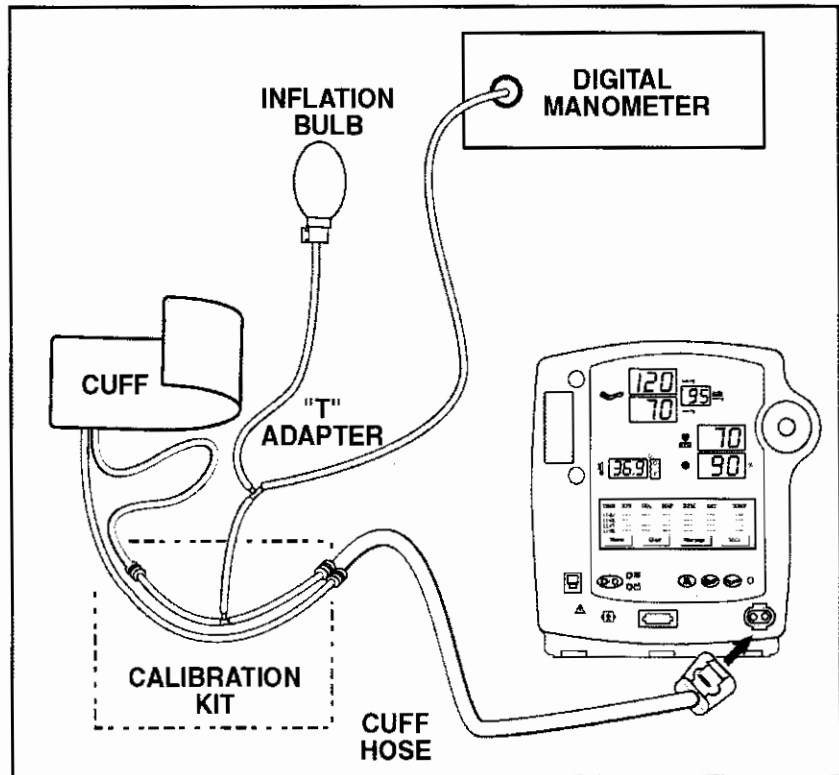


Figure 4-1. Calibration Check Set Up

Calibration procedures include verification of the NIBP calibration, calibration of the pneumatic system, and verification and adjustment of neonatal and adult overpressure points. These tests require a manometer and a pump attached to the PRO Monitor as shown in Figure 4-1, above. An adult blood pressure cuff wrapped around a semi-rigid cylinder may be used.

clockwise to raise the overpressure. If the point is too high, turn the potentiometer *counterclockwise* to lower the point. Repeat the procedure until the overpressure is within the limits specified above. Re-secure the adjustment with adhesive. The adult overpressure point is double the neonate value.

4.13 PRE-SERVICE TEST PROCEDURES

The following procedures can be used to check the primary functions of the PRO Monitor before releasing the unit for clinical service.

The Monitor is tested by applying various stimuli to the sensor interfaces or measuring of specific parameters. The test procedures employ features of the operational software and the test modes of the Service Menu.

A guide to the PRO Monitor controls, indicators and connectors is in Section 2 of the PRO Monitor service manual.

Test Equipment

1. Digital Pressure Gauge 0-375mmHg, 0.2% accuracy, Digitron P200L or similar.
2. NELLCOR^{*} SpO₂ Simulator Model SRC-2, PT2500 or N1290 or similar.
3. NIBP Calibration Kit CRITIKON P/N 320246, or similar.
4. IVAC^{**} Probe Simulator, P/N 193737, Alaris Medical Systems.

Test Conditions

Testing shall be conducted with an ambient temperature of 25 °C ± 5 °C (77 °F ± 9 °F).

Service Modes

During several procedures the operator needs to enter the Service mode or the Super Service mode. The Monitor can be switched into these modes by using the following procedures.

Selecting Service Mode

1. From the Main menu select the **More...** button.
2. From the sub menu select the **Service** button.
3. Enter access code **2 2 1 3** to display the Service menu.

^{*} NELLCOR is a trademark of Mallinkrodt, Inc.

^{**} IVAC is a trademark of Alaris Medical Systems.