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Your
Breath
With** **NST[®]**
MODERN SAFETY TECHNIQUES

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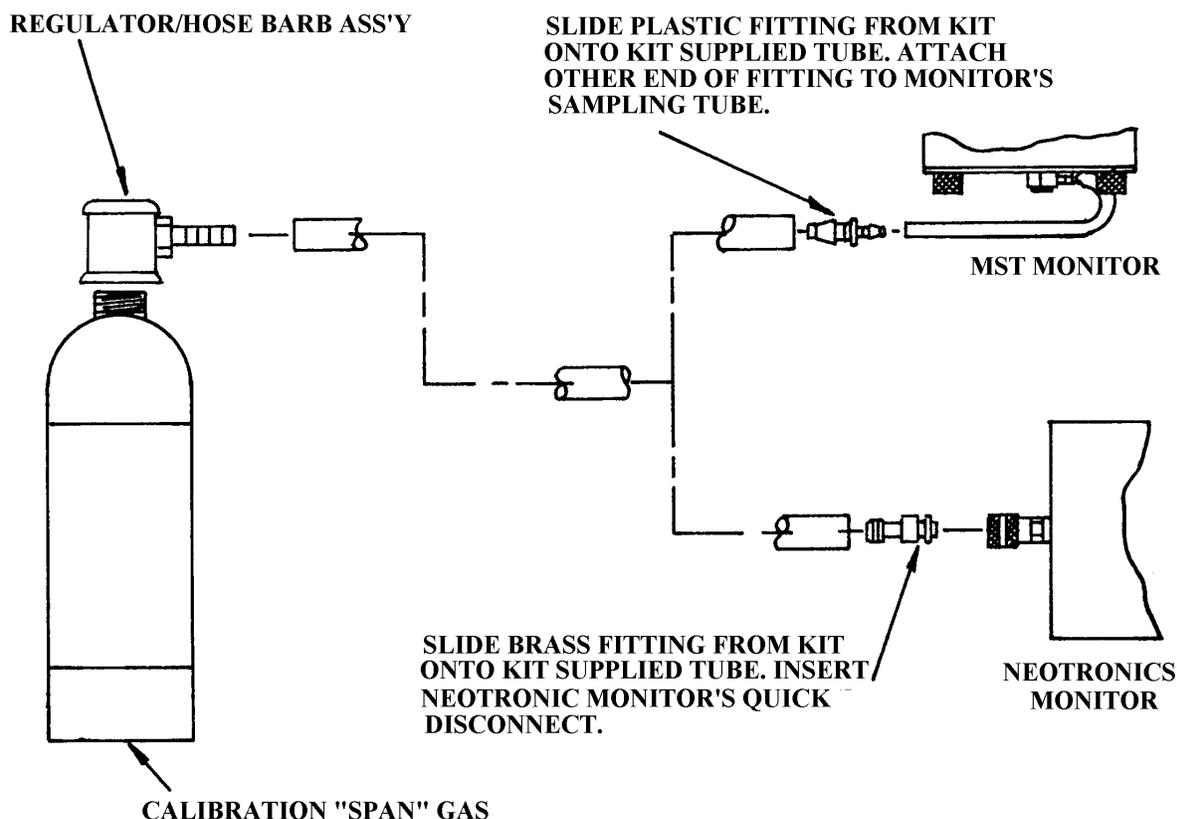
CALIBRATION INSTRUCTIONS
FOR THE MST OR NEOTRONIC
CARBON MONOXIDE MONITORS

NOTE: USE THESE INSTRUCTIONS WHEN USING 8003101 CALIBRATION KIT.

**WARNING: Failure to follow these instructions could result in serious personal injury, death
or damage to the instrument.**

MST, Inc. recommends calibrating the carbon monoxide monitor, periodically, according to the instruction manual provided with each unit.

MST's 8003101 Calibration Kit is furnished with a non-adjustable regulator to ease the calibrating procedure. **WARNING: To avoid damage to the monitor's sensor, regulator provided in this kit must be used.** Before attempting to use this kit, be certain that the components are connected as shown in the sketch below and read the section on "CALIBRATION AND ADJUSTMENT" in the instruction manual furnished with the instrument. It will save time and conserve calibration gas if the instrument is "warmed up" and the calibration adjustment controls have been located on the instrument prior to screwing the regulator on to the test gas cylinder.



CALIBRATION PROCEDURE

NOTE: HAVE ALL TUBING AND EQUIPMENT READY FOR PERFORMING THE FOLLOWING CALIBRATION PROCEDURES BEFORE SCREWING BOTTLE OF TEST GAS ONTO REGULATOR. GAS WILL FLOW OUT OF CYLINDER WHEN REGULATOR IS ATTACHED TO TEST GAS CYLINDER.

A. ZEROING THE INSTRUMENT

1. Remove the protective plastic cap (if supplied) from the ZERO AIR cylinder outlet.
2. Connect the plastic tubing provided in the kit to the appropriate fitting (depending on the monitor you are calibrating) as shown in the preceding diagram, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample port, or tube to the proper end of the above tubing/regulator assembly.
4. Locate ZERO adjustment potentiometer and verify instrument has had adequate warm-up time. (See monitor's instruction manual)
5. Screw regulator valve onto the ZERO AIR cylinder outlet, making sure not to "cross thread" the regulator on cylinder outlet port, and tighten regulator firmly.
6. Observe display on instrument. Reading should move to zero (000 or 00) after approximately two (2) minutes. If display does not read zero (000 or 00), adjust ZERO potentiometer such that display now reads zero (000 or 00).
7. When the above steps have been completed, un-screw regulator valve from ZERO AIR cylinder and replace plastic protective cap.

B. SPANNING THE INSTRUMENT

1. Remove the protective plastic cap (if supplied) from the SPAN GAS cylinder, noting the concentration of carbon monoxide printed on the cylinder.
2. Connect the plastic tubing provided in the kit to the appropriate fitting (depending on the monitor you are calibrating) as shown in the preceding diagram, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample port, or tube to the proper end of the above tubing/regulator assembly.
4. Locate SPAN adjustment potentiometer and verify instrument has had adequate warm-up time (see monitor's instruction manual).
5. Screw regulator valve onto the SPAN GAS cylinder outlet, making sure not to "cross thread" the regulator on cylinder outlet port, and tighten regulator valve firmly.
6. Observe the display on the instrument. The reading will increase, and then stabilize. As soon as reading is stable (approximately one/two minutes), compare the value indicated on the display, with the value noted on the SPAN GAS cylinder, adjust the SPAN potentiometer until the reading indicated on the display matches the concentration of carbon monoxide printed on the SPAN GAS calibration gas cylinder.
7. When the above steps have been completed, un-screw regulator valve from SPAN GAS cylinder and replace the protective plastic cap.
8. Disconnect the associated calibration test tubing from the monitor and re-connect monitor's sample tube to sampling supply on filtration system.

Place all calibration kit components back into the protective plastic case to prevent damage or loss

to components.

WARNING: FAILURE TO RE-CONNECT MONITOR TO BREATHING AIR SYSTEM WILL VOID APPROPRIATE STANDARDS REQUIRING A CARBON MONOXIDE MONITOR AND COULD RESULT IN PERSONAL INJURY OR DEATH.

MST, Inc. shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use of or the inability to use this product, beyond the replacement of defective materials or workmanship. Users of supplied air respirators should evaluate their own particular application and perform their own tests for air quality to determine the suitability for use of this product.

For further information, or questions about service or maintenance care of this unit, contact your local distributor or MST, Inc. at (800) 542-6646.