3M Calibration Kit
529-04-48, Large
User Instructions

For use with 3M™ Carbon Monoxide Monitor

GENERAL SAFETY INFORMATION

Intended Use:
This 3M™ Calibration Kit is designed to allow the 3M™ Carbon Monoxide Monitor to be zeroed and spanned to insure accurate readings of CO in the air flowing through 3M™ Portable Air Purification Panels.

USE INSTRUCTIONS AND LIMITATIONS

Important:
Before using, the user must read and understand these User Instructions and the 3M™ Carbon Monoxide Monitor User Instructions. Keep for reference.

Use For:
Calibration of 3M carbon monoxide monitors.

Do Not Use For:
Any other purposes other than calibration of 3M carbon monoxide monitor.

Use Instructions:
The calibration kit 529-04-48 is furnished with an "On-Off" regulator to ease the calibrating procedure.

CAUTION:
To avoid damage to the monitor's sensor, the regulator provided in this kit must be used. Before attempting to use this kit, be certain that the components are connected as shown in figure 1 and read the section on "Calibration and Adjustment" in the user Instructions furnished with the CO monitor. It will save time and conserve calibration gas if the monitor is "zeroed up" and the calibration equipment controls have been located on the monitor prior to removing the regulator from the test gas cylinder.

WARNING:
If user equipment described in these instructions is not in accordance with applicable health and safety standards or pursuant to the recommendations of an industrial hygienist, Do not use with parts or accessories other than those supplied by 3M as specified in these instructions. Failure to do so may reduce respirator effectiveness and result in sickness or death.

CALIBRATION EQUIPMENT

The following equipment is recommended for zeroing and calibrating the 3M™ Carbon Monoxide Monitor:

- 3M™ Carbon Monoxide Monitor
- Calibration Gas
- "On-Off" regulator
- Zero Air cylinder
- Test gas cylinder
- Regulator (0.3 lpm)

Zeroing the Monitor
1. Remove the protective cap (if supplied) from the ZERO AIR cylinder outlet.
2. Connect the plastic tubing provided in the kit to the plastic fitting as shown in figure 1, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample tube to the proper end of the above tubing/adjustment assembly.
4. Locate the Zero adjustment potentiometer and verify monitor has had adequate warm-up time (see CO monitor's User Instructions).
5. Screw regulator valve onto the SPAN GAS cylinder outlet, making sure not to "cross thread" the regulator or cylinder outlet port, and tighten regulator firmly. Open knob on regulator counterclockwise to start gas flow.
6. Observe the display on the monitor. The reading will increase, and then stabilize. As soon as reading is stable (approximately one minute), compare the value indicated on the display, with the value indicated on the display, with the value noted on the SPAN GAS cylinder gas cylinder.
7. When the above steps have been completed, close knob on regulator completely to stop gas flow. Unscrew regulator valve from SPAN GAS cylinder and replace the protective plastic cap.

Spanning the Monitor
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 plastic fitting as shown in figure 1, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample tube to the proper end of the above tubing/adjustment assembly.
4. Locate the Span adjustment potentiometer and verify monitor has had adequate warm-up time (see CO monitor's User Instructions).
5. Screw regulator valve onto the SPAN GAS cylinder outlet, making sure not to "cross thread" the regulator or cylinder outlet port, and tighten regulator firmly. Open knob on regulator counterclockwise to start gas flow.
6. Observe the display on the monitor. Reading should move to zero (00) after approximately one (1) minute. If display does NOT read zero (00), adjust 3M™ CO Monitor to ensure that monitor reads zero (00).
7. When the above steps have been completed, close knob on regulator completely to stop gas flow. Unscrew regulator valve from the 3M™ Carbon Monoxide Monitor and replace plastic protective cap.

USE INSTRUCTIONS AND LIMITATIONS

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Use For:
Calibration of 3M carbon monoxide monitors.

Do Not Use For:
Any other purposes other than calibration of 3M carbon monoxide monitor.

Use Instructions:
The calibration kit 529-04-48 is furnished with an "On-Off" regulator to ease the calibrating procedure.

CAUTION:
To avoid damage to the monitor's sensor, the regulator provided in this kit must be used. Before attempting to use this kit, be certain that the components are connected as shown in figure 1 and read the section on "Calibration and Adjustment" in the user Instructions furnished with the CO monitor. It will save time and conserve calibration gas if the monitor is "zeroed up" and the calibration equipment controls have been located on the monitor prior to removing the regulator from the test gas cylinder.

WARNING:
If user equipment described in these instructions is not in accordance with applicable health and safety standards or pursuant to the recommendations of an industrial hygienist, Do not use with parts or accessories other than those supplied by 3M as specified in these instructions. Failure to do so may reduce respirator effectiveness and result in sickness or death.

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The following equipment is recommended for zeroing and calibrating the 3M™ Carbon Monoxide Monitor:

- 3M™ Carbon Monoxide Monitor
- Calibration Gas
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- Zero Air cylinder
- Test gas cylinder
- Regulator (0.3 lpm)

Zeroing the Monitor
1. Remove the protective cap (if supplied) from the ZERO AIR cylinder outlet.
2. Connect the plastic tubing provided in the kit to the plastic fitting as shown in figure 1, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample tube to the proper end of the above tubing/adjustment assembly.
4. Locate the Zero adjustment potentiometer and verify monitor has had adequate warm-up time (see CO monitor's User Instructions).
5. Screw regulator valve onto the SPAN GAS cylinder outlet, making sure not to "cross thread" the regulator or cylinder outlet port, and tighten regulator firmly. Open knob on regulator counterclockwise to start gas flow.
6. Observe the display on the monitor. The reading will increase, and then stabilize. As soon as reading is stable (approximately one minute), compare the value indicated on the display, with the value noted on the SPAN GAS calibration gas cylinder.
7. When the above steps have been completed, close knob on regulator completely to stop gas flow. Unscrew regulator valve from SPAN GAS cylinder and replace the protective plastic cap.

Spanning the Monitor
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 plastic fitting as shown in figure 1, and connect the opposite end of the tubing securely to the barbed fitting on the regulator.
3. Connect the monitor's sample tube to the proper end of the above tubing/adjustment assembly.
4. Locate the Span adjustment potentiometer and verify monitor has had adequate warm-up time (see CO monitor's User Instructions).
5. Screw regulator valve onto the SPAN GAS cylinder outlet, making sure not to "cross thread" the regulator or cylinder outlet port, and tighten regulator firmly. Open knob on regulator counterclockwise to start gas flow.
6. Observe the display on the monitor. Reading should move to zero (00) after approximately one (1) minute. If display does NOT read zero (00), adjust 3M™ CO Monitor to ensure that monitor reads zero (00).
7. When the above steps have been completed, close knob on regulator completely to stop gas flow. Unscrew regulator valve from the 3M™ Carbon Monoxide Monitor and replace plastic protective cap.

For More Information:
If you have any questions about the use, care, or performance of the 3M™ Carbon Monoxide Monitor, contact your local 3M representative or call 3M in U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.

3M APPROVALS:
N/A 3M Packaging Preview, St. Paul 11-29-00 3M Electronic Routing, St. Paul 12-5-00 3M Final Approval, St. Paul

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