GENERAL SAFETY INFORMATION

Intended Use
Replacement of electrochemical sensor in 3M Carbon Monoxide Monitor.

USE INSTRUCTIONS AND LIMITATIONS

Important
Before use, the wearer must read and understand these User Instructions. Keep these instructions for reference.

WARNING
Use of equipment described in these User Instructions must be in accordance with applicable Health and safety regulations or standards to minimize the risk of injury to the wearer and others. Refer to the warnings and precautions printed on the equipment. The equipment may give false readings if not properly used. Use only equipment that has been selected to house user instructions. Failure to do so can result in respirator effectiveness and/or exposure to inhalation or death.

REPLACEMENT INSTALLATION INSTRUCTIONS

1. Remove the 2 knurled thumbscrews at monitor bottom. Pull the bottom plate off the housing as far as wiring will allow.
2. If wires are connected to tab, pin or round circuit board connectors, see Installation Instructions A, (Fig. 1).
3. If wires are connected to a rectangular circuit board, see Installation Instructions B, (Fig. 2).
4. Remove carbon monoxide (CO) sensor from the flow block on top of bottom plate. Pull tab, pin or round circuit board wire harness off of sensor, noting the color-coding. If rectangular circuit board is attached to sensor, unscrew the 2 mounting screws and remove sensor from flow block cavity. Pull circuit board connectors off pin of sensor.
5. Discard old CO sensor. It contains a small amount of sulfuric acid. Dispose of sensor according to local regulations.

WARNING
Failure in installation and use can cause serious burns. Do not allow skin to contact acid or eyes. If eyes are exposed to acid, flush thoroughly and seek immediate medical attention.

CAUTION Always wash hands thoroughly after handling CO sensor.

Installation Instructions A

If wires are connected to a rectangular circuit board that is attached to the flow block by mounting screws, see Installation Instructions A, (Fig. 1).

1. After old sensor has been removed and disposed of, note O-ring located at bottom of flow block. DO NOT LOSE.
2. Pull tab, pin or round circuit board wire harness off tab/pins of sensor, noting the color-coding. If rectangular circuit board is attached to sensor, unscrew the 2 mounting screws and remove sensor from flow block cavity. Pull circuit board connectors off pins of sensor.
3. Attach the pin or circuit board wire harness to new sensor as listed below.

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Sensor Pin Terminal</th>
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<tbody>
<tr>
<td>Blue (CNTR)</td>
<td>Black REF</td>
</tr>
<tr>
<td>Black (CNTR)</td>
<td>Yellow SENSING</td>
</tr>
<tr>
<td>Blue (REF)</td>
<td>Red SENSING</td>
</tr>
<tr>
<td>Red (SENSING)</td>
<td>Blue REF</td>
</tr>
</tbody>
</table>

4. The fourth pin on sensor is used as a guide pin to install circuit board to sensor, if required. New sensors come with a shorting wire/spring connecting the sensing and reference pins. Remove and discard before attaching new sensor.

5. Be sure flow block cavity is clean and dry and a small amount of petroleum jelly or similar lubricant is applied on the O-ring seal within block. Then push the CO sensor into block with a twisting motion until it seats on the ledge halfway down.

6. Replace the bottom plate and secure it with thumbscrews. Make sure the inlet sample swivel elbow and hose barb fitting is firmly tightened.

7. Power monitor and allow at least one hour stabilization and then calibrate monitor.

FOR MORE INFORMATION

In United States, contact: 1-800-3M-HELP or 1-651-737-6501
In Canada, contact: 1-800-267-4414