



09-004B
19 August, 2009

**CORRECTING THE ARRANGEMENT OF THE BYPASS FLOW CONTROL
ASSEMBLY IN THE M200EM-EH**

I. PURPOSE:

This service note is to provide instructions on how to rearrange the bypass flow control assembly in the M200EH/EM with the three-port reaction cell to prevent the orifice from clogging. If your M200EH has a serial number of 465 or **higher** or your M200EM has a serial number of 288 or **higher**, it may be necessary to rearrange the order of the components that make up the bypass flow control assembly.

II. TOOLS:

Two 9/16 opened end wrench
7/16 opened end wrench

III. PARTS:

None



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

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IV. PROCEDURE:

The arrangement of the components in the flow control assembly is important to control the flow of gas through the instrument. If the components that make up the bypass flow control are assembled in the wrong order, the orifice will come in contact with the sample gas before the sintered filter can filter it.

1. Locate the reaction cell (see figure 1)

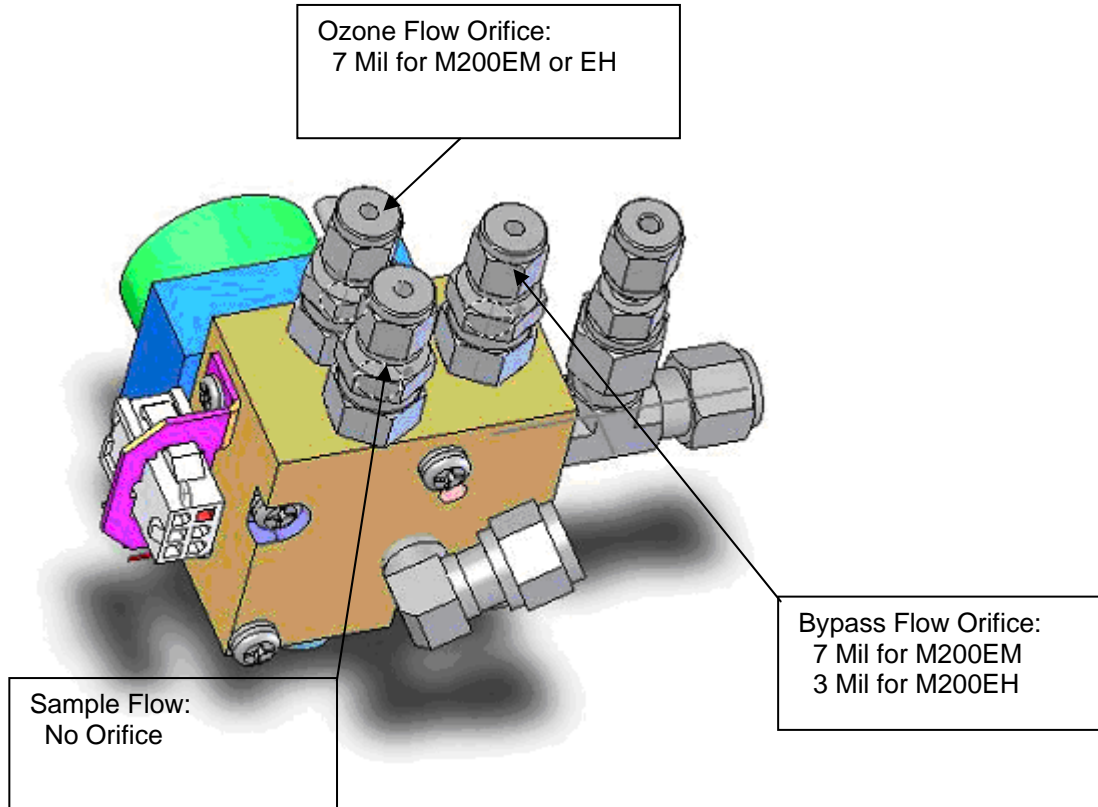
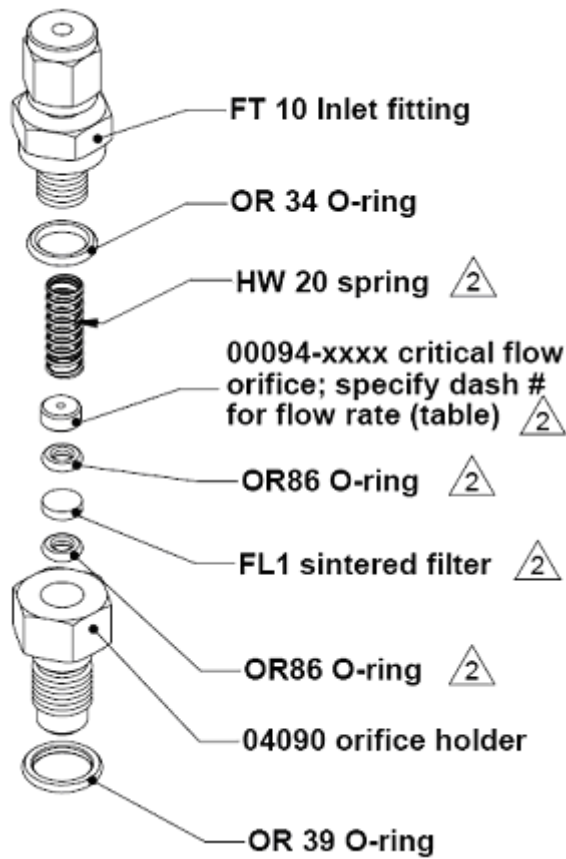


FIGURE 1 – three port reaction cell Assy P/N 06028

2. Using your 7/16-opened end wrench, loosen the hex nut and disconnect the 1/8th inch pneumatic line from the Bypass Flow Orifice Assembly.
3. Loosen and remove the Bypass Flow Orifice Assembly from the reaction cell manifold by using your 9/16-opened end wrench to loosen the orifice holder, see figure 2.
4. Use two 9/16-opened end wrenches, one to hold the orifice holder and the other to loosen and remove the inlet fitting (FT 10) from the assembly.
5. Remove the contents of the orifice holder and reinstall them in the order depicted in figure 2.
6. Reinstall the inlet fitting (FT 10).
7. Reinstall the bypass flow control assembly into the reaction cell and reconnect the 1/8th inch pneumatic line.

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FIGURE 2 – Bypass Flow Control Assy P/N 045500200

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