

Technical Bulletin # 48

To: Coulometrics Support Personnel
From: Applications/Engineering Dept.
Date: August 5, 2003
Subject: Installing CM101-218 SV5 Assembly in the CM5240.

Installing SV 5

1. Make sure the CM5240 is in the 'home' position and is ready for sample analysis. (The acid light and load sample light is on and not blinking.) If not in the 'home' position, press the 'Clear/Init.' button to return the slider to the home position
2. Turn off the instrument using the switch on the front of the unit.
3. Unplug the power cord from the back of the unit.
4. Disconnect the heated condenser power plug and thermocouple plug from the rear of the CM5240.
5. Disconnect the Condenser gas line -Unplug the male fitting from the quick connect fitting on the rear of the CM5240 labeled 'FROM CONDENSER'.
6. Carefully remove the heated condenser from the slider valve body.
7. Unscrew the shipping/alignment screw (metric head – 7 mm).
8. Remove the top of the CM5240.
9. Open the bottle compartment door and disconnect and remove the bottle rack.
10. Remove the Left side panel by unsnapping it from the spring clips.
11. Locate SV 5. It is the third valve back from the front and is the only one in that group that is a three-way valve.
12. Using a 3/32 hex key (US) or Phillips screwdriver (2003 production, on) remove the two small 4-40 screws mounting the SV5 to the frame.

Fig 1 PROPER ORIENTATION OF NEW SV5



13. Using a small crescent wrench loosen and disconnect the 1/8 inch compression nut fittings threaded into the old SV5. **Note:** Do not attempt to remove the Teflon lines from their positions. These lines will remain in position for easily connecting the replacement valve.
14. Trace the SV5 cable to the connector and disconnect the old SV5 from its connector of the wiring harness.

15. Install the replacement SV5 valve by placing the new assembly in the orientation shown in figure 1. Note, the proper orientation of the new SV5 will be upside down and positioned as shown in figure 1.
16. Fasten down the valve using the same screws removed earlier to remount the valve on the frame. (FIG. 2).
17. Remove the blue plastic shipping plugs and Re-connect each of the three-compression nut and tubing connections into the valve body by hand. Be careful not to over tighten or cross thread the connections.
18. Plug in the electrical connector of the new SV5 into the connector on the wiring harness.
19. Complete the installation by reassembling the instrument.

FIG. 2

