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12-012

13 July 2012

VALVE ASSEMBLY RETROFIT (NO_y)

I. PURPOSE:

To give instructions on how to install a new pre-reactor valve assembly into the NO_y instrument, this new valve assembly has a single Peek valve for the (NO/NOX valve) instead of the original SS valve.

II. TOOLS:

Flat tip screwdriver
Phillips screwdriver
7/16" wrench
9/16" wrench

III. PARTS:

024600400 ASSY, PREREACTION, NO/NOX VLV, 200U NO_y, RKR

IV. PROCEDURE:

Please Note that in order for this retrofit to work properly the Reaction Cell should be cleaned prior to the installation of the new valve assembly.

The addition of the new valve will cause a slight drop in sample flow, and in both the RCell and Sample pressures, since these changes remain constant it will be calibrated out as part of the normal PMT adjustment and will not affect the instrument.

Removal of old valve assembly

1. Turn the instrument OFF and remove the power cable to the instrument.
2. Remove the top cover of the instrument.
3. Locate the pre-reactor valve assembly. Figure 1
4. Remove the tubing on the valve assembly as shown in Figure 2.
5. Loosen the (2) two captive screws of the valve assembly bracket. Figure 3
6. Remove the (2) two power connectors for the valves. Figure 3
7. Remove the valve assembly including the bracket from the instrument.

Installation of new valve assembly

1. Take the new valve assembly and install in the same location as the old assembly.
2. Tighten the 2 captive screws on the bracket.
3. Connect the two power connectors for the valves.
4. Connect all of the tubing from the valve assembly as shown in Figure 4 use the DELRIN wrench provided in the KIT to tighten the fittings on the new valve.
5. Perform a Leak check
6. The instrument is now ready for use.

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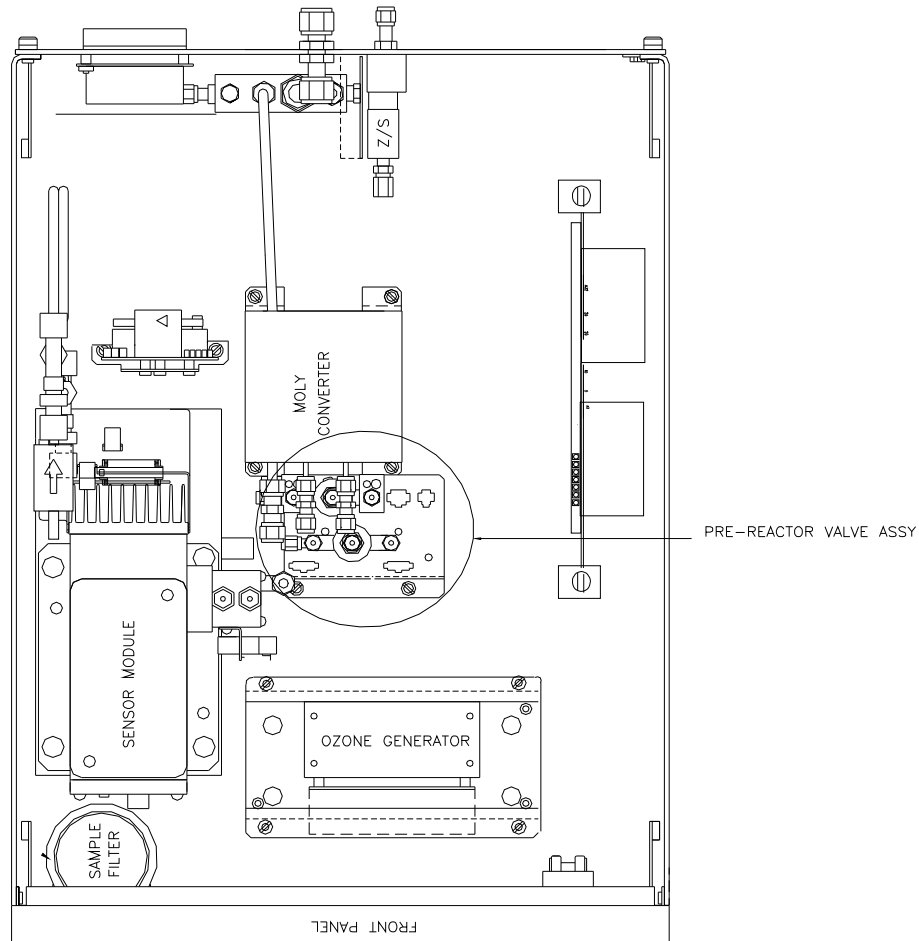


FIGURE 1

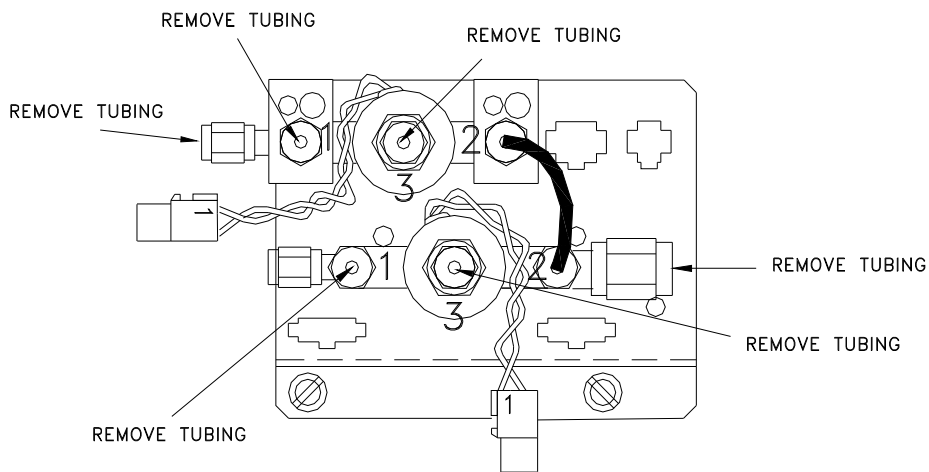


FIGURE 2

VALVE ASSEMBLY RETROFIT (NO_y)

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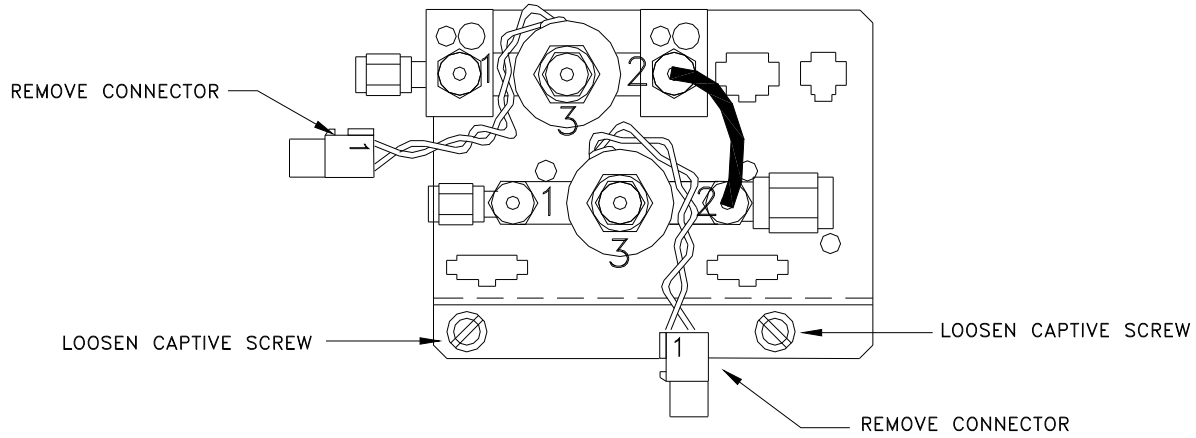


FIGURE 3

INSTALLATION OF NEW VALVE ASSEMBLY

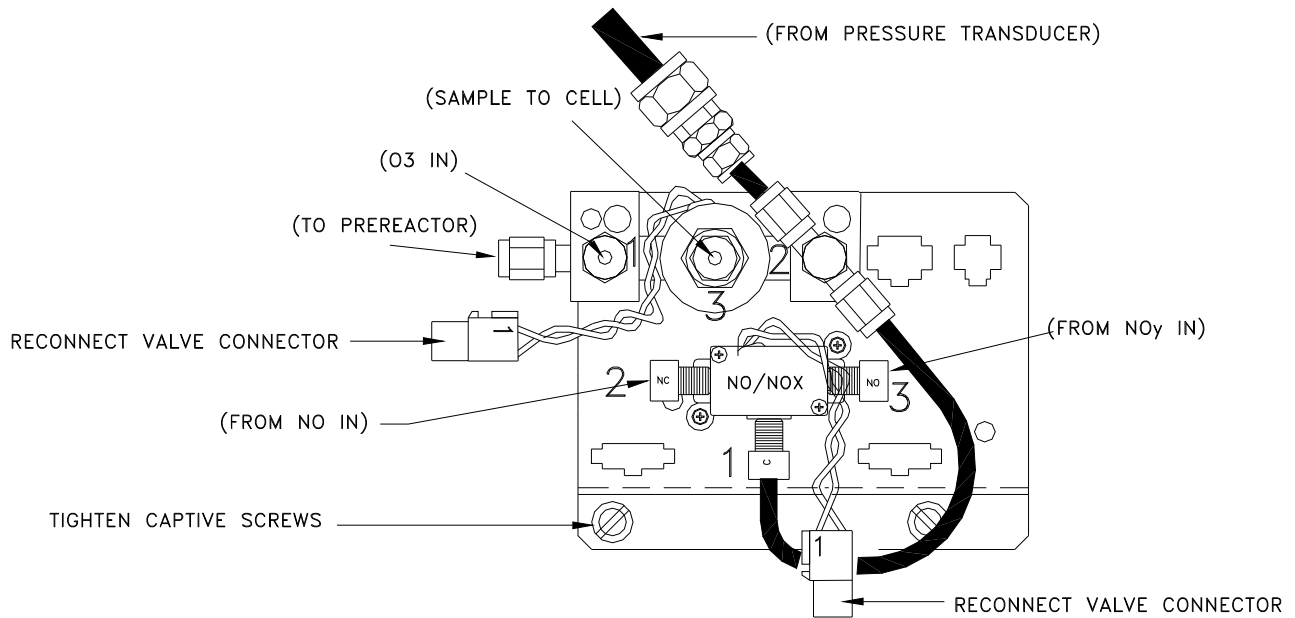


FIGURE 4

VALVE ASSEMBLY RETROFIT (NO_x)

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