



95-014B

2 May, 2007

CLEANING REACTION CELL WINDOWS ON NOX ANALYZERS

I. PURPOSE:

To aid in the cleaning of Rcell windows on NOx analyzers.

II. TOOLS:

#2 Phillips Screwdriver

9/16" wrench

7/16" wrench

Glass cleaner

Di or Distilled water

III. PARTS:

N/A

IV. PROCEDURE:

1. Remove the sample, ozone and vacuum pneumatic connections in the end of the reaction cell.
2. Disconnect the heater/thermistor cable at the connector.
3. Remove the 4 screws holding the reaction cell to the sensor assembly, being sure to remove the ground wire.
4. Remove the sleeve from the reaction cell. O-rings are usually stuck to the sleeve ends. If so, remove one of the o-rings from the sleeve.
5. Push the window gently out of the reaction cell. Clean the window with AMMONIA FREE glass cleaner, a baking soda and water solution or a 10:1 solution of water and simple green.
6. Rinse the window thoroughly with Di or Distilled water and dry with a soft, lint free cloth.
7. Clean the sleeve and other contaminated metal surfaces in the same manner.
8. Reassemble in the reverse order of disassembly, being sure to seat the paper gasket in the reaction cell before dropping the window in. Also, after inserting the window, drop the o-ring you removed from the sleeve on top of the window before inserting the sleeve.
9. When reattaching the sample and ozone tubing, attach as follows:
 - A. On ambient analyzers (below 100 PPM), connect the ozone to the 4 mil orifice and the sample to the 10 or 12 mil orifice.
 - B. On high concentration analyzers (above 100 PPM), connect the ozone to the 7 mil and the sample to the 4 mil orifice.
10. Leak check the instrument before calibrating the analyzer.

