



03-025B  
2 May, 2007

### **OZONE GENERATOR DETECTOR RETROFIT**

**I. PURPOSE:**

To give instructions on how to retrofit the ozone generator detector with new o-rings and clamps.

**II. TOOLS:**

Phillips screwdriver  
7/16 open-end wrench  
9/16 open-end wrench  
Diagonal cutters

**III. PARTS:**

KIT000181

**IV. PROCEDURE:**

Removal of the old o-ring and holder plate.

1. Power down the instrument.
2. Remove the photometer bench to gain access to the ozone generator. You may need to cut some tie wraps in order to remove the bench.
3. Disconnect the heater, thermistor and lamp at their proper connectors.
4. Disconnect the 1/8" tubing that is connected to the flow controller on the ozone generator.
5. Remove the two screws underneath the instrument that hold the ozone generator to the chassis.
6. Remove the ozone generator from the instrument.
7. Using the Phillips screwdriver remove the cover from the detector, and remove the two screws that hold the detector board on to the standoffs.
8. Using the Phillips screwdriver remove the two screws that hold the retaining plate on to the generator.
9. Pull out the detector, plate and o-ring.
10. Remove the plate and o-ring from the detector and disregard it.

Installation of the new o-rings and holder plates (Refer To Figure 1).

1. Take the parts from the kit and assemble them as shown on Figure 1.
2. Slide the first holder plate (04821) on to the detector then the o-ring (OR48) then the next plate (04821) and another o-ring (OR48).
3. Next slide the remaining holder plate (04807) and the last OR48 on to the detector.
4. Place the remaining o-ring (OR26) into the detector housing.
5. Take the detector with all of the plates and o-rings and insert it into to the ozone generator as shown in Figure 1.
6. Before tighten the two screws push down on the detector and the top plate to properly seat all of the o-rings.
7. Tighten the two 5/8" that came in the kit.

OZONE GENERATOR DETECTOR RETROFIT

03-025 Rev B

Page 1 of 3

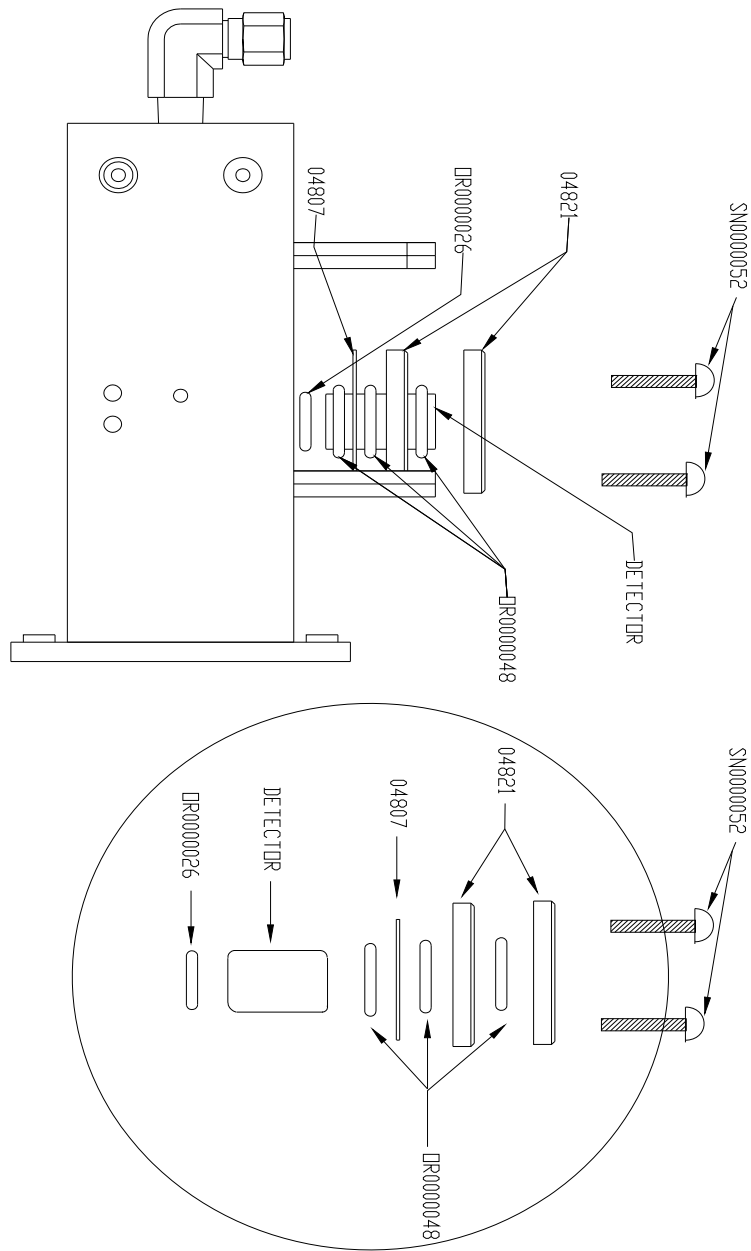
8. Next tighten the screws that fasten the board to the stand-offs.
9. Replace the detector cover and re-install the ozone generator and photometer bench it to the instrument.
10. Perform a leak check
11. Perform an O3 adjust.
12. Perform the Ozone Gen calibration.
13. The instrument is ready to use.

OZONE GENERATOR DETECTOR RETROFIT

03-025 Rev B

Page 2 of 3

**FIGURE 1**



PCB 00534 NOT SHOWN FOR CLARITY

**OZONE GENERATOR DETECTOR RETROFIT**

03-025 Rev B

Page 3 of 3