



**97-020 Rev B  
2 May, 2007**

**RETROFITTING “BRICK” STYLE O<sub>3</sub> GENERATORS INTO M200, M200A, M251 AND M252 NO<sub>x</sub> ANALYZERS.**

**SCOPE:** API has redesigned the O<sub>3</sub> generator for NO<sub>x</sub> analyzers. The new style, or “brick” O<sub>3</sub> generator has been created to reduce failures and eliminate maintenance on O<sub>3</sub> generators.

**TOOLS:**

- #2 Phillips Screwdriver
- 9/16” wrench
- 1/2” wrench
- 7/16” wrench
- Large Flatblade Screwdriver (M200A)
- API PN# KIT000001 for M200
- API PN# KIT000002 for M200A
- API PN# KIT000008 for M251
- API PN# KIT000009 for M252

**PROCEDURE:**

1. Remove power from the analyzer.
2. Remove the power plug from the old O<sub>3</sub> generator.
3. On the M200/251/252 remove the 4 screws which hold the O<sub>3</sub> gen. in the chassis. These screws are located on the bottom of the chassis.
4. On the M200A loosen the 4 captive screws which hold the O<sub>3</sub> gen. in the chassis. These are accessible by removing the analyzer cover and looking down at the O<sub>3</sub> generator from the top of the chassis. The screws are large, flat head and located at each corner of the mounting plate.
5. Use the 7/16” wrench to remove the black tube on the Rcell.
6. A. M200/M200A  
Follow the white tube from the O<sub>3</sub> generator to the reducer fitting. Use the 1/2” and 9/16” wrenches to remove the reducer fitting from the 1/4” tygon tube. This will leave the reducer fitting attached to the O<sub>3</sub> gen. tube.
- B. M251/M252  
Follow the white tube from the O<sub>3</sub> generator to the rear panel. Use the 7/16” wrench to remove the tube from the rear panel bulkhead.
7. Lift the O<sub>3</sub> generator out of the chassis.
8. Install the brick O<sub>3</sub> generator by placing the unit into the chassis and installing the screws from the bottom (M200/251/252) or tightening the captive screws (M200A).

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9.     A.     **M200/M200A**  
          Connect the 1/4" union fitting (included with the O<sub>3</sub> gen. as part of KIT) to the 1/4" tygon tubing in the chassis. Connect the 1/4" tube from the brick to the 1/4" union.
- B.     **M251/M252**  
          Connect the 1/4-1/8" reducer fitting (included in the KIT) to the 1/4" tube on the new O<sub>3</sub> generator. Connect the 1/8" Teflon tube (included in the KIT) to the 1/8" end of the reducer and to the "dry air" bulkhead fitting on the rear of the analyzer.
10.    **Connect the 1/8" tube from the brick to the Rcell.**
11.    **Connect the "pigtail" connector (included in the kit) to the PC board on the O<sub>3</sub> generator, (the "pigtail" connector is unique for each analyzer type and allows the existing analyzer power connector to plug into the PC card on the brick O<sub>3</sub> generator).**
12.    **Connect the other end of the "pigtail" connector to the 3 pin power plug in the chassis (the plug that used to go into the O<sub>3</sub> generator).**
13.    **Apply power to the analyzer and test.**