



06-009A

19 December 2006

**Installation of NO Remover KIT's P/N KIT000243 & KIT000244
Into 108A & E analyzers**

I. PURPOSE:

This service note describes the installation instructions for the Teflon coated ozone towers into TRS analyzers, both A&E machines. The Ozone removes NO gas which acts as an interferent on the TS channel. The analyzer must be operated in TS mode for the NO remover to function correctly.

II. TOOLS:

Philips screwdriver.
Flat head screwdriver.
Two 7/16" wrenches.

III. PARTS:

KIT000243 - KIT, O3 GEN ASSY, TEFLON, M108A
KIT000244 - KIT, O3 GEN ASSY, TEFLON, M108E

IV. PROCEDURE:

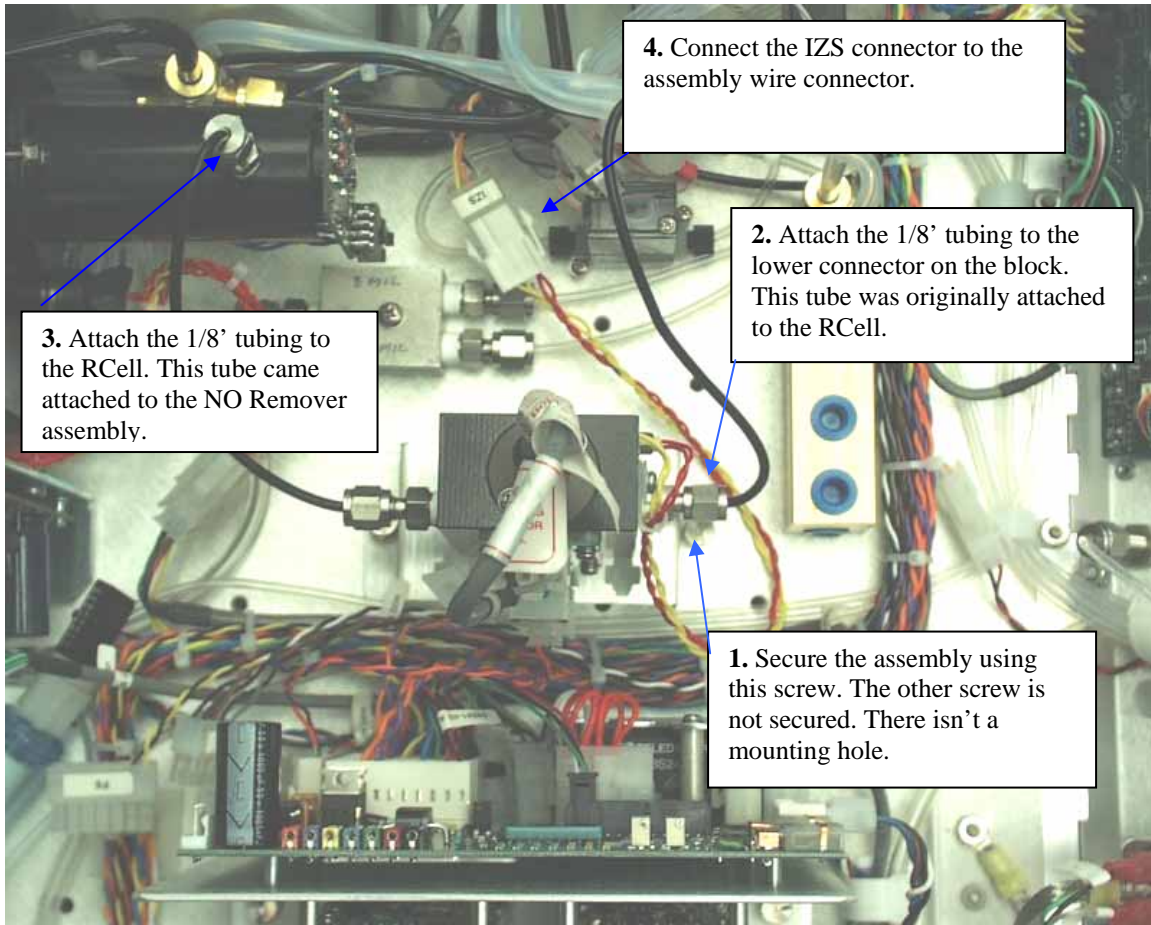
The installation steps are outlined in the attached photographs.

Important:

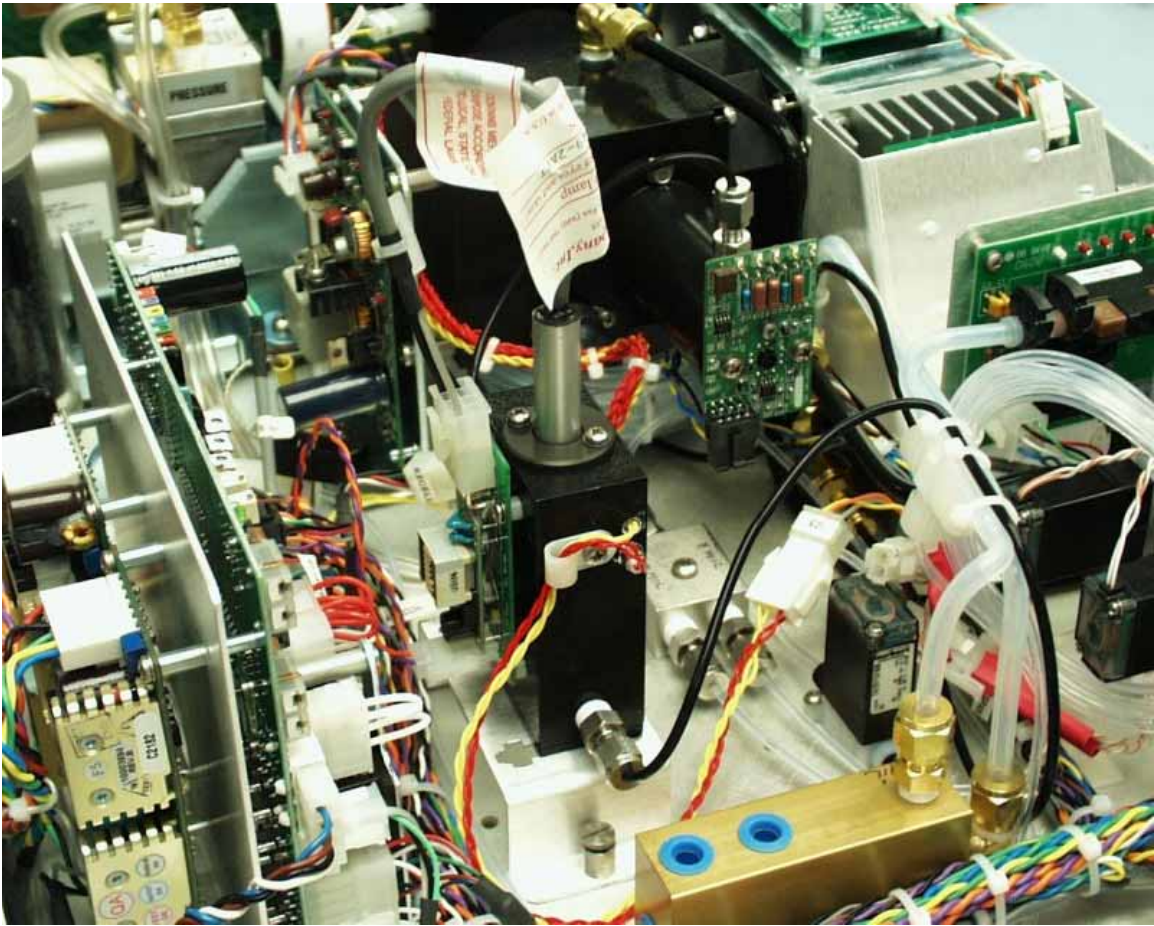
The following installation instructions will be broken into two sections. Section 1.0 outlines the installation of the "NO Remover" KIT000244 into 108E analyzers. Section 2.0 outlines the installation of the "NO Remover" KIT000243 into 108A analyzers.

- Power must be turned off during the installation of both KIT's.
- It is important to conduct a leak check before placing the analyzers into service.
- Following successful installation of the KIT's the user must conduct a ZERO and SPAN.
- The analyzer exhaust must be properly vented. Ozone is present while the "NO REMOVER" is powered. Ozone is a hazardous gas and shouldn't be inhaled.

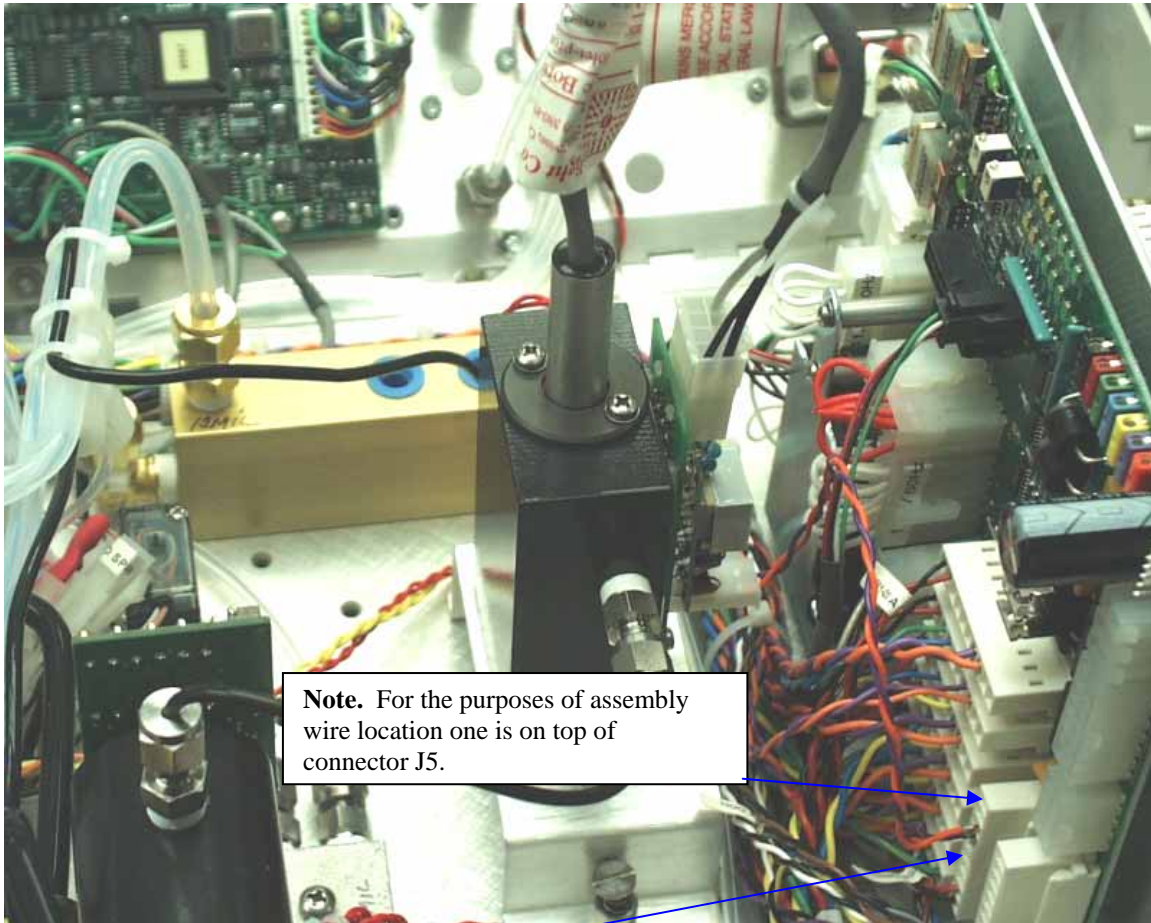
SECTION 1.0 KIT000244 (108E) INSTALLATION



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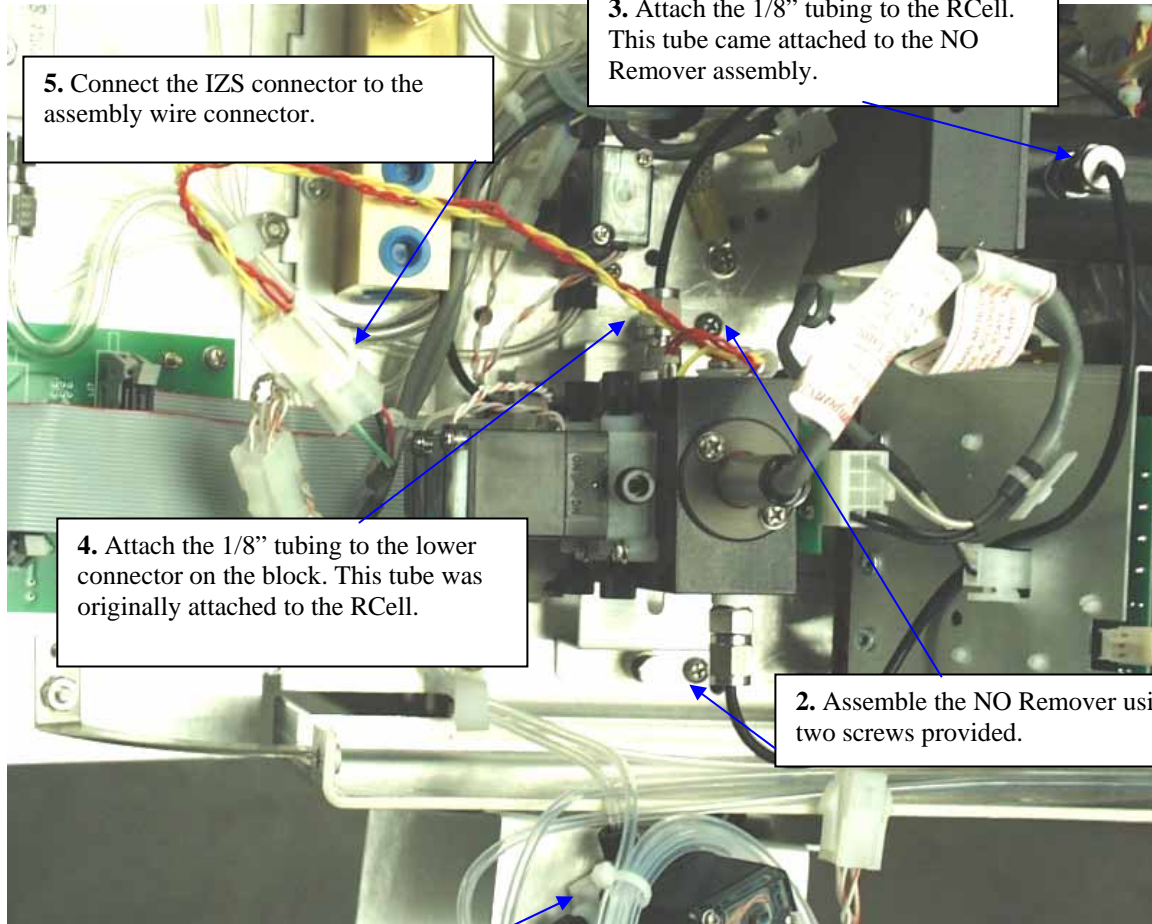


Note. For the purposes of assembly wire location one is on top of connector J5.

5. Disconnect connector J5. Insert the Orange & Purple wires coming from the NO Remover assembly.
 - The Orange wire inserts to the third location from the top down.
 - The Purple wire inserts to the fourth location from the top down.This provides 12 Volts power to the UV lamp.

6. Following the assembly of the NO Remover switch on the analyzer and conduct a leak test.
7. Enter the VARS menu and switch on the IZS (VAR 84) by setting Factory_OPT =14 BITS.
Set the IZS control & low alarm temperature (VAR 4) to 45 and 35 degrees Celsius respectively.
8. Allow the analyzer two hours to stabilize before conducting a ZERO and SPAN.

SECTION 2.0 KIT000243 (108A) INSTALLATION



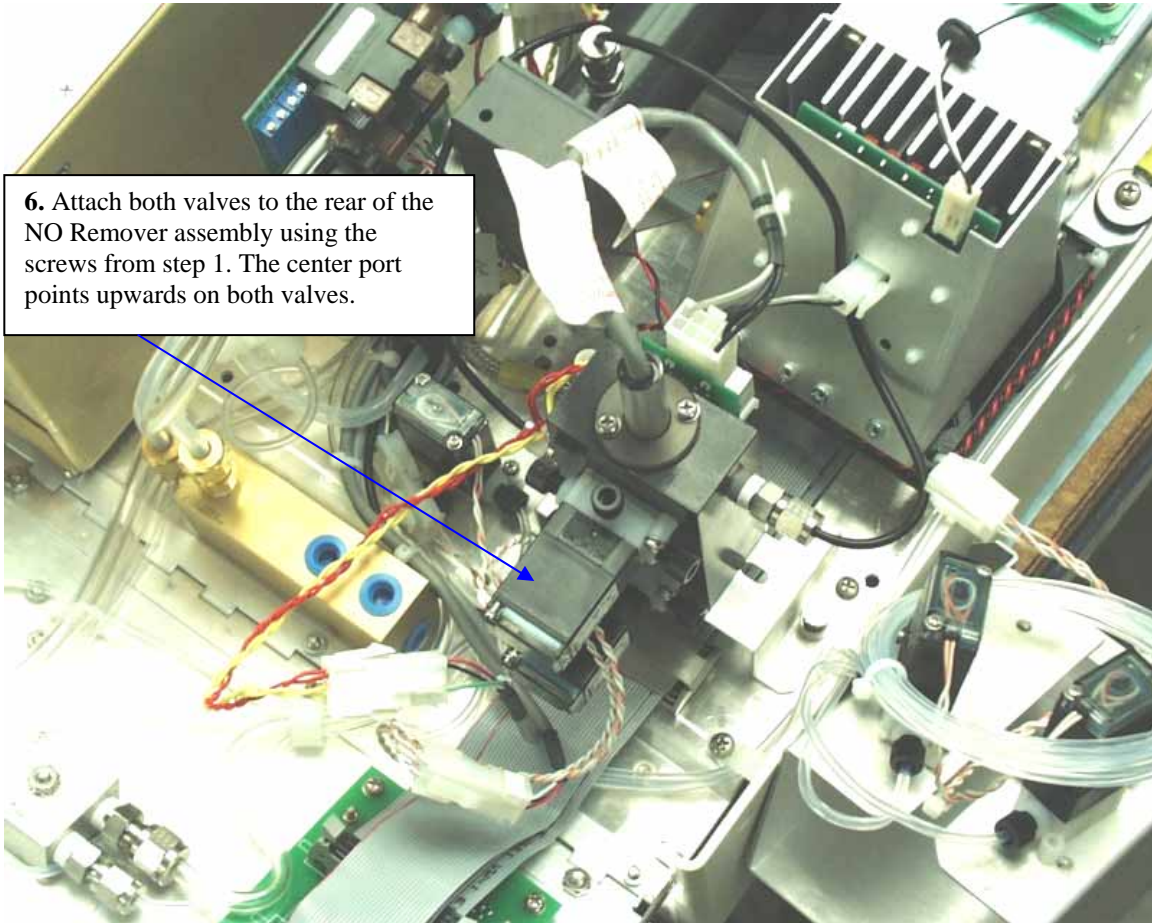
5. Connect the IZS connector to the assembly wire connector.

3. Attach the 1/8" tubing to the RCell. This tube came attached to the NO Remover assembly.

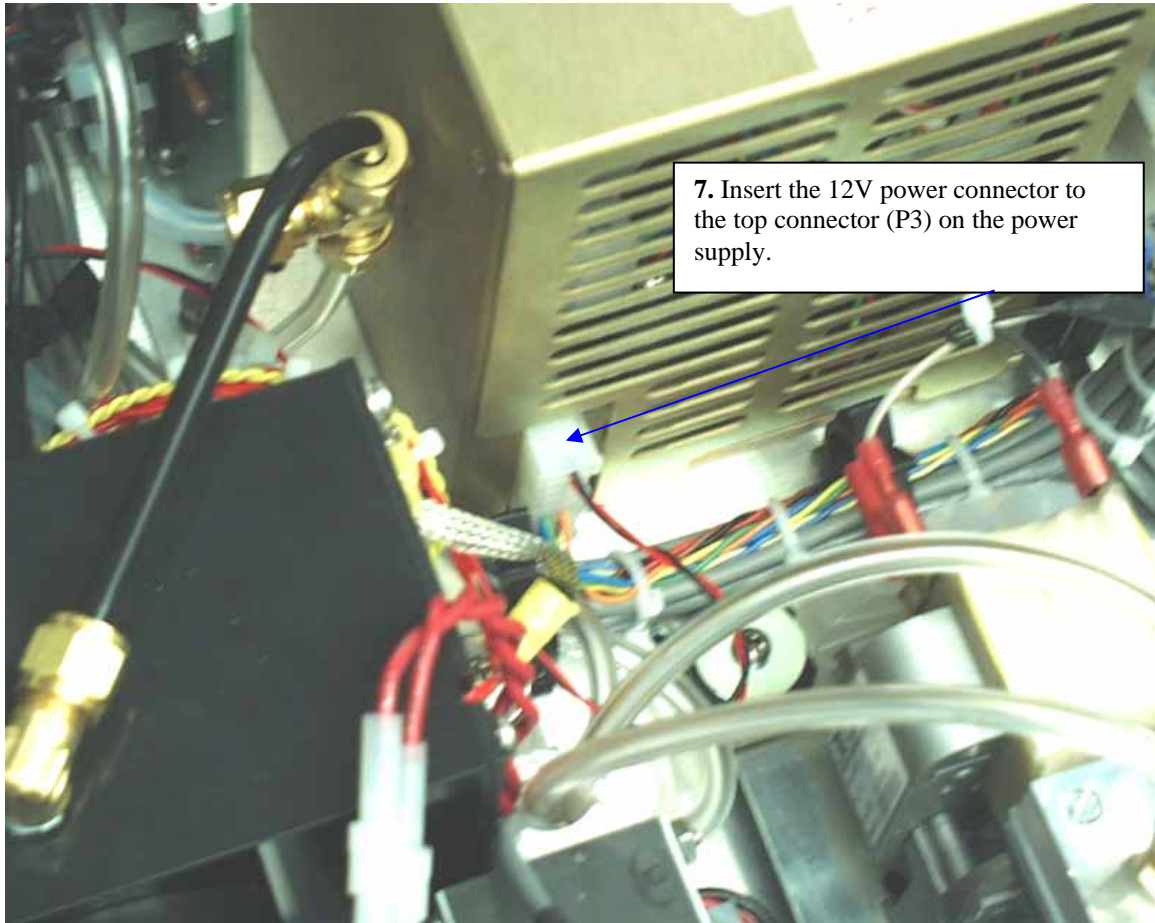
4. Attach the 1/8" tubing to the lower connector on the block. This tube was originally attached to the RCell.

2. Assemble the NO Remover using the two screws provided.

1. Remove the IZS container with the Z/S valves attached. Unscrew both the Z/S Valves. The screws will be used in a later step.



6. Attach both valves to the rear of the NO Remover assembly using the screws from step 1. The center port points upwards on both valves.



7. Insert the 12V power connector to the top connector (P3) on the power supply.

8. Following the assembly of the NO Remover switch on the analyzer and conduct a leak test.
9. Enter the VARS menu and switch on the IZS: Setup-More-DIAG-Factory Options-IZS (ON).
Set the IZS control & low alarm temperature (VAR 5) to 45 and 35 degrees Celsius respectively.
10. Allow the analyzer two hours to stabilize before conducting a ZERO and SPAN.