



**97-012 Rev B
2 May, 2007**

INSTRUCTIONS FOR INSTALLATION OF M400 IZS RETROFIT FOR NON-CE MACHINES

SCOPE: To install the IZS option in a Model 400 analyzer.

TOOLS: 1. Philips-head screwdriver
2. Pair of adjustable wrenches

PROCEDURE:

1. Remove and discard the critical orifice flow control module attached to the pump inlet fitting and the 1/4" tygon tubing connecting the orifice to the flow sensor on the rear panel.(Figure 1, step 1, attached).
2. Physically mount the IZS O3 generator tower assembly in the chassis at the location shown in Figure 2, step 2.
3. Physically mount the IZS charcoal zero scrubber with its associated bracket on the rear panel as shown in Figure 2, step 3.
4. Physically mount the sample/cal gas valve with its associated bracket on the rear panel as shown in Figure 2, step 4.
5. Make pneumatic connections as shown in Figure 2. **NOTE:** All the tubing upstream of the optical bench is 1/8" teflon and all the tubing downstream of the optical bench is 1/4" tygon.
6. Make electrical connection as follows:
 - Connect the sample/cal gas valve to existing cable harness (green /yellow wires) labeled as "SAM".
 - Connect the red heater wires from the IZS ozone generator tower to the existing gray shielded power cable labeled "IZS".
 - Connect the yellow thermistor wires from the IZS ozone generator to the existing yellow wires harness labeled "IZS".
 - If your option has IZS feedback, plug the cable coming from the IZS tower feedback detector into the Motherboard at J5.
7. Turn on the analyzer and set up the IZS for operation by performing the following :
 - If your analyzer has the standard software, enable IZS by pressing SETUP-IZSC-password(929)-MODE- IZSR (or if you do not have the feedback, SETUP-IZSC-password(929)-MODE-IZS) at the front panel.
 - If you have the feedback, make sure you activate the feedback. (SETUP-MISC- O3-GEN-FDBK-ON)
 - If the analyzer has AMX software, enable IZS by pressing SETUP-MORE-VARS-929 password-NEXT... (or JUMP 44) - until you reach FACTORY_OPT variable.

Page 2
Service Note 97-012
January 30, 1997

Each bit in this variable selects a different option, as shown below. To select multiple options, add the bits together. If the analyzer has the IZS option without the feedback, set FACTORY_OPT to 2, if the feedback is installed, set FACTORY_OPT to 6.

FACTORY_OPT Variable Settings	
Decimal Value	Feature Description
1	Enables dilution factor (setup variable DIL_FACTOR)
2	Ozone generator installed
4	Ozone generator reference detector installed

- Adjust the ozone generator lamp as described in the User Manual.
- Calibrate the ozone generator as described in the User Manual.

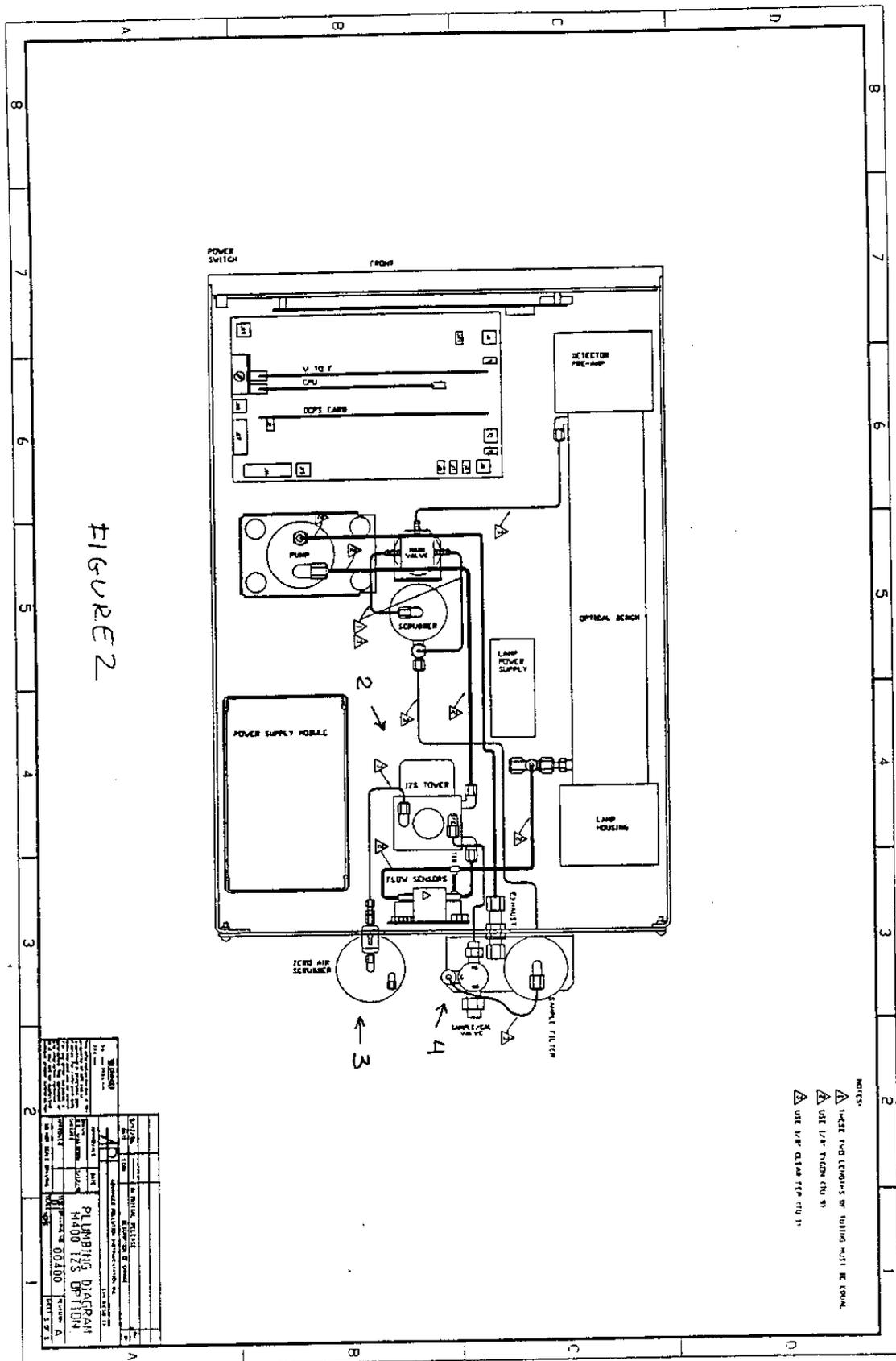


FIGURE 2

SYSTEM: PLUMBING DIAGRAM PROJECT: N400 IZS DRAWING NO: 002400	
DATE: 11/11/00 DRAWN BY: A	CHECKED BY: A
REVISIONS:	
NO. 1 DATE: 11/11/00 BY: A	DESCRIPTION:

- NOTES
- ▲ Indicate two locations or routing with the symbol
 - ▲ Indicate three locations or routing with the symbol
 - ▲ Indicate four locations or routing with the symbol

