



**97-011 Rev B  
2 May, 2007**

## **IZS REFERENCE FEEDBACK RETROFIT FOR NON-CE MARK ANALYZERS**

**SCOPE:** This procedure provides instructions on retrofitting IZS feedback into M400 analyzers with IZS.

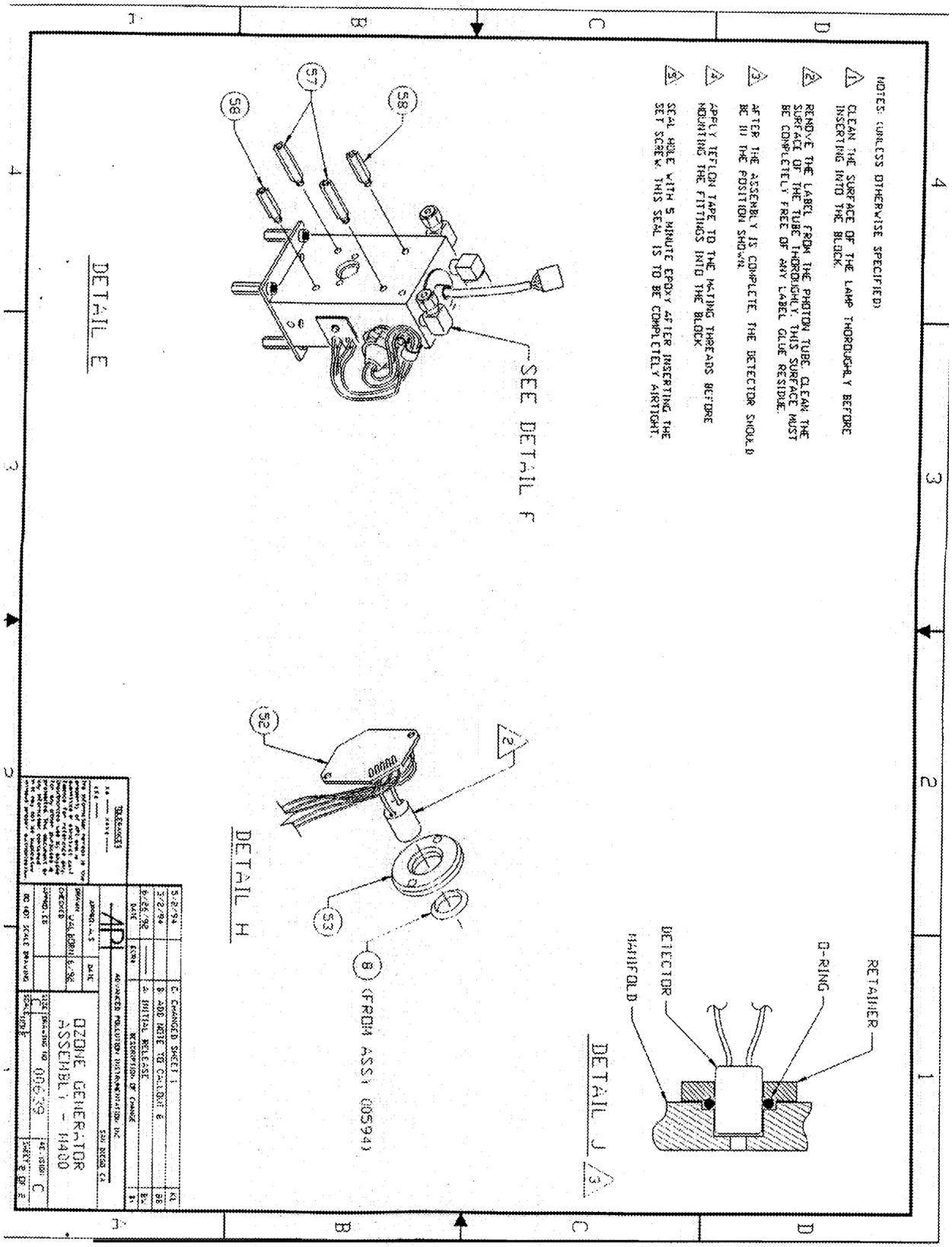
**TOOLS:** Philips head screwdriver.

**PARTS:** API P/N 006390000 Assy, Reference Adjusting Option

### **PROCEDURE:**

- 1. Remove power from analyzer and remove top cover.**
- 2. Locate the IZS tower. It is found near the rear panel of the analyzer. (See drawing #00400 for reference).**
- 3. Remove the round plate from the front face of the tower.**
- 4. Install the aperture that came with the kit into the hole (see the drawing #00639, page 2 of 2, step 4 for reference). Make sure the aperture is inserted fully into the hole.**
- 5. Install the standoffs that came with the kit onto the tower (see drawing #00639, page 2 of 2, DETAH, E). NOTE: The standoffs come in different sizes. Use the attached copy of the Bill of Material for reference.**
- 6. Install the reference feedback detector onto the tower (see drawing #00639, page 1 of 2, DETAEL B for reference).**
- 7. Connect the cable to the motherboard J5.**
- 8. Install the cover over the detector (see drawing #00639, page I of 2, DETAH, A for reference).**
- 9. Apply power to the analyzer.**
- 10. Press SETUP-IZSC and enter 650 for the password. Press ENTR.**
- 11. Press MODE-IZSR-ENTR. Press EXIT 3 times.**
- 12. Press SETUP-MISC-03-GEN-FDBK-OF'F. This will turn the feedback on.**
- 13. Press EXIT-ADJ and allow the unit stabilize for 30 minutes.**
- 14. Adjust the lamp by physically turning it and the potentiometer on the detector card until the IZSREF on the front panel reads  $2500 \pm 100$  mV.**
- 15. Put the cover back on the analyzer.**
- 16. Press EXIT-CAL. This will cause the analyzer the analyzer to perform the IZS calibration, which will take about an hour.**

**If you have any difficulties or questions regarding this procedure, please contact API Customer Service.**



- NOTES: UNLESS OTHERWISE SPECIFIED:
- ▲ CLEAN THE SURFACE OF THE LAMP THOROUGHLY BEFORE INSERTING INTO THE BLOCK.
  - ▲ REMOVE THE LABEL FROM THE PHOTON TUBE. CLEAN THE SURFACE OF THE TUBE THOROUGHLY. THIS SURFACE MUST BE COMPLETELY FREE OF ANY LABEL GLUE RESIDUE.
  - ▲ AFTER THE ASSEMBLY IS COMPLETE, THE DETECTOR SHOULD BE IN THE POSITION SHOWN.
  - ▲ APPLY TEFLON TAPE TO THE MATING THREADS BEFORE MOUNTING THE FITTINGS INTO THE BLOCK.
  - ▲ SEAL GREE WITH 5 MINUTE EPOXY AFTER INSERTING THE SET SCREW. THIS SEAL IS TO BE COMPLETELY AIRTIGHT.

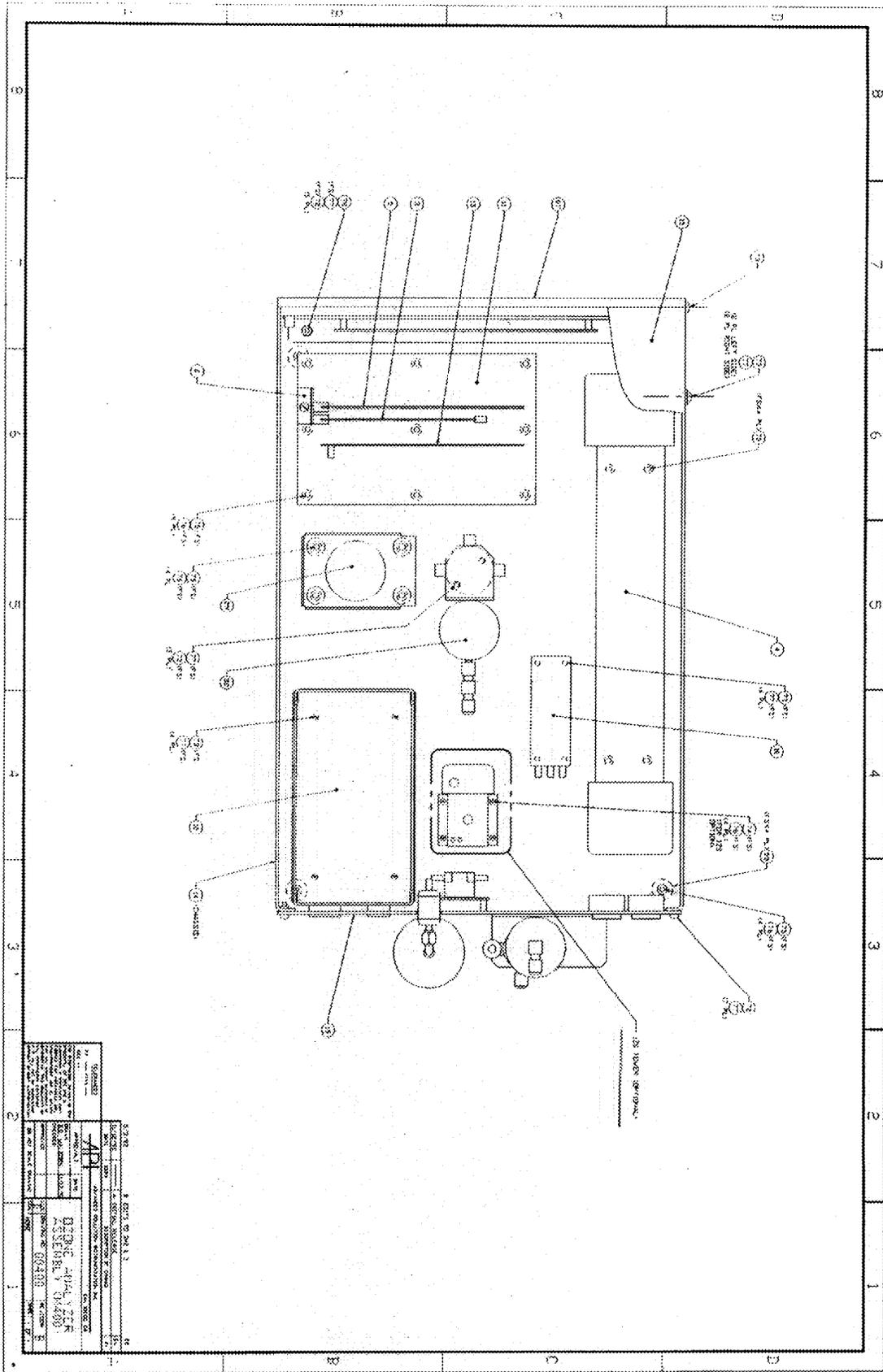
DETAIL E

SEE DETAIL F

DETAIL H

DETAIL J

<p>REVISIONS</p> <p>DATE</p> <p>BY</p> <p>DESCRIPTION OF CHANGE</p>		<p>5.0.0.0</p> <p>2.0.0.0</p> <p>1.0.0.0</p> <p>0.0.0.0</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p>
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ADVANCED POLLUTION INSTRUMENTS

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PDXSB1

SINGLE LEVEL BILL OF MATERIALS  
DATES: ALL

BY COMPONENT ID

ASSEMBLY ID COMPONENT ID	DESCRIPTION ITEM START END DWG SIZE ECN	LN	CLASS	TYPE	STATUS	ABC	COMM REQUIRED	PLHR BILL	BUYER OPER	MRP KIT	MPS LTO	YIELD SCRAP
ASM: 006390000	ASSY REFERENCE ADJUSTING OPTION, FD	EA	M	A	A	A	LC	XX	Y	0	0.0	
005250000	0053 M400 DETECTOR RETAINER B	EA	B	A		1.000000	EP	0	0	0.0		REMARK:
005350100	0052 PCA, PREAMP DET 17" CABLE, M700 G A	EA	M	A		1.000000	EP	0	0	0.0		REMARK:
005600000	0054 M400 GENERATOR APERATURE B	EA	B	A		1.000000	EP	0	0	0.0		REMARK:
005920001	0051 DETECTOR COVER, MACHINED C	EA	M	A		1.000000	EP	0	0	0.0		REMARK:
HW0000076	0058 STANDOFF, 1", 6-32, SS	EA	B	A		2.000000	EP	0	0	0.0		REMARK:
HW0000077	0057 STANDOFF, 1.25", SS	EA	B	A		2.000000	EP	0	0	0.0		REMARK:
SN0000005	0055 SCW, PH, PL, SS #6-32X3/8	EA	B	A		6.000000	EP	0	0	0.0		REMARK:
SN0000021	0056 WASHER, STAR, SS #6	EA	B	A		6.000000	EP	0	0	0.0		REMARK:

8 COMPONENTS PRINTED