



**TELEDYNE
INSTRUMENTS**

Advanced Pollution Instrumentation

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Service Note

96-001 Rev B
2 May, 2007

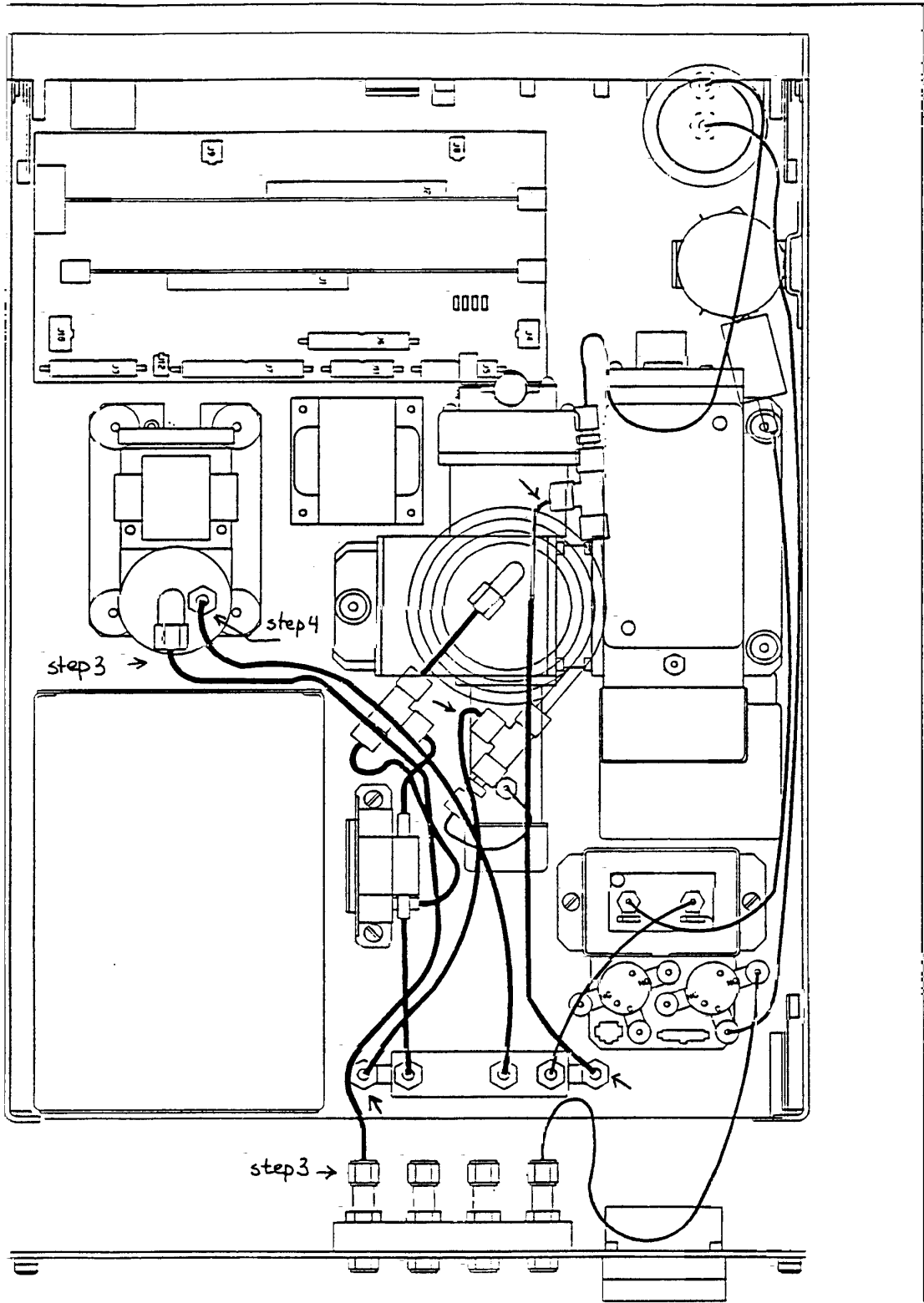
CONVERTING M100A ANALYZER FOR USE WITH THE EXTERNAL PUMP

Subject: Information on how to remove the internal pump from M100A analyzer and install the external one.

Tools: A pair of adjustable wrenches, wire cutters, Philips head screwdriver.

Procedure:

1. Turn the power off.
2. Take the cover off.
3. Loosen the fittings and remove the tubing between the exhaust of the sample pump and the "EXHAUST" bulkhead fitting on the rear panel of the analyzer (see the drawing 01100 attached, step 3).
4. Loosen and remove the fitting from the intake of the pump (see the drawing 01100 attached, step 4).
5. Remove the tie-wraps from the tubing which was removed from the intake of the sample pump.
6. Connect the tubing to the "EXHAUST" bulkhead fitting on the rear panel.
7. Remove the sample pump from the analyzer.
8. Leak check the analyzer.
9. Connect the tubing from the intake of the external pump to the exhaust outlet on the rear panel of the analyzer.
10. Turn the power on. Energize the pump.
11. Check for the sample flow on the front panel to be 650 ± 65 cc/min.
12. Put the cover back on.



ADVANCED POLLUTION INSTRUMENTATION INC. SAN DIEGO, CA.			
APPROVALS		DATE	M100A PNUMATIC DIAGRAM W/ IZS
DRAWN			
CHECKED			
11/18/94	3- CHANGED KICKER PLUMBING	KL	APPROVED
9/20/94	A- INITIAL RELEASE	KL	APPROVED
DATE	ECR#	DESCRIPTION OF CHANGE	BY
DO NOT SCALE DRAWING			SIZE DRAWING NO. REVISION B 01100 B
			SCALE SHEET 2 OF 3