

Service Note

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M101AS PROM BUG

SCOPE: To correct Prom Bug in M101AS

TOOLS: #2 Phillips Screwdriver

Wide Flat blade Screwdriver

BACKGROUND:

The M101AS is designed to allow the user to display continuous H_2S , continuous SO_2 , or switching H_2S and SO_2 based on user parameters. The H_2S and SO_2 calibrations maintain separate slopes and offsets. API has discovered that is some software revisions, specifically A.6 and possibly earlier revisions, the analyzer will display the SO_2 "STRAY LIGHT" value when in H_2S mode. This does not affect the operation or data capture abilities of the analyzer. As the correct value for stray light is used internally, it is simply a display problem.

If you have A.6 software or older and believe you may be experiencing this problem, contact API and we will tell you how to test for it.

PROCEDURE:

- 1. Remove power from the analyzer.
- 2. Remove the analyzer cover.
- 3. Locate the V/F and CPU card assembly. The cards are standing up in the motherboard and on the right they connect to a common backplane.
- 4. Rotate the plastic bar across the V/F and CPU until it is not blocking access to the cards.
- 5. Use the flat blade screwdriver to loosen the captive screw which bolts the backplane into the motherboard.
- 6. Gently pull up on the V/F and CPU assembly until it is out of the motherboard connector.
- 7. Rotate the V/F and CPU assembly toward you until you can access the CPU.
- 8. On the CPU you will see a 28 pin I.C. with a label which shows the rev of software currently installed. Pry this chip out of the socket with the flat blade screwdriver, paying attention to which direction pin 1 is facing (away from the backplane).
- 9. Insert the new software I.C. into the CPU socket, being careful not to bend any pins. Ensure that pin 1 of the I.C. is pointing away from the backplane connector.
- 10. Assembly in the reverse order of disassembly.
- 11. Apply power to the analyzer and allow 1 hour for warm up then re-calibrate.