



10-010
15 July 2010

CPU REPLACEMENT

I. PURPOSE:

To give instructions on how to install an ICOP CPU in to an instrument that has an existing ACROSSER CPU.

II. TOOLS:

Phillips Screwdriver

III. PARTS:

KIT000316 KIT, RETROFIT STD CONFIG, ICOP CPU



The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD). When working on any T-API device, please ensure that you are properly grounded prior to handling or touching any electronic circuitry in the analyzers! For more information on how to protect sensitive components from ESD during handling, please contact T-API customer service and ask for the ESD Service note number 03-022A.

IV. INSTALLATION PROCEDURE

1. Prior to turning OFF the instrument and removing the CPU you will need to record your FACTORY OPTION bit located in the VARS menu using the 929 Password.
2. Turn the instrument off and unplug the power cord.

3. Remove the cover of the instrument.
4. On the rear panel remove all of the connectors attached to the motherboard and CPU. Remove the cable attached to J12 of the motherboard and CN3, 4 and 5 of the CPU from the instrument. This cable will not be used.
5. Remove the 4 screws on the motherboard and the 4 screws on the CPU board and remove the CPU and motherboard from the instrument
6. Separate the CPU from the motherboard and set aside. The CPU will not be used.
7. Remove the new CPU from the KIT and attach the CPU to the main board
8. Ensure that the CPU is seated properly.
9. Remove the cable labeled 062490000 from the KIT .
10. Attach the P12 connector to the motherboard at J12.
11. Attach the COM1 connector to the ICOP CPU at the COM1/RS232 location as shown in FIGURE 1.
12. Attach the COM2 connector to the ICOP CPU at COM2/RS232 location as shown in FIGURE 1.
13. The RS485 Connector is not used.
14. Install and tighten the screws that were removed in step 4.
15. Reconnect all of the electrical connectors removed in step 3 except for the Cable assembly attached to J12 and CN3, 4 and 5.

FIGURE 1



16. Once all of the connections have been made, close the rear panel and tighten the two screws (one on each side).

17. The analyzer is now setup with the new ICOP CPU.
18. As this is a new CPU you will need to redo all of your calibrations (flow, pressure, analog output and Zero/Span).

If there are any questions regarding this service note please contact a Teledyne API Customer Service Representative at api-customerservice@teledyne.com or (858)657-9800.