

4 April 2017

Vermont Forensic Laboratory
Attn: Amanda Bolduc
45 State Dr
Waterbury VT 05671

Re: *DMT Updates*

Dear Ms. Bolduc:

Intoximeters is writing to advise Vermont Forensic Laboratory of updates to the Intoximeters DMT line of instruments, including the *DataMaster DMT*, and the *Intox DMT*. These updates are necessary because of obsolescence of certain sub-assemblies on the instrument. Below is an itemization of the changes.

1. Single-board computer – Hardware
 - 1.1. This embedded computer board (Green Color) was upgraded due to obsolescence of some components on the previous generation single-board computer. (See *figure 1*)
 - 1.2. The new board (Red Color) is from the same manufacturer and same family of microprocessors as the previous version board. It functions in the same way but requires some different drivers for peripheral hardware. (See *figure 2*)
 - 1.3. The Input/output interface from the new single-board computer to the analytical portion of the DMT system remains the same.
 - 1.4. Additional provisions for ESD protection were added to the serial connector board to the single-board computer. (See *figure 3*)
2. Single-board computer—Software
 - 2.1. Software written for the New (Red) version single-board computer *is* backward compatible to the original (Green) boards, but software written for the original (Green single-board computer *is not* upward compatible to the red board.
 - 2.2. Software for the DMT, has been updated for compatibility, and tested to verify identical functionality for analytical processes and operator-facing functions.
3. Display—Hardware
 - 3.1. The original display had a backlight which was a CCFL (Cold Cathode Fluorescent Lamp). This display and backlight have become obsolete. (See *figure 4*)
 - 3.2. The new display uses an LED backlight but its functions and interfaces to the DMT remain the same. (See *figure 5*)
4. Analytical Hardware and firmware
 - 4.1. Analytical Hardware - None of the changes listed effect the Analytical Hardware of the *DMT instrument*.

- 4.2. Analytical Firmware – None of the changes listed above require any changes to the analytical firmware other than the necessary changes in code to make the updated SI hardware compatible with the analytical system data output.

Please contact us if you have any questions or require any further information.

Regards,



Dan Dunsworth, Technical Support Manager

Attachments

Intoximeters

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Images for reference:

Figure 1. Legacy single-board computer

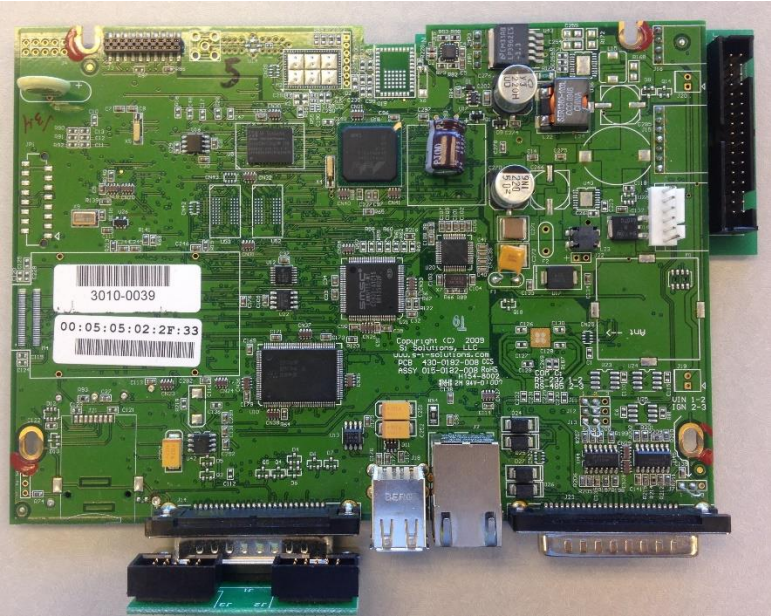


Figure 2. New single-board computer

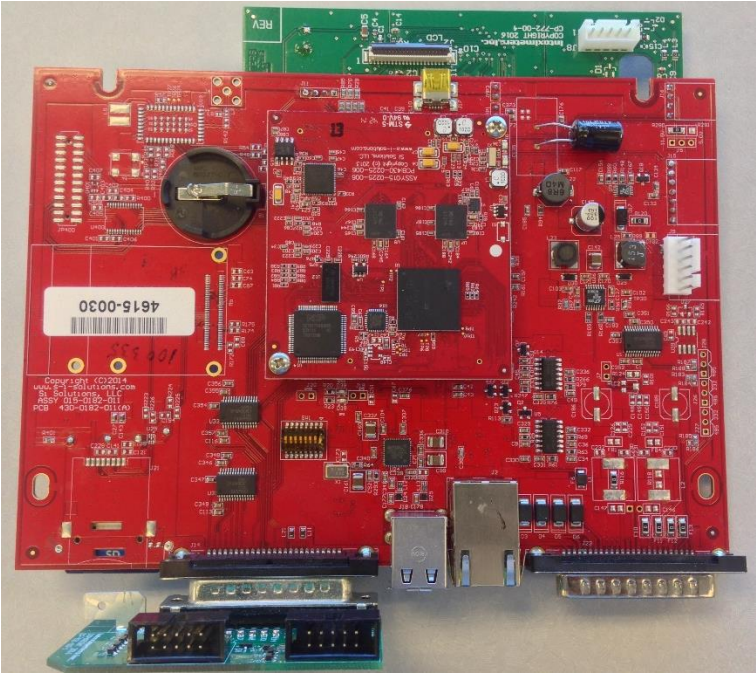


Figure 3. Serial connector board

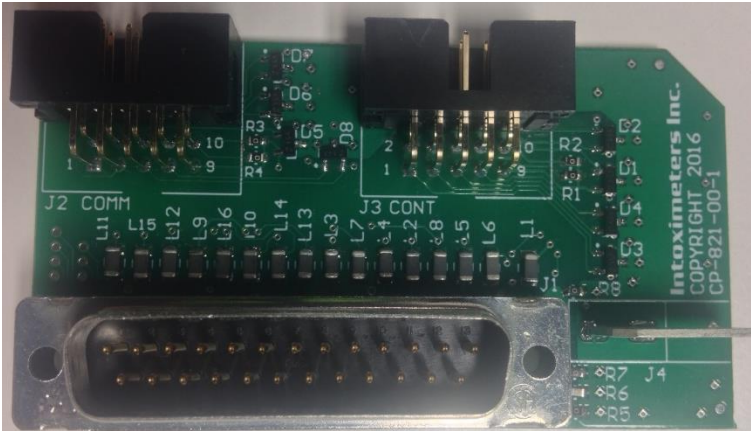


Figure 4. Legacy display (front and back)

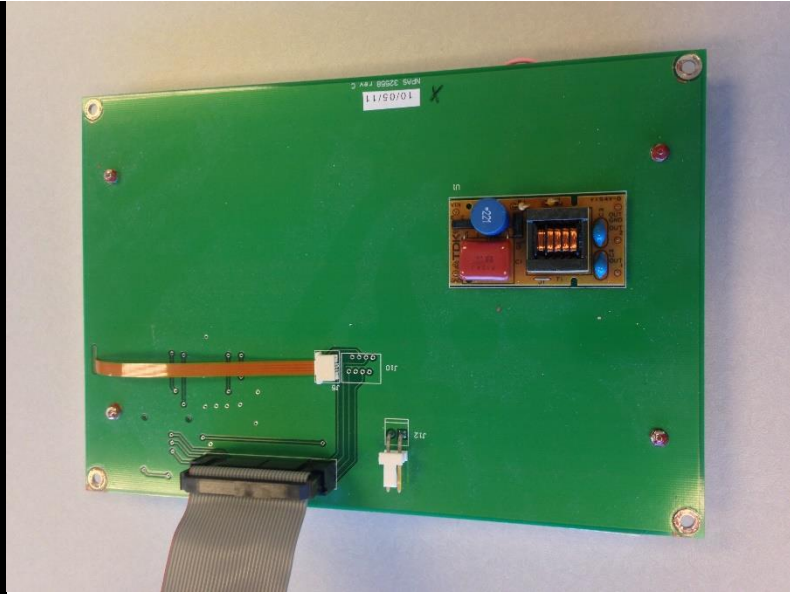
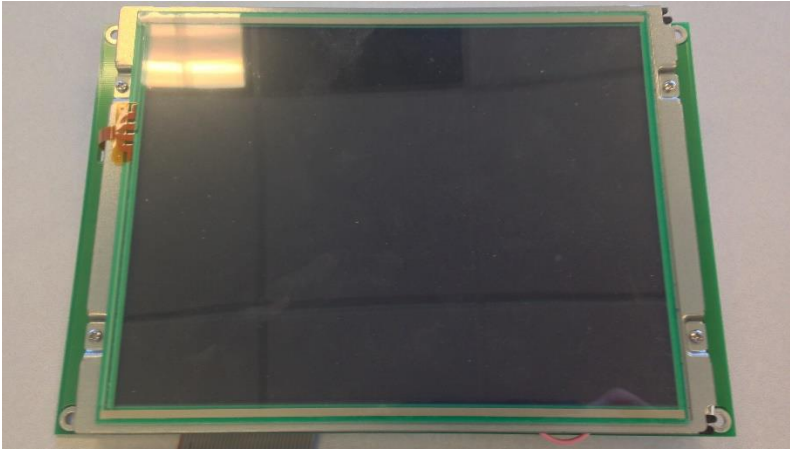


Figure 5. New display

