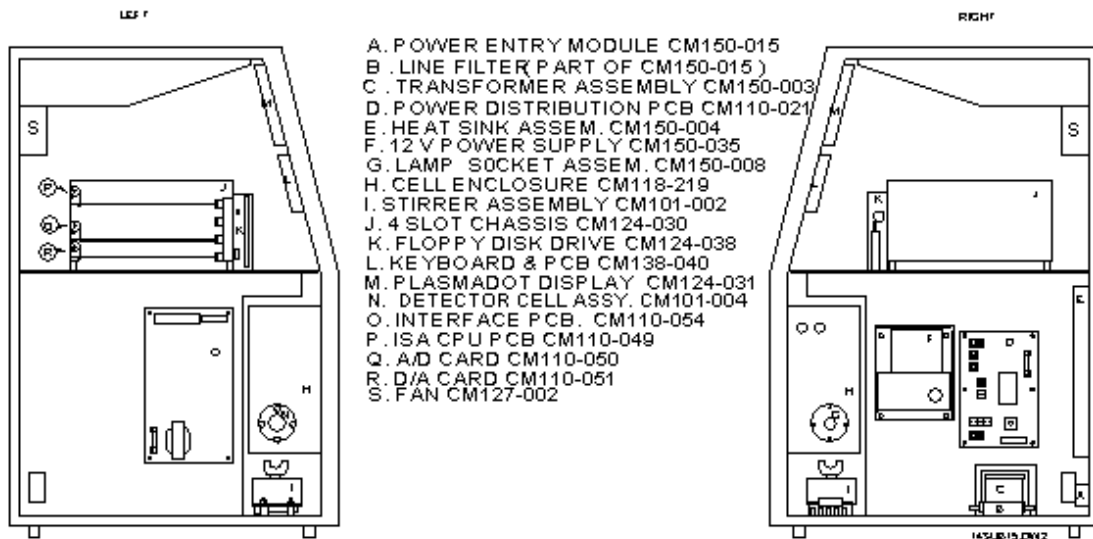


Technical Bulletin #41

To: Coulometrics Support Personnel
From: Engineering Dept.
Date: 09-17-02
Subject: Changing CM124-031 Plasmadot Display in CM5014/CM5014S Coulometers

1. Turn instrument off and disconnect the power cord from the instrument. **Caution Shock Hazard!! The Display Develops 185 Volts when on. DO NOT HANDLE THE DISPLAY WITH THE POWER ON!**
2. Remove the left side panel from the instrument by removing the 6 Phillips screws holding the left panel on. Remove the Right side panel by removing the 6 Phillips screws. Note the green side cover ground wire can be removed by unplugging the connectors.
3. Locate the back of the display panel. It is in the top front of the instrument. It is Item M on The CM5014 Subassemblies attached.

Figure 3.3
CM5014 SUBASSEMBLIES



4. Locate the power and data connectors on the display lower left hand corner. The data cable is a gray round cable with a 9 pin male connector with thumbscrews. The Power cable is a white 4 pin housing with only a red and black wire.
5. Remove the Data cable from the display by loosening the thumbscrews and unplugging the DB9 male connector from the Display panel.
6. Unplug the 12VDC power connector located next to the data cable from the display by gently rocking the connector from the display socket.

7. Locate the four hex nuts holding the display panel in the instrument. Using a 5/16 socket, loosen all four Hex nut holding the display. Note a nylon washer is used between the display and each of the nuts to insulate the display from the nut.
8. Remove the four Hex Nuts and the four nylon washers holding the display in place. Remove the display from the instrument by holding it by the edges taking care not to touch the electronics as much as possible.
9. Note the four nylon spacers used to hold the display the proper distance from the panel. Take care not to lose them.
10. Install the new display by carefully removing it from the anti-static bag.
11. Install the new display by reversing the above steps. Make sure to not handle the display and to fasten down and tighten all nuts and thumbscrews.

RIGHT SIDE VIEW DISPLAY PANEL CM5014/CM5014S

