

MPLAB PM3 ECO-2888 Update Procedure

The MPLAB PM3 requires ECO-2888 in order to have full ICSP target power support. The enclosed ECO, ECO2888a.mjc, will allow you to ECO the MPLAB PM3 after the proper hardware modification is made.

To determine if you need to perform this ECO:

1. Hold down the **ESC** and **ENTER** key and turn “On” the MPLAB PM3 Device Programmer.
2. Locate the ICSP Supervisor Version. If the version ends in .8X your MPLAB PM3 is already up to date. For instance 00.02.81 has ECO 2888 already performed. Version 00.02.00 does NOT.

Note: If you feel uncomfortable performing the ECO please contact your local FAE to SAR your unit.

Equipment Required:

Phillips screwdriver
Soldering Iron
Tweezers
MPLAB 6.51 or greater

Hardware Update Procedure:

1. Pry six rubber feet from bottom cover of the MPLAB PM3 Programmer.
2. Remove the eight Phillips screws.
3. Disconnect LCD ribbon cable by sliding the black connector latch forward (see Figure 1 for details). Gently slide the flex cable out of the connector.

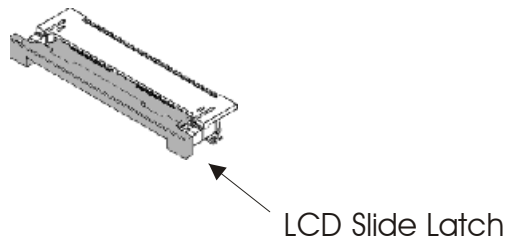


Figure 1: LCD Flex Cable Connector Diagram

4. Disconnect LCD backlight cable (red and black wires).
5. Locate PCB shown in Figure 2 marked ASSEMBLY NO: 02-01655
6. Remove component PTC1 from the PCB (refer to Figure 2 for details).
7. Connect the LCD backlight cable back to the programmer. The red wire goes towards the inside of the programmer. Note the red wire is above the (+) symbol on the silk screen.
8. Ensure the LCD Flex Cable Connector is still in the open position (latch forward). Carefully slide the LCD flex cable in all the way. Slide the latch backwards to lock this connection.
9. Plug in the programmer and power on. Ensure that the display splash screen comes up and the backlight is light. If not turn off immediately and ensure steps 7 thru 8 were done properly.
10. Place the screws back into the programmer noting the three longer screws go towards the back of the unit.

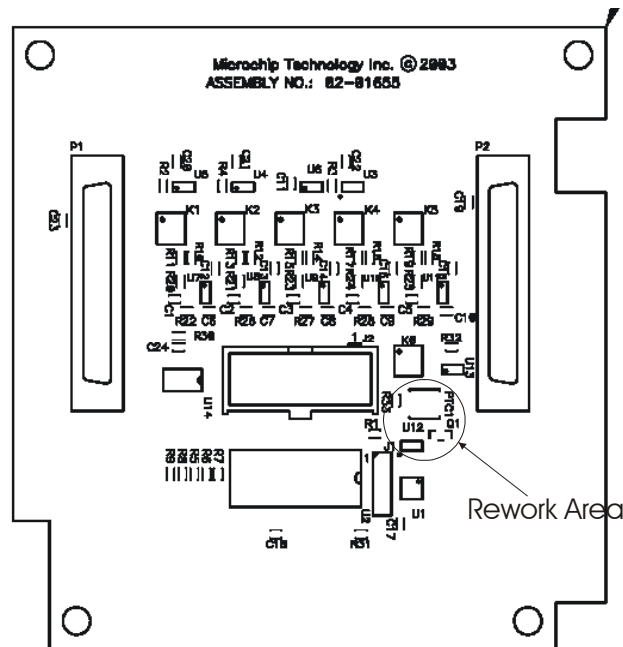


Figure 2: PCB Rework Drawing.

Warning: Before performing the Software Update Procedure all hardware modifications must be completed!

Software Update Procedure:

1. Connect the MPLAB PM3 programmer to the PC through either the USB or serial port. If connecting to MPLAB PM3 via the serial port, ensure FIFO's are turned

off. Please refer to the MLAB IDE online help for additional information on disabling system FIFO's.

2. Turn on the MPLAB PM3 programmer.
3. On the PC start MPLAB IDE 6.51 or later.
4. Select *Programmer>Select Programmer>MPLAB PM3* to select MPLAB PM3 from the list of available programmers.
5. From the MPLAB Programmer menu, select *Programmer>Settings* and click on the **Communications** tab. Ensure the proper Communications Port is selected.
6. Next click on the **Configuration** tab.
7. From the **Configuration** tab Select *Manual Download*, from the **Auto Upgrade Notification** dialog box Select *Yes*.
8. Navigate to the *ECO2888* directory.
9. Change the **File name:** box from *pm3*.mjc* to **.mjc*.
10. Open file *ECO2888a.mjc*.
11. Allow this to download thoroughly and MPLAB PM3 to reset.
12. Click **Cancel** to close the **Programmer** dialog box.
13. Select *Programmer>Enable Programmer* to enable the MPLAB PM3 programmer.
14. Select *Yes* to the **Upgrade Available** dialog box.
15. Wait for the “*Download Complete*” message to appear in the **Output** dialog box..

<p>Note: The MPLAB PM3 programmer may reset several times during this process depending on how may updates are required.</p>

16. You have now successfully completed the ECO patch to the MPLAB PM3.