

## **Supplement to:**

*- OmniPulse DDC Instruction Manual (Part No. 144-45043)*

*This supplemental manual should be used when upgrading the OmniPulse DDC drive's software in the field.*

### **Introduction:**

When OmniPulse DDC drives are being upgraded from version 1.xx software to version 3.xx software in the field, the OmniPulse DDC Software Upgrade kit is required. This kit consists of:

- A CD containing the latest version 3.xx control software, as well as the DDC Flasher program (part number 144-45094).
- A flasher cable assembly (part number 144-45095)
- EPROM with OmniPulse DDC Display Software 2.0 (part number 144-45096)

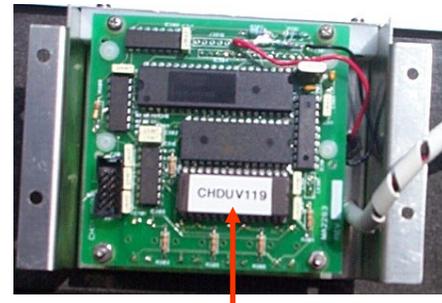
### **Warning:**

Hazardous voltage can cause severe injury or death. Lock all power sources feeding the drive in the 'OFF' position.

### Instructions:

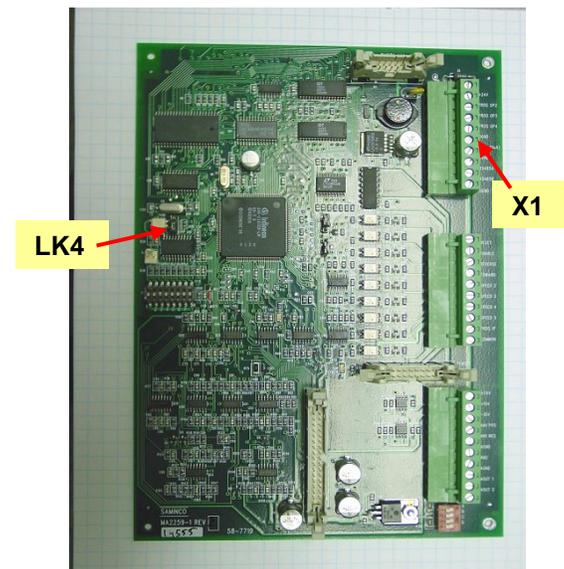
The OmniPulse DDC drive has Display Software and Control Software. The Display Software is loaded into a removable EPROM located in the back of the display unit. The Control Software is loaded into a non-volatile Flash memory. To upgrade the Display and Control software within your OmniPulse DDC drive:

1. Record all OmniPulse DDC drive parameters prior to upgrading the software.
2. Power down the OmniPulse DDC drive. Wait for the drive to discharge (once the charge indicator light is not illuminated).
3. Remove the thumb screws on the front of the OmniPulse DDC drive, and remove the front cover.
4. Remove the four nuts on the Display unit, to access the EPROM on the backside.

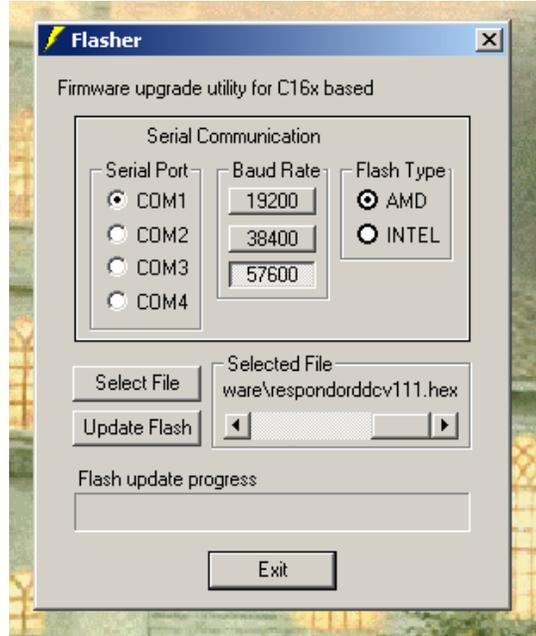


Removable EPROM  
Display Software

5. Change the ERPOM to version 2.0
6. Reattach the Display unit with the four nuts.
7. Insert the CD into your computer, and drag the Flasher program (Flasher.exe) to your desktop.
8. Locate jumper LK4 on the control board, and move jumper to pins 1 and 2.  
(Flash boot load ~ pins 1 & 2;  
Normal Operation ~ pins 2 & 3).
9. Locate terminal X1 on the control board, and remove existing plug-in terminal connection.
10. Connect the supplied flasher cable. Plug-in style connector to X1 on the control board, and the DB-9 connector the serial com port on your computer.
11. Power up the OmniPulse DDC drive.  
Verify that the fans come on, and the Display is powered up.



12. Start the Flasher program, and the following window will be display on your computer screen.



13. Select 'Com 1' for Serial Port, '57600' for Baud Rate, and 'AMD' for Flash type.
14. Press the Select File button, and select the appropriate DDC Hex file to load.
15. Then select Update Flash to begin updating the Control Software. When loading is complete and upload message will be visible.
16. Remove power to the OmniPulse DDC drive, and wait for the drive to discharge (once the charge indicator lamp is no longer illuminated).
17. Move jumper LK4 (located on the control board) back to pins 2 & 3.
18. Remove the DDC Flasher cable. Reconnect the X1 plug-in terminal connector.
19. Apply power to the OmniPulse DDC drive, and verify the control software in the display.
20. Change parameter B00 to '2004' to allow for parameter modifications.
21. Change parameter C07 to 'Restore Factory'.
22. Remove power to the OmniPulse DDC drive, and wait for the drive to discharge (once the charge indicator lamp is no longer illuminated).
23. Change parameter B00 to '2004' to allow for parameter modifications.
24. Change parameter settings based upon the settings recorded prior to updating software.
25. Save updated parameters by programming C07 to '1' (Store User Settings).