Changing Chips in the Latest Version of UniOPs

This is a brief description of how to change the flash chip and the operating system (firmware) chip in the latest version of UniOP panels.

0. Turn off power to the display panel.

1. Turn the panel face down.

2. Remove the four screws from the small housing that contains the PLC port and the printer port.

3. This housing is connected to the circuit board beneath it via a ribbon cable. Carefully lift the housing up and unhook the ribbon cable.

4. Once this housing is removed, there will be a circuit board attached to the panel via two press in connectors.

5. There may be a flash chip located on the side of the circuit board you are currently looking at. If there is, then proceed to step 7. If there is no flash chip present, you will need to remove the circuit board. This can be accomplished by gently lifting the circuit board upward.

6. Once the circuit board is removed, turn it over. There will be two small chips located in 0sockets U7 and U8. *The chip located in socket U8 is the flash chip, while the chip in socket U7 is the operating system (firmware) chip.*

7. With a chip extractor, remove the proper chip(s).

8. Replace the new chip, *paying close attention to the 'notches'*. There will be either a small dot on one end of the chip, or there will be a corner of the chip that appears to be cut away from the other corners (not squared off). Care must be taken to replace the chip correctly. Always replace the chip such that the dots or the 'notches' line up with the dots or the 'notches' on the socket. *Failure to do so will result in the unit not functioning properly.*

9. Once you have the chip replaced, reconnect the circuit board by placing the press-in connectors back into the proper places and reconnecting the ribbon cable.

10. Place the housing back onto the panel and replace the four screws. The chip replacement procedure is now complete.

Technical Assistance May Be Obtained: