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SLC4000TechNote04_ChipReplacementProcedure.docx
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Tech Note 04 SLC4000 Chip Replacement Procedure

Purpose:

Replacement of SLC4000 U1 Microcontroller

1. Observe precautions for static sensitive parts by touching an earth ground, such as the electrical cabinet, before handling the microcontroller or other electronic components.
2. Turn off the AC power to the SLC4000.
3. It may be easier to replace U1 by removing the SLC4000 for better access.
4. Gently pry U1, the 40 pin microcontroller, evenly by using a medium flat-bladed screwdriver or similar tool.
    a. In order to prevent the socket from being damaged due to prying up the chip, place a small flat blade screwdriver between the socket and the board.
    b. ***Using a medium flat blade screwdriver, pry between the chip and the socket.***
    c. Try to keep the chip as parallel to the board as possible.
5. The microcontroller has a notch on one end indicating which side has pin 1. The notch will be closest to the on-board transformer.
6. Gently align the pins of the microcontroller into the socket, **ensuring that all pins are aligned with their respective hole before applying pressure to press the chip into the socket**. It may take a bit of wiggling or pressing of individual pins to align them to the socket hole. The pins are easily bent, so double-check that all pins are aligned with their respective socket.
7. Verify that the chip is fully seated in the socket, and there are no bent pins.
8. Any questions? Call or email us.