Changing the solder type batteries on 1060 MEMory and PROC MACH boards

- **Memory card SKU 0224203897.**
- **Memory card SKU 0204202300, and 0204202301.**
- **Machine processor card SKU 0204201935, and 0204203035, 0204203123.**
- **Machine processor card SKU 0224205043, 0204204382 and 0204204392.**

> **Caution: Static electricity can damage memory circuits.   Always be sure to touch ground before handling the NUM MEMory boards and PROC MACH boards.**

1060 series I and II memory card SKU 0224203897.

1. While machine is still under power, remove battery cover plate on front of memory card (There are two thumb screws holding this battery in place).

2. Remove battery and disconnect from connector (dispose of battery properly following State and Federal environmental guidelines).

> **WARNING**: If control is powered off at this time without replacing the battery within a few minutes all memory may be lost and a memory checksum will occur.

3. Carefully, install new battery ensuring that the connector is inserted properly.
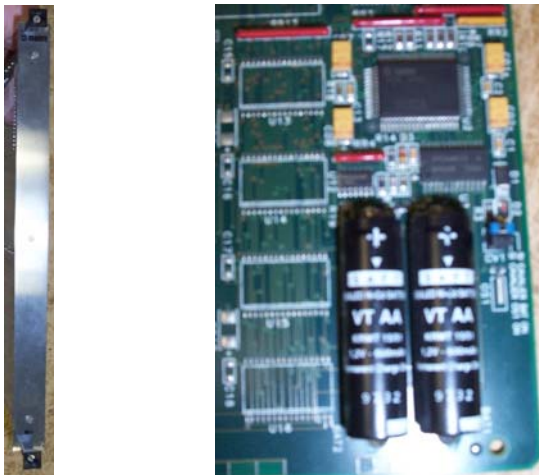
4. Replace battery cover plate.

1060 series I/II memory card SKU 0204202300, and 0204202301.

    1. Remove power from control.

    2. Remove Mem. (Memory) card.

WARNING: During the following procedure all memory will be lost and a memory checksum will occur.

    3. Remove jumpers next to battery remembering their orientation.

    4. Desolder battery(ies) (dispose of battery properly following State and Federal environmental guidelines).

    5. Solder new battery(ies) into place being careful to ensure the battery(ies) orientation is correct (dispose of battery properly following State and Federal environmental guidelines).

    6. Replace jumpers next to battery restoring them to their proper orientation.

    7. Carefully reinsert the Mem. (Memory) card into the CNC rack while using the guides to slide the card into the edge connector of the back plane.

    8. Power up the control.

    9. Restore the backup saved prior to replacing the battery(ies) using the same program(s) used to save the backup.

1060 series I/II for Proc Mach card 204201935, and 0204203035, 0204203123.

1. Remove power from control.
2. Remove machine processor card.

> **WARNING**: During the following procedure all PLC memory (internal variables) will be lost and an internal saved variables checksum will occur on the PLC operation screen in Utility 7 (PLC Ladder Programming).

3. Remove jumper next to battery remembering its orientation.

4. Desolder battery (dispose of battery properly following State and Federal environmental guidelines).

5. Solder new battery into place being careful to ensure the battery orientation is correct (dispose of battery properly following State and Federal environmental guidelines).

6. Replace jumper next to battery reinserting it to its proper orientation.

7. Carefully reinsert the machine processor card into the CNC rack while using the guides to slide the card into the edge connector of the back plane.

8. Power up the control.

9. Restore the backup of the PLC memory saved prior to replacing the battery NUMBackup is the only program that can back up this memory area. In most cases these variables are not used or are reinitialized in the PLC program after machine power up.

1060 series I/II Proc Mach card SKU 0224205043, 0204204382 and 0204204392.

1. Remove power from control.
2. Remove machine processor card.

3. Remove battery and disconnect from connector (dispose of battery properly following State and Federal environmental guidelines).

WARNING: To minimize the chance of loosing stored memory the battery should be replaced within a few minutes otherwise the internal saved PLC variables may be lost and a internal saved variables checksum will occur on the PLC operation screen in Utility 7 (PLC Ladder Programming).

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4. Carefully install new battery ensuring that the connector is inserted properly.

5. Carefully reinsert the machine processor card into the CNC rack while using the guides to slide the card into the edge connector of the back plane.

6. Power up the control

NUM Product technical information sheet.