



5 Volt DC Power Supply

PROBLEM: Lock-up of stacker functions.

This service bulletin specifies the 5-volt dc power supply adjustment for the **SJ 100, SJ 200 and SJ 1000 series stackers**. The 5-volt dc power supply should be adjusted to within a range of **4.92 to 5.08 volts DC**. The 5 vdc power should be adjusted anytime repair or maintenance is performed on the electronic portion of the stacker. The voltage should be checked periodically.

The incorrect adjustment of this power supply can cause various erratic symptoms. Usually these symptoms first show up in the CPU card and affect an orderly execution of the program. These symptoms can include:

1. Failure of the program to start properly.
2. Lock up of the program after running for some period of time.
3. The correct operation of a CPU or other card in one stacker and incorrect operation in another stacker.
4. Strange characters appearing on the display.
5. Random incorrect execution of the program (usually very large errors that do not repeat in an identical manner).

The 5-volt DC power supply may be measured between pins 1 or 2 & 3 or 4 on the back of the card cage. These are the top four pins on the I/O card extender (right four pins when the card cage door is fully open). The top two pins are 1 & 2 (5 volts) and the next 2 pins are 3 & 4 (common). Be careful not to short pin 1 or 2 (5 volts DC) to any adjacent pins.

The 5-volt DC power supply may be adjusted by turning the adjustment potentiometer on the Regulator Card. The Regulator Card is mounted on rear inside of the housing that encloses the card. On a few very early versions of the Regulator Card no adjustment potentiometer was provided. On these old cards, Resistor R-5 (330 ohms) may be reduced in value slightly, by adding a resistor in parallel (typically 4.7 K ohm & above).

Should any assistance be required, contact Quipp for technical service.