Symptom:
EECO Power Supply output voltages too low and print density too high, results in intermittent or continuous system resets and/or system trouble codes

Error Message:

Solution:

**WARNINGS!**
- When handling electronic boards, WEAR A GROUNDING STRAP! to prevent static discharge damage.
- When reconnecting cable connectors of the EECO printer assembly, CONNECTOR ORIENTATION MUST BE CORRECT! Connecting improperly will result in equipment not working and/or DAMAGE TO PRINTER ASSEMBLY AND EECO POWER SUPPLY

Adjusting the power supply

1.) Open the left cabinet door of the EECO console, loosen the two thumb screws located on the outside of the console cabinet directly under the printer mechanism and fold down the printer mechanism
2.) With a digital voltage meter set on lower DC volts range (X.XX VDC resolution) measure the +5 volt DC test point on the backplane and note this voltage, if voltage within specifications, proceed to print density adjustment (refer to diagram for location of voltage test points)
3.) Power down the EECO console via the on/off switch located directly behind the printer mechanism
4.) Remove power supply retaining screws and remove power supply
5.) Locate and adjust output voltage potentiometer on the power supply to following specifications (refer to diagrams and specific instructions):
   +5.08 volts DC - ± 3% (+5.05 to +5.11 volts DC)
   NOTE!: This may take several attempts to get within specifications
Location of Power Supply, Voltage Test Points & Printer Controller Board:

Voltage Test Points:
Located behind printer on backplane board

Power Supply

Voltage Test Points

Printer Controller Board
Location of power supply adjustment potentiometer:

Adjusting the output voltage:

1.) Determine amount of adjustment needed
2.) Adjust potentiometer per following increments and specifications:
   \( \frac{1}{4} \) turn increases/decreases voltage approximately 0.10 volts DC
   Specification:
   \(+5.08 \text{ volts DC to } \pm 3\%\)
   (+5.05 to +5.11 volts DC)

NOTE!: Must re-install and power the system up to check voltages. This may take several attempts to get within specifications
Location of print density potentiometer:
1.) Open the left cabinet door of the EECO console, loosen the two thumb screws located on the outside of the console cabinet directly under the printer mechanism and fold down the printer mechanism.
2.) Power down the EECO console via the on/off switch located directly behind the printer mechanism.
3.) Locate the brown 20 position connector and 2 position paper feed connector on the printer controller located to the right of the printer mechanism, pay particular attention to the connectors orientation on the board, remove both connectors.
4.) While holding the printer mechanism, remove the two nuts located on the outside of the console cabinet directly under the printer mechanism, remove the printer mechanism.
5.) Locate the 4 position printer power connector J-16 on the Backplane board, pay particular attention to the connectors orientation on the board, remove the connector.
6.) Locate and remove the printer controller board communications ribbon cable connector from the Q439966 Auxiliary board located in the card cage.
7.) Remove the Phillips screw located on the outside left side of the cabinet and the printer controller board with mounting bracket.
8.) Locate print density potentiometer R1 and adjust to 50% print density (refer to diagrams and specific instructions).

Adjusting the print density:
1) Gently turn potentiometer through allowable adjustment arc, approximately 60% of a full turn.
2) Note both stop points of adjustment indicator (arrow end of cross).
3) Set adjustment indicator to center of allowable adjustment arc.
4) Re-install printer controller board and mechanism, CAUTION! When reconnecting cable connectors of the EECO printer assembly, CONNECTOR ORIENTATION MUST BE
CORRECT! Connecting improperly will result in equipment not working and/or DAMAGE TO PRINTER ASSEMBLY AND EECO POWER SUPPLY

Related Documents:

TechNote Summary

TechNote Title: Field adjusting EECO 1000/2000/3000 Power Supply and Printer Mechanism Print Density

TechNote ID: 000221

Last Updated: March 28, 2005

This information in the TechNote applies to:

Products: EECO 1000, EECO 2000, EECO 3000

Operating Systems: