

S E R V I C E N O T E

SUPERSEDES: None

3245A Universal Source

Serial Numbers: 0000A00000 / 9999A99999

Power Supply requirements for the Voltage Compliance Performance Test**Parts Required:**6200B DC supply or a Fixed Resistors ($70 \pm 1\% 2 W$)**Situation:**

The Voltage Compliance Performance Test procedure on page 3-9 of the 3245A Calibration Manual (03245-90013) is correct and needs to be clarified. The problem with performing this test is that the voltage source or power supply required is not defined correctly. Under "Equipment Required:", the power supply is simply defined as "Power Supply (8 to 10 volt output)". The power supply used to perform this test must be able to sink 100 mA (backwards, into the '+' terminal). If the power supply cannot sink this much current, then the compliance test will fail.

Continued

DATE: January 1997

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

REM

ENTITY:

0940

ADDITIONAL INFORMATION:



Solution/Action:

To avoid this problem, use only a power supply that is capable of sinking 100 mA of DC current. The 6200B DC supply is capable of performing this task.

If unable to obtain a power supply that can sink current, a resistor can be connected across the power supply. A $70 \pm 1\%$ ohm resistor will draw enough current so that the power supply will not have to sink current in the reverse direction.