

54600B-07

S E R V I C E N O T E

Supersedes:
54600B-06

54600B Oscilloscope

Serial Numbers: [0000A00000 / 9999Z99999]

Voltage Measurement Accuracy
Situation:

The purpose of this Service Note is to clarify the Vertical Voltage Accuracy Specification. Previous Service Note 54600B-04, and **54600B-06** was incorrect, and this is will be the algorithm used to calculate the accuracy for voltage measurements.

DC Gain Accuracy = +- **1.5% of full scale**

DC Voltage Measurement Accuracy

Single Cursor +-[dc gain accuracy)+(1.2% of full scale)+(0.5% of position value)]

Dual Cursor +-[dc gain accuracy)+(0.4% of full scale)]

Verniers Fully Calibrated, accuracy about +- 3.5%

Parts Required: None

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR: [initials] PRODUCT LINE: [product line]

ADDITIONAL INFORMATION:

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Solution/Action:

Volts/Div Setting	Power Supply Setting	Test Limits
5V/Div	35 Volts	34.24 V to 35.76 V
2 V/Div	14 Volts	13.70 V to 14.30 V
1 V/Div	7 Volts	6.848 V to 7.152 V
0.5 V/Div	3.5 Volts	3.424 V to 3.576 V
0.2 V/Div	1.4 Volts	1.370 V to 1.430 V
0.1V/Div	700mVolts	684.8mV to 715.2mV
50mV/Div	350mVolts	342.4mV to 357.6mV
20mV/div	140mVolts	137.0mV to 143.0mV
10mV/div	70mVolts	68.48mV to 71.52mV
5mV/Div	35mVolts	33.48mV to 36.52mV
2mV/div	14mVolts	12.48mV to 15.52mV