

3458A-17

S E R V I C E N O T E

Supersedes:
NONE

3458A DIGITAL MULTIMETER

Serial Numbers: 0000A00000 to 9999A99999
US00000000 to US99999999

Errors May Occur if ACAL AC is Initiated From the 4-Wire Ohms Function

Parts Required:
NONE

Situation:

Several errors will occur if ACAL AC is initiated separately from either the 4-Wire 10 Ohm Range or the 4-Wire 100 Ohm Range with all terminals open circuited. If these errors occur, ACAL AC has not been completed successfully and the errors need to be cleared and ACAL AC rerun successfully (no errors) to assure proper operation of the 3458A.

Solution/Action:

3458A users that utilize the ACAL ALL command once each day to maintain the operational accuracy of the 3458A will not experience the error issues described by this Service Note. Best practices to avoid errors when using the 3458A ACAL features include:

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR: DLL PRODUCT LINE: 9E

ADDITIONAL INFORMATION:

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--Always utilize ACAL ALL to satisfy the ACAL requirements for the 3458A

(or)

--Always utilize the RESET command prior to initiating an ACAL AC command

ACAL DCV, ACAL AC, and ACAL OHMS may be initiated separately (ACAL ALL includes all three of the functional ACALS).

Several errors will occur if ACAL AC is initiated separately from either the 4-Wire 10 Ohm Range or the 4-Wire 100 Ohm Range with all terminals open circuited. Completing the following steps will clear these errors and prepare the 3458A for use:

--Read the errors (this may be done by pressing the “shift” key followed by the “error” key several times until a “NO ERROR” message is displayed)

--Change from the 4-Wire Ohms function to another function such as ACV

--Initiate ACAL AC (successful completion of ACAL AC with no errors indicates that the instrument is ready to use).

NOTE: The cause of any error resulting from an ACAL command must be corrected and the ACAL command completed without error for the 3458A to be ready for valid measurements.