

S E R V I C E N O T E

SUPERSEDES: None

**HP 3X79 Systems equipped with E1085A POTS rack
All E1085A POTS Systems****Marginal Diagnostic Test 8025 Failures****Situation:****Problem Statement:**

Diagnostics Test 8025 with subtests 5,8-15 will fail due to slightly lower ohm result received than the low limit. The result received will be within 0.15% of the low limit. These subtests consist of relay ladder tests, closed tests, open tests, and closed path tests.

Cause:

The HP3458 DMM (digital multimeter) used for Test 8025 measurements is being calibrated internally (on DCV and ACV only) without allowing at least 4 hours warm up time, causing an ohms calibration offset.

Solution/Action:

- I. Calibrate the 3458 DMM: Turn on POTS for a minimum of 4 hours warm-up.
HP3458A DMM ACAL will take approx. 11 minutes to run.
1. Select "internal" on Voltmeter
2. Select the "auto Cal" key from MENU and "ACAL" will appear on the display
3. Press "0" then "," then [your security code]

Continued

DATE: October 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

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ENTITY:

0980

ADDITIONAL INFORMATION:

Note:

The default security code is 3458. Use new security code if the default code has been changed. See the HP 3458A Multimeter for detail.

4. Press "enter" to start DMM internal Calibration.

II. Long Term Recommendations: The entire E1085A POTS rack should be left powered on at all times for temperature stability reasons.

III. New diagnostics test information related to this problem to be released with software revision B.02.50

Test 8013: A DMM selftest, will now be run during diagnostics with Manual Intervention enabled.

Test 8089: A new Manual Intervention test that will do a full internal calibration on the DMM. A warning message not to calibrate DMM until POTS has been powered on for a minimum of 4 hours and amount of time needed for calibration will also be given. You will be given the option to skip this test.

Test 8090: POTS Autocal. Used to run during normal diagnostics, but now will only run with Manual Intervention enabled. Test 8089 will be run as a pre-requisite of test 8090 if selected by test number entry. A warning message will be given not to Autocal POTS before a minimum of 4 hours warm up time. Full internal calibration on the DMM will be run automatically during test 8090 if there is a greater than 5 degrees C temperature change detected by the DMM. You will be given the option to skip this test.