S E R V I C E   N O T E

SUPERSEDES: None

E1340A B-Size VXI Arbitrary Function Generator

Serial Numbers: 3150A00101 / 3150A00313
(Some non-contiguous serials. Refer to text.)

Correction for software defects.

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:

Part No.	Qty.	Description
E1340-10033	1	3 1/2" Disc, Driver and example programs, LIF format
E1340-10034	1	3 1/2" Disc, Driver and example programs, DOS format

Situation:
Most E1340A modules in the indicated serial number range (see exceptions*) were shipped from the factory with downloadable drivers (Revision A.01.00) that contained the following software defects:

Continued

DATE: 17 August 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 0.5 Hour			
LOCATION CATEGORY:	■ CUSTOMER INSTALLABLE ☐ ON-SITE ■ SERVICE CENTER	SERVICE INVENTORY:	☐ RETURN ■ SCRAP ☐ SEE TEXT	USED PARTS:	☐ RETURN ■ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 11 August 1995			
AUTHOR: KD	ENTITY: 0900	ADDITIONAL INFORMATION: Internal Reference PCO 09-28809			

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1. SWEEP TIME - If the sweep time value set by the user is not an exact value parameter as expected by the E1340A driver, the software truncates the entered value to the next lower value usable by the routine, and then sends that value to the module. The original value entered by the user is stored. However, if the user then queries the driver to verify hat value is currently set, a rounding routine (different from the truncating routine) is used to round the stored value before it is returned to the user. These two values (what was sent to the module and what is returned to the user) may therefore be different.

2. If a DC offset value for the output signal is sent to the driver before the INIT command is sent, the offset is not generated. Also, is the offset is less than 1/10 of full-scale and the output signal is less than 1/10 of full-scale, but the sum of the two is greater than 1/10 of full-scale, the output signal will be clipped.

3. The CAL:DATA AC? query command returns incorrect data.

4. The CAL DC command is inoperative. It always aborts after step 13 with an error.

    * E1340A with the following serial numbers were shipped with the updated driver (Rev A.01.02) 3150A00xxx where xx232, 269, 287, 289, 291, 292, 294, 297, 299, 300, 301, 302, 304, 308, 310, and 313 and up.

Solution/Action:
The above software defects are corrected in Revision A.01.02 of the E1340A software driver.

Order the appropriate disc (DOS or LIF format) and download the revised driver into the system controller for correct operation of the E1340A.