

SUPERSEDES
3456A-15A

-hp- MODEL 3456A DIGITAL VOLTMETER

Serial Numbers Prior To: 2201A04796

ENHANCEMENT OF MAIN CONTROLLER BOARD (A4)

Instruments in the above range of instruments may be subject to a wide variety of Outguard digital problems caused by a speed deficiency of the microprocessor, A4U15, and the two RAMs, A4U10 and A4U11. The symptoms can be seen in one or more of the following descriptions:

1. Unit will not pass selectable Self-Test #2 at turn-on, or after being completely warmed up.
2. Unit "locks up" and won't respond to front panel commands.
3. Unit will not respond to HP-IB commands.
4. Unit becomes unstable.
5. Unit "hangs up" HP-IB or sends false SRQ.

These symptoms will almost always be intermittent and are likely to disappear temporarily if the instrument is reset or power is cycled off and on again. The only positive cure is as described below.

MODIFICATION PROCEDURE

Refer to the 3456A Operating and Service Manual (-hp- P/N 03456-90004) for board locations, disassembly procedures, and safety precautions.

W/OF/WO

6/88-09/BO

Printed in U.S.A.



3456A-15B



FOR MORE INFORMATION, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE or East (201) 265-5000 • Midwest (312) 255-9800 • South (404) 955-1500 • West (213) 970-7500 or (415) 968-9200; OR WRITE, Hewlett-Packard, 1501 Page Mill Road, Palo Alto, California 94304. IN EUROPE, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE OR WRITE, Hewlett-Packard S.A., 7, rue du Bois-du-Lan, P.O. Box CH-1217 MEYRIN 2 -Geneva, Switzerland. IN JAPAN, Yokogawa-Hewlett-Packard Ltd., 9-1, Takakura-cho, Hachioji-shi, Tokyo, Japan 192.

CAUTION

The assembly and components involved in the following steps are all static sensitive, and should be handled at a static free work area, and in accordance with approved procedures.

1. Remove the Outguard Main Controller assembly (A4) from the instrument.
2. Remove and discard U10, U11, and U15 from the assembly.
3. Use the following components to replace the previous components in step 2.

Designator	hp- Part Number
U10	1818-1877
U11	1818-1877
U15	1820-2137 with a DATE CODE of 81-36 or later

4. Return the board to its proper position in the instrument, reconnect the cables, and reassemble.

To verify proper operation, perform the instrument self-tests by pressing the "SELF TEST" button. The instrument should respond by alternately displaying all LEDs and annunciators, blanking out, and then repeating the cycle again. Press the "SELF TEST" button to resume normal operation.

MODIFICATION PROCEDURE

Refer to the 3456A Operating and Service Manual (hp- P/N 03429-90004) for board locations, disassembly procedures and safety precautions.

WPM/DEW/C



3456A-15B

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