# S E R V I C E N O T E

SUPERSEDES

## HP 8115A Dual Channel Pulse Generator 50 MHz

**Serial Numbers:** 0000G00000/2821G00410

### Recommended Replacement (P/N 1DD6-0002) for Timing IC A7 U320, A9/A10 U220 and U240 Requires Modifications

**To Be Performed By:** HP-Qualified Personnel

**Parts Required:**

HP P/N 1DD6-0002, Rate IC, upto Qty 3
HP P/N 0698-4453, R-FXD 402 1%, Qty 1
HP P/N 0811-3592, R-FXD 0.2, Qty 3
HP P/N 0160-3875, C-FXD 22 PF, upto Qty 3

**Situation:**

The replacement part for Timing ICs requires modification of the -5.2V power supply. The new Timing IC needs -5.4 V power supply, so that the Timing IC operates at ambient temperatures  deg celcius.

*Continued*

DATE: 05 October 1992

ADMINISTRATIVE INFORMATION

| SERVICE NOTE CLASSIFICATION: **MODIFICATION AVAILABLE** | | |
|---|---|---|
| ACTION CATEGORY: AGREEABLE TIME | | ☐ PERFORMANCE ENHANCEMENT<br>■ SERVICE/RELIABILITY ENHANCEMENT |
| LOCATION CATEGORY: | ☐ CUSTOMER INSTALLABLE<br>☐ ON-SITE<br>■ HP LOCATION | AVAILABLE UNTIL: October 1993 |
| AUTHOR: PW | ENTITY: B100 | ADDITIONAL INFORMATION: |



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**Solution/Action:**

**Caution:**

Boards are sensitive to electrostatic discharge (ESD). Please use standard ESD precautions whenever the unit's cover is removed!

When 1826-0984 has to be replaced by 1DD6-0002, perform the following modification steps:

A) Replacing Timing IC on A7 Clock Board, Perform the following steps:

1) Replace C322 with 0160-3975 C-FXD 22 pF.

2) Replace R362 with 0698-4453 R-FXD 402 ohms.

B) Replacing Timing IC on A9 and/or A10 Output Board, as needed, perform the following steps:

On A2 Power Supply Board

1) Replace and insert R100, R101, and R102 with 0811-3592 R-FXD 0.2 ohms. (Make sure that finally all three resistors are loaded.)

On A9 and A10 Output 1 and Output 2 Boards

2) Replace C220 and/or C240 with 0160-3875 C-FXD 22 pF, as needed.

Adjustments

3) Adjust A2 R21 to achieve -5.45 V +/- 25 mV.

4) Check the +5 V power supply for 5.1 V +/- 100 mV.

5) Re-adjust A2 R21 to get the best compromise for both supply voltages.

Perform re-calibration (determine new EEPROM data), and a complete performance test.