8118A-01

S E R V I C E N O T E

SUPERSEDES

HP 8118A Pulse/Pattern Generator 50 MHz

Serial Numbers: 0000G00000/2828G00319

Recommended Replacement (P/N 1DD6-0002) for Timing IC A7 U320, A9/A10 U220 and U240, and A8 U312 and U314 Requires Modifications

To Be Performed By: HP-Qualified Personnel

Parts Required:

HP P/N 1DD6-0002, Rate IC, upto Qty 5
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 5

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 ■ SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ■ HP LOCATION	AVAILABLE UNTIL: October 1993
AUTHOR: PW	ENTITY: B100	ADDITIONAL INFORMATION:

HEWLETT PACKARD

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 A8 Data Board and/or A9/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 A8 Data Board

2) Replace C348 and/or C353 with 0160-3875 C-FXD 22 pF, as needed.

On A9 and A10 Output 1 and Output 2 Boards

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

Adjustments

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

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

6) 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.