

5383A-06

S E R V I C E N O T E

SUPERSEDES: None

HP 5383A Frequency Counter

Service replacement of 1820-0633 and 1820-0634

Serial Numbers: 0000A00000 / 2324A05826

Duplicate Service Notes: 5382A-04

To Be Performed By: Customer/HP Qualified Personnel

Parts Required:

For 1820-0633 replacement:

HP Part No.	Qty.	Description
1820-2318	1	IC Dig Time Base
0683-1055	1	Resistor, 1 MOhm
0160-0576	1	Capacitor, 0.1 UF
1200-0473	1	Socket-IC 16-Cont Dip Sldr

Continued

DATE: 23 May 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 2.0 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: Amy Ims	ENTITY: 0200	RESPONSIBLE UNTIL:	May 1994
		ADDITIONAL INFORMATION:	



For 1820-0634 replacement:

HP Part No.	Qty.	Description
1820-2316	1	IC Dig Hex Dec
1200-0473	1	Socket-IC 16-Cont Dip Sldr
9140-0114	1	Coil, Fixed RF 10UH
1853-0217	1	Transistor, PNP
1854-0574	1	Transistor, NPN

Tools Required:

Soldering iron, solder
 Needle-nosed pliers
 Jumper wire

The 1820-0633 (A1U4) and 1820-0634 (A1U14) on the 05382-60004 Bd Ay-Main have been obsoleted. The recommended replacement parts are 1820-2318 (A1U4 and 1820-2316 (A1U14), however the following modifications are required:

For service replacement of the 1820-0633 with 1820-2318 on the 05383-60001 or -60003:

1. Using the soldering iron, remove A1U11 (1820-0633) and solder a 16 pin socket (1200-0473) into the motherboard location of A1U11.
2. Install a jumper wire from pins A1U11 (2,5) to the ground test pad near C18.
3. Desolder R27 (0683-1035) and replace it with a 1 MOhm resistor (0683-1055).
4. Desolder C20 (0160-3879) and replace it with a 0.1 UF capacitor (0160-0576).

For service replacement of the 1820-0634 with 1820-2316 on 05383-60001 or -60003:

1. Using the soldering iron, remove A1U18 and solder a 16 pin socket (1200-0473) into the motherboard location of A1U18.
2. Break the -14V trace at A1U18(5) and solder a jumper wire from Gnd going to the A2 board to pin A1U18(5).
3. Break the +5V trace between A1U24 and U18 on the circuit side.
4. Install L8 (9140-0114) between the + plate through holes near U24 and U18(13).
5. Add C51 (0160-0576) between U18 pins and 13.
6. Add #2 ground wires between the two plated through holes near A2Q14 and 16 to either end of the A1 "SPARE FUSE" legend.
7. Change Q20 to 1853-0217 (PNP with 0.2 V Vce (SAT). Connect the collector lead of Q20 to ground at the emitter of Q19. (Refer to schematic for emitter locations.)
8. Change Q21 to 1854-0574 (NPN darlington).