S E R V I C E   N O T E

1980B OSCILLOSCOPE MEASUREMENT SYSTEM
Serials Prefixed 2131A- and Below
REPLACEMENT OPERATING ROMs

Operating ROMs A4U26, 27, and 29 have been updated to correct slight anomalities as well as to accommodate possible future feature ROMs. Transparent software interactions affect all 3 ROMs.

Since we anticipate few, if any, ROM failures we will not attempt to support the old ROM configurations. Therefore, should an operating ROM failure occur (A4U26, 27, or 29) in instruments prefix 2131A- and below all 3 ROMs must be replaced as a set. Order kit, HP Part No. 01980-69507, which includes:

Quan.	Part No.	Description	Ref. Desig.
1	1818-1654	Masked ROM	A4U26
1	1818-1655	Masked ROM	A4U27
1	1818-1690	Masked ROM	A4U29
1	5957-2252	Service Note 1980A/B-6	

After replacement correct the Service Manual parts list, insert the new ROM 0 signatures before Service Sheet 20, and insert the operating changes listed in this Service Note in the Operators Manual.

Should any of these devices require subsequent replacement they may be changed individually.

E/OF/WO

08/81-08

HP P/N 5957/2252

HEWLETT PACKARD

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OPERATING CHANGES

Area	Old Devices	New Devices
Soft Keys 4, 5, 8 (without 19860A installed)	If pressed, message notes "KEY DISABLED"	If pressed, message notes "OPTION NOT INSTALLED"
Soft Keys 4, 5, 8 (with 19860A installed)	If pressed message notes "KEY DISABLED"	Soft Key 4 = STORE M1 Soft Key 5 = STORE M2 Soft Key 8 = VIEW OFF (should be accompanied with appropriately labeled display panel)
In Utilities Menu, ADVISORIES ON/OFF	When pressed, exited menu automatically	Does not exit menu automatically
OPTION MENU	SK4 labeled "INSTALLED OPTION LIST"	SK4 labeled "FEATURE ROMS"
SHIFT KEY	Could not toggle off if erroneously selected	Can now toggle off if not wanted
"Automatic" Trigger View when TRG LVL is addressed	Short period, looked like flicker	Longer viewing period
With no channels selected (all off)	If Rotary Control is moved bright spot may appear	No bright spot
SELECTIVE AUTOSCOPE	Preset the intensity to a fixed level	Preserves intensity level that was chosen
CONFIDENCE TEST	Required BNC cable or 1:1 probe only	Will now accept 10:1 probe also (of the proper type)
UTILITIES MENU, RAM TEST ROM CHECKSUM	Automatically exited menu when pressed, cannot execute from HP-IB	Does not exit menu, can be executed from HP-IB
Auto sweep start-up with no signal input at turn on	Possible no auto sweep start-up (not due to malfunction of old ROM devices)	Software routine insures auto sweep start without an input at turn on

SERVICE SHEET 20 SIGNATURE ANALYSIS

TEST 5. Rom 0 Test, HP Part No. 1818-1654
(Service Sheet 20)

a. Set instrument power to off.

b. Signature Analyzer connections:
    START ⅃ to U26-20 (CSM0)
    STOP ⌐ to U3-18 (CSM0)
    CLOCK ⌐ to TP5 (LRD)

c. Set S1-B and S1-C to closed.

d. Set instrument power to on.

e. TEST POINT   SIGNATURE

Probe open		826P	826P
5-A	(U26-9)	7P79	P872
5-B	(U26-10)	U43F	3H9A
5-C	(U26-11)	6282	CAU9
5-D	(U26-13)	POAU	3A3U
5-E	(U26-14)	7158	214H
5-F	(U26-15)	U73A	1FA3
5-G	(U26-16)	C322	H951
5-H	(U26-17)	PA27	POP6

f. Set S1-B and S1-C to open.