4396A-04



ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICA	ATION:			
INFORMATION ONLY				
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:		
TS	3355			

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Service Note 4396A-04

To update the firmware in the A1 CPU flash memory version, use the appropriate firmware installation kit.

To update the firmware in the A1 CPU ROM version, modify the A1 CPU to flash memory version. Then use the firmware installation kit.

Solution/Action:

When updating the firmware of a 4396A, identify A1 CPU version, flash memory version or ROM version.

- 1. Turn the unit power off.
- 2. With pressing both the [Start] and [Preset] keys, turn the power unit on.
- 3. Check if the Bootloader screen shown in Figure 1 appears on the CRT.

PACKARD NETWORK/SPECTRUM ANALYZER	
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BootLoader REV N.NN : MMM DD YYYY	
Current Firmware Revision HP 4396A REV N.NN : MMM DD YYYY	
Select Softkey	

Figure 1. Bootloader Screen

When the Bootloader screen appears:

The A1 CPU is flash memory version. Update the firmware revision by using the firmware installation kit. The installation is customer installable.

When the normal measurement screen appears.

The A1 CPU is ROM version. Modify the A1 CPU to flash memory version using six flash memory parts (pn 1818-5028). Then update the firmware revision by using the firmware installation kit. The modification procedure is described below. This procedure is NOT customer installable.

If six flash memories are not available due to the supply problem, update the firmware revision by using the ROM set of the desired revision. The procedure is described at the end of this service note.

A1 CPU Modification Procedure to flash memory version

- 1. Remove the bottom cover from the unit.
- 2. Change the bit switch A1SW1 settings as shown in Figure 2.



Figure 2. A1SW1 and A1U107 through A1U112 Locations

- 3. Remove the six programmed ROMs (A1U107 through A1U112) from IC sockets on the A1 CPU. The location of the sockets are shown in Figure 2.
- 4. Install the six flash memories in to the IC sockets A1U107 through A1U112.
- 5. Assemble the bottom cover.
- 6. Turn the unit powe on. Then the Bootlloader appears as shown in Figure 1.
- 7. Install the desired firmware by using the firmware installation kit.

Firmware Update Using ROM set

- 1. Order a ROM set of the desired revision. See a service note 4396A-01 for the part number of the desired ROM set.
- 2. Remove the bottom cover from the unit.
- 3. Remove the six programmed ROMs (A1U107 through A1U112) from IC sockets on the A1 CPU. The location of the sockets are shown in Figure 2.
- 4. Install six ROMs into the IC sockets. For the relation between the part numbers and designators, see a service note 4396A-01.
- 5. Assemble the bottom cover.
- 6. Turn the unit power on.
- 7 Confirm that no "POWER ON TEST FAILED" message appears and that the installed firmware revision is displayed.
- 8. Attach the revision lable of the installed firmware on the unit's rear panel.