SUPERSEDES: None

## HP 3X7X Series II Board Test Systems

### HP 3070 Board Test Controller Upgrade from 725/50 to 725/100

**NOTE:**

This process was developed by a CE doing an upgrade. It has NOT been formally tested.

It is possible to field-upgrade a 725/50 to a 725/100.  This is a major and fairly expensive modification, but may be justified in some cases.  Two computer kits and several other parts need to be ordered to upgrade the controller.  Note that there are some differences when using the computer kits for a HP 3070 Board Test controller.  For instance, the first kit says to start by installing 9.05.  The Board Test software runs on an enhanced version of 9.03, so 9.05 should not be installed.

One of the key differences between the 725/50 and 725/100 is the I/O.  The 725/50 uses HP-HIL keyboard and mouse.  The 725/100 uses a PS2 keyboard and mouse.  The Bar Code Reader has been replaced with a Bar Code Scanner.  All of these new parts will need to be purchased for the upgrade.

*Continued*

DATE: July 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

# INFORMATION ONLY

| AUTHOR: | ENTITY: | ADDITIONAL INFORMATION: |
|---------|---------|-------------------------|
| GS | 0980 | |

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**Upgrade Parts/Kit check list:**

- HP A4146A CPU Board Upgrade kit

- HP A4030B keyboard and mouse localization kit

- Footswitch adapter kit: E4000-62102 adapter and 8120-6713 cable

- If  the barcode reader is being used, it will need to be replaced with the E3786A Bar Code Scanner.

- If the transceiver cable was not installed with the 725/50, the cable 8120-6730 can be purchased to extend the AUI port. The transceiver cable started shipping when the controller was pre-installed in foam in the pod.

**Following are the steps necessary for the upgrade.**

1) The HP A4146A Board Upgrade kit provides the new board and other pieces including HP-UX 9.05.  It is important NOT to install 9.05.  The Board Test software runs on an enhanced version of 9.03.  The kit also includes a new Fast Wide SCSI card. This is not currently used in the Board Test system, but should be installed for future use or in case a customer wants to use a FW SCSI device.  No graphics devices are used on these controllers, so those parts of the upgrade process can be ignored.  This kit also includes a keyboard adapter module which is used with the new keyboard and mouse (A4030B).

**Process :**

- Obtain the LANIC ID (a.k.a. IP address) of the current controller to use on the new controller.  If the customer wants to assign a new IP address to the controller, then confirm the new IP address and new hostname for the 725/100 controller.

- After the processor board has been replaced, the initial power up may render no display.  So on power up, press the [TAB] key one stroke/sec until a video resolution display appears on the monitor.  The monitor display will cycle through the available resolutions.  Select 1024x768 resolution with respect to the monitor currently being used with the 3070 system.  After the video resolution selection, the system should then boot up normally to the logon screen.

- Logon as root; upgrade the IP address for the new controller. Execute commands "ioscan" and "lanscan" to verify all IO ports and LANs status.

- On the 725/100 CPU, the built-in RS-232 port for the strip printer has a different function number; therefore, the minor number for the device file /dev/rpr1 should be changed.  Execute the following commands from a shell window in superuser mode:

      # cd /dev          # ll rpr1

  * If the /dev/rpr1 file minor number is other than 0x502004 then execute the following:

      # rm /dev/rpr1          # mknod /dev/rpr1 c 0x502004 # chown hp3070:hp3070
/dev/rpr1          # ll /dev/rpr1

  *  This time the minor number for the /dev/rpr1 file should coincide  with the changes.

2) The transceiver from the old controller can be used on the new controller.  If the 725/50 was installed in foam in the pod, then the cable 8120-6730 was shipped with the system.  If the 725/50 was not installed in foam, but is in the pod, then that cable can be purchased to extend the connection to the back of the pod.

3) Cabeling for the footswitch must be replaced.  This requires an E4000-62102 adapter and an 8120-6713 cable.

4) If the barcode reader is being used, it will need to be replaced with the E3786A Bar Code Scanner.

Please check your Installation Guide to verify the cabling of the new devices.  Contact either Eddie Martin in Mt. View, California or Jonathan Huynh in Portland, Oregon if you have questions.