Manufacturing Diagnostics

This appendix contains instructions for using Manufacturing Diagnostics.

Manufacturing Diagnostics

You will seldom, if ever, need to use this mode. It is used in a manufacturing environment to achieve repetitive *burn-in* testing. The Manufacturing Diagnostics mode runs POST in a continuous loop (see Figure D-1).
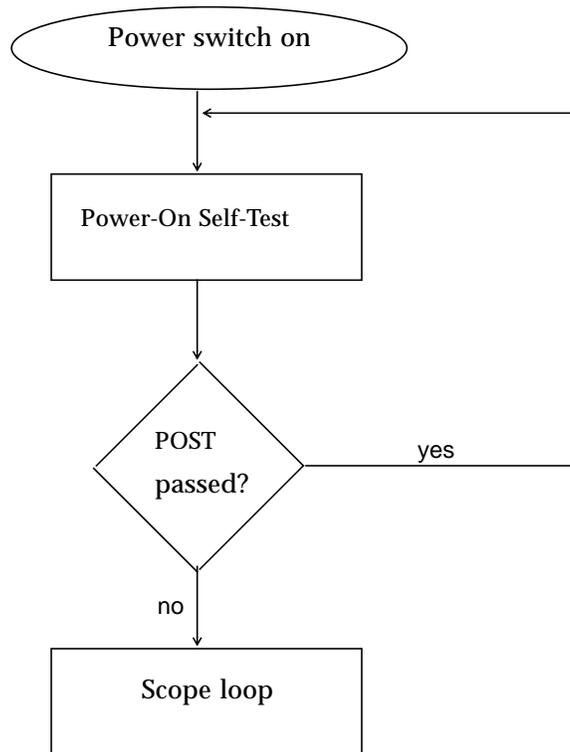
Figure D-1   Flowchart Illustrating Manufacturing Diagnostics

⚠ **Caution** – In order to run manufacturing diagnostics, you must halt the system in an orderly manner. When the operating system or any other stand-alone program has already booted, do not use the L1-A keys to halt the system. Abruptly aborting program execution may cause damage to data files.

To halt the system in an orderly manner and enter the Forth Toolkit:

3. Save all your work and quit all applications.

4. As `root`, halt the system by entering
   `/usr/etc/halt`.

You are presented with either the > or the ok prompt. If you see the >
prompt, go to the next step. If you see the ok prompt, go to next procedure.

5. Enter n to enter the Forth Toolkit.
The ok prompt shows that you are in the Forth Toolkit.

```
#  /usr/etc/halt
>  n
ok
```

To run Manufacturing Diagnostics:

1. As root, halt the system in an orderly manner.
To do this, see the previous procedure.

**2. Enter setenv mfg-switch? true to set the manufacturing switch to
true.**

**3. To view the Manufacturing Diagnostics results, attach a terminal to a
serial port.**
To do this, see the *SPARCstation IPC Installation Guide.*

4. Enter reset to reboot the system.

```
ok setenv mfg-switch? true
ok reset the system is rebooted and Manufacturing
Diagnostics run
```

At this point, the Manufacturing Diagnostics are run. These diagnostics
consist of POST run in a continuous loop as shown in the flowchart in Figure
D-1.

To leave Manufacturing Diagnostics and boot SunOS:

1. Press the Break key to leave Manufacturing Diagnostics.
This step assumes you have connected a terminal to the system. If you did
not attach a terminal to the system, press the L1-A keys simultaneously.

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Either the > or the ok prompts appears. The > prompt is the default prompt. You will see the ok prompt if you reset the system to have the ok prompt as the default prompt. To have the ok prompt as the default, see the *Open Boot PROM Toolkit User's Guide.*

If you see the > prompt, go to the next step. If you see the ok prompt, go to Step 3.

2. **Enter `n` to enter the Forth Toolkit.**
    The ok prompt shows that you are in the Forth Toolkit.

3. **Enter `setenv mfg-switch? false` to set the manufacturing switch to false.**

4. **Enter `reset` to reboot the system.**

Figure D-4 summarizes the steps you need to take to leave Manufacturing Diagnostics and boot the SunOS Operating System.

```
Press the  L1-A keys simultaneously (graphics monitor) or press the Break  key (terminal)
>  n
ok setenv mfg-switch? false
ok reset                              The system is rebooted
```

Figure D-2   Leaving Manufacturing Diagnostics and Rebooting the System.