



Updating the Sun Blade 100 OpenBoot PROM Firmware

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Updating the Sun Blade™ 100 OpenBoot™ PROM Firmware

This document describes the procedures for setting the jumpers for an OpenBoot PROM flash update. These procedures supplement the information in Step 1 of section 8.5.2 of the *Sun Blade 100 Service Manual*, 806-3416.

This document also describes how to reset the jumpers to their original state and how to recover should a power interruption occur during the OpenBoot update.

Setting the Flash PROM Jumper

Before you can update OpenBoot PROM software, you must ensure that the flash PROM jumpers are set correctly.

▼ To set the hardware jumpers:

- 1. Shut down the system, disconnect the power cord, remove the system cover, and attach an antistatic wrist strap.**
See sections 5.4 through 5.7 of the *Sun Blade 100 Service Manual*, 806-3416.
- 2. Locate the OpenBoot PROM jumpers on the front right corner of the motherboard near the system fan.**

Note – The diskette drive cable is plugged into the riser card directly above the flash PROM jumper. You may have to push the cable aside to access the jumper.

3. **Set the OpenBoot PROM jumper, JP2, to enable flash update.**
Move the JP2 jumper to pins 2-3 to match the settings shown in .

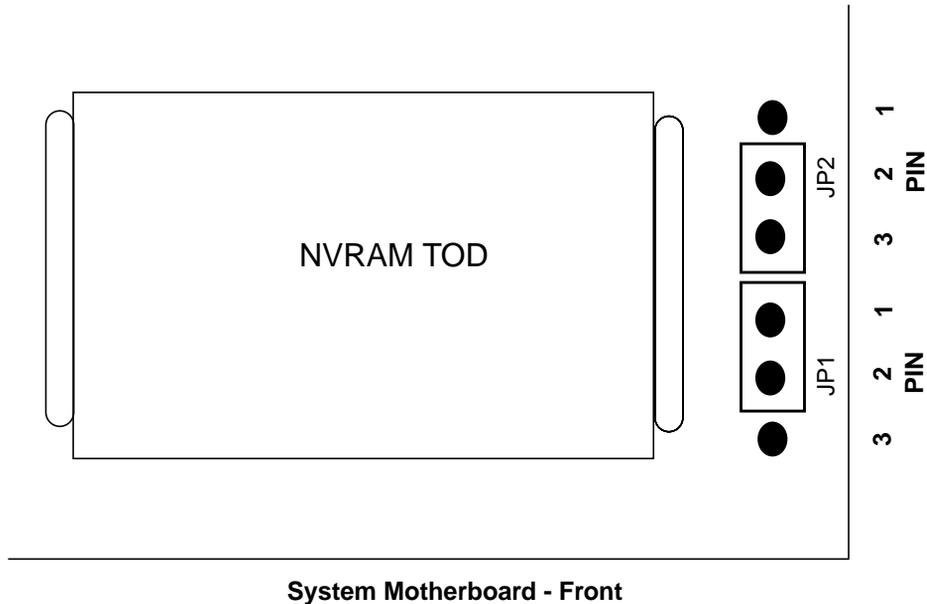


FIGURE 1 Correct OpenBoot PROM Jumper Settings

4. **Replace the system cover, connect the system power cord to the power source, and power on the system.**

See sections 9.1 and 9.2 of the *Sun Blade 100 Service Manual*, 806-3416.

5. **Follow the procedures for installing the OpenBoot PROM patch.**

The patch and installation procedures can be found at <http://www.sunsolve.sun.com>.

- (Optional) To reset the hardware jumpers to the original factory configuration, move the JP2 jumper back to pins 1-2, as shown in FIGURE 2.

For correct powering off procedures and access to the system, refer to sections 5.4 through 5.7 of the *Sun Blade 100 Service Manual*, 806-3416. For correct procedures to replace the system cover, connect the power cord, and power on the system, see sections 9.1 and 9.2 of the *Sun Blade 100 Service Manual*.

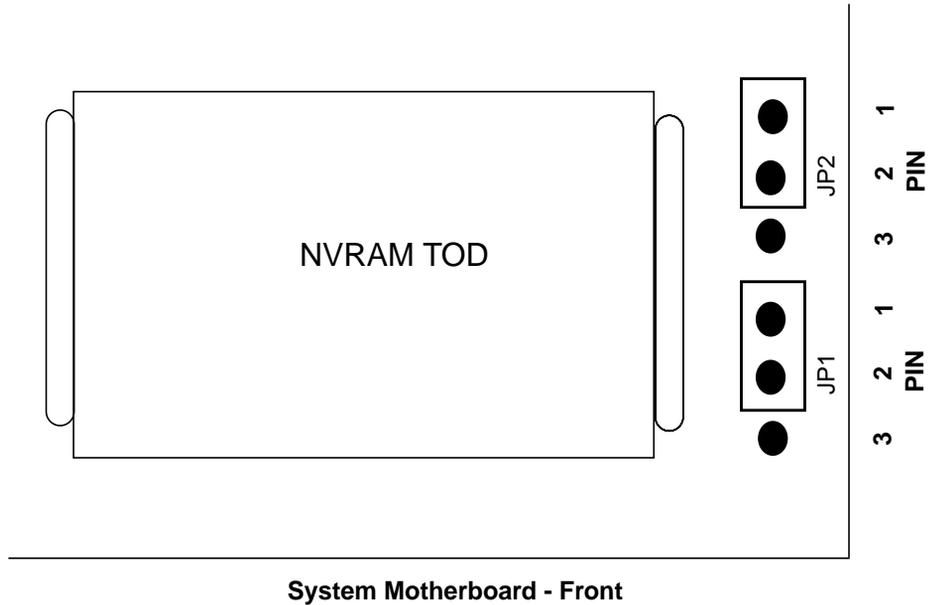


FIGURE 2 Factory-configured OpenBoot PROM Settings

Power Interruption Recovery Scenarios

If power is interrupted while updating the flash PROM, then after power is restored, one of the following two recovery scenarios should happen on your system. Follow the instructions for the appropriate scenario.

Scenario 1—System Recovers After Power Restoration

If your system attempts to autoboot after the power is restored, or if it returns to the flash PROM's `ok` prompt, you *must* complete the programming process by rerunning the flash update utility as described in Step 5 of the procedures for installing the OpenBoot PROM patch. The patch and installation procedures can be found at <http://www.sunsolve.sun.com>.

Scenario 2—System Does Not Recover After Power Restoration

If your system does not boot or return to the `ok` prompt after power is restored:

- 1. If the update was being run via a serial port and the system also has a frame buffer and keyboard installed, or if the system has a keyboard and more than one frame buffer installed:**
 - a. Connect a monitor to each frame buffer.**
 - b. Confirm that output has been redirected to one of the frame buffers.**
 - The NVRAM configuration variables *might* have been modified because of the firmware update just before power was lost. If this happened, then the system output might have been redirected to a device other than the one originally used to display it. This could only have happened if a keyboard was connected to the system.
 - If there is no keyboard connected to the system and the NVRAM configuration variables are set to their default values, then system input and output are directed to serial port. A.
- 2. Power on the system.**
 - If the system recovers, complete the updating process by rerunning the flash update utility as described in Step 5 of the procedures for installing the OpenBoot PROM patch. The patch and installation procedures can be found at <http://www.sunsolve.sun.com>.
 - If the system does not recover, repeat Step 1 and Step 2 a second time.
- 3. If the system *still* does not recover after you complete Step 1 and Step 2 a second time, contact your service provider.**