



About Apple Service Diagnostic v 2.5.7 Dual Boot-able CD

Apple Service Diagnostic CD is designed to run both Open Firmware and Mac OS X tests from a single CD. Apple Service Diagnostic (OF) performs low-level tests of hardware directly and does not require an operating system to run. Apple Service Diagnostic (OS) uses Mac OS X to perform tests.

Booting and using the Apple Service Diagnostic Dual Boot-able CD

With the CD inserted restart the machine and hold down the C key as the computer starts up. After 20-30 seconds the computer will boot to the main screen of Apple Service Diagnostic for Open Firmware testing. Apple Service Diagnostic Open Firmware testing does not require an operating system to run. After running Diagnostic (OF) press the Restart button to restart the Mac. Press and hold down the 'option' key while booting to get to system picker. Once system picker has finished scanning for other bootable volumes, select Diagnostic (OS) and press the right arrow key. After 3-4 minutes the computer will boot to the main screen of Apple Service Diagnostic for Mac OS X testing. Once finished press the Shutdown or Restart button to quit.

Before using Apple Service Diagnostic disconnect any Ethernet network and USB cables.

Apple Service Diagnostic is distributed to Apple Service Providers only for use with PowerBook G4 (17-inch 1.5GHz), PowerBook G4 (17-inch 1.67GHz), PowerBook G4 (15-inch 1.5/1.33GHz), PowerBook G4 (15-inch 1.67/1.5GHz), PowerBook G4 (12-inch 1.33GHz), PowerBook G4 (12-inch 1.5GHz), iBook G4 (Early 2004), iBook G4 (14-inch Early 2004), eMac (USB 2.0), Power Mac G5, Power Mac G5 (June 2004 Series), Power Mac G5 (Late 2004), Power Mac G5 (Early 2005), iMac G5, iBook G4 (12-inch Late 2004), iBook G4 (14-inch Late 2004), Mac mini, and iMac G5 w/ALS (Ambient Light Sensor).

What's Changed

v2.5.7

Added support for
iMac G5 w/ALS (Ambient Light Sensor)

v2.5.6

Improved PMU test code.
Added support for Power Mac G5 (Early 2005).
Slight modifications to Thermal Calibration.

v2.5.5

Updated diagnostic to fix a problem with the PMU v24 on Mac mini. Also, doing a software update will install PMU v27 and resolve same issue.
Replaces v2.5.4

v2.5.4

Adds support for PowerBook G4 (17-inch 1.67GHz), PowerBook G4 (15-inch 1.67/1.5GHz) and PowerBook G4 (12-inch 1.5GHz).
Replaces v2.5.3

v2.5.3

Adds support for Mac mini.
All Open GL tests and modem tests restored on Power Mac G5 (June 2004 Series) and PowerBooks.
Replaces v2.5.2

v2.5.2

Removed OS Open GL/Display tests for Power Mac G5 (June 2004 Series).

v2.5.1

Combined supported products for v2.5 and v2.4.4 into 2.5.1.

v2.5

Moved to new version to support iMac G5.

If you suspect your computer has a hardware problem, the information provided by Apple Service Diagnostic can help identify the problem. If Apple Service Diagnostic detects a problem, an error will be displayed. Please make a note of the error before proceeding further. If no hardware failure is detected, the problem may be software related.

Known issues

When running ASD FireWire tests on an eMac (USB 2.0) you may get a "Memory is not mapped" error after many looping iterations. This is a false error and should be ignored. This error is related to the system boot rom and not ASD.

On some PowerBook G4s the cursor may seem sluggish when using the trackpad while running Open Firmware (OF) tests. Use a mouse attached to the USB port for normal cursor response.

While testing the Video RAM (Apple Service Diagnostic (OF) only) the screen display may appear blank or appear to be turned off for extended periods of time depending on how much Video RAM is installed. This is normal.

If you get a "bad checksum error" while running Display Tests on Power Mac G5, this indicates the test is not valid for this machine and should not be considered as a failure.

If video failures occur when testing with multiple video monitors, disregard failure and only test with one monitor connected.

Recommendations

Apple Service Diagnostic is one of several tools and procedures you can use when your Macintosh is having trouble. Here are some steps you can follow to help resolve problems. Please back up your data before performing any of these steps.

1. Turn the computer off and on.

You can often eliminate problems by selecting the "Shut Down" option from the Apple () menu to fully shut down the CPU, then restart your system.

2. Check cables, peripherals, and user controls.

Shut down your computer. Then disconnect and reconnect all cables. Disconnect all peripherals (such as printers, scanners, cameras and external mass storage devices) to see if they are causing conflicts with your system. Adjust user controls on your monitors and other peripherals to see if this helps.

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