

Diagnostic LED Table

LED	Description	Color When On	Expected Condition	LED "On" Indicates	Things to Check	Next Steps
No 1	CPU A	Red	Off	CPU A improperly installed	Is processor assembly seated properly? Check that mounting screws are properly tightened.	Remove processor assembly and check for damaged pins on processor connector or logic board connector. Replace processor, if necessary. Replace logic board, if necessary.
No 2	Overtemp LED	Red	Off	CPU has gone overtemp	Check that space is allowed for fans to ventilate. Verify fans and sensors are connected.	Reseat front inlet fan. Run Thermal Calibration in Apple Service Diagnostics. Replace processor.
No 3	Power On	Red	On (with air deflector open)	Main power OK and within regulation	Check connections to the power bus bar.	Check operation of the air deflector sensor. Replace power supply.
No 4	Trickle Power	Yellow	On (with unit plugged into AC power and air deflector open)	AC power OK	Check for AC power at the wall outlet; try another outlet.	Check operation of the air deflector sensor. Replace power supply.
No 5	Open Firmware Good	Green	On (with air deflector open)	CPU arrived at Open Firmware (logic board is OK)	Reset SMU. Check for RAM errors.	Check operation of the air deflector sensor. Replace processor. Replace logic board.
No 6	CPU B	Red	Off	CPU B improperly installed (LED 6 only present on Quad)	Is processor assembly seated properly? Check that mounting screws are properly tightened.	Remove processor assembly and check for damaged pins on processor connector or logic board connector. Replace processor, if necessary. Replace logic board, if necessary.
No 7	Checkstop	Red	Off (LED flashes once at startup and then goes off)	CPU hang	Check RAM. Is processor assembly seated properly? Check that mounting screws are properly tightened.	Remove processor assembly and check for damaged pins on processor connector or logic board connector. Replace processor, if necessary. Replace logic board, if necessary.

Notes for LED Table

- Power Mac G5 (Late 2005 Dual 2.0/2.3 GHz) logic boards include LEDs 1–5 and LED 7, but not LED 6. Power Mac G5 (Late 2005 Quad) logic boards include LEDs 1–7.
- CPU A is located closest to the PCI Express slots; CPU B is located below CPU A (closer to the power supply). Make sure CPU screws are tight.
- LEDs 3, 4, and 5 operate differently from the other LEDs. They remain off until you remove the air deflector (clear door inside the side access panel), at which point they should go on. If LED 3, 4, or 5 is on before you remove the air deflector, check the operation of the air deflector sensor. Note that the fans will run at high speed while the air deflector is removed.
- LED 5 verifies that Open Firmware has loaded. To allow time for it to load, be sure to wait at least one minute from first power up before you check this LED.
- Some logic boards have two additional LEDs: one located near the bottom edge of the logic board and the other to the right of the top bank of DIMM slots. These LEDs were used only during manufacturing and should be ignored.