



# Tech Info Library

## Macintosh Family: Batteries & Part Numbers (2/97)

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### TOPIC -----

- (1) Why do Macintosh computers have an internal battery?
- (2) How long does this battery usually last?
- (3) The battery in my Macintosh has a date stamped on it. Is this the manufacture or expiration date?
- (4) What are the symptoms of a dead battery?
- (5) How do I replace the battery when it goes dead?
- (6) What kind of battery is the internal battery?
- (7) What are the part numbers for the batteries in various Macintosh models?

### DISCUSSION -----

- (1) Why do Macintosh computers have an internal battery?

Macintosh computers contain a battery in order to maintain certain internal settings even when the computer is turned off. These settings include things such as the date & time, the AppleTalk on/off setting, and the color on/off setting. These settings are stored in a special part of memory called PRAM (parameter RAM).

- (2) How long does this battery usually last?

We believe that a battery should last UP TO five years after you receive your Macintosh. This does NOT mean that we expect every battery to last this long. Note that the battery may fail sooner, depending upon its shelf life, power usage patterns, and the individual battery inside your computer.

- (3) The battery in my Macintosh has a date stamped on it. Is this the manufacture or expiration date?

It is the manufacture date.

(4) What are the symptoms of a dead battery?

When the Macintosh will not retain PRAM settings (such as the date/time) after it has been turned off, this generally indicates a dead battery.

(5) How do I replace the battery when it goes dead?

Apple recommends dealer installation of a new battery. Apple does not sell service parts such as batteries directly to end users. A battery can explode if installed in the wrong position. Finally, Apple-authorized service providers will return dead batteries to Apple for safe disposal or recycling.

(6) What kind of battery is the internal battery?

It depends on the model of Macintosh. The batteries used in Macintosh computers are lithium or alkaline, and are commonly 3.6-4.5 volts.

(7) What are the part numbers for the batteries in various Macintosh models?

Begin\_Table

Macintosh Model	Battery Part Number
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Macintosh 128, 512K, 512Ke, Macintosh Plus	742-0003
equivalents:	
Eveready #523-BP	
Ray-O-Vac #RPX-21	
Duracell #PX-21	
Panasonic #PX-21	
Macintosh SE 800K, Macintosh II (with leads)	742-0009
Macintosh II with 600-0530 Battery Holder Board	742-0011
Macintosh SE FDHD (with leads)	742-0011
Macintosh Classic (4-chip and 2-chip)	742-0011
Macintosh SE/30, IIX, IICX, IICI, IIFX, IISI	742-0011
Macintosh IIVI, IIVX, Performa 600	742-0011
Macintosh LC, LC II, LC III, Performa 400 series	742-0011
Macintosh Quadra 605, LC 475, Performa 475, 476	742-0011
Macintosh LC 520, LC 550, Performa 550	742-0011*
Macintosh LC 575, Performa 575, 577, 578	922-0750
Macintosh Classic II, Color Classic, Performa 200	742-0011*
Macintosh 630 Family including Quadra, LC, Performa	922-0750
Macintosh Centris 610, 650, 660AV	742-0011
Macintosh Quadra 610, 660AV, 650, 700, 800, 840AV, 900, 950	742-0011
Power Macintosh and Performa 5200, 5300, 6200, 6300	922-0750

5400, and 6400 series computers

Power Macintosh 6100/60, 6100/66, 7100/66, 8100/80	742-0011
Power Macintosh 7100/80, 8100/100, 8100/110, 7200 series, 7500 series, 7600 series, 8500 series, and 9500 series	922-1262

\* Logic boards of the Color Classic, Macintosh LC 520, and the LC/Performa 550 have been revised and use a new battery, part number 922-0750. Your service provider will be able to determine which battery should be used.

Portable and PowerBook computers

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For the system batteries listed below, readings of less than 5.4 Volts indicate sulfated (irreparably damaged) batteries for the Portable and PowerBook 100 batteries.

The Nickel Cadmium Batteries in the PowerBook 140, 145, 160, 165c, 170 and 180 computers, the Nickel Metal Hydride batteries in the PowerBook Duo, 500, 190, 5300 and 1400 computers and the Lithium Ion batteries in the PowerBook 3400 can usually be recharged even from a deep discharge.

Portable/PowerBook Model	Battery Part Number
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Portable, Backlit Portable System Battery	076-0376
Portable, Backlit Portable Backup Battery	9 Volt Alkaline
PowerBook 100 System Battery	661-0782
PowerBook 100 Backup Batteries	CR-2430 (qty 3)
PowerBook 140, 145, 170 System Battery	661-0754
PowerBook 140, 145, 170 Backup Battery	661-0724 (attached to board)
PowerBook 150 System Battery	661-0013
PowerBook 150 Backup Battery	661-0190 (attached to interconnect board)
PowerBook 160, 180 System Battery	661-0789
PowerBook 160, 180 Backup Battery	661-0750 (attached to board)
PowerBook 165c System Battery	661-0013
PowerBook 165c Backup Battery	661-0764 (attached to board)
PowerBook 180c System Battery	661-0013
PowerBook 180c Backup Battery	661-0685 (attached to interconnect board)
PowerBook 190 series* System Battery	661-1028
PowerBook 190 series Backup Battery	922-1418

PowerBook Duo 200 series* System Battery	661-0053
PowerBook Duo 200 series Backup Battery	630-6546
PowerBook 500 series* System Battery	661-0055
PowerBook 500 series Backup Battery	922-0786
PowerBook 1400 series* System Battery	922-2420
PowerBook 1400 series Backup Battery	922-2429
PowerBook Duo 2000 series* System Battery	661-0053
PowerBook Duo 2000 series Backup Battery	630-6546
PowerBook 3400 series* System Battery	922-2471
PowerBook 3400 series Backup Battery	922-2692
PowerBook 5300 series* System Battery	661-1028
PowerBook 5300 series Backup Battery	922-1418

End\_Table

\* PowerBook Series

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PowerBook 190 series includes the following models: PowerBook 190 and 190cs.

PowerBook (Duo) 200 series includes the following models: PowerBook Duo 210, 230, 250, 270c, 280, and 280c.

PowerBook 500 series includes the following models: PowerBook 520, 520c, 540, 540c, and 550 (550 sold in Japan only).

PowerBook 1400 series includes the following models: PowerBook 1400c and 1400cs.

PowerBook 2000 series includes the following model: PowerBook 2300c.

PowerBook 3400 series includes the following model: PowerBook 3400c.

PowerBook 5300 series includes the following models: PowerBook 5300, 5300c, 5300ce, and 5300cs.

Article Change History:

20 Feb 1997 - Added new PowerBook model and PowerBook series descriptions.

12 Nov 1996 - Corrected 660AV name.

30 Oct 1996 - Added 660AV and 840AV.

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