



# Tech Info Library

## PowerBook: Battery, Recharger & AC Adapter Identification (5/96)

Article Created: 2 September 1994

Article Reviewed/Updated: 16 May 1996

TOPIC -----

Is there a list of all PowerBook power adapters, batteries, and battery chargers and how to identify them?

DISCUSSION -----

Apple offers several AC adapters, batteries, and battery chargers for PowerBook computers. The information below will help to identify the various power adapters, batteries, and battery chargers.

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POWER ADAPTERS  
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PowerBook 100 Series  
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M5140  
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The first AC adapter, 15 watt, shipped with the PowerBook 100, 140, and 170. The tip can be damaged and cause the logic board to also be damaged. The symptom is that the machine does not run from the battery or start with the battery out of the unit, but works fine with the adapter plugged in.

M5651  
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The second AC adaptor, 19 watt, shipped with the PowerBook 145b, 160, 165, and 180. This adapter works with the PowerBook 140, 145, 145b, 160, 165, 170, and 180. The tip has been revised to alleviate possible damage to the tip and logic board.

M5652  
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The third AC adapter, 24 watt; it is also identified with 24w on the AC adapter tip. This adapter ships with the PowerBook 165c and 180c, and works with the PowerBook 140, 145, 145b, 160, 165, 165c, 170, 180, and 180c.

APS-17adp

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The fourth AC adapter, 17 watt; ships with the PowerBook 150, and works with the PowerBook 100 or 150. If a PowerBook 100 needs to have the AC adapter replaced, it should be replaced with this one. AC adapters producing more than 19 watts can damage the PowerBook 100 and 150.

PowerBook 500 Series  
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M1910  
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AC adapter for Macintosh PowerBook 500 series computers.

PowerBook 190 & 5300 Series  
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M3747  
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AC adapter for Macintosh PowerBook 5300 and 190 series computers.

PowerBook (Duo) 200 & 2300 Series  
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M7783 (Duo Adapter)  
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The first Duo AC adapter shipped with the Duo 210, 230, and 250. This adapter produces 1 amp.

M2693 (Duo Adapter)  
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The second Duo AC adapter shipped with the Duo 270c, 280, and 280c. This adapter produces 1.5 amp.

M4174 (Duo Adapter)  
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The third Duo AC adapter shipped with the Duo 2300c.

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BATTERIES  
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PowerBook 100 Series  
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M3053  
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A lead acid battery, which only works with the PowerBook 100.

M5417  
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A 2.5 amp battery; which shipped with the PowerBook 140, 145, 150, and 170. This battery works with the PowerBook 140, 145, 145b, 160\*, 165\*, 165c\*, 170, 180\*,

and 180c\*.

NOTE: While this battery works with the preceding PowerBook computers that are marked with an asterisk (\*), Apple does not recommend using this battery with these computers due to short battery life.

M5653

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A 2.8 amp battery; shipped with the PowerBook 160 and 180, and works with the PowerBook 140, 145b, 150, 160, 165, 165c, 170, and 180c.

M5654

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A 2.9 amp battery; shipped with the PowerBook 165c and 180c, and works with the PowerBook 140, 145b, 150, 160, 165, 165c, 170, and 180c. This battery provides the most battery life of all Apple Nickel Cadmium (NiCad) batteries.

PowerBook 500 Series

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M1908

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The Nickel Metal Hydride (NiHM) battery for the PowerBook 500 series.

PowerBook 190 & 5300 Series

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M3254

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The Nickel Metal Hydride (NiHM) for the PowerBook 190 and 5300 series computers.

PowerBook (Duo) 200 & 2300 Series

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M7782

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A Duo Type I battery, which shipped with the PowerBook Duo 210/230. The battery door could interfere with proper seating of the battery. The door must be in a locked position when inserted in the Duo. The battery works in newer Duo computers, but because this battery provides less power, battery life is greatly diminished when used in newer PowerBook Duos. This battery works with PowerBook Duo Enabler 201.

M1499

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A Duo Type II battery shipped with the PowerBook Duo 250, 270c, and 280. This battery has a High Capacity Type II logo, twice the battery life of a Type I battery. A new battery charger was required to charge these and newer batteries. The Type II battery requires PowerBook Duo Enabler 1.0.

NOTE: If an Express Modem is installed make sure the battery patch extension is installed.

M1499

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A Duo Type III battery, which shipped with the Duo 280 and 280c. This battery has 15% more power than the Type II and requires PowerBook Duo Enabler 2.0 if using system software 7.1.1 or greater. If you do not have system software 7.1.1, you should just install the Type III battery extension. The Type III extension is not required with the PowerBook Duo 2.0 enabler.

M2780

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PowerBook High-Capacity Duo Type III Rechargeable Battery that shipped with the Macintosh PowerBook (Duo) 2300c.

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BATTERY CHARGERS  
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PowerBook 100 Series

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M1027LL/A

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Use this model with the AC adapter that comes with the PowerBook. This charger works with the PowerBook 140, 145b, 150, 160, 165, 165c, 170, 180, and 180c.

M5130LL/A

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The battery charger for the PowerBook 100.

PowerBook 500 Series

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M1910

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Macintosh PowerBook 500 Series AC Adapter.

PowerBook 190 & 5300 Series

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M3747

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Macintosh PowerBook Power Adapter for 5300 and 190 series

PowerBook (Duo) 200 & 2300 Series

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M7778

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The first Duo battery charger. This charger only charges Type I batteries.

M1812

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The second Duo battery charger. This battery charger charges Type I, II, and III batteries.

M4178

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The third Duo battery charger. This battery charger charges Type I, II, and III batteries.

Article Change History:

16 May 1996 - Corrected minor typographical errors

22 Feb 1996 - Added part numbers for 500, 190, 5300, and 2300 series.

06 Mar 1995 - Added keyword; made several technical updates and clarifications.

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Keywords: kpbook,hts,kalley,2300

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19960520 07:24:26.00

Tech Info Library Article Number: 16168