



## Module Identification

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## CPU Batteries

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**PowerBook 100 Battery Assembly**

**661-0723**





## PowerBook 100 Battery Assembly

**661-0782**

Apple ships the battery in a protective case; you can return the battery to Apple without the protective case.





**PowerBook 140/145/145B/160/165/165c/170/180/180c  
Battery Assembly, 2.9 Amp**

**661-0013**



Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.





**PowerBook 140/145/145B/160/165/165c/170/180/180c  
Battery Assembly, 2.8 Amp**

**661-0789**



Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.



**PowerBook 140/145/170 Battery Assembly, 2.5 Amp****661-0754**

When you return P/N 661-0754, Apple ships you P/N 661-0789.

Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.





## PowerBook 140/170 Battery Assembly

**661-0721**



When you return P/N 661-0721, Apple ships you P/N 661-0789.





**PowerBook 150 Battery Assembly with Door**

**661-1656**

**Photo not Available**



**PowerBook 190 Series Battery, NiMH****661-1028**

NiMH batteries do not have a built-in battery gauge.

Return the battery **WITH** the contact cover in place covering the battery contacts.





**PowerBook 520/540 Series Battery****661-0055**

Return the battery  
WITH the contact cover  
in place and covering the  
battery contacts.



**PowerBook 5300 Series Battery, Lithium Ion****661-0939**

Lithium Ion batteries have a built-in battery gauge consisting of four LEDs and a button.

Return the battery WITH the contact cover in place covering the battery contacts.





# PowerBook Duo 210/230/250/270c NiMH Battery Assembly (with Door)

661-1735



When you return P/N 661-1735; Apple ships you P/N 661-0053.

The PowerBook 210/230/250/270c NiMH battery assembly has the number “2” on the battery label.

The battery locking button is built into the NiMH battery.





## PowerBook Duo Battery with Door, Type 3

**661-0053**

Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.





## CPU Logic Boards

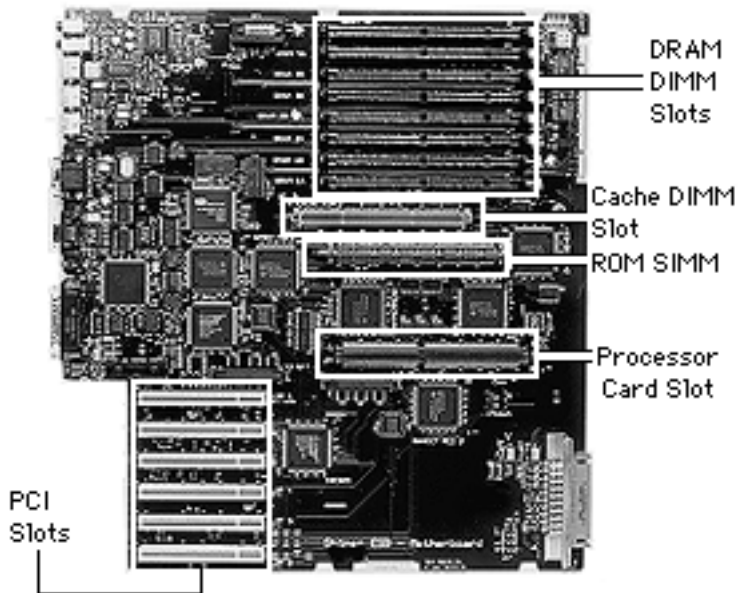
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## Apple Network Server 500/700 Logic Board

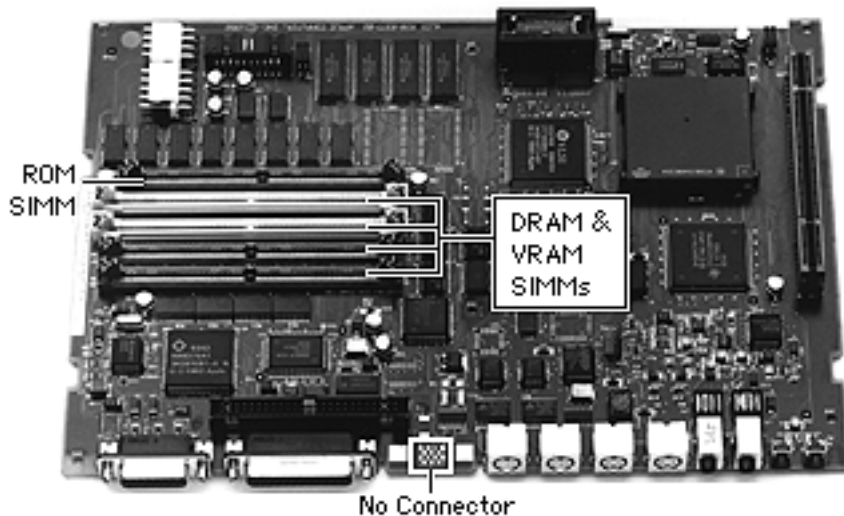
661-1125



Return this logic board without the following:  
Processor card, Processor card guides, DRAM DIMMs, Cache DIMM, and PCI cards.

**IMPORTANT:** Do not remove the ROM SIMM from the logic board.



**Centris 610 Logic Board****661-1681**

Return the Macintosh Centris 610 logic board without DRAM or VRAM SIMMs.

This logic board does not support Ethernet and can be identified by the vacant connector location indicated.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is

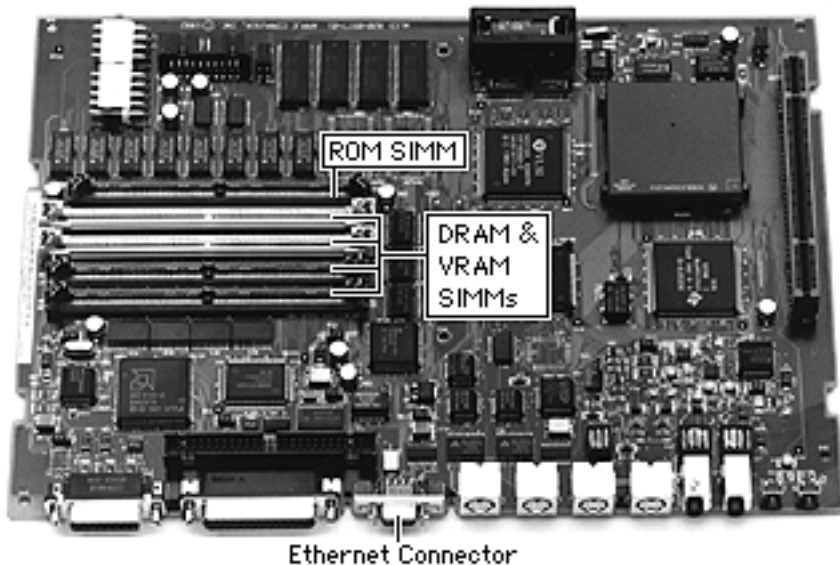




present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.





**Centris 610 Logic Board, with Ethernet****661-1682**

Return the Macintosh Centris 610 logic board without DRAM or VRAM SIMMs.

The logic board supports Ethernet and can be identified by the Ethernet connector indicated.

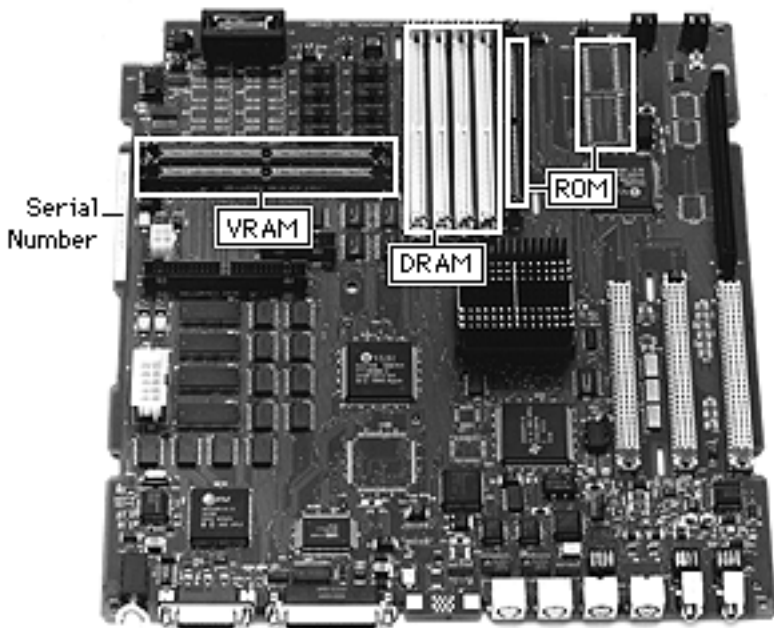
Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is





present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



**Centris 650 Logic Board, 4 MB****661-1675**

To identify the logic board, refer to the module serial number: The last five characters contain the code Z01.

Return the logic board without DRAM or VRAM SIMMs.

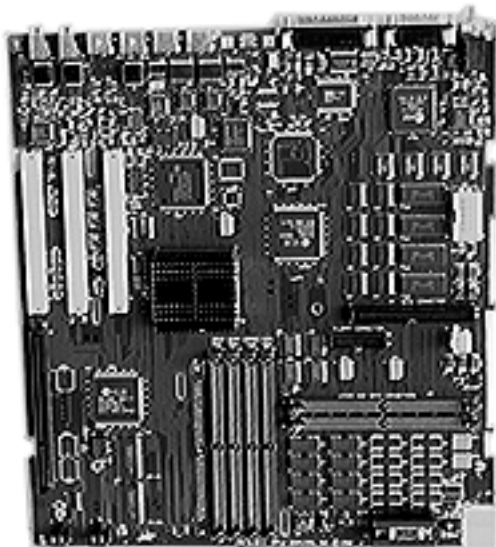
Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the





defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



**Centris 650 Logic Board, 4 MB, FPU****661-1679**

To identify the logic board, refer to the module serial number: the last five characters contain the code Z03.

Return the logic board without DRAM or VRAM SIMMs.

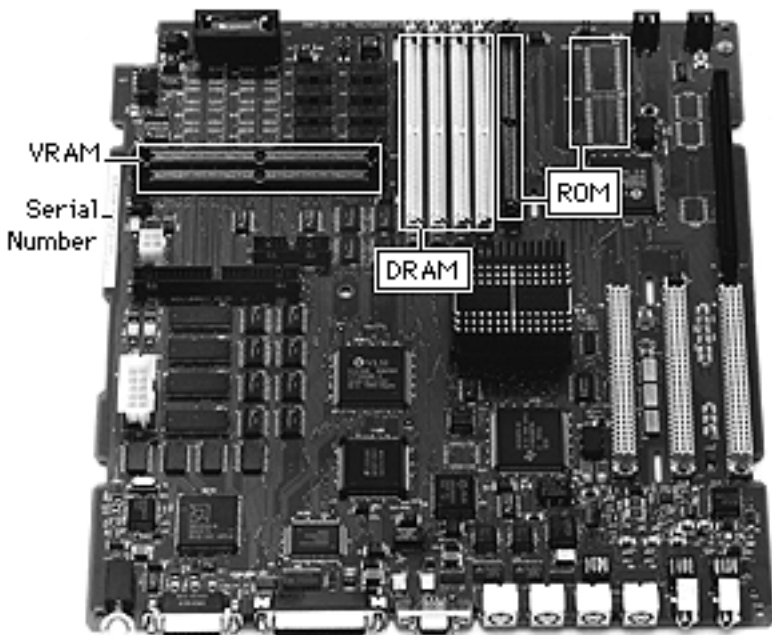
Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board.





If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



**Centris 650 Logic Board, 4 MB, FPU, with Ethernet****661-1677**

To identify the logic board, refer to the module serial number: The last five characters contain the code Z02.

Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board.

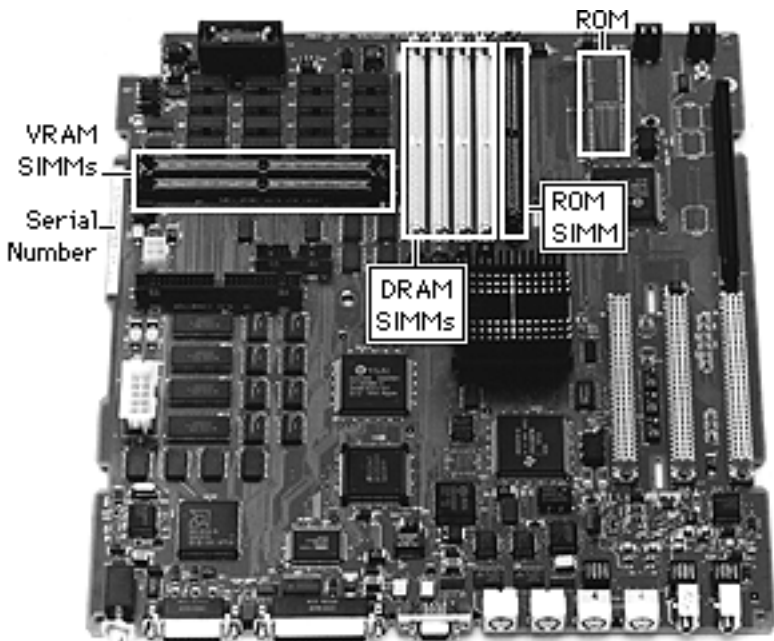




If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.





**Centris 650 Logic Board, 8 MB, FPU, with Ethernet****661-1678**

To identify the logic board, refer to the module serial number: The last five characters contain the code Z04.

Return the Macintosh Centris 650 logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is





present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



**Centris 660AV Logic Board****661-1704**

Return the Macintosh Centris 660AV logic board without DRAM SIMMs installed.

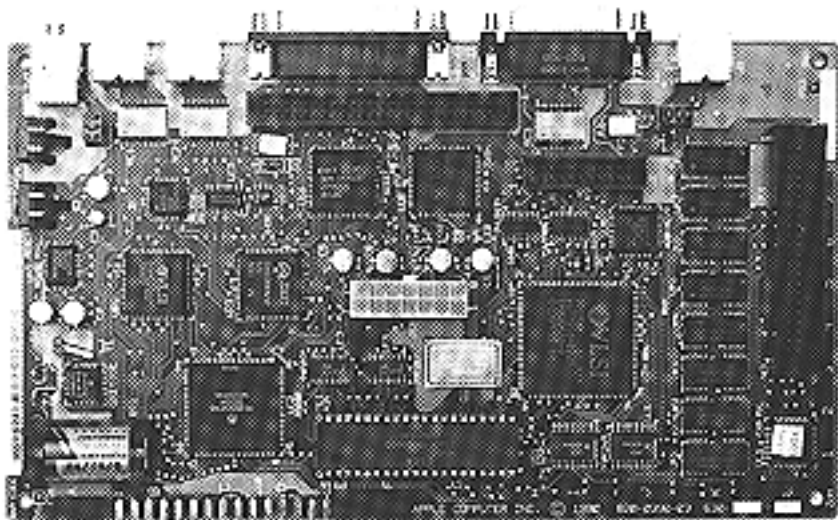
Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.





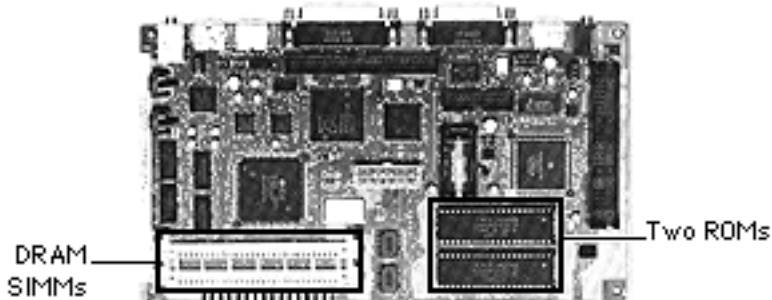
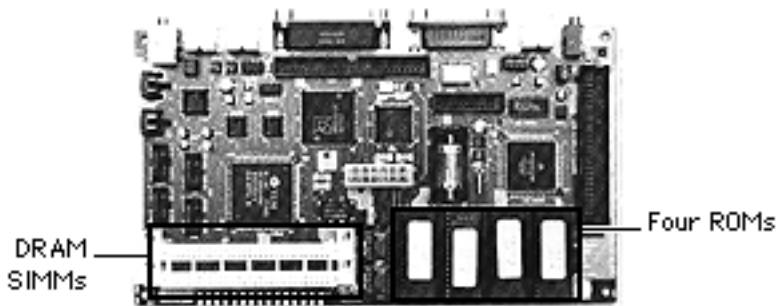
Classic Logic Board

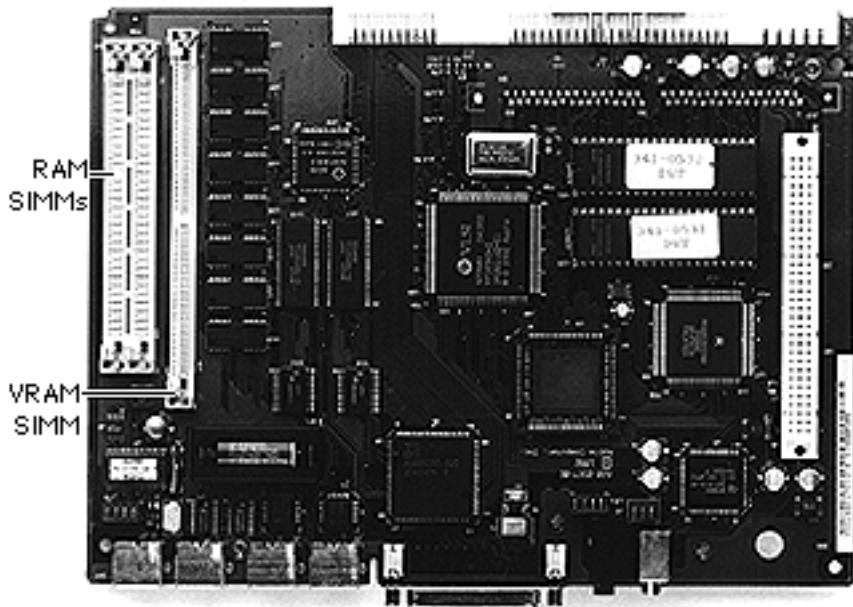
661-0596



**Classic II, Performa 200 Logic Board****661-0672**

Return the logic board  
without DRAM SIMMs.



**Color Classic Logic Board****661-0733**

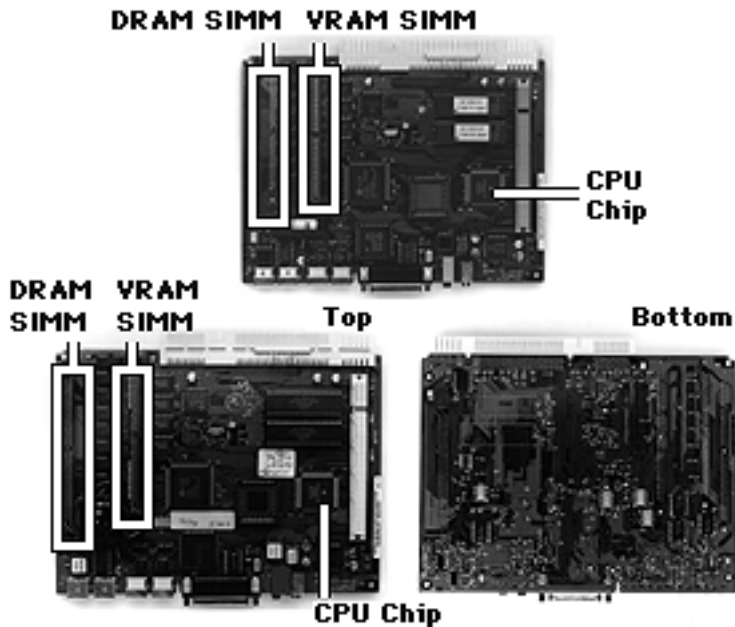
Return the Macintosh Color Classic logic board without RAM or VRAM SIMMs.





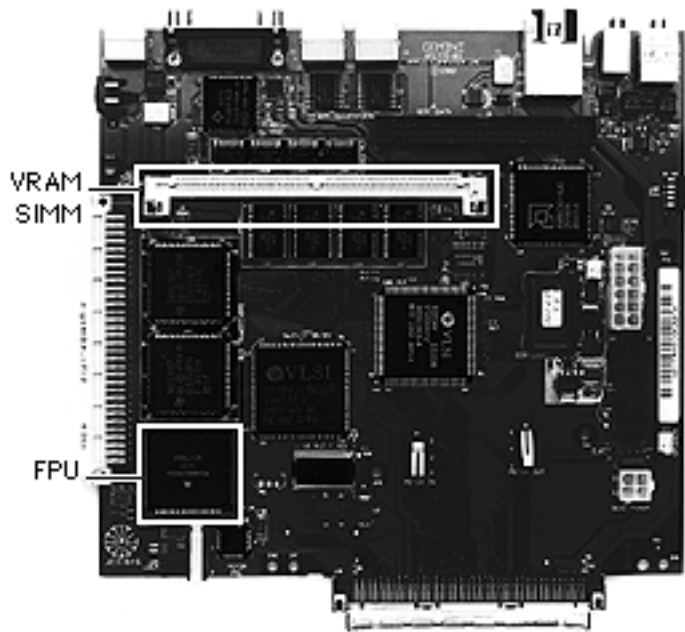
## Color Classic II, LC 520/550, Performa 550 Logic Board, 33 MHz

661-1830



The Macintosh LC 550 (661-1830) and LC 520 (661-0812) logic boards are similar. You can identify the LC 550 logic board by its CPU chip, which has MC68030FE33B printed on it, and by the absence of resistors on its underside (where the LC 520 board has two resistors R75 and R79.) Return the logic board without DRAM or VRAM SIMMs.



**DuoDock Logic Board****661-1657**

Return the Macintosh Duo Dock logic board without the VRAM SIMM.

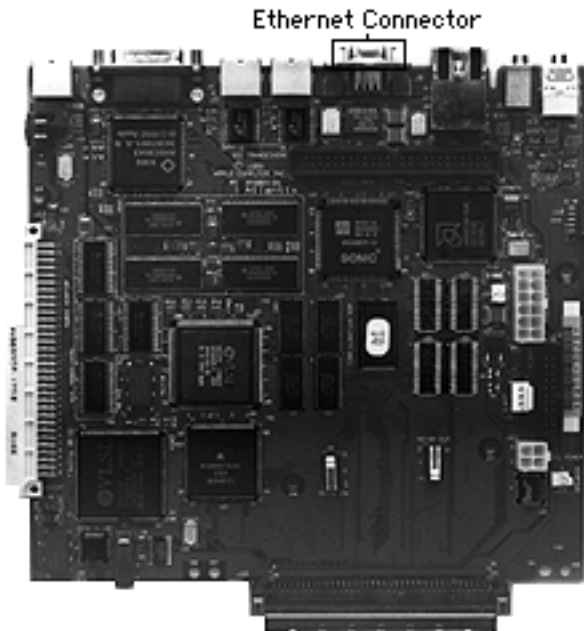
If the logic board contains an FPU upgrade, transfer the upgraded components to the customer's new logic board.







## DuoDock II Logic Board, Ethernet

**661-1707**

The Macintosh Duo Dock II logic board has an Ethernet connector. The Macintosh Duo Dock logic board does not.

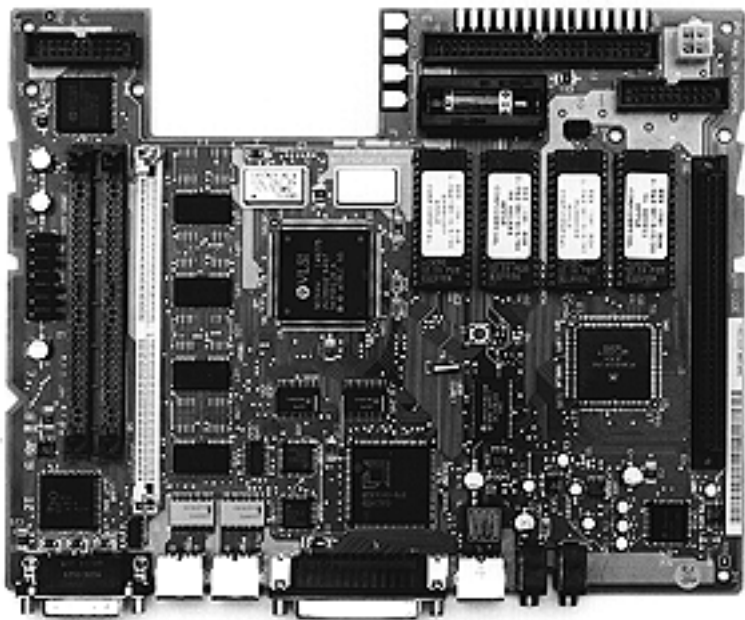
Includes FPU.

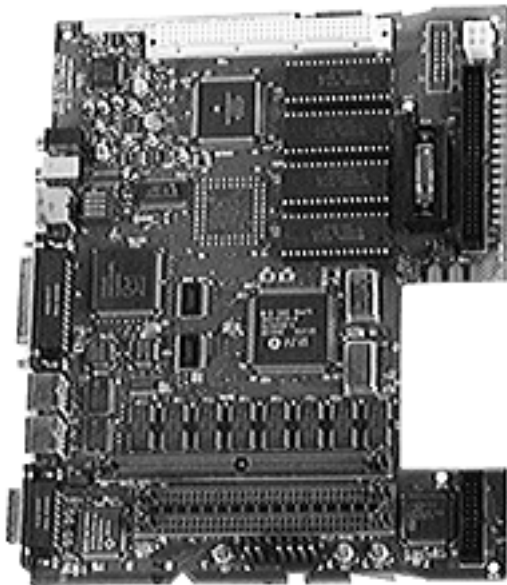




LC Logic Board

661-0593



**LC II Logic Board, 2 MB****661-0728**

The 2 MB version looks the same as the 4 MB version except that the 2 MB version has four DRAM ICs soldered in locations U12-U19 rather than eight DRAM ICs.

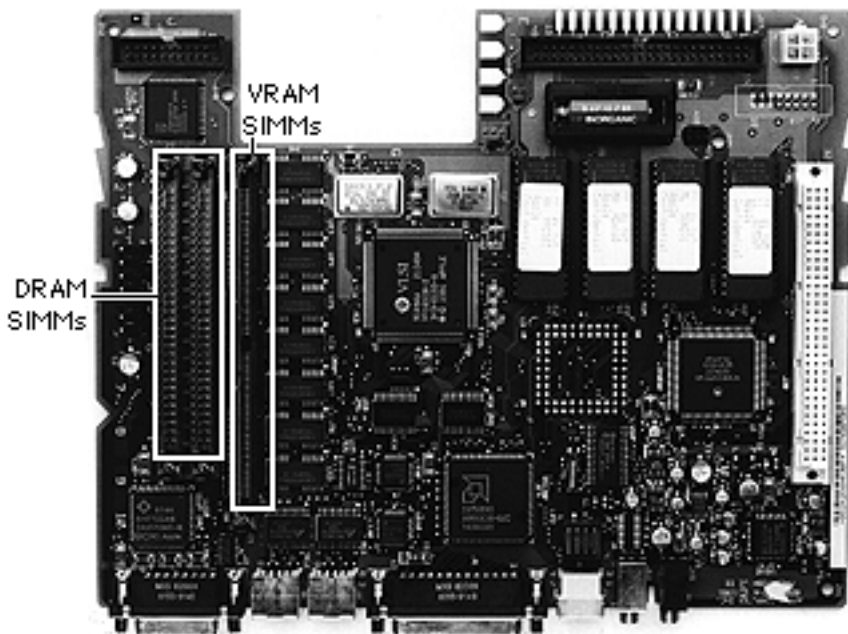
Return the Macintosh LC II logic board without RAM SIMMs or VRAM SIMMs.





## LC II, Performa 400/405/410/430 Logic Board

661-0729



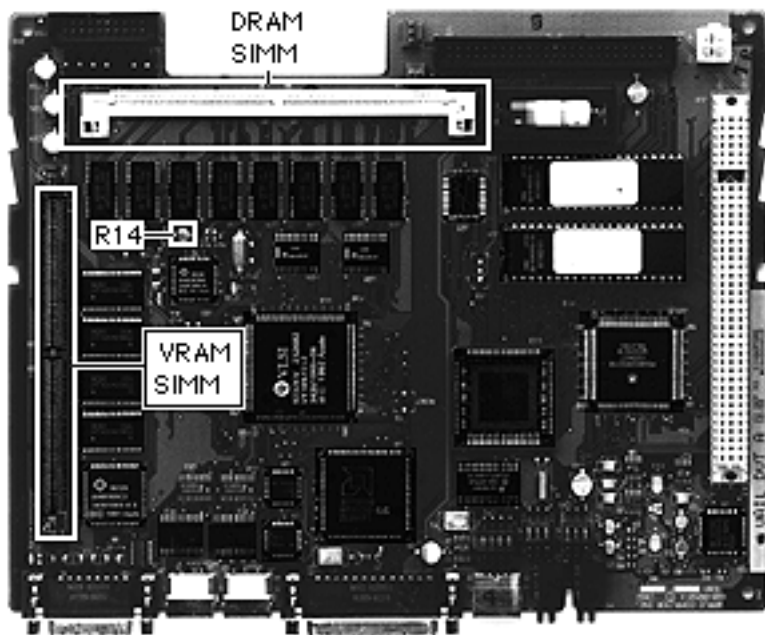
Return the logic board without DRAM or VRAM SIMMs.





## LC III, Performa 450 Logic Board, 25 MHz

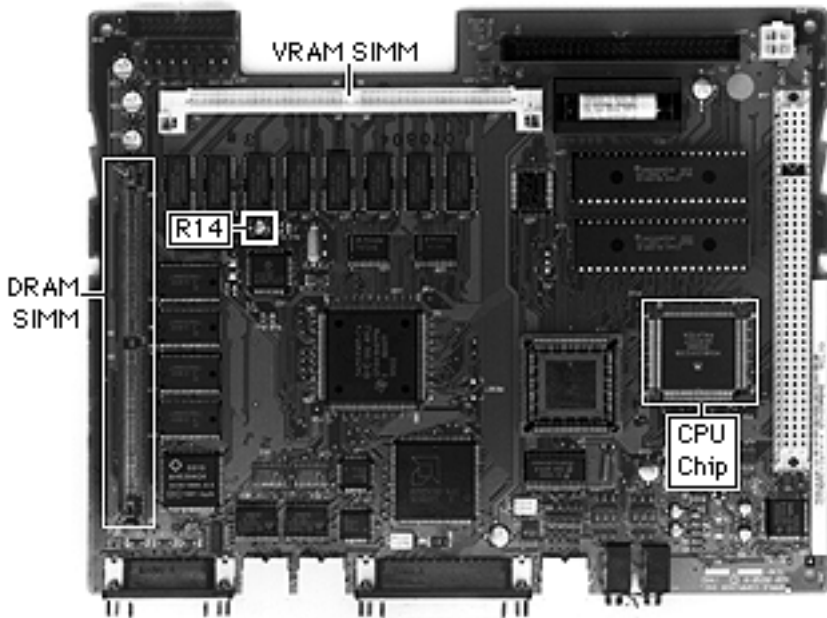
661-0720



The 2 MB version looks the same as the 4 MB version except that the 2 MB version has four DRAM ICs soldered in locations U12-U19 rather than eight DRAM ICs.

Return the Macintosh LC II logic board without RAM SIMMs or VRAM SIMMs.



**LC III, Performa 460/466/467 Logic Board, 33 MHz****661-1736**

Return the logic board without DRAM or VRAM SIMMs.

This logic board has the part number “MC68030FE33B” on the CPU chip.

The Macintosh LC III, Performa 460/466/467 (661-1736) and the Macintosh LC III, Performa 450 (661-0720) logic boards are similar.





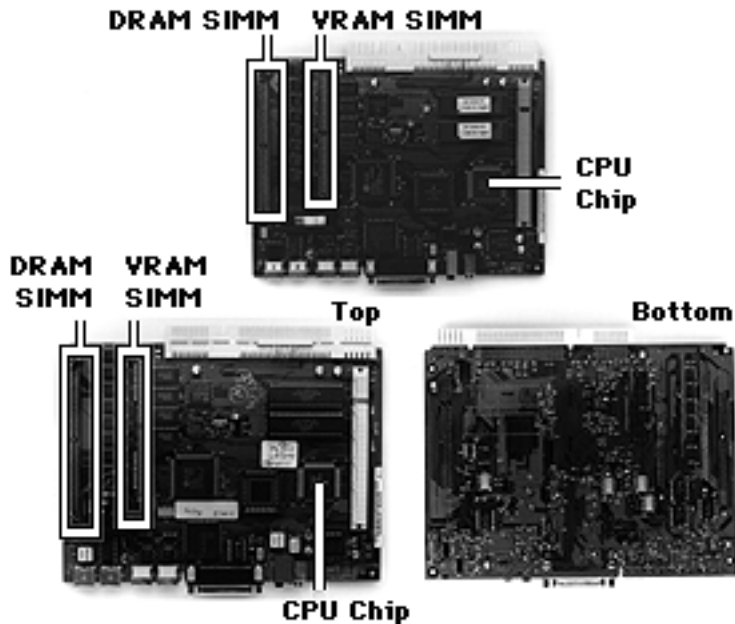
P/N 661-1736 has no resistor installed at location R14. If there is a resistor installed at location R14, return the board as P/N 661-0720.





## LC 520, Performa 500 Series Logic Board

661-0812



The Macintosh LC 520 (661-0812) and the Macintosh LC 550 (661-1830) logic boards are similar. You can identify this LC 520 logic board by the two resistors R75 and R79 located on the underside of the board. The LC 550 logic board does not have these resistors.

Return the logic board without DRAM or VRAM SIMMs.

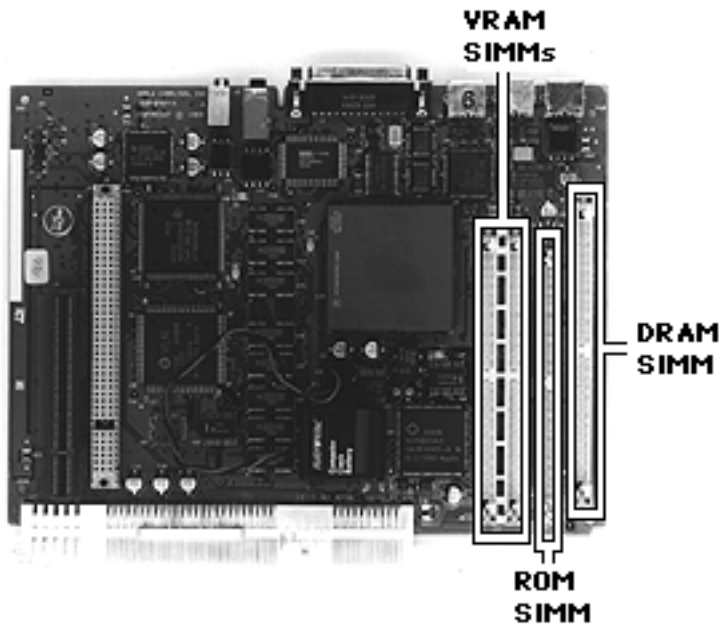






LC 575 Logic Board, 33 MHz

661-0867

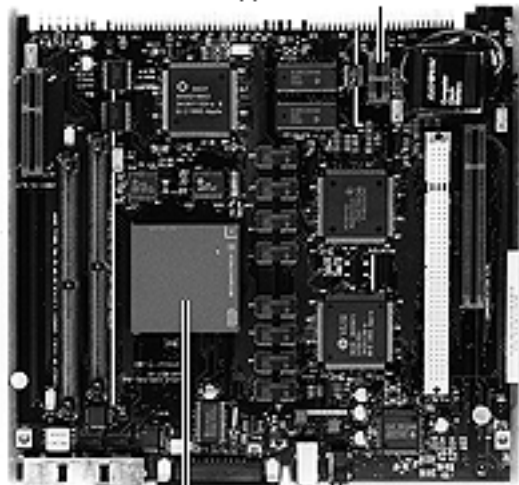




LC 580, Performa 580/631/640 CD, DOS-Compatible  
Logic Board, without FPU (Replaced by 661-1114)

661-0234

Apple Extended Video Connector



Microprocessor



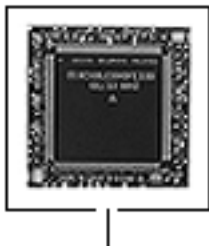
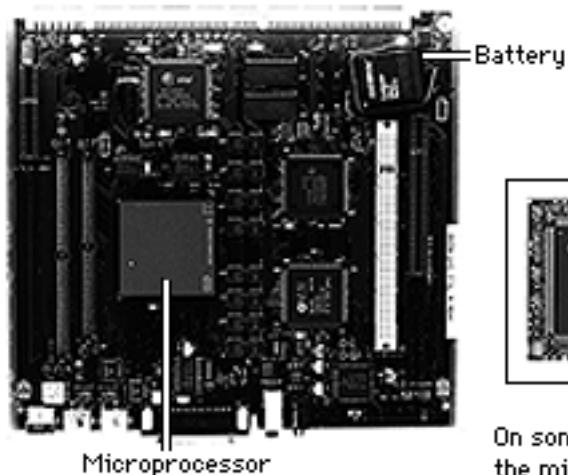
Some logic boards  
may have this  
microprocessor.





## LC 630, Performa 630 Series Logic Board, 1-72 Pin SIMM Slot

661-0158



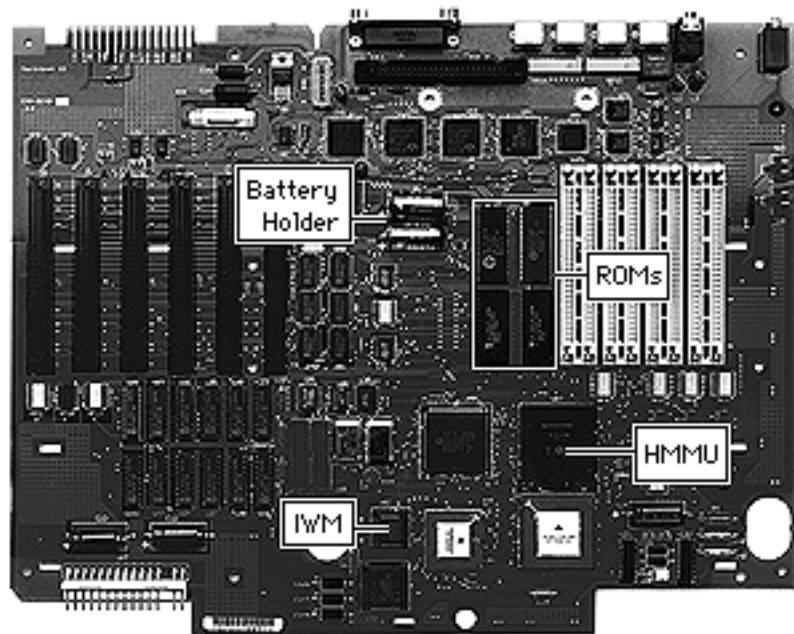
On some logic boards the microprocessor may be soldered to a small printed circuit board.

The logic board has a 68LC040 microprocessor in the location indicated.

Disconnect the battery before returning the logic board to Apple.

Return the logic board without DRAM SIMMs.



**Mac II Logic Board****661-0374**

When you return P/N 661-0374, Apple ships you P/N 661-0528.

Return the logic board with the four ROMs, the IWM chip, and the HMMU chip. Remove the RAM SIMMs, the on-off switch, and the EMI shield before returning the board to Apple.

For upgrades: If the Macintosh II logic board

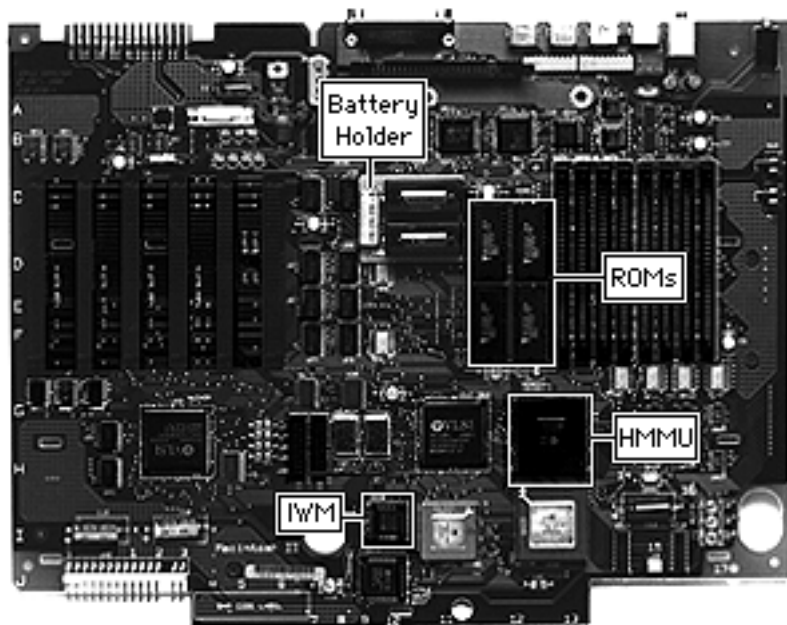




contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade (P/N 344S0062) which includes a SWIM chip and the four ROM chips (P/Ns 342-0639, 342-0640, 342-0641, and 342-0642), transfer the upgraded components onto the customer's new logic board. Install the displaced components on the failed logic board.

You can return the logic board with a battery holder board (as shown above) or with soldered bat



**Mac II Logic Board****661-0528**

Return the logic board with the four ROMs, the IWM chip, and the HMMU chip in place. Remove the RAM SIMMs, the on-off switch, and the EMI shield before returning the board to Apple.

For upgrades: If the Macintosh II logic board contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade

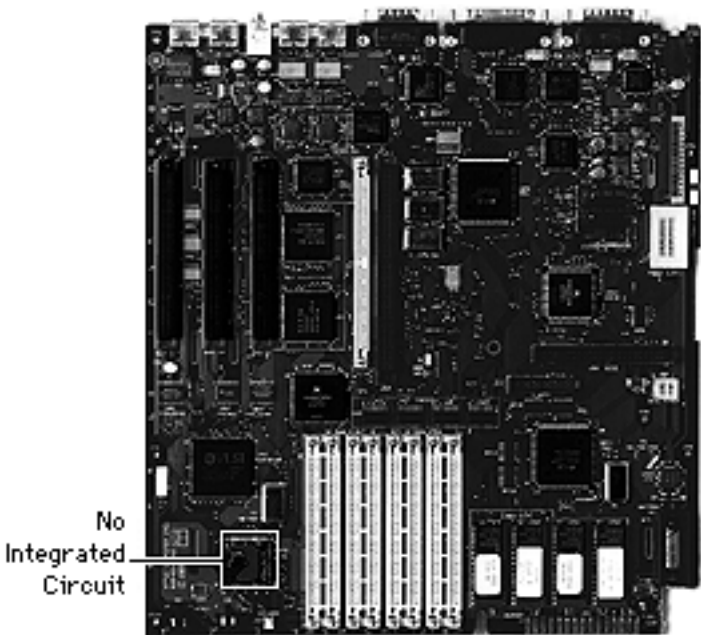




(P/N 344S0062), which includes a SWIM chip and four ROM chips (P/Ns 342-0639, 342-0640, 342-0641, and 342-0642), transfer the upgrade components onto the customer's new logic board. Install the displaced components on the defective logic board.

You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

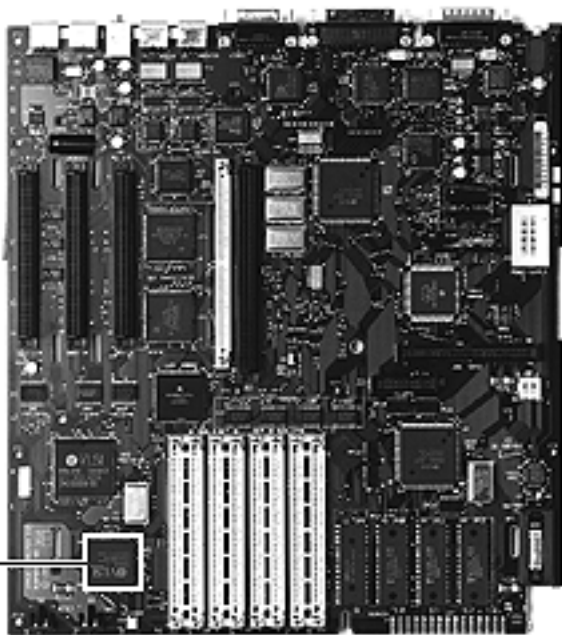


**Mac IICI Logic Board****661-0532**

You can distinguish this board from the parity logic board by the absence of an integrated circuit at the location indicated.

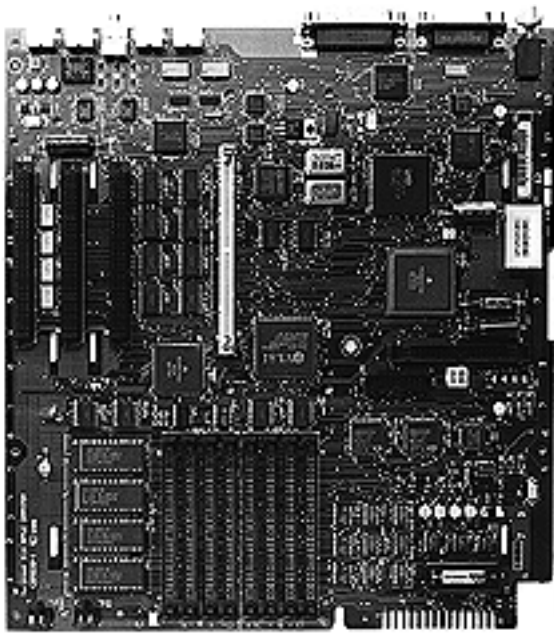




**Mac Ilci Logic Board, with Parity****661-0583**

You can distinguish this board from the nonparity logic board by the presence of an integrated circuit at the location indicated.

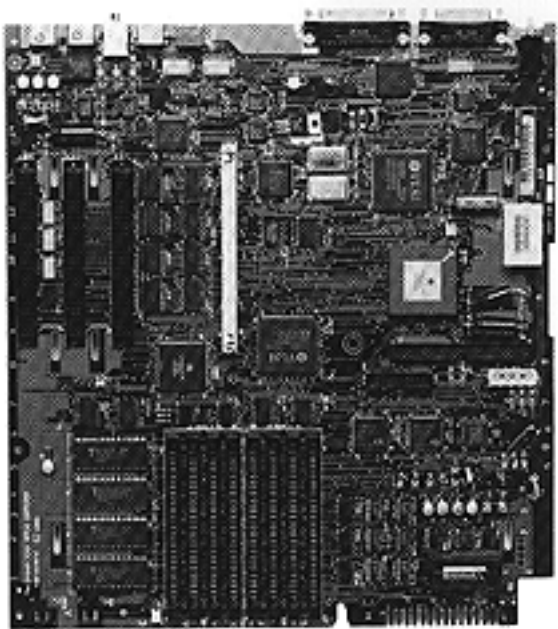


**Mac Ilcx Logic Board****661-0459**

When you return P/N 661-0459, Apple ships you P/N 661-0537.

Return the Macintosh Ilcx logic board without RAM SIMMs.



**Mac Ilcx Logic Board****661-0537**

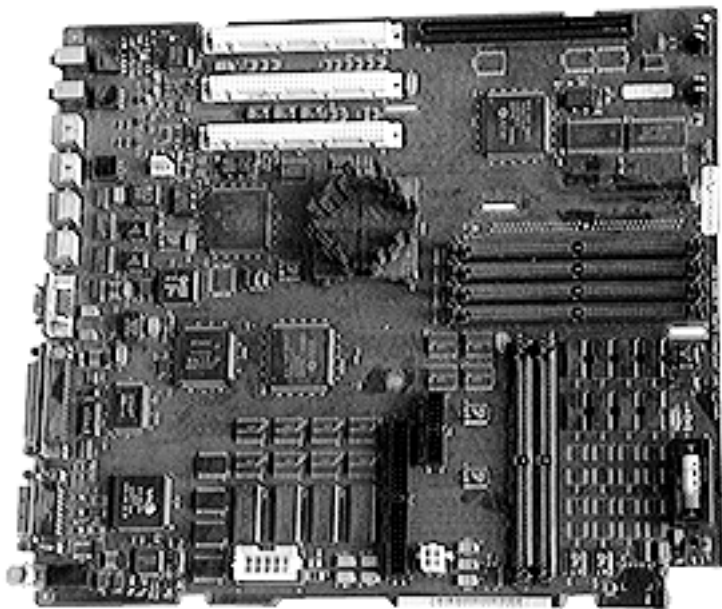
Return the Macintosh  
Ilcx logic board without  
RAM SIMMs.

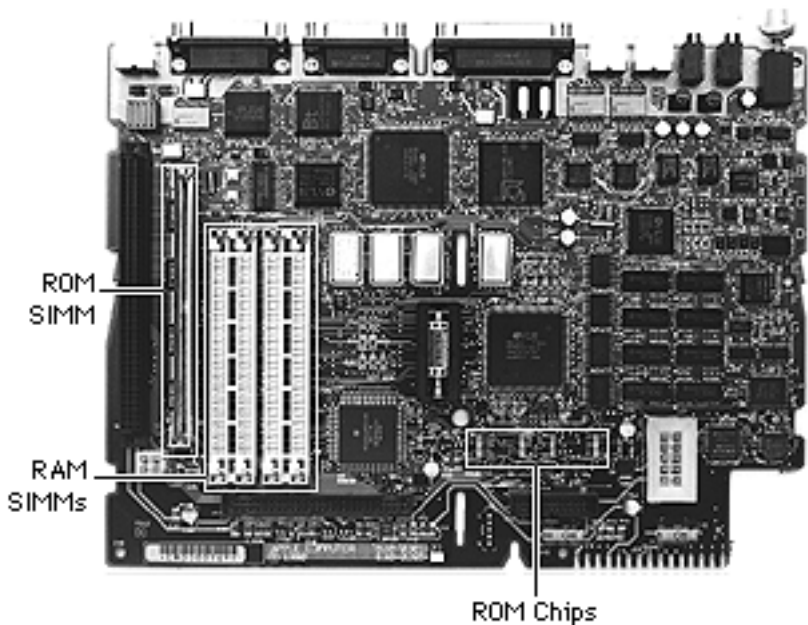




**Mac IIx Logic Board**

**661-0522**

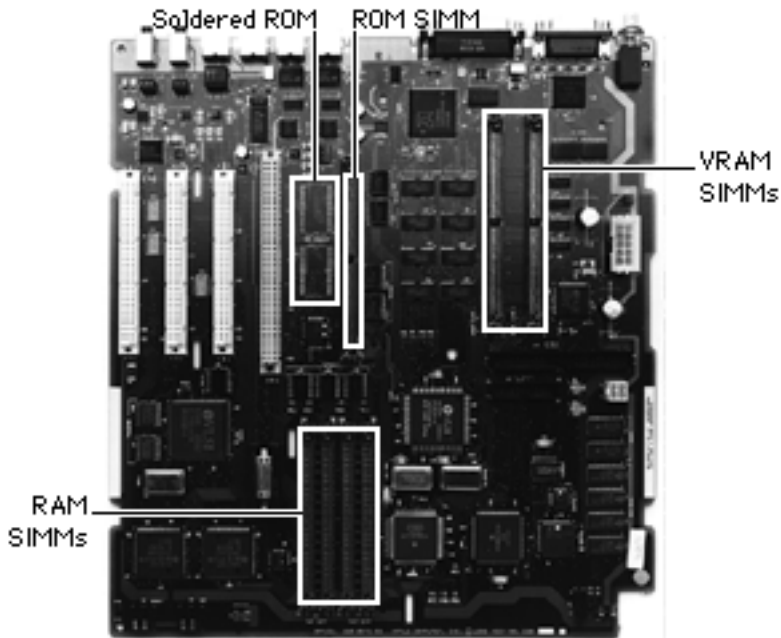


**Mac IIsi Logic Board****661-1615**

Return the Macintosh IIsi logic board without RAM SIMMs.

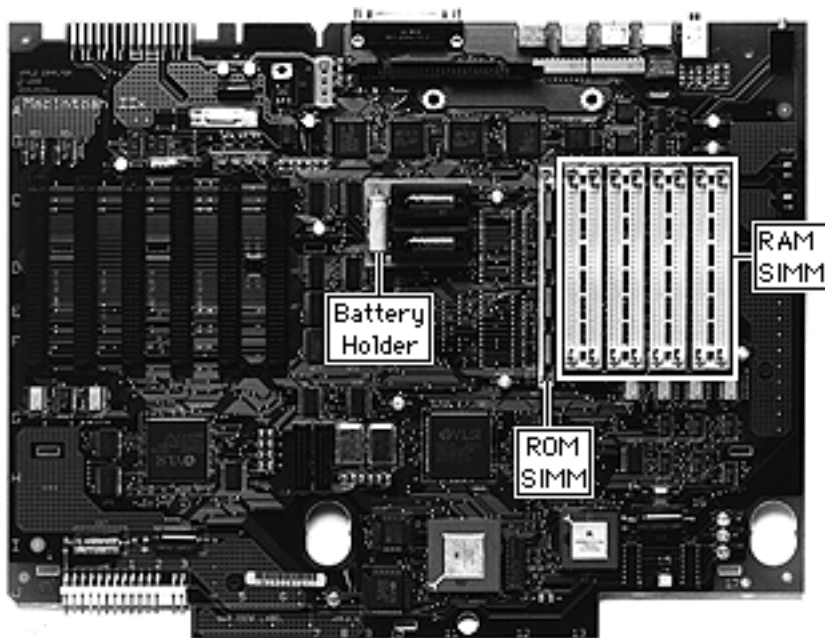
The logic board includes either a 64-pin ROM SIMM or two ROM chips. These ROM configurations are functionally identical. The ROM chips are soldered to the board. The ROM SIMM must remain on the board when you return the board to Apple.



**Mac IIvx Logic Board****661-0759**

Return the Macintosh IIvx logic board without RAM or VRAM SIMMs. If the ROM SIMM is present, it must be returned with the board.



**Mac Iix Logic Board****661-0529**

Remove RAM SIMMs, on-off switch, and EMI shield before returning the board to Apple. Leave the ROM SIMM in place.

You can return the logic board with a battery holder board or with soldered batteries.



**Mac Iix Logic Board****661-0463**

When you return P/N 661-0463, Apple ships you P/N 661-0529.

Remove the on-off switch, EMI shield, and RAM SIMMs before returning the board to Apple.

You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

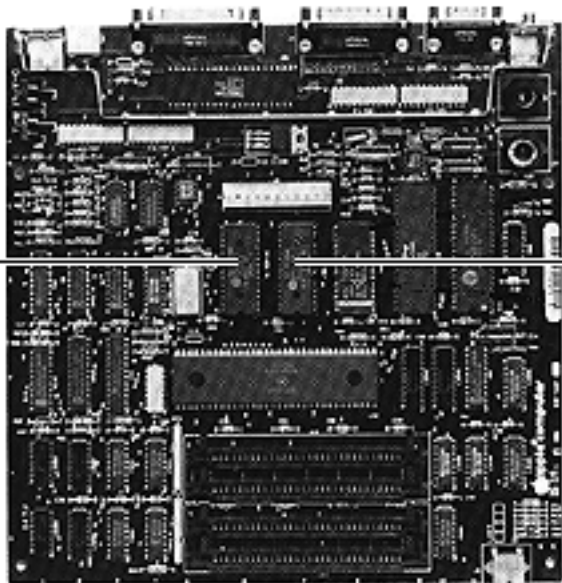






## Mac Plus Logic Board

661-0525



Return the Macintosh Plus logic board with **both** high and low boot ROMs installed. You must install the boot ROMs in the **correct version combinations**. The only acceptable combinations are:

**High-Boot ROM**

342-0341-A

342-0341-B

342-0341-C

**Low-Boot ROM**

342-0342-A

342-0342-A





342-0342-B

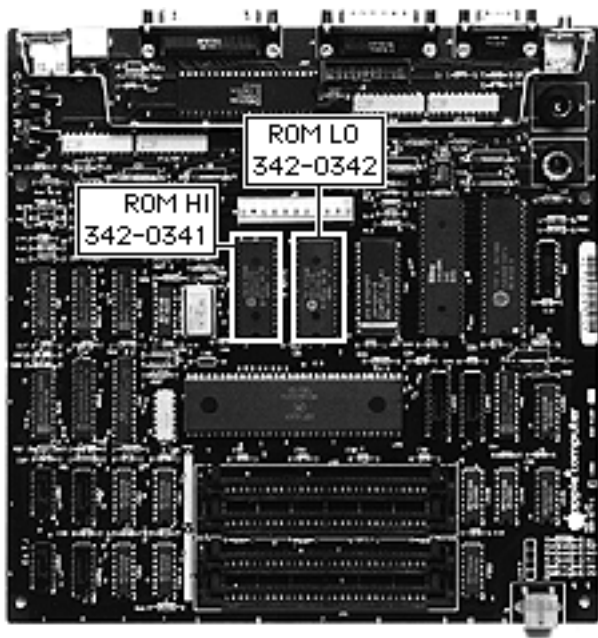
If either or both boot ROMs are missing, or if you install the ROMs with incorrect version combinations, the logic board is not acceptable. Return the Macintosh Plus logic board without RAM SIMMs.





## Mac Plus Logic Board

661-0321



When you return P/N 661-0321, Apple ships you P/N 661-0525.

Return the Macintosh Plus logic board with **both** high and low boot ROMs installed. You must install the boot ROMs in the **correct version combinations**. The only acceptable combinations are:  
**High-Boot ROM**  
342-0341-A





342-0341-B

342-0341-C

**Low-Boot ROM**

342-0342-A

342-0342-A

342-0342-B

If either or both boot ROMs are missing, or if you install the ROMs in incorrect version combinations, the logic board is not acceptable.

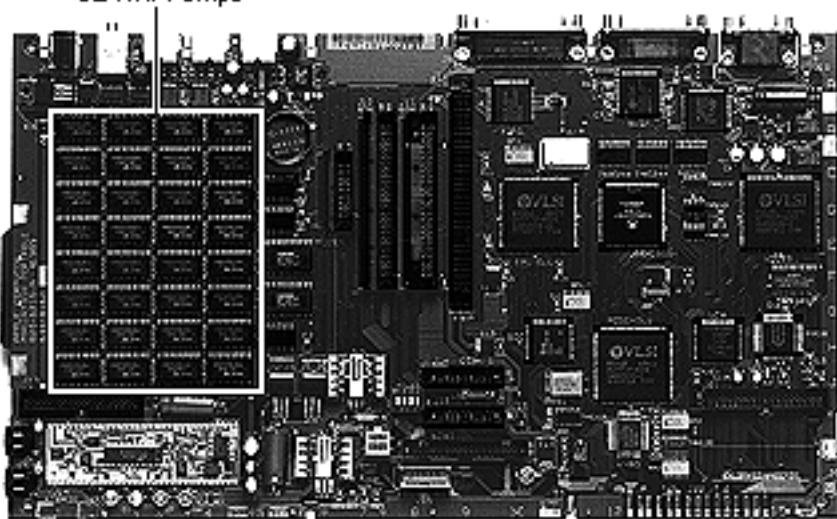
Return the Macintosh Plus logic board without RAM SIMMs.



**Mac Portable Logic Board****661-0470**

This board has 32 RAM chips.

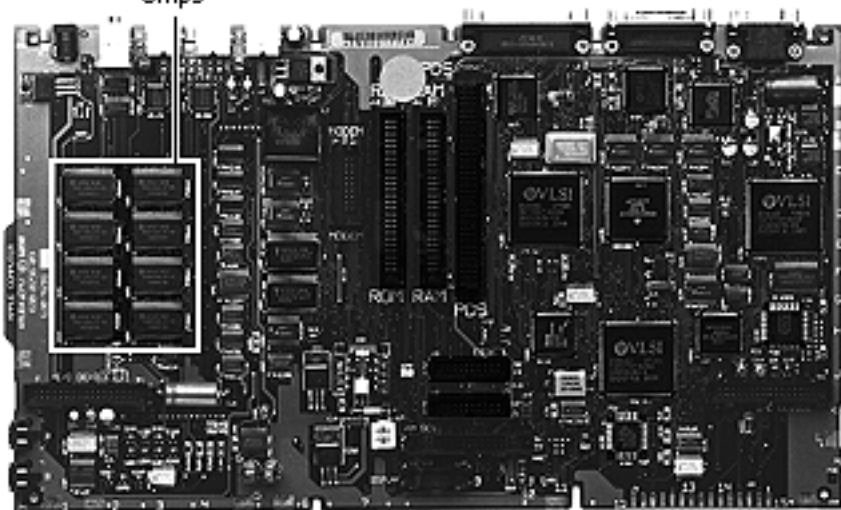
32 RAM Chips





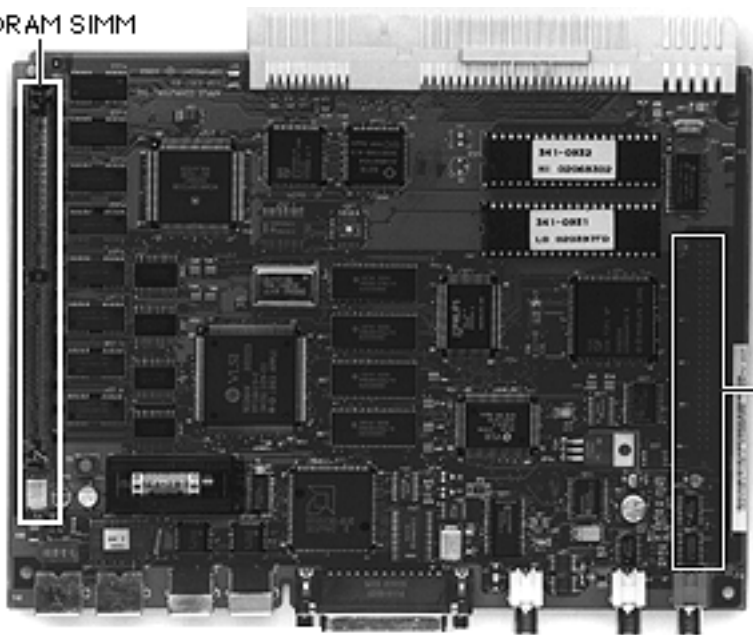
## Mac Portable Logic Board, PSRAM

661-1610

8 RAM  
Chips

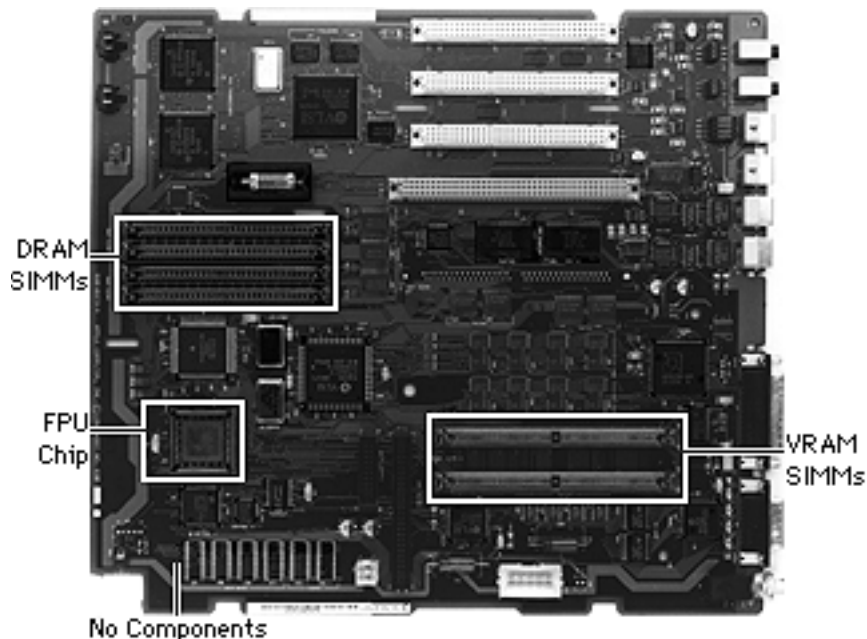
**Mac TV Logic Board****661-1724**

DRAM SIMM

Tuner  
PCB

Remove the DRAM SIMMs, VRAM SIMMs and tuner printed circuit board before returning the logic board.



**Performa 600 Logic Board****661-0761**

Return the logic board without DRAM or VRAM SIMMs.

The Performa 600 logic board does not have components in the location indicated.

If the Performa 600 logic board has an FPU chip, move it to the replacement board.







**Performa 6320 Logic Board, 120 Mhz**

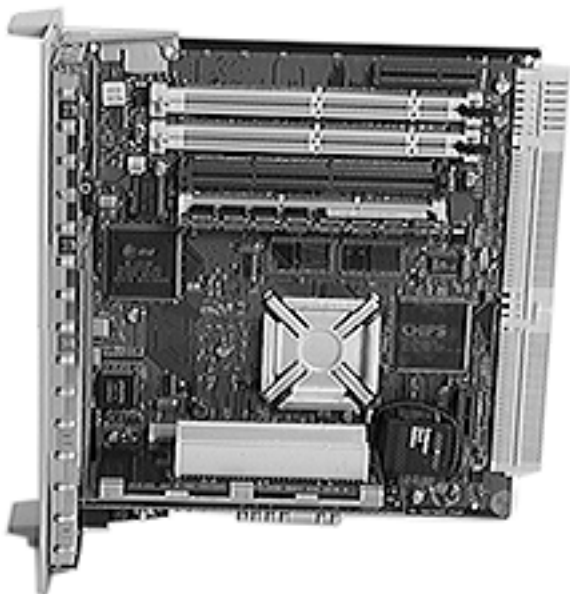
**661-1175**





**Performa/PM 6400 Series Logic Board, 603ev, 8mb, 180Mhz  
(Replaced by 661-1199)**

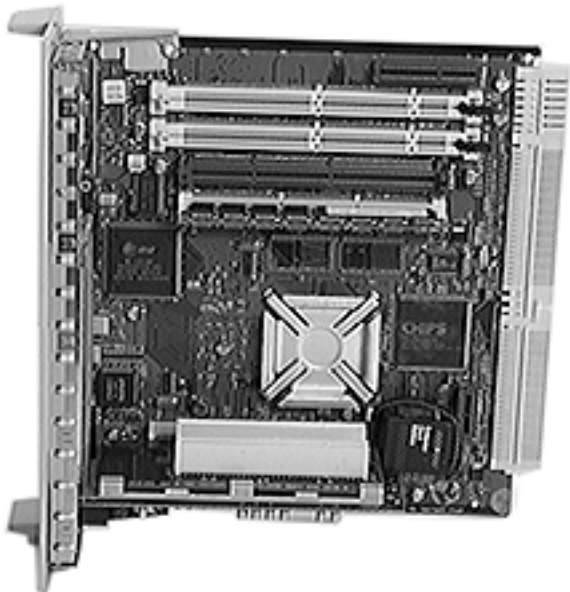
**661-1199**





**Performa 6400 Series Logic Board, 603ev, 8mb, 160Mhz**

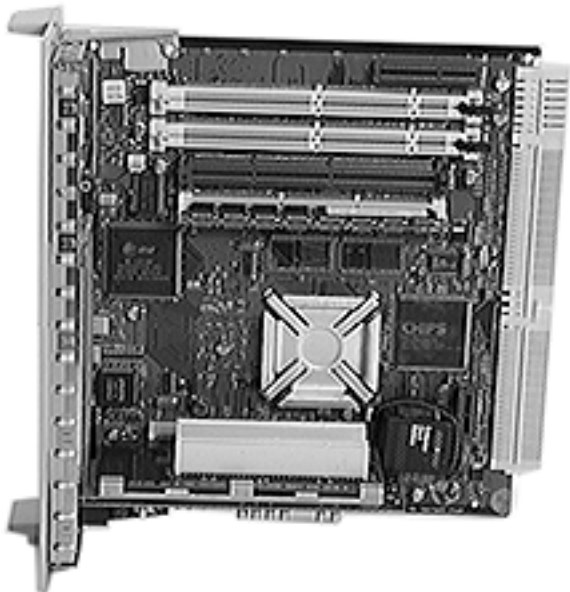
**661-1201**





**Performa 6400 Series Logic Board, 603ev, 8mb, 200Mhz**

**661-1271**





**Performa 6400 Series Logic Board, 603ev, 200Mhz, with EDO**

**661-1325**





**PM 5500/6500 Series Logic Board, 603e, 225Mhz**

**661-1322**





**PM 6500 Series Logic Board, 603e, 250 MHz**

**661-1332**



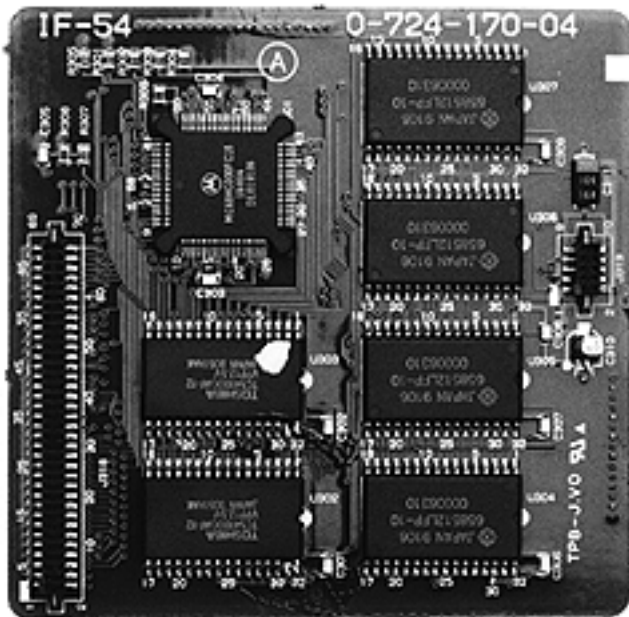


**PM 6500 Series Logic Board, 603e, 275 MHz**

**661-1320**





**PowerBook 100 Daughterboard****661-0674**

The PowerBook 180c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook Service Price Pages.

The PowerBook 180c and 165c daughterboards look similar.





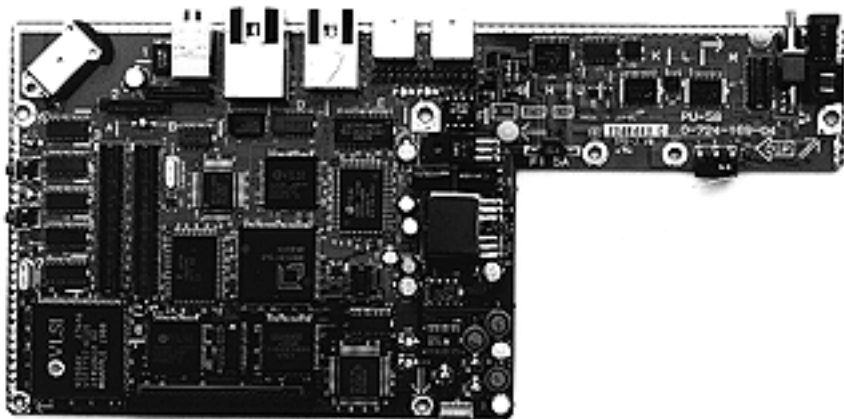
Both have a connector to hold the cousin card; however, the PowerBook 180c daughterboard does not have a flat-panel display IC (WD90C55) at location U12.





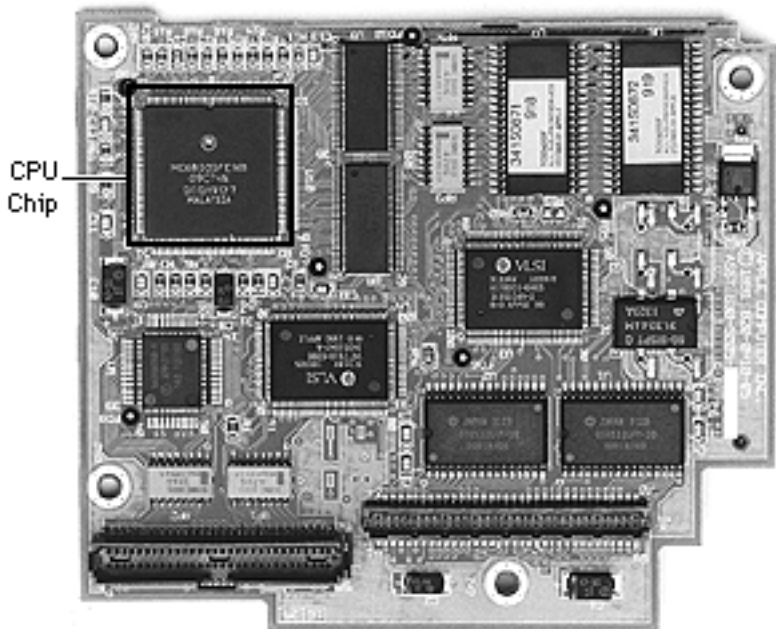
## PowerBook 100 Motherboard

661-0673



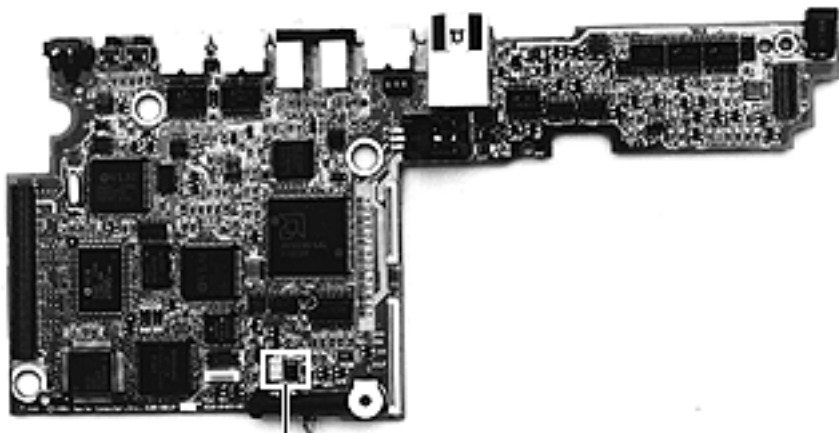


## PowerBook 140 Daughterboard

**661-0707**

The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 140 daughterboard by the number 16 in the CPU chip part number and by the absence of a 68882 chip on the underside.



**PowerBook 140/145/170 Motherboard****661-0708**

Device F1

The fuse on device F1 can be soldered to the board or in a fuse holder. Check the fuse before replacing the motherboard when failure symptoms suggest a damaged or blown fuse.





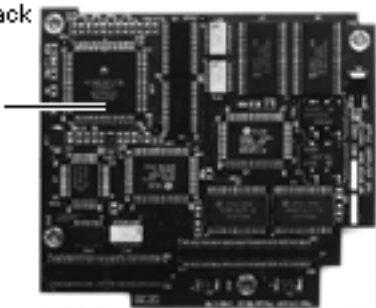
## PowerBook 145 Daughterboard

**661-0788**

Front



Back

CPU  
Chip

The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 145 daughterboard by the number 25 in the CPU chip part number and by the absence of a 68882 chip on the underside.

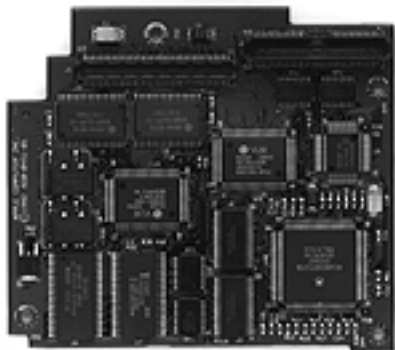




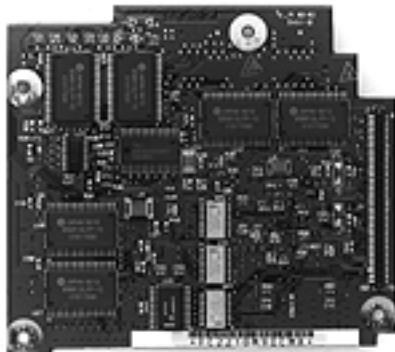
**PowerBook 145B Daughterboard**

**661-1715**

Top



Bottom





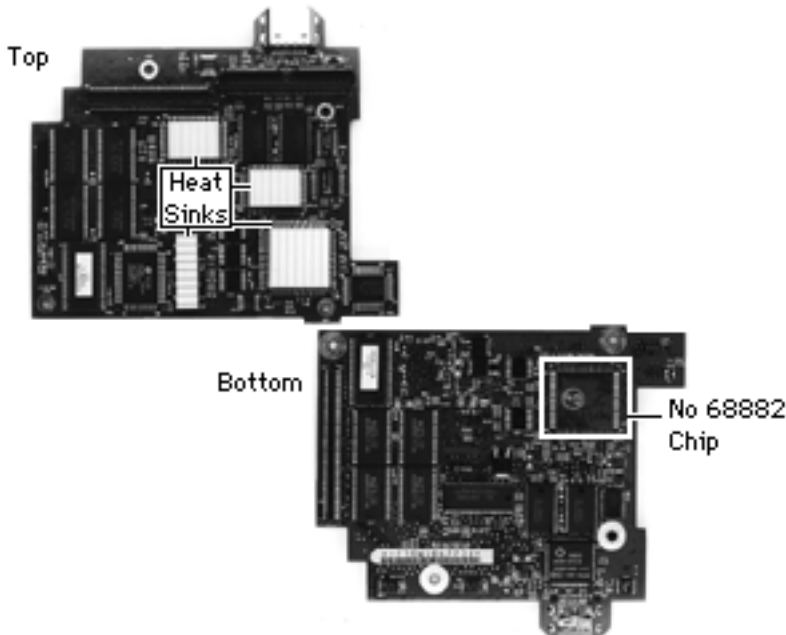
## PowerBook 150 Logic Board, Motherboard

**661-0140**

Return the logic board  
without DRAM SIMMs.



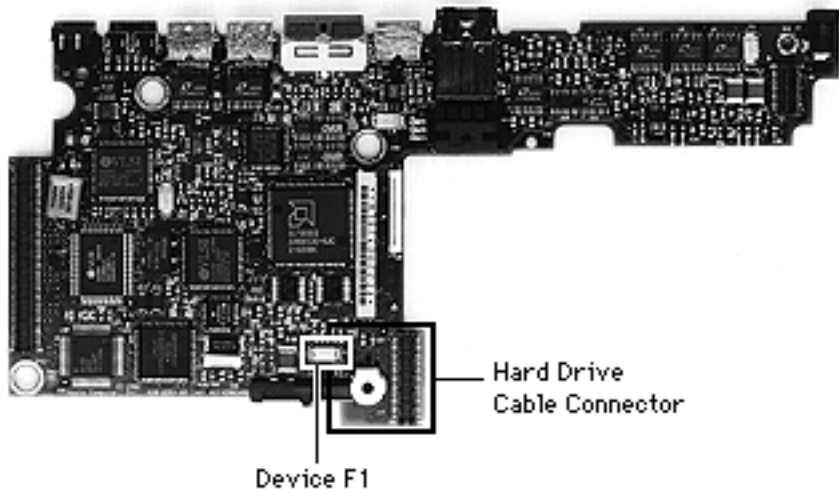


**PowerBook 160 Daughterboard****661-0744**

If any of the chromeric heat sinks is missing, return the module to Apple for exchange.

The PowerBook 160 and 180 daughterboards look similar. You can identify the PowerBook 160 daughterboard by the absence of a 68882 chip on the underside.



**PowerBook 160/165/180 Motherboard****661-0746**

The PowerBook 160/165/180 motherboard and the PowerBook 140/145/170 motherboard are similar. The PowerBook 160/165/180 motherboard is extended at the hard drive cable connector.

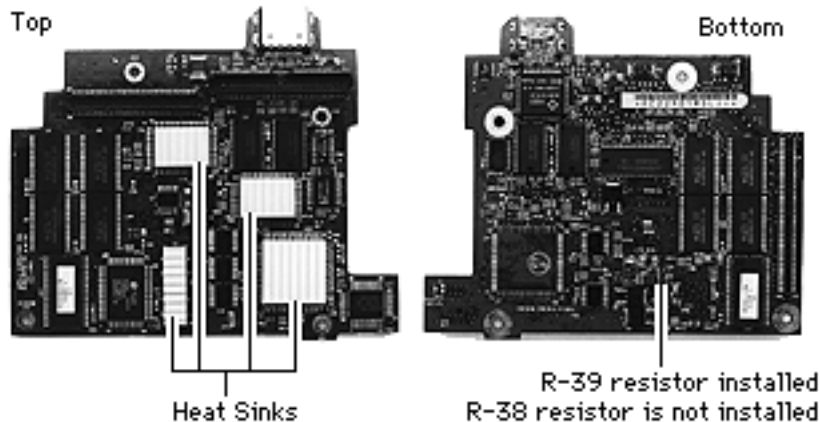
The fuse on device F1 can be soldered to the board or in a fuse holder.





Check the fuse before replacing the motherboard when failure symptoms suggest a damaged or blown fuse.



**PowerBook 165 Daughterboard****661-1016**

If any of the chromeric heat sinks is missing, return module to Apple for exchange.

The PowerBook 160, 165, and 180 daughterboards look similar. To identify the PowerBook 165 daughterboard, check the underside of the board for resistors R-38 and R-39.



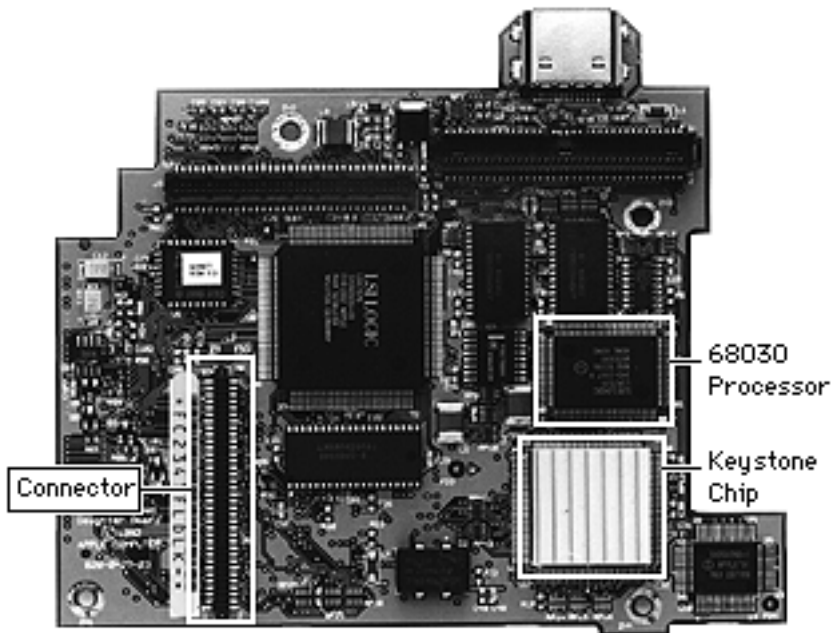


On the PowerBook 165 daughterboard, resistor R-39 is installed and resistor R-38 is missing.





## PowerBook 165c Daughterboard

**661-0751**

The PowerBook 165c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook Service Price Pages.

The PowerBook 165c and 180c daughterboards look similar.





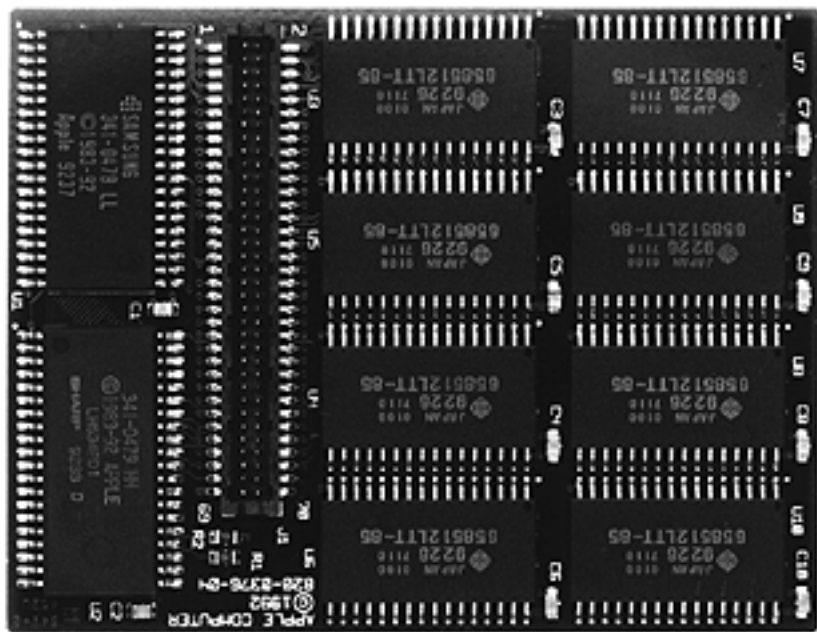
Both have a connector to hold the cousin card; however, only the PowerBook 165c daughterboard has a flat-panel display IC (WD90C55) at location U12.





## PowerBook 165c/180c Cousin Card

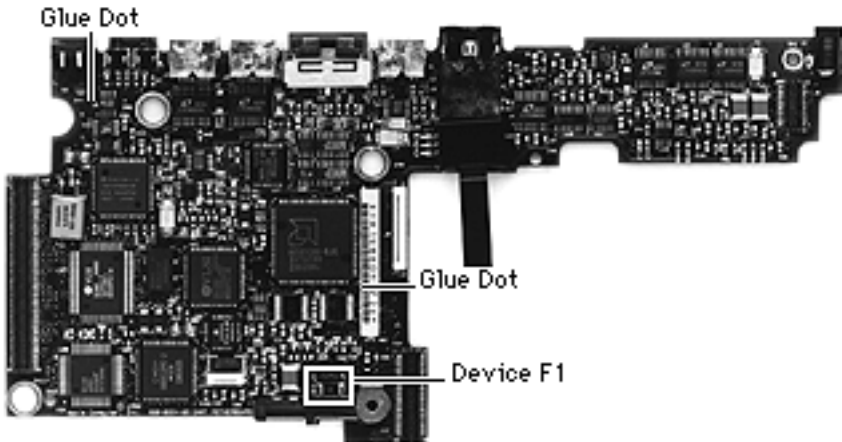
661-0755







## PowerBook 165c/180c Motherboard

**661-0765**

The PowerBook 165c/180c and 160/180 motherboards are similar. You can identify the PowerBook 165c/180c motherboard by the presence of two glue dots.

The fuse on device F1 can be soldered to the board or in a fuse holder.

Check the fuse before



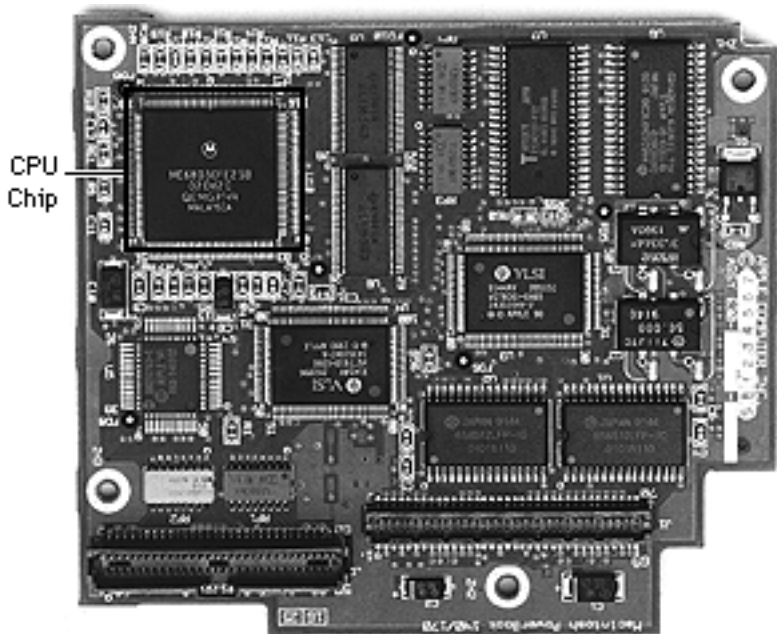


replacing the motherboard when failure symptoms suggest a damaged or blown fuse.





## PowerBook 170 Daughterboard

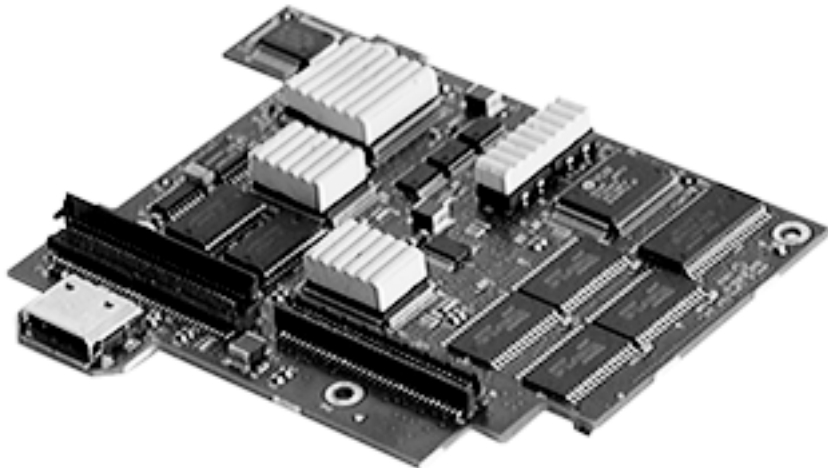
**661-0709**

The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 170 daughterboard by the number 25 in the CPU chip part number and by the presence of a 68882 chip on the underside.





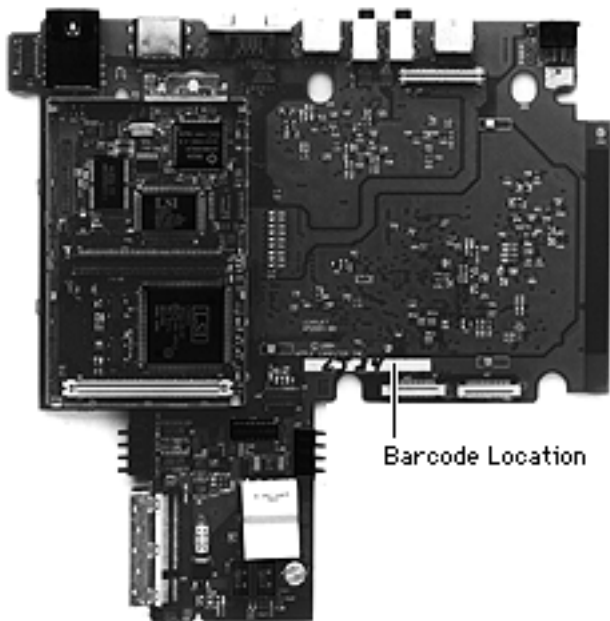
## PowerBook 180 Daughterboard

**661-0747**

Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook Service Price Pages.

The PowerBook 180 and 160 daughterboards are similar. You can identify the PowerBook 180 daughterboard by the presence of a 68882 chip on the underside.



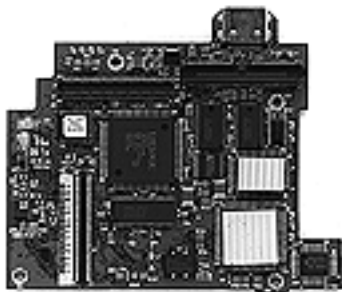
**PowerBook 180 Motherboard, Rev. B****661-0108**

Barcode Location

This is the Rev. B board.

The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The Rev. B motherboard has multiple components mounted in the area under the floppy drive. The Rev. A motherboard does not have any components mounted under the floppy drive.



**PowerBook 180c Daughterboard****661-0684****Top****Bottom****U12**

The PowerBook 180c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook Service Price Pages.

The PowerBook 180c and 165c daughterboards look similar.





Both have a connector to hold the cousin card; however, the PowerBook 180c daughterboard does not have a flat-panel display IC (WD90C55) at location U12.

Use the chip locations listed below to visually identify PowerBook 190 logic boards:

661-0154 (4MB board)

On the bottom side of the logic board, chip locations U9 and U26 will be empty.

661-1029 (8MB board)

On the bottom side of the logic board, chip locations U9 and U26 will be stuffed.



**PowerBook 190 Logic Board, 040, 33 MHz, 4 MB****661-0154**

Use the chip locations listed below to visually identify PowerBook 190 logic boards:

661-0154 (4MB board) On the bottom side of the logic board, chip locations U9 and U26 will be empty.

661-1029 (8MB board) Chip locations U9 and U26 on the back of the logic board, and chip locations U10 and







U30 on the front of the logic board will be stuffed.



**PowerBook 190 Logic Board, 040, 33 MHz, 8 MB****661-1029**

Use the chip locations listed below to visually identify PowerBook 190 logic boards:

661-0154 (4MB board) On the bottom side of the logic board, chip locations U9 and U26 will be empty.

661-1029 (8MB board) Chip locations U9 and U26 on the back of the logic board, and chip locations U10 and





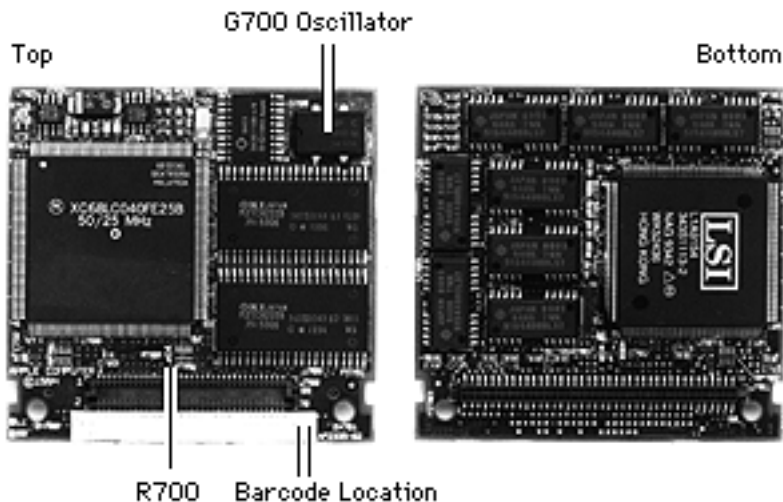
U30 on the front of the logic board will be stuffed.





## PowerBook 520/520c Daughterboard, 25 MHz, Rev. B

661-0122



Some Power Book 520 and 520c 25 MHz daughterboards are labeled as 33 MHz boards. The presence of one or more of the following conditions identifies the daughterboard as a 25 MHz board:

- a resistor in the R700 location
- a black line through the 66/33 MHz printing on the





microprocessor

- a 12.5 MHz oscillator installed at location G700

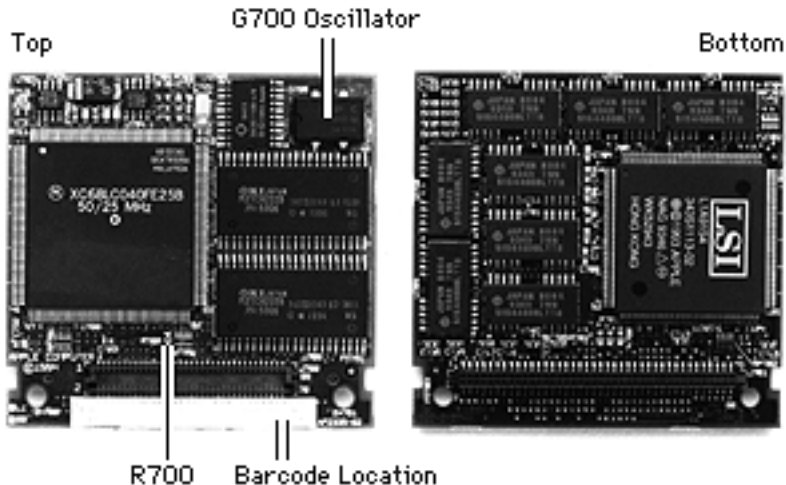
To differentiate the Rev. A 25 MHz daughterboard from the Rev. B 25 MHz daughterboard, check the barcode serial\number label. The last three characters on the Rev. A 25 MHz daughterboard are 11X. Any other characters designate a Rev. B board.





## PowerBook 520/520c Daughterboard, 25MHz, Rev. A

661-0059



Some Power Book 520 and 520c 25 MHz daughterboards are labeled as 33 MHz boards. The presence of one or more of the following conditions identifies the daughterboard as a 25 MHz board:

- a resistor in the R700 location
- a black line through the 66/33 MHz printing on the





microprocessor

- a 12.5 MHz oscillator installed at location G700

To differentiate the Rev. A 25 MHz daughterboard from the Rev. B 25 MHz daughterboard, check the barcode serial\number label. The last three characters on the Rev. A 25 MHz daughterboard are 11X. Any other characters designate a Rev. B board.





PowerBook 520/540 Series Daughterboard, 603e

661-0151

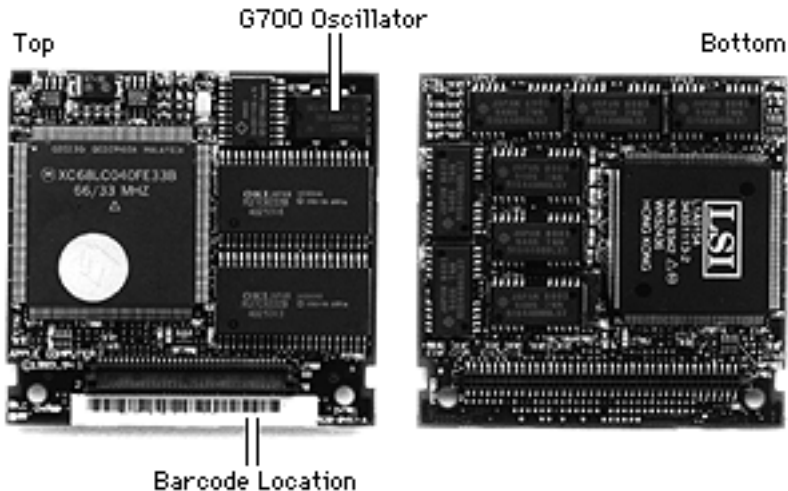
Top



Bottom





**PowerBook 540/540c Daughterboard, 33MHz, Rev. B****661-0109**

The 540/540c daughterboards have the number 16.667 on the oscillator at location G700. The 520/520c daughterboards have the number 12.500 printed on the oscillator at location G700.

The PowerBook 540/540c Rev. B and Rev. A daughterboards are similar.





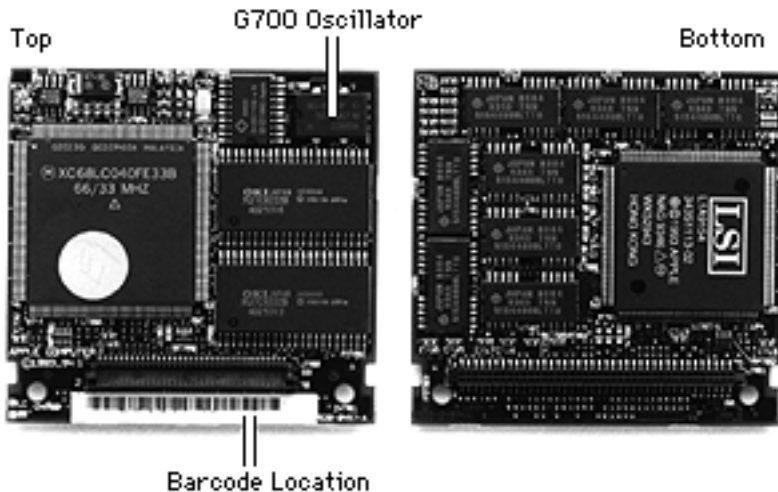
To differentiate the Rev. B 33 MHz daughterboard from the Rev. A 33 MHz daughterboard, check the last three characters on the barcode serial number label. The number on the Rev. A 33 MHz daughterboard should be 273. Any other serial number designates a Rev. B board.





## PowerBook 540/540c Logic Board, 2 MB

661-0057



The 540/540c daughterboards have the number 16.667 on the oscillator at location G700. The 520/520c daughterboards have the number 12.500 printed on the oscillator at location G700.

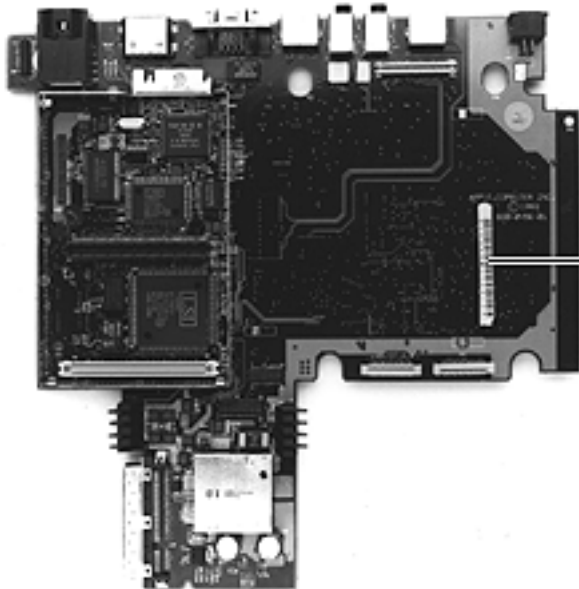
The PowerBook 540/540c Rev. A and Rev. B daughterboards are similar. To differentiate the Rev. A 33 MHz daughterboard





from the Rev. B 33 MHz daughterboard, check the last three characters on the barcode serial number label. The number on the Rev. A 33 MHz daughterboard should be 273. Any other serial number designates a Rev. B board.



**PowerBook 520/540 Series Motherboard, Rev. A****661-0054**

Barcode  
Location

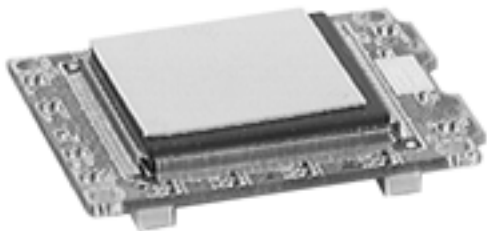
The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The PowerBook 520/540 Series Rev. A motherboard does not have any components mounted in the area under the floppy drive. The PowerBook 520/540 Series Rev. B motherboard has multiple components mounted under the floppy drive.





**PowerBook 1400 Daughterboard, Microprocessor, x117MHz**

**661-1191**

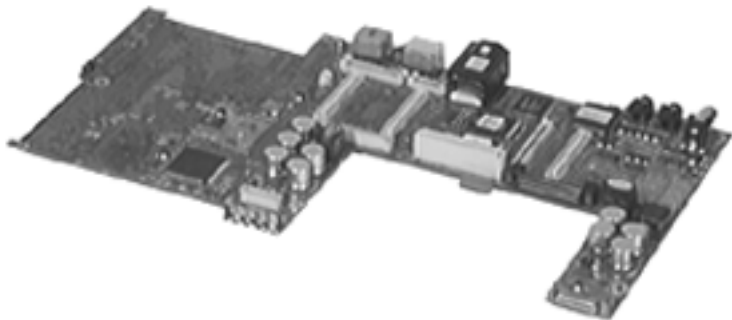


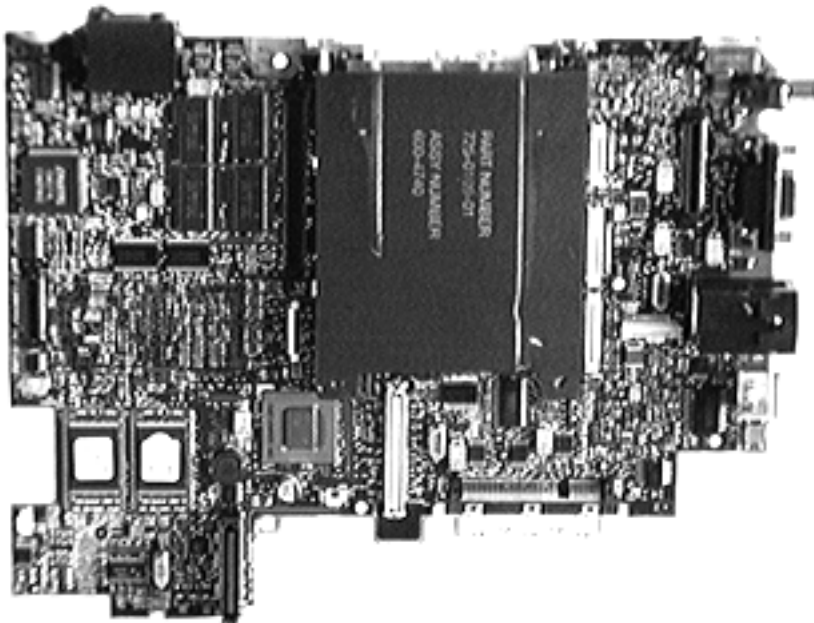


**PowerBook 1400 Logic Board, 8 MB**

**661-1188**

The logic board includes the ADB EMI shield.



**PowerBook 3400 603ev Logic Board, 180 MHz, 16 MB****661-1235**

The logic board includes the PCMCIA mechanism and shield.

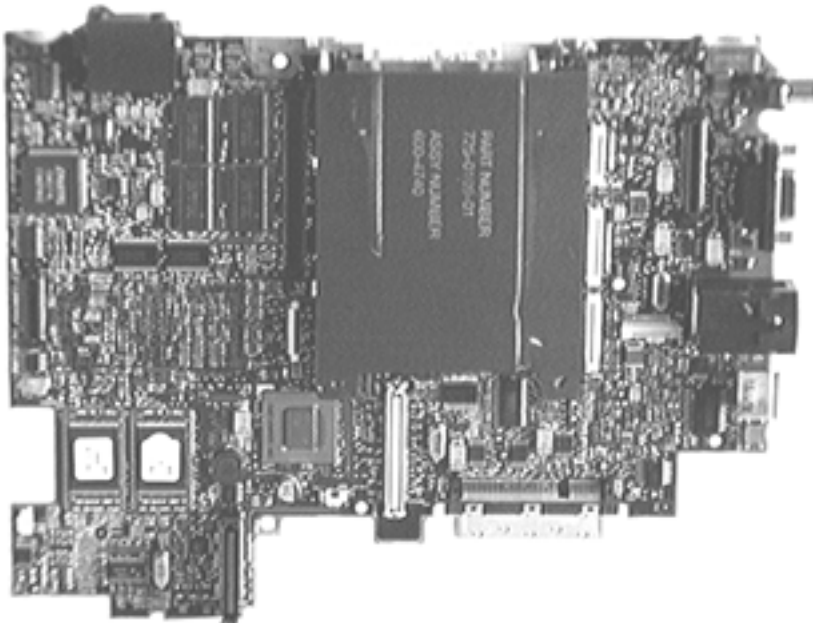






**PowerBook 3400c 603ev Logic Board, 200 MHz, 16 MB**

**661-1238**



The logic board includes the PCMCIA mechanism and shield.





**PowerBook 5300 Series Logic Board, 603e, 100 MHz, 16 MB, 1 MB, VGA**

**661-0155**



**PowerBook 5300 Series Logic Board, 603e, 100 MHz, 16 MB, 1 MB, VGA****661-0991**

On this Logic Board section U-30 will be stuffed.

The 100MHz Logic Board can be identified by the part number located on the processor; i.e. Motorola / IBM xxxxx100xx.



**PowerBook 5300 Series Logic Board, 603e, 100 MHz, 16 MB, 512K****661-0990**

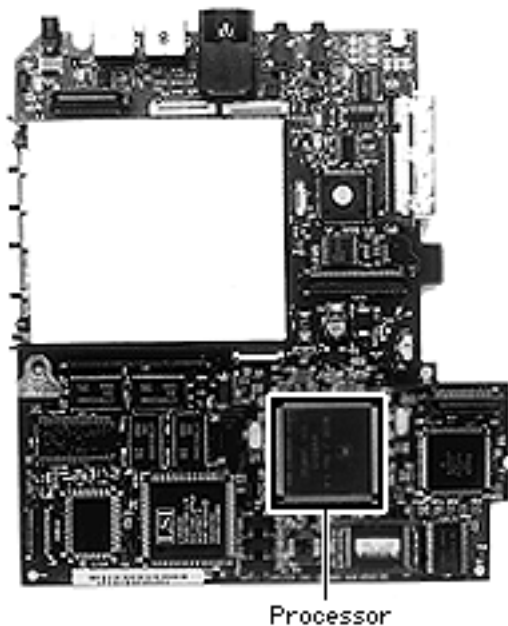
On this Logic Board section U-30 will be empty.



**PowerBook 5300 Series Logic Board, 603e, 100 MHZ, 8 MB, 512K****661-0989**

On this Logic Board sections: U-30, U-8, U-9, U-11, U-12 will be empty.

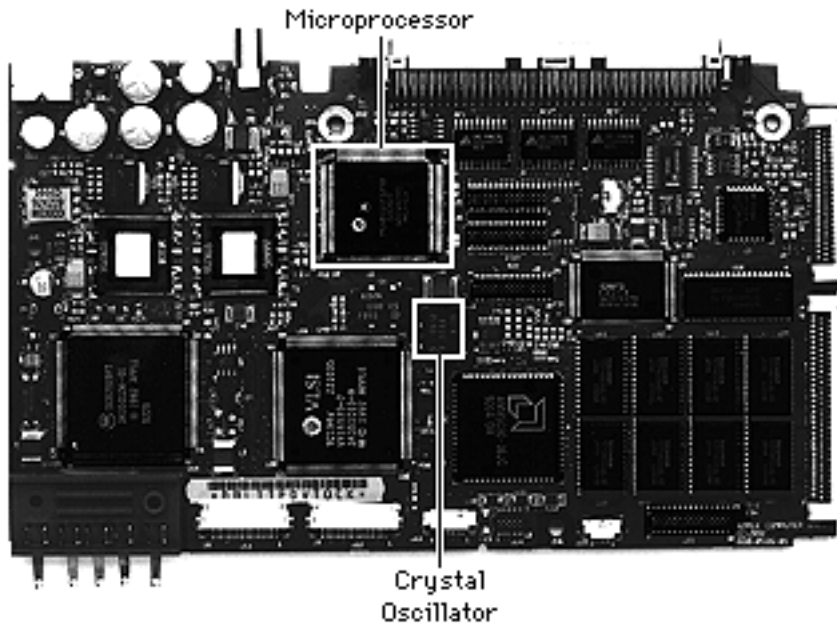


**PowerBook 5300 Series Logic Board, 603e, 117 MHz, 16 MB, 1 MB, SVGA****661-0992**

On this Logic Board section U-30 will be stuffed.

The 117MHz Logic Board can be identified by the part number located on the processor; i.e. IBM xxxxx117xx.

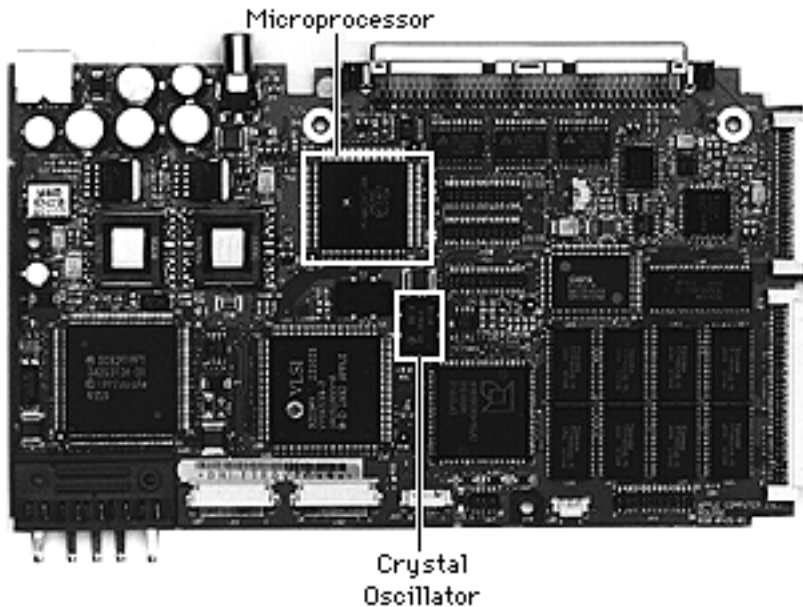


**PowerBook Duo 210 Logic Board, 25 MHz****661-1653**

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

The crystal oscillator at location G1 is 50 MHz. The microprocessor at location U5 is 25 MHz.



**PowerBook Duo 230 Logic Board, 33 MHz****661-1672**

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization. §

The crystal oscillator at location G1 is 66.6677 MHz.

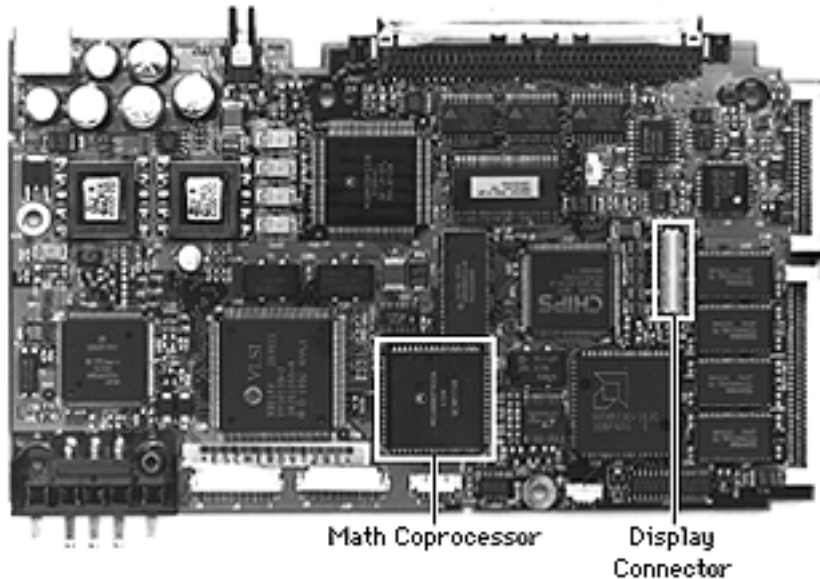






The microprocessor at location U5 is 33 MHz.

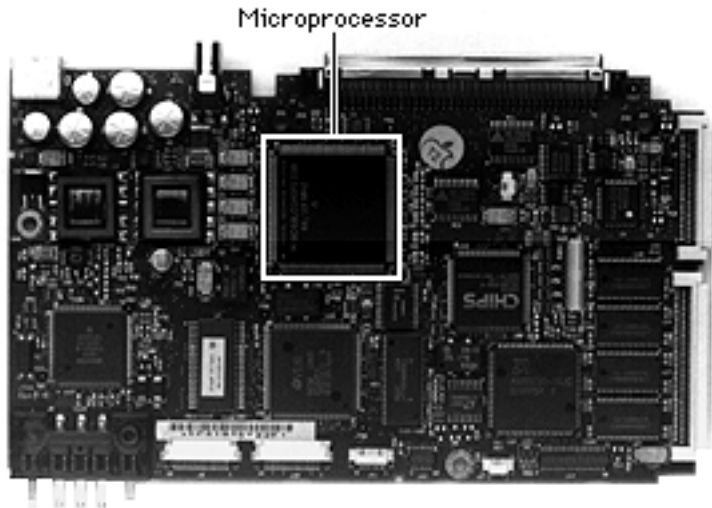


**PowerBook Duo 270c Logic Board****661-1717**

The PowerBook Duo 270c logic board has a 68882 math coprocessor. The PowerBook 210/230/250 logic board does not.

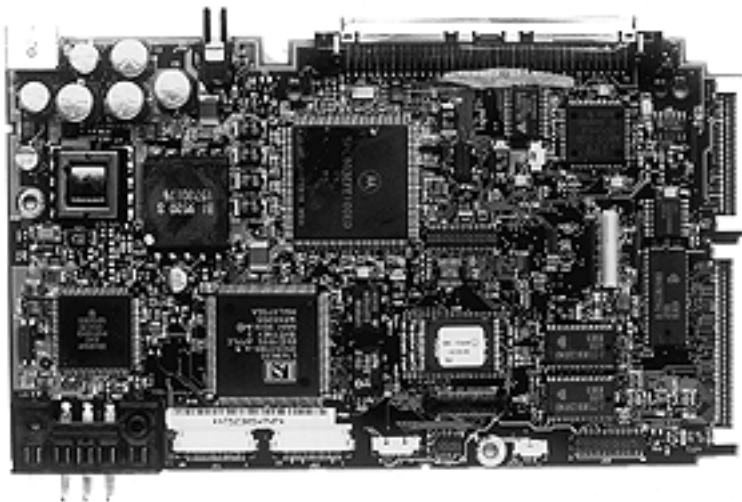
The PowerBook Duo 270c display connector is mounted vertically. The PowerBook Duo 210/230/250 display connector is mounted horizontally.



**PowerBook Duo 280/280c Logic Board****661-0051**

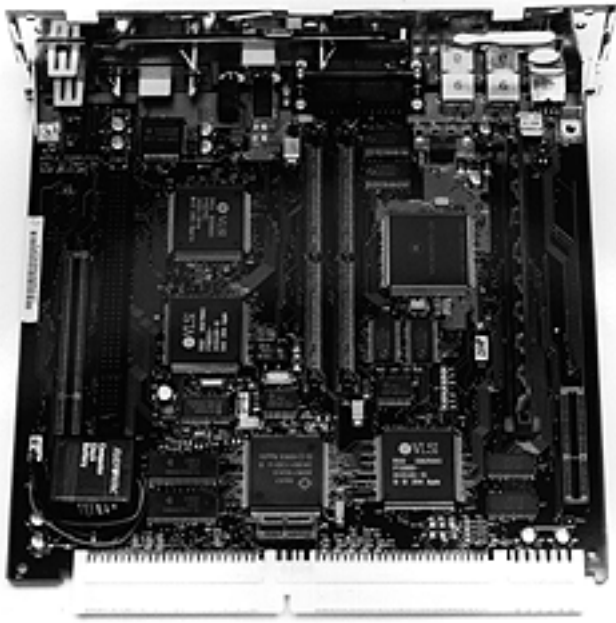
The logic board has the part number “XC68LC040FE33B” printed on the microprocessor.



**PowerBook Duo 2300c Logic Board, 603e, 100 MHz, 16 MB, 1 MB****661-0153**

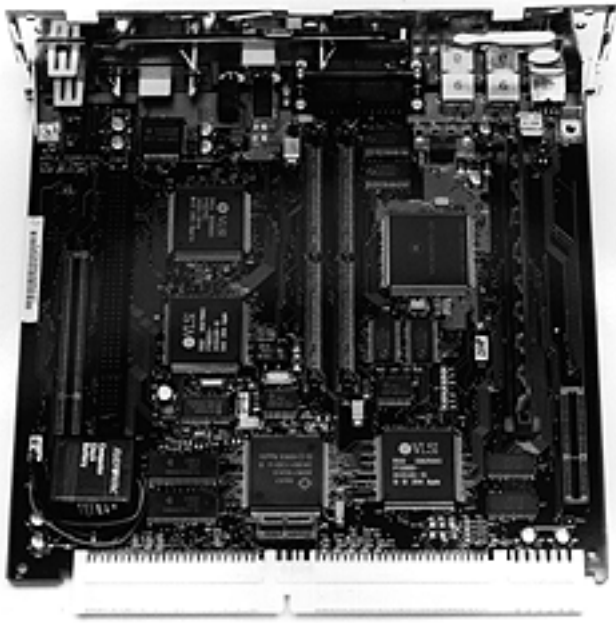
This board is an optional upgrade for the Duo 200 Series.



**PM/Performa 5200 Series, Performa 6200 Series Logic Board****661-1008**

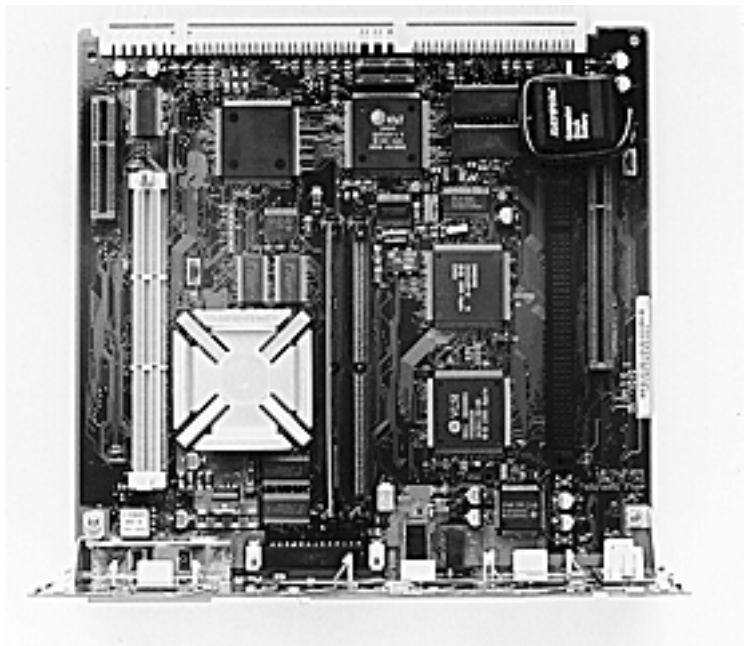
To differentiate logic board P/N 661-0931 (8-bit sound) from logic board P/N 661-1008 (16-bit sound), check the number printed on the chip at location U6. Number 343S0138 indicates logic board P/N 661-0931. Number 343S1189 indicates logic board P/N 661-1008.



**PM/Performa 5200 Series, Performa 6200 Series Logic Board, 75 MHz****661-0931**

To differentiate logic board P/N 661-0931 (8-bit sound) from logic board P/N 661-1008 (16-bit sound), check the number printed on the chip at location U6. Number 343S0138 indicates logic board P/N 661-0931. Number 343S1189 indicates logic board P/N 661-1008.



**PM 5260/100 Logic Board, 603e/100Mhz****661-1116**

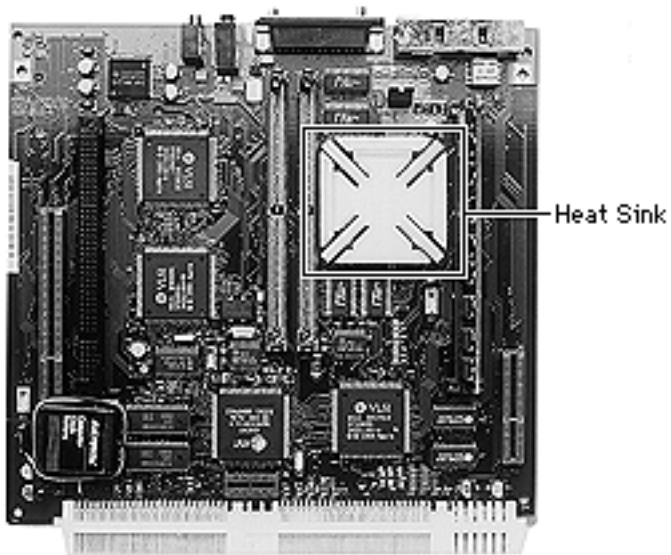
You can identify this board by the last three digits of its EEE code (6UR or 6SB) and/or by the Apple part number FT630-1725 or 630-1725.





**PM 5300/100 LC, Performa 5300/6300 Series,  
Performa 6290 Logic Board**

**661-1041**



Power Macintosh 5300/  
6300 Series logic  
boards have a heat sink  
installed.

Return the logic board  
without DRAM SIMMs  
installed.







PM 5400/120, Performa 5420, Logic Board, 8MB, 120Mhz

661-1072



The following numbers may appear on this board. Although this list may not be all inclusive, it may aid in identification:

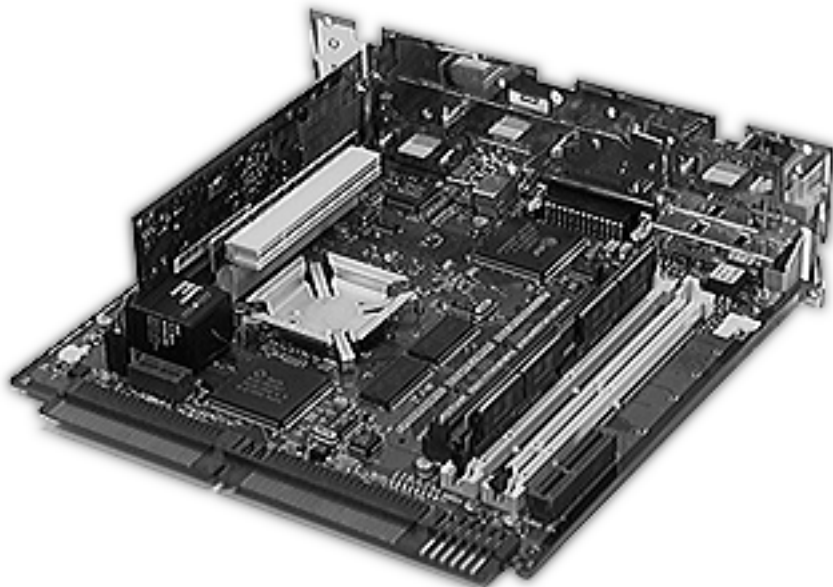
630-1657, 630-1616, FT630-1616 (NAFTA compliant), 630-2300, FT630-2300 (NAFTA compliant)





**Performa 5400/160 and 6360 Series 603ev Logic Board, 8MB,  
160Mhz, low-profile heat sink**

**661-1281**

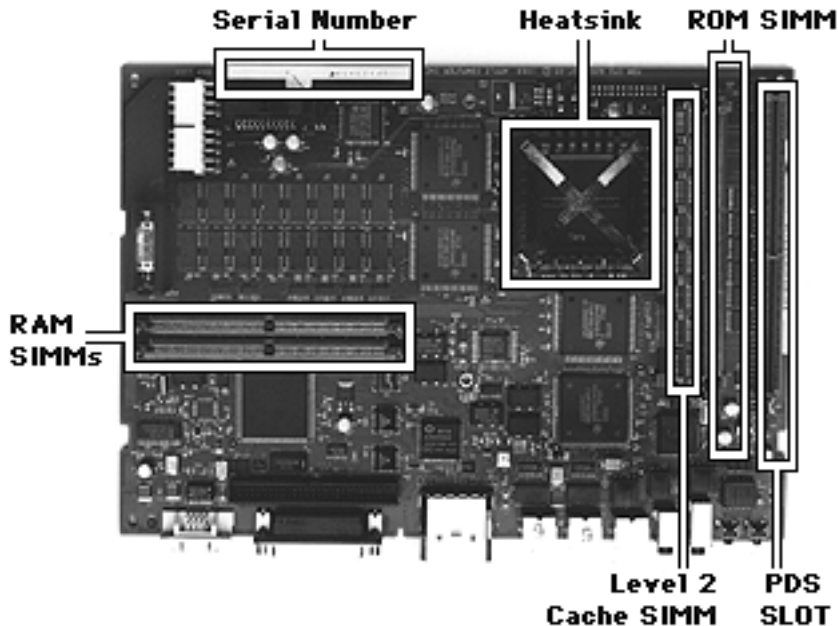




**Perf/PM 5400/180 and Perf/PM 6400/180 Series 603ev Logic Board,  
180 MHz, 8MB, Low Profile Heat Sink**

**661-1282**



**PM 6100/60, Performa 6116 CD, Workgroup Server Logic Board****661-1022**

To identify the Power Macintosh 6100/60 logic board, check the module serial number. The last three characters are 347.

Do not attempt to remove the microprocessor's Heat Sink. This will damage the logic board.





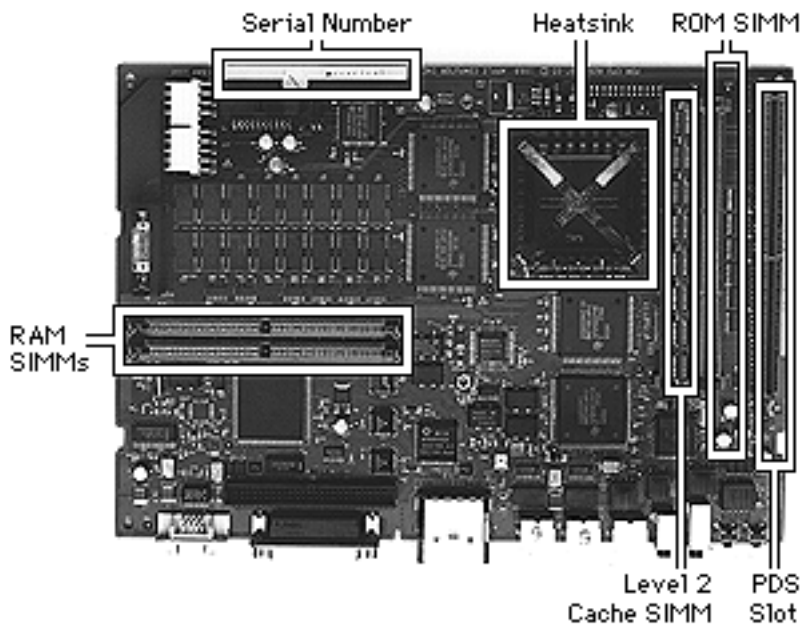
Return the board without RAM SIMMs or 256K Level 2 cache SIMM. **IMPORTANT:** The Power Macintosh 6100/60 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.





## PM 6100/66 Workgroup Server Logic Board

661-0207



To identify the Power Macintosh 6100/66 logic board, check the module serial number. The last three characters are 4MQ. There may also be a “66 MHz” label near the serial number.

Do not attempt to remove the microprocessor’s heat sink. This will damage the logic board.





Return the board without RAM SIMMs or 256K Level 2 cache SIMM.

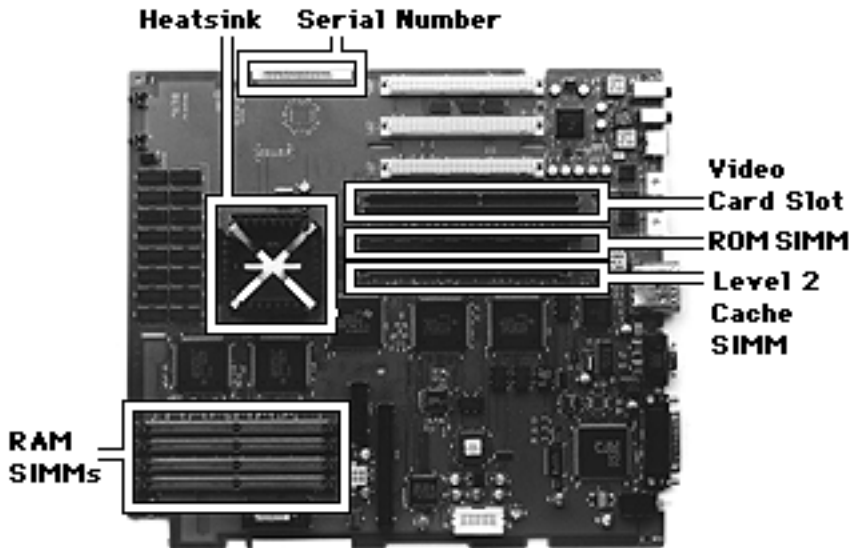
**IMPORTANT:** The Power Macintosh 6100/66 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.





## PM 7100/66 Logic Board

661-0897



To identify the Power Macintosh 7100/66 logic board, check the module serial number. The last three characters are 2PS.

Do not attempt to remove the microprocessor's heat sink. This will damage the logic board.

Return the board without the following:







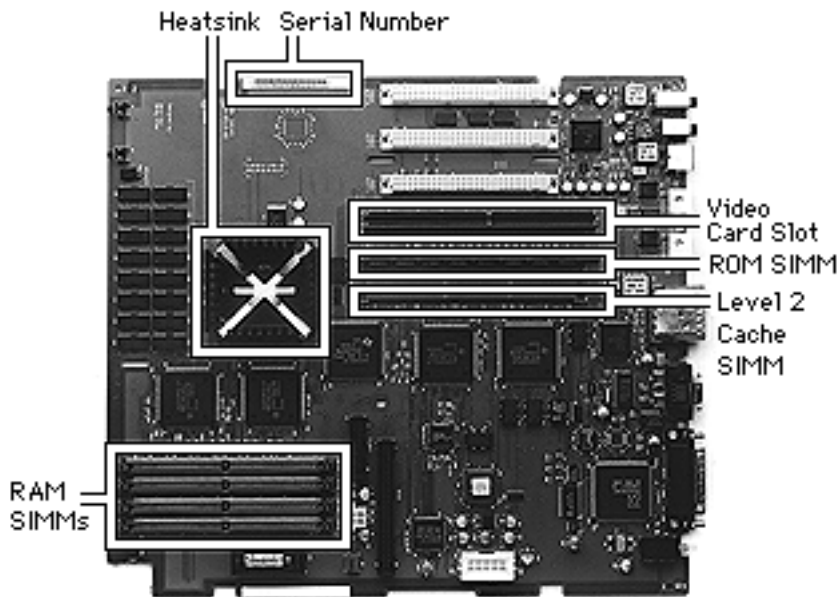
256K Level 2 cache SIMM, RAM SIMMs. IMPORTANT: The Power Macintosh 7100/66 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the board.





## PM 7100/80 Logic Board

661-0208



To identify the Power Macintosh 7100/80 logic board, check the last three digits of the EEE code. The EEE code for part number 661-0208 ends in “65M”. There may also be “80 MHz” label near the serial number.

Do not attempt to remove the microprocessor’s heat sink.





This will damage the logic board. Return the board without RAM SIMMs or 256K Level 2 cache SIMM.

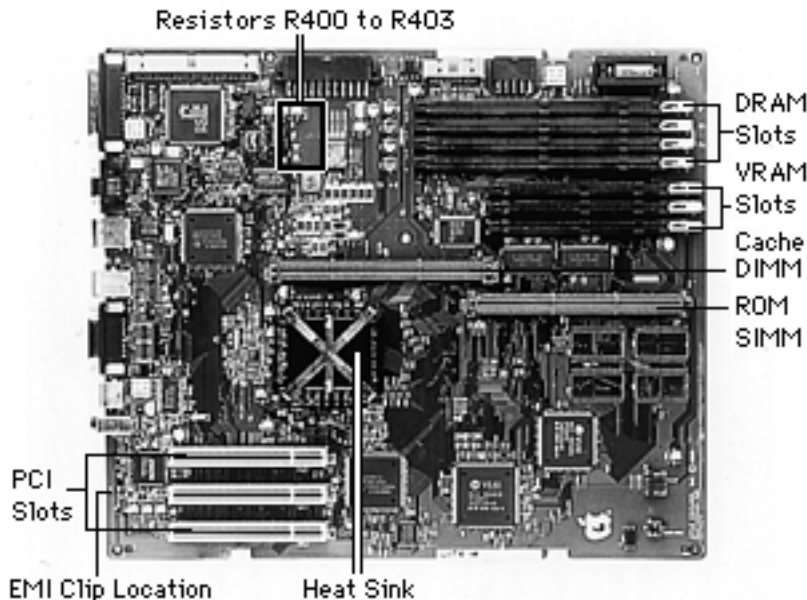
**IMPORTANT:** The Power Macintosh 7100/80 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.





## PM 7200/75 Logic Board

661-1000



Do not remove the heat sink or you will damage the logic board.

To avoid damaging the board, remove the EMI clip before returning the board to Apple.

**IMPORTANT:** Return the board without cache, VRAM, and DRAM DIMMs.

The logic board may have a ROM SIMM rather than





ROMs soldered to the board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

To determine the speed of the logic board refer to the chart on next page.





## Logic board speed ID chart.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400							
R401							
R402							
R403							

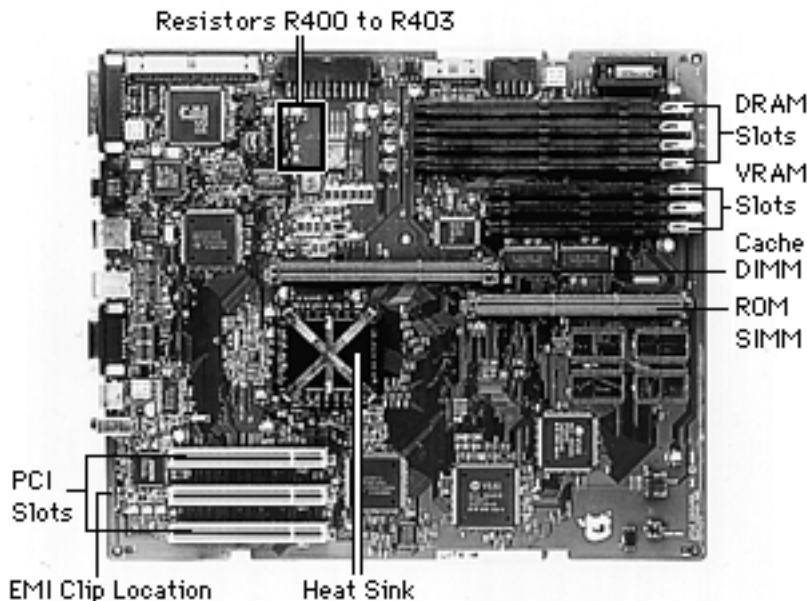
\* European versions of P/N 661-1080 may have R400 and R402 filled instead.





## PM 7200/90 Logic Board

661-1059



Do not remove the heat sink or you will damage the logic board.

This logic board can be substituted for p/n 661-0979, but p/n 661-0979 cannot be substituted for this logic board. Both boards are functionally equivalent; however, p/n 661-0979 requires an auxiliary fan. **IMPORTANT:** If you replace the 661-0979





logic board with the 661-1059 board, you must remove the auxiliary fan. Failure to remove the auxiliary fan when installing p/n 661-1059 may result in damage to the logic board.

**IMPORTANT:** Return the Power Macintosh 7200/90 logic board without the following: EMI clip, cache, DRAM, and VRAM. The Power Macintosh 7200 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

To determine the speed of the logic board refer to the chart on next page.







## Logic board speed ID chart.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400							
R401							
R402							
R403							

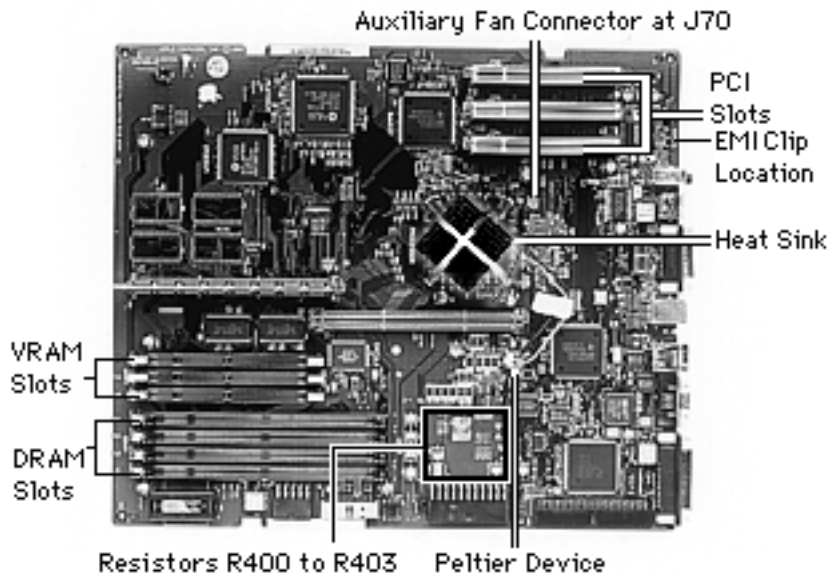
\* European versions of P/N 661-1080 may have R400 and R402 filled instead.





**PM 7200/120 Logic Board, Requires Auxiliary Fan  
(Replaced by 661-1080)**

**661-1180**



The heat sink has two wires that plug into the logic board. Do not remove the heat sink, or you will damage the board.

Also, do not unplug the Peltier device (red and black wires attached to the CPU) or you will damage the board.

This logic board requires an auxiliary processor fan. Apple





may substitute p/n 661-1080 for p/n 661-1180. Both logic boards are functionally equivalent; however, you must remove the auxiliary processor fan when you replace p/n 661-1180 with p/n 661-1080. Failure to do may result in damage to the 661-1080 board.

**IMPORTANT:** Return the logic board without the following: EMI clip, cache and VRAM. The Power Macintosh 7200 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

To determine the speed of the logic board refer to the chart on next page.



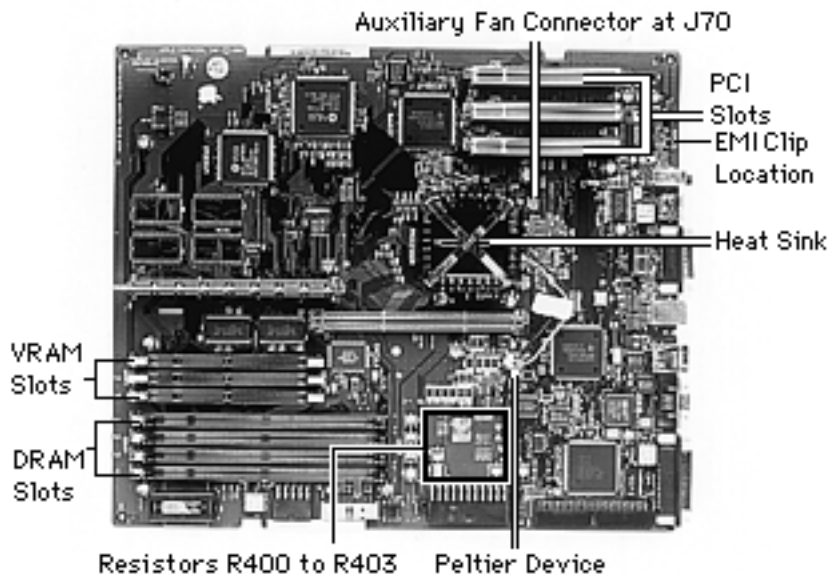


## Logic board speed ID chart.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400							
R401							
R402							
R403							

\* European versions of P/N 661-1080 may have R400 and R402 filled instead.



**PM 7200/90 Logic Board, Requires Auxiliary Fan****661-0979**

The heat sink has two wires that plug into the logic board. Do not remove the heat sink, or you will damage the board.

Also, do not unplug the Peltier device (red and black wires attached to the CPU) or you will damage the board.

This logic board requires an auxiliary processor fan. Apple





may substitute p/n 661-1059 for p/n 661-0979. Both logic boards are functionally equivalent; however, you must remove the auxiliary processor fan when you replace p/n 661-0979 with p/n 661-1059. Failure to do may result in damage to the 661-1059 board.

**IMPORTANT:** Return the logic board without the following: EMI clip, cache and VRAM. The Power Macintosh 7200 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.

To determine the speed of the logic board refer to the chart on next page.





Logic board speed ID chart.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400							
R401							
R402							
R403							

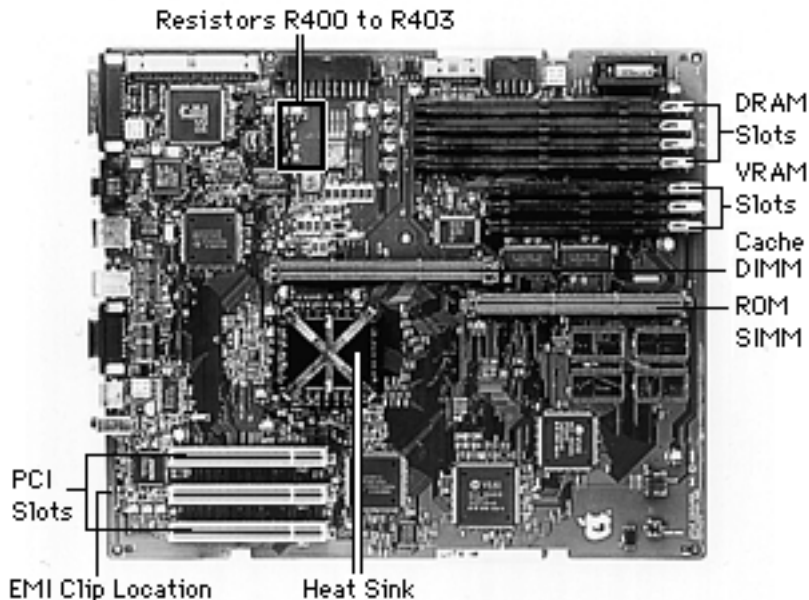
\* European versions of P/N 661-1080 may have R400 and R402 filled instead.





## PM 7200/120 and PM 8200/120 (Europe Only), and Workgroup Server 7250/120 Logic Board

661-1080



Return this logic board without the following: cache, VRAM, and DRAM DIMMs.

This logic board can be substituted for p/n 661-1180, but p/n 661-1180 cannot be substituted for this version of the logic board. Both boards are functionally equivalent; however, p/n 661-1180 requires an auxiliary fan.







**IMPORTANT:** If you replace the 661-1180 logic board with the 661-1080 board, you must remove the auxiliary fan. Failure to remove the auxiliary fan when installing p/n 661-1080 may result in damage to the logic board. Return the logic board without the EMI clip or the cache, DRAM, or VRAM DIMMs installed.

**IMPORTANT:** The WS 7250/120, PM 7200/120 and PM 8200/120 logic board may have a ROM SIMM rather than ROMs soldered directly to the board. Return the defective logic board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.





To determine the speed of the logic board, look at resistors R400 to R403 on the board and consult the matrix on this page.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400			R400	R400	R400	R400	R400
R401		R401	R401	R401	R401	R401	R401
R402		R402	R402	R402	R402	R402	R402
R403		R403	R403	R403	R403	R403	R403

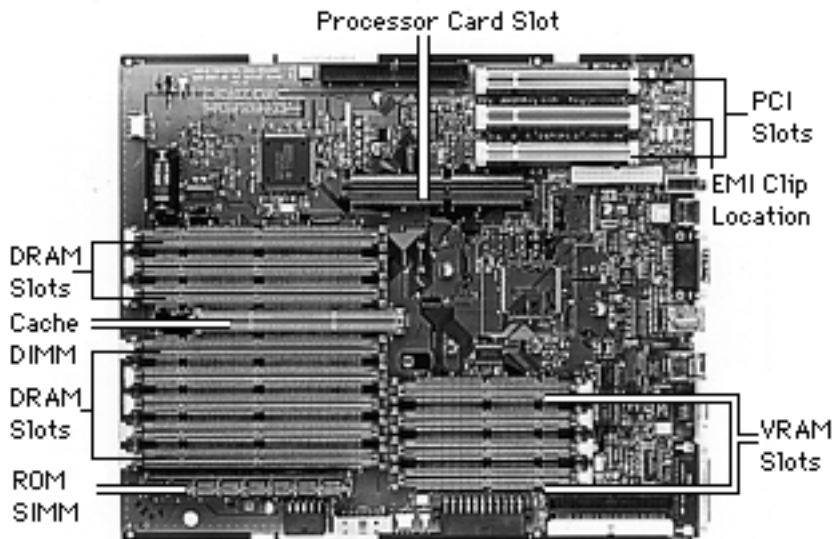
\* European versions of P/N 661-1080 may have R400 and R402 filled instead.





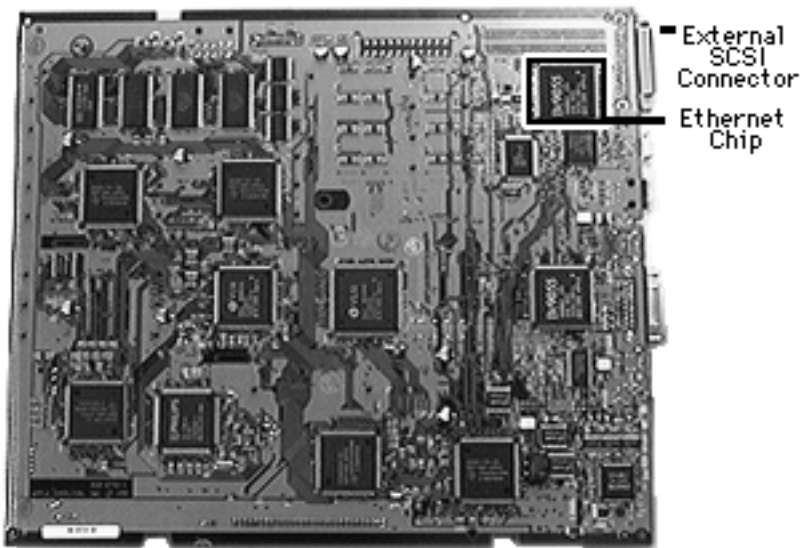
## PM 7300 Logic Board, 24-Pin

661-1266



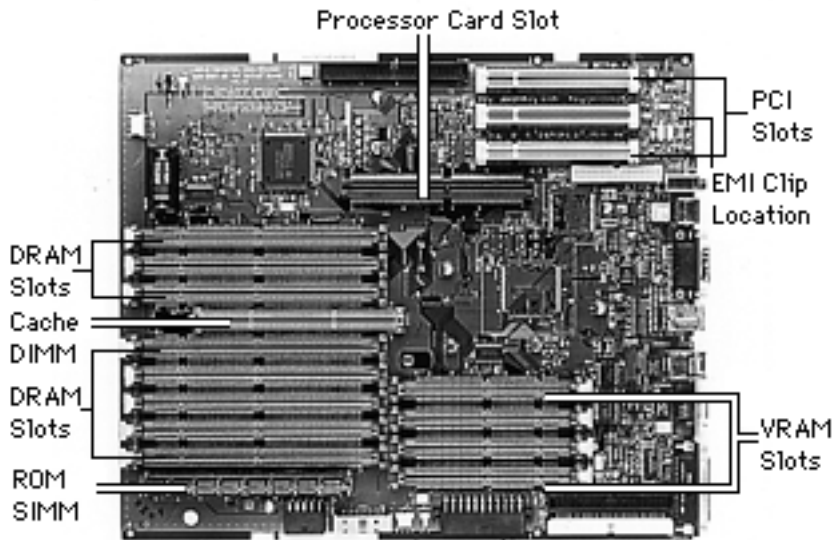
The graphic at left shows the front of the logic board. The back of the logic board is pictured on the following page.





The graphic at left shows the back of the logic board.

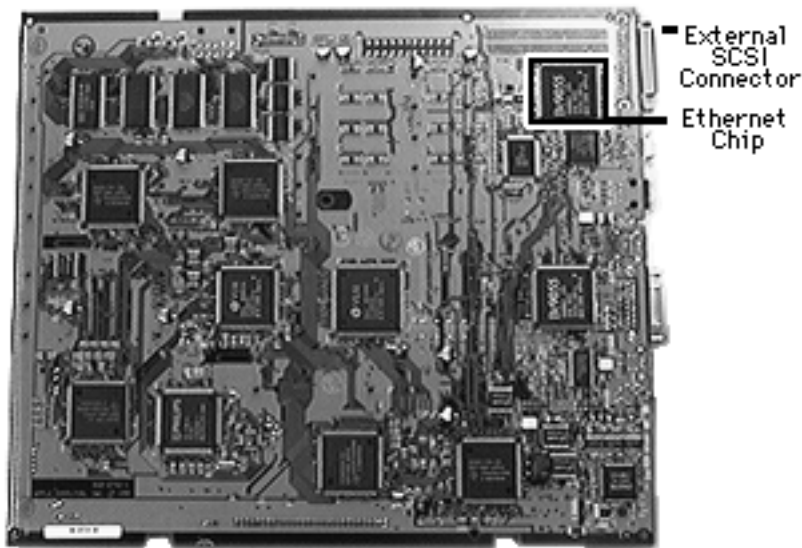


**PM 7500 Logic Board (Replaced by 661-1783)****661-0916**

To identify the Power Macintosh 7500 logic board, check the module serial number. The last three characters are 4X8.

The Workgroup Server 8550 and Power Macintosh 7600 logic board can be differentiated from the Power Macintosh 7500 logic board by the Ethernet chip on the bottom side of the logic board near the





external SCSI port. The new chip, which allows multi-homing and multi node capabilities, is marked with the following character string: AM79C950AKC. The original chip is marked AM79C950KC.

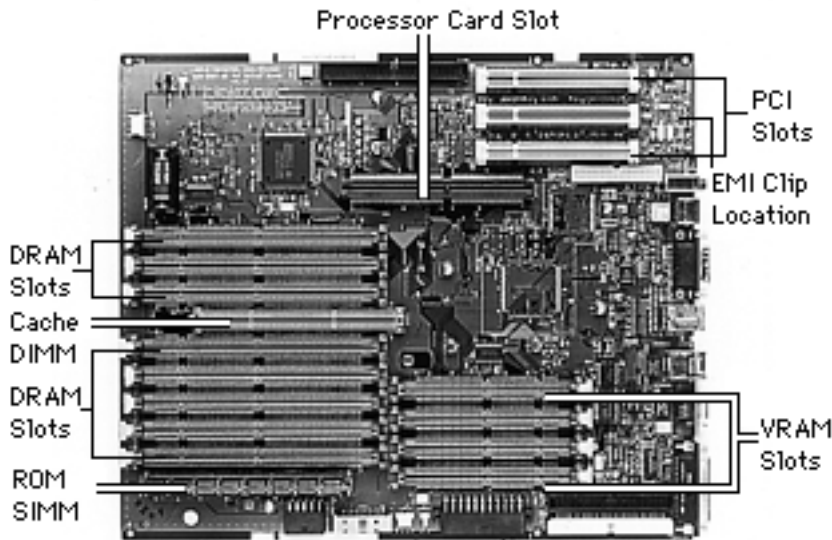
**IMPORTANT:** Return the logic board without the following: VRAM, DRAM and cache. The Power Macintosh 7500 logic board may have a ROM SIMM rather than ROMs soldered directly to the





board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



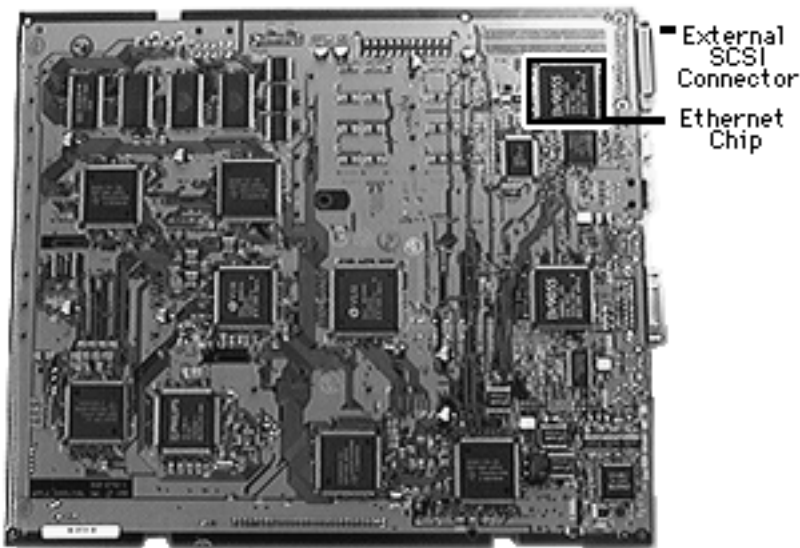
**PM 7500/100 Logic Board, 22-Pin****661-1783**

To identify the Power Macintosh 7500 logic board, check the module serial number.

The Workgroup Server 8550 and Power Macintosh 7600 logic board can be differentiated from the Power Macintosh 7500 logic board by the Ethernet chip on the bottom side of the logic board near the external SCSI port. The new chip, which allows







multi-homing and multi node capabilities, is marked with the following character string: AM79C950AKC. The original chip is marked AM79C950KC.

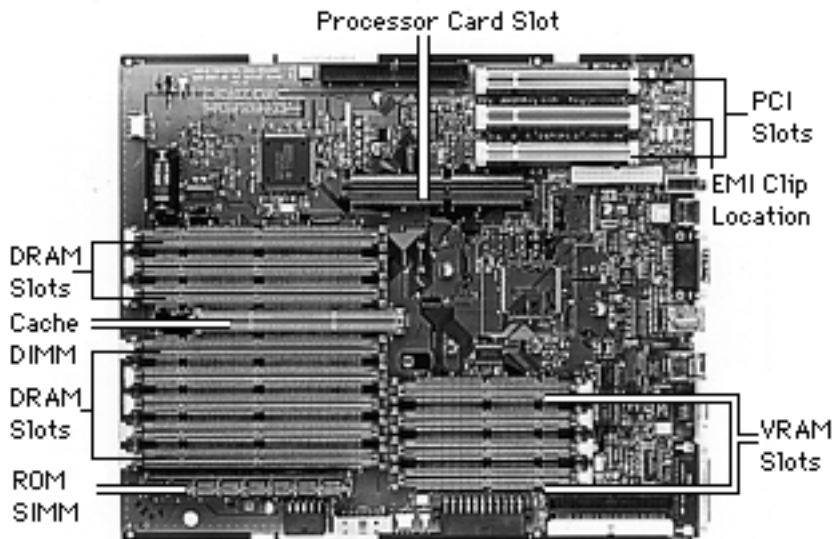
**IMPORTANT:** Return the logic board without the following: VRAM, DRAM and cache. The Power Macintosh 7500 logic board may have a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the





ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

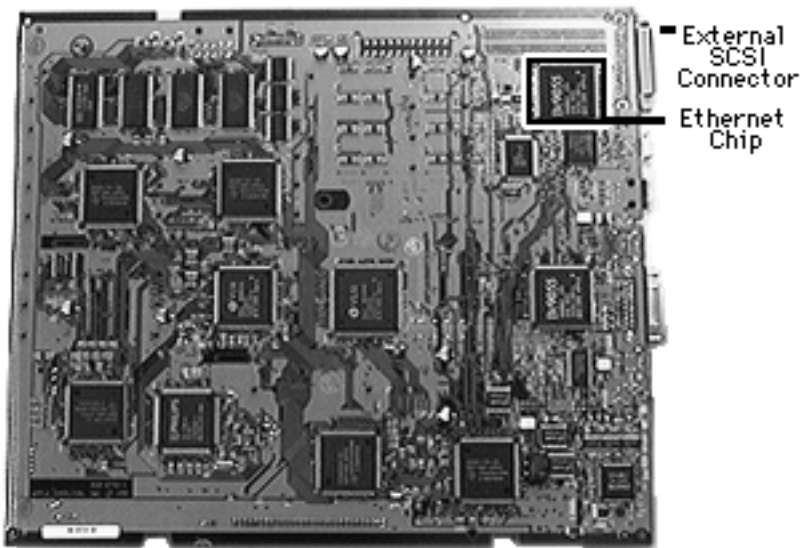


**PM 7600 Logic Board, 24-Pin, Rev. B****661-1219**

The graphic at left shows the front of the logic board. The back of the logic board is pictured on the following page.

Use this logic board in the PM 7600/200.





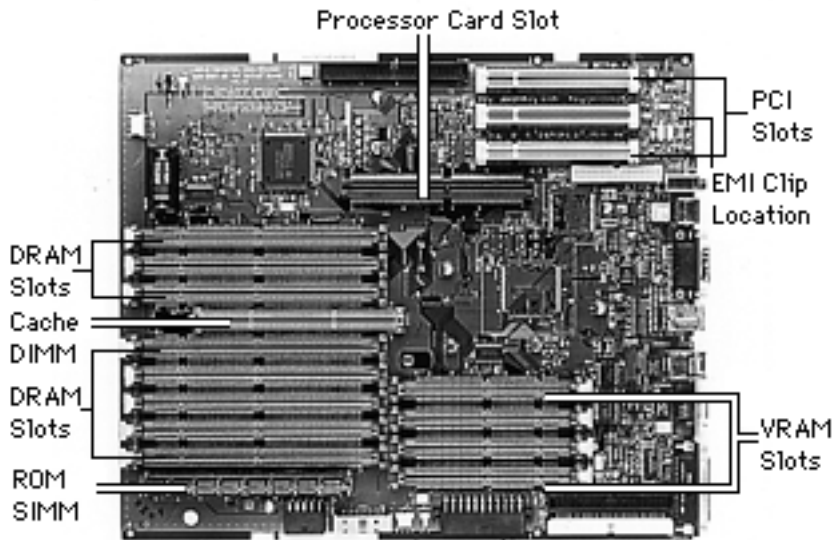
The graphic at left shows the back of the logic board.





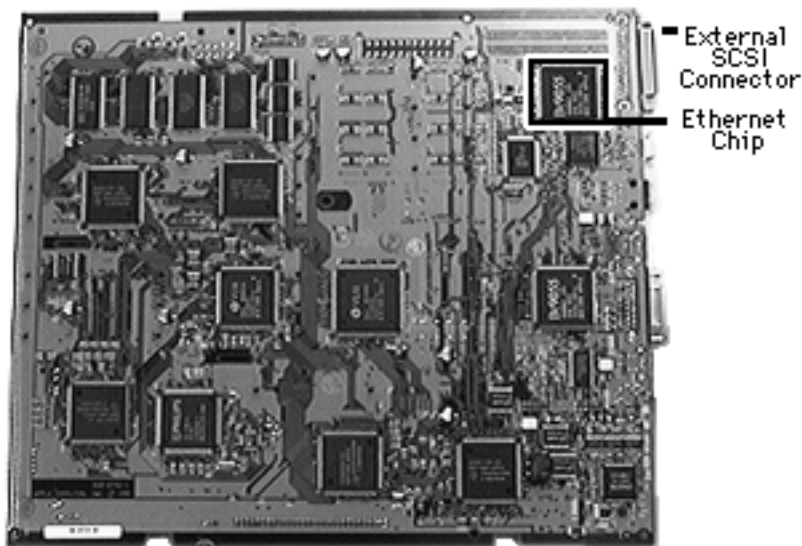
## PM 7600 and Workgroup Server 8550 Logic Board, 22-Pin

661-1154



The Workgroup Server 8550 and Power Macintosh 7600 logic board can be differentiated from the Power Macintosh 7500 logic board by the Ethernet chip on the bottom side of the logic board near the external SCSI port. The new chip, which allows multi-homing and multi node capabilities, is marked with the following character string: AM79C950AKC. The original chip is marked AM79C950KC.

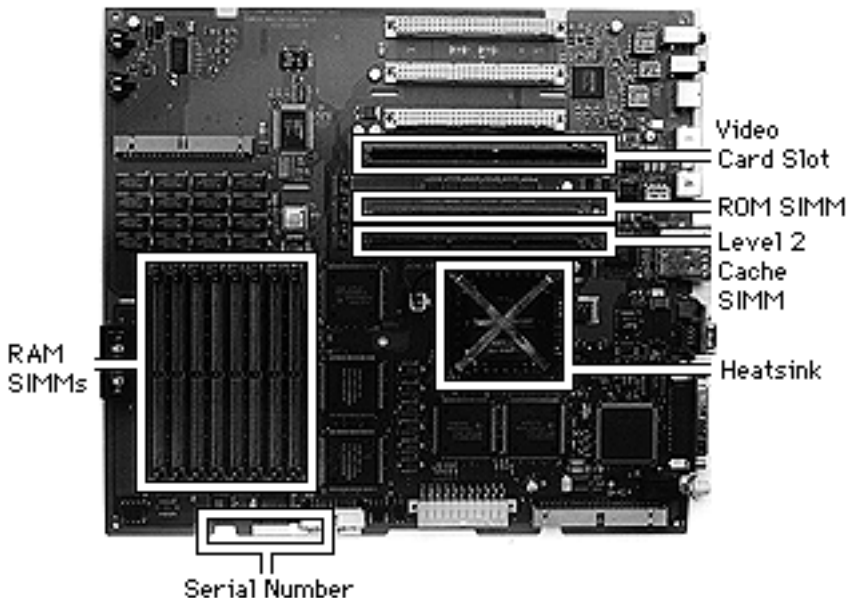




Return this logic board without the following: cache, VRAM, and DRAM DIMMs.

**IMPORTANT:** The WS 8550 and PM 7600 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.



**Power Macintosh 8100/100 Logic Board****661-0209**

To identify the Power Macintosh 8100/100 logic board, check the module serial number. The last three characters are 46C. There may also be a “100 MHz” label near the serial number.

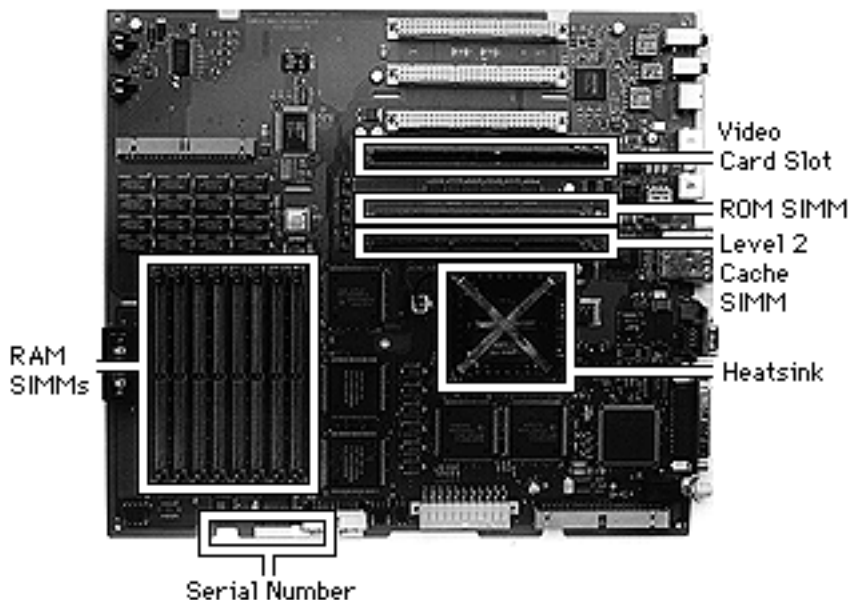
Do not attempt to remove the microprocessor’s heat sink. This will damage the logic board.





## PM 8100/100 Logic Board

661-0209



To identify the Power Macintosh 8100/100 logic board, check the module serial number. The last three characters are 46C. There may also be a "100 MHz" label near the serial number.

Do not remove the heat sink or you will damage the logic board.

Return the board without the following:



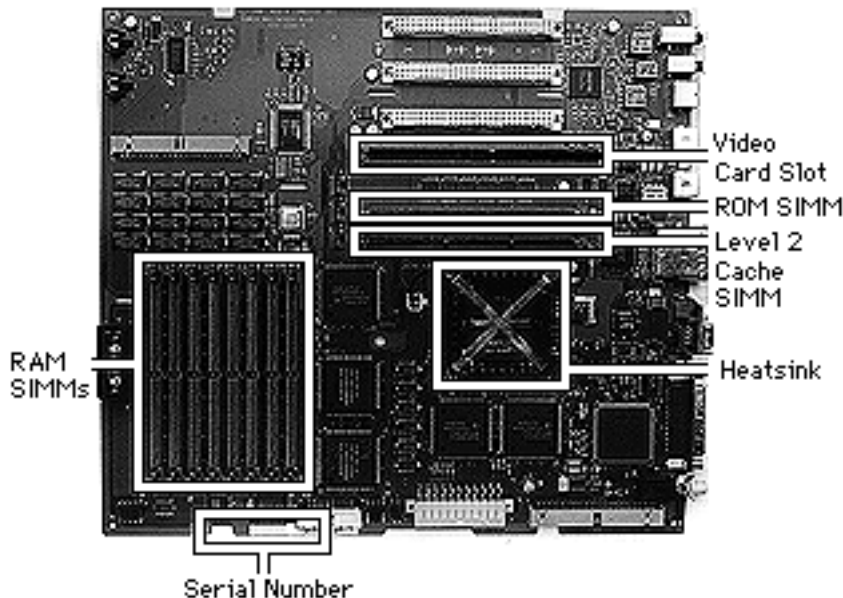




256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

**IMPORTANT:** The Power Macintosh 8100/100 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.



**PM 8100/110, Workgroup, Server 8150/110 Logic Board, 33 MHz****661-0199**

To identify the Power Macintosh 8100/110 logic board, check the module serial number. The last three characters are 42M.

The heat sink has two wires that plug into the logic board. Do not remove the heat sink or you damage the logic board.

Return the board without the following:

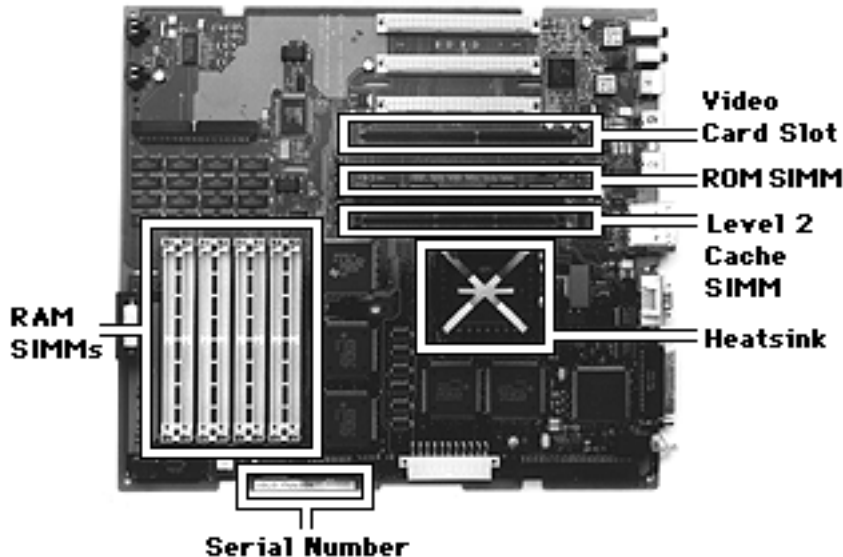




256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

**IMPORTANT:** The Power Macintosh 8100/110 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.



**PM 8100/80, Workgroup Server 8150 Logic Board****661-1026**

To identify the Power Macintosh 8100/80 logic board, check the module serial number. The last three characters are 346.

Do not attempt to remove the microprocessor's heat sink. This will damage the logic board.

Return the board without the following:

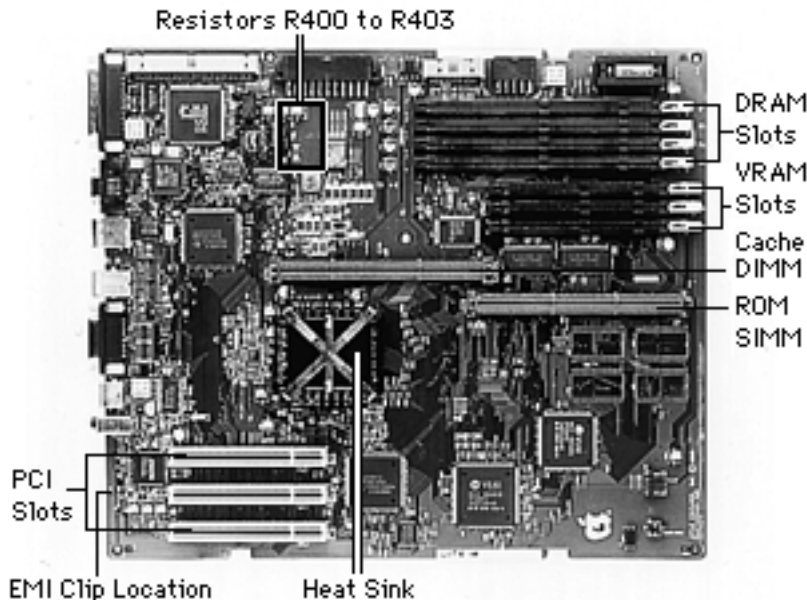




256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

**IMPORTANT:** The Power Macintosh 8100/80 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.



**PM 8200/100 Logic Board (Europe Only)****661-1155**

Do not remove the heat sink or you will damage the logic board.

Return the Power Macintosh 8200/100 logic board without the following: EMI clip, cache, DRAM and VRAM.

**IMPORTANT:** The Power Macintosh 8200 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the





defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

To determine the speed of the logic board refer to the chart on next page.





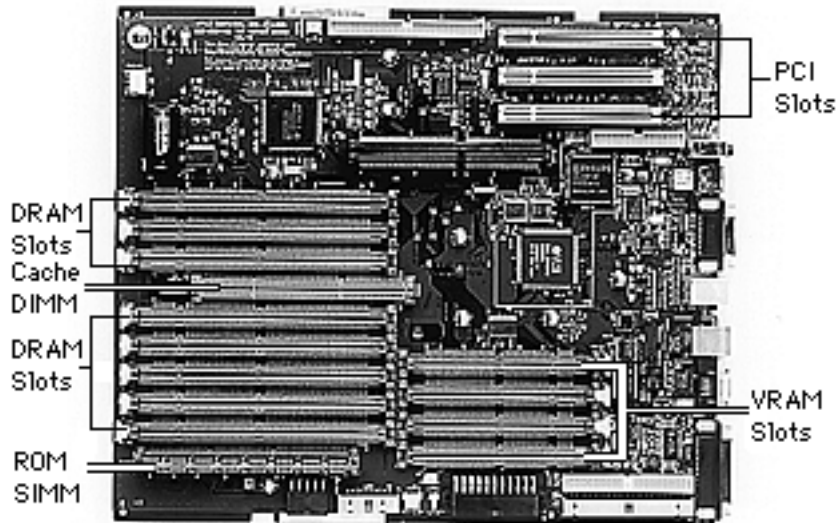
## Logic board speed ID chart.

Service Part Number	661-1000	661-1059	661-0979	661-1059	Europe only 661-1155	661-1080*	661-1180
	75 MHz	90 MHz	90 MHz	90 MHz	100 MHz	120 MHz	120 MHz
R400							
R401							
R402							
R403							

\* European versions of P/N 661-1080 may have R400 and R402 filled instead.





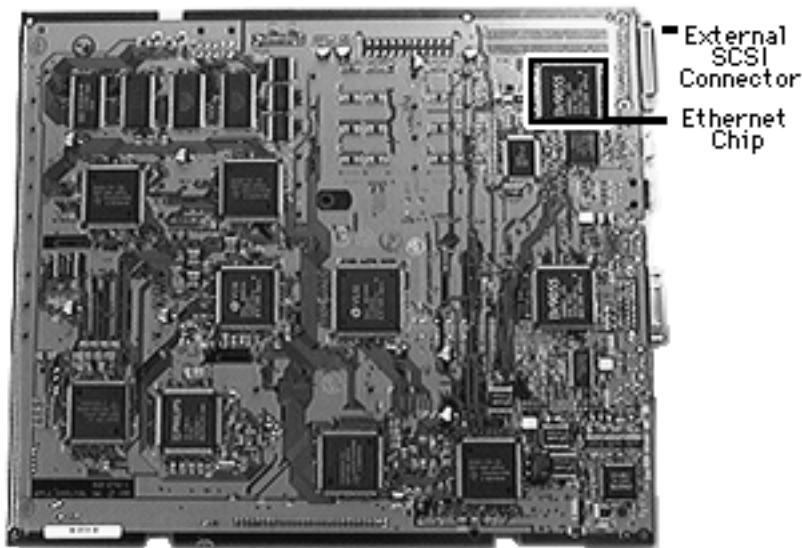
**PM 8500 Logic Board Rev. A, 22-Pin (Replaced by 661-1784)****661-0921**

To identify the Power Macintosh 8500 logic board, check the module serial number. The last three characters are 46B.

Return this logic board without the following: cache, VRAM, and DRAM.

**IMPORTANT:** The Power Macintosh 8500 logic board may have a ROM SIMM rather than ROMs soldered directly to the





logic board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

To distinguish between Rev A. and Rev B. boards locate the Ethernet chip on the bottom side of the logic board near the external SCSI port. If the Ethernet chip has the numbers AM79C950KC, the board is a Rev. A board. If the Ethernet chip has





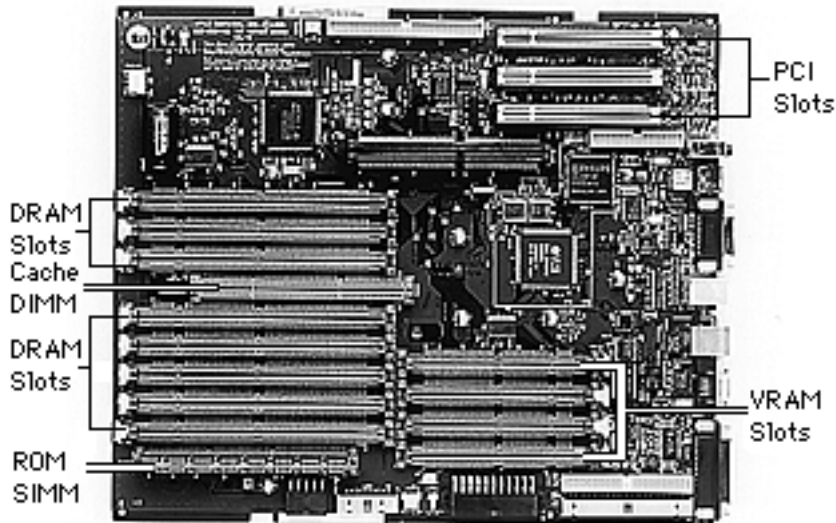
the numbers AM79C950AKC, the board is a Rev. B board, which allows multi-homing and multi-node capabilities.





## PM 8500 Logic Board Rev. B, 22-Pin

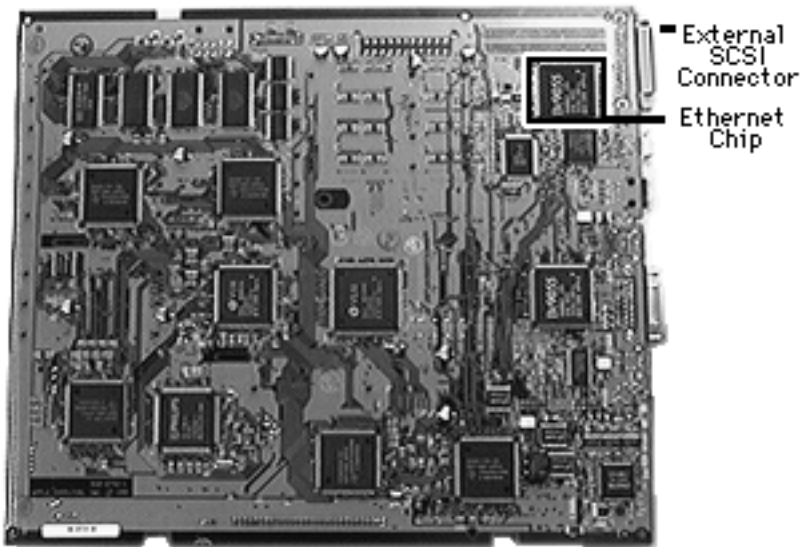
661-1153



Return this logic board without the following: cache, VRAM, and DRAM.

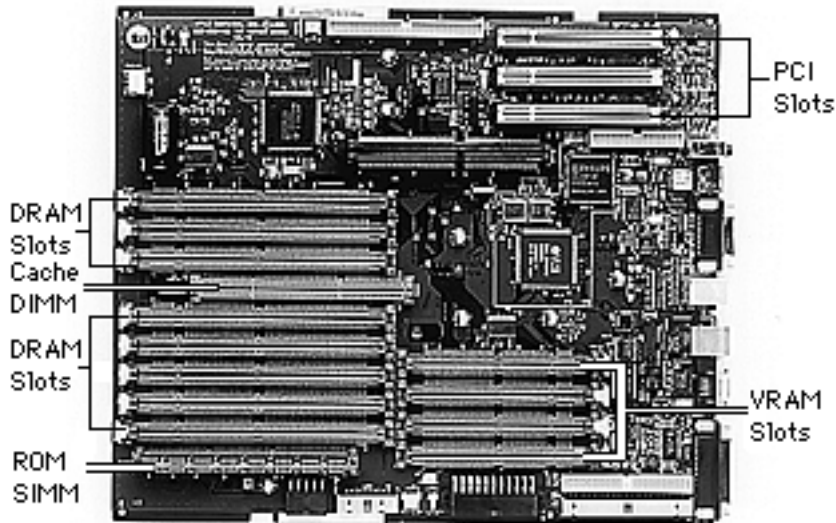
**IMPORTANT:** The Power Macintosh 8500 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.





To distinguish between Rev A. and Rev B. boards locate the Ethernet chip on the bottom side of the logic board near the external SCSI port. If the Ethernet chip has the numbers AM79C950KC, the board is a Rev. A board. If the Ethernet chip has the numbers AM79C950AKC, the board is a Rev. B board, which allows multi-homing and multi-node capabilities.



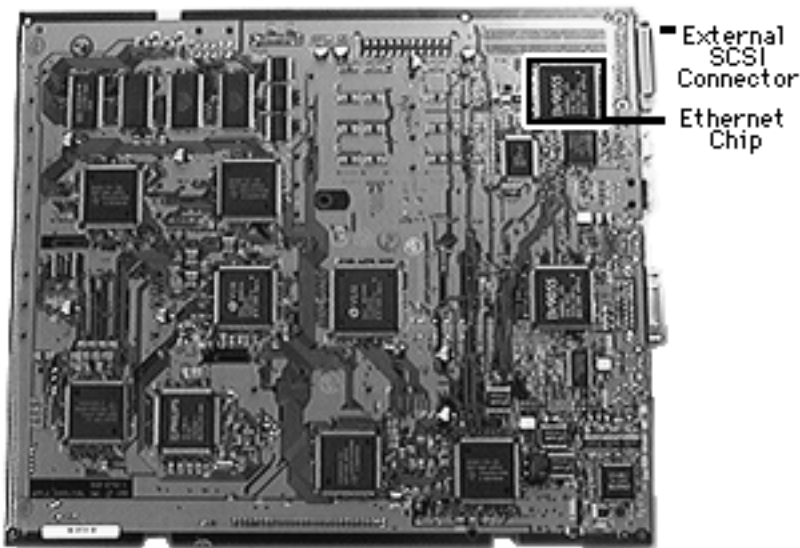
**PM 8500 Logic Board, 22-Pin****661-1784**

To identify the Power Macintosh 8500 logic board, check the module serial number.

Return this logic board without the following: cache, VRAM, and DRAM.

**IMPORTANT:** The Power Macintosh 8500 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the





ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

To distinguish between Rev A. and Rev B. boards locate the Ethernet chip on the bottom side of the logic board near the external SCSI port. If the Ethernet chip has the numbers AM79C950KC, the board is a Rev. A board. If the Ethernet chip has the numbers AM79C950AKC, the





board is a Rev. B board, which allows multi-homing and multi-node capabilities.

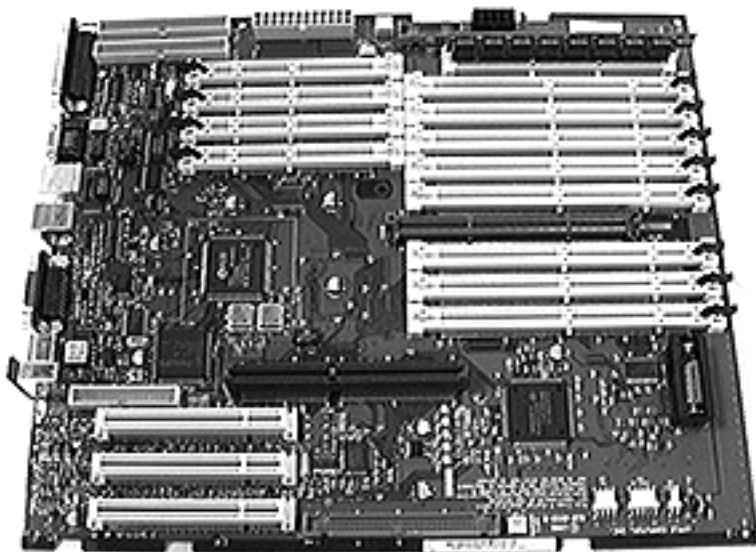






**PM 8600 Logic Board, 24-Pin**

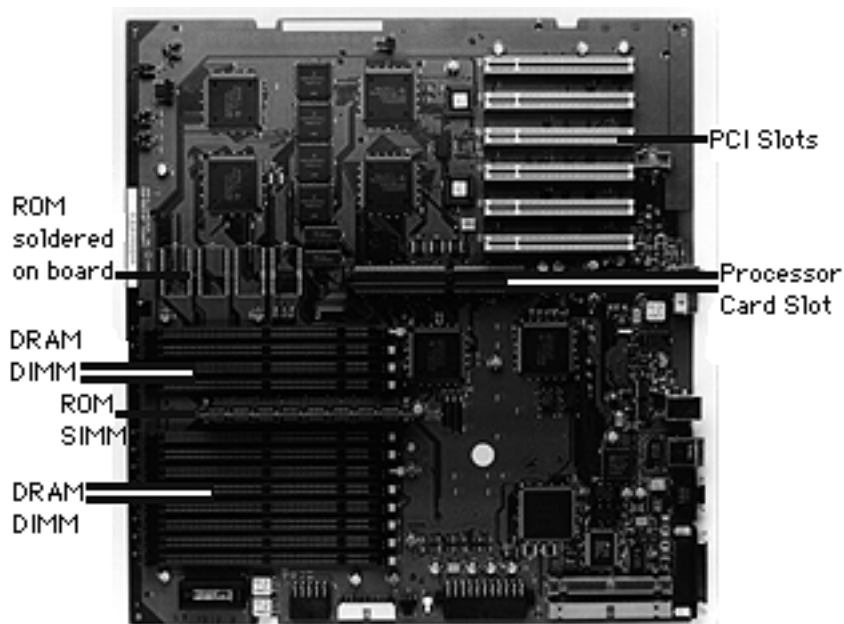
**661-1220**





## PM 9500 Logic Board Rev. A, 22-Pin

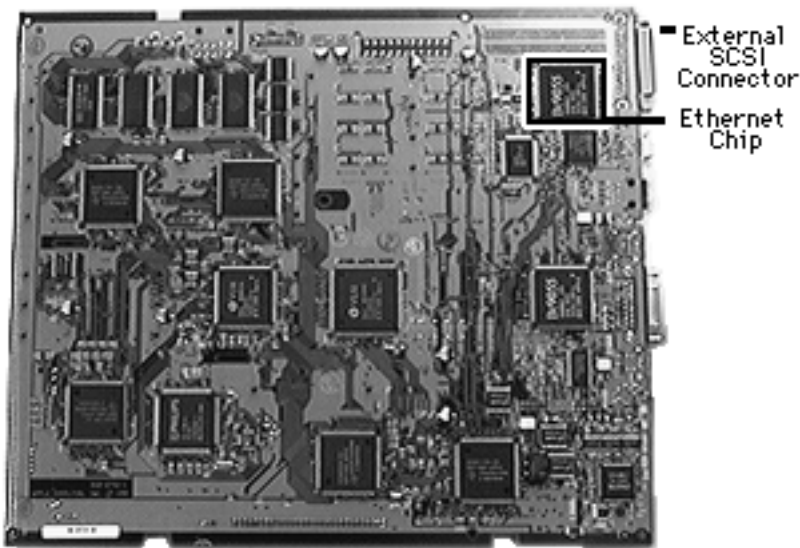
661-0924



Return the logic board without the processor card or DRAM DIMMs.

**IMPORTANT:** The Power Macintosh 9500 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.





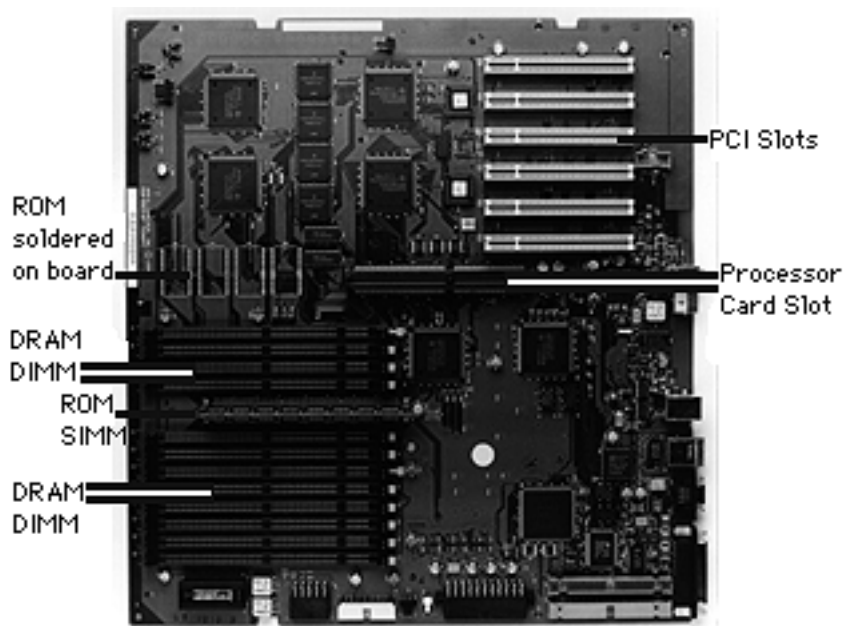
To distinguish between Rev A. and Rev B. boards locate the Ethernet chip on the bottom side of the logic board near the external SCSI port. If the Ethernet chip has the numbers AM79C950KC, the board is a Rev. A board. If the Ethernet chip has the numbers AM79C950AKC, the board is a Rev. B board, which allows multi-homing and multi-node capabilities.





## PM 9500 Logic Board Rev. B, 22-Pin

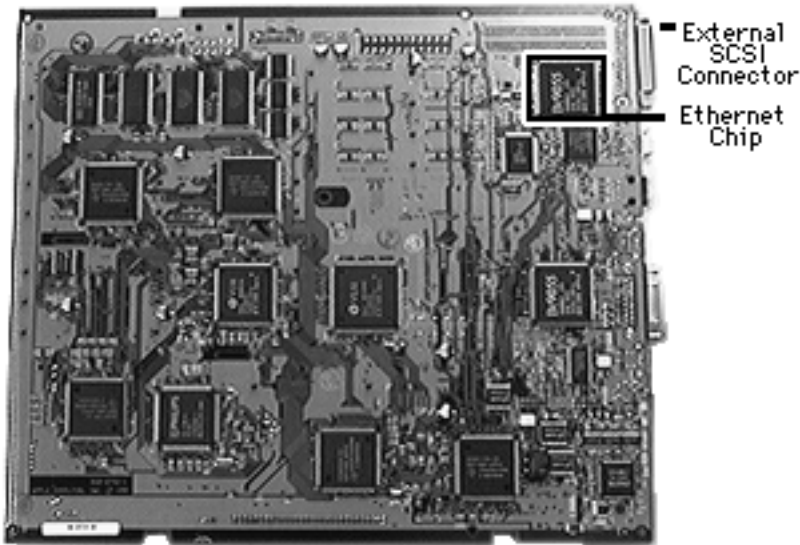
661-1156



Return the logic board without the processor card or DRAM DIMMs.

**IMPORTANT:** The Power Macintosh 9500 logic board may have a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the board.





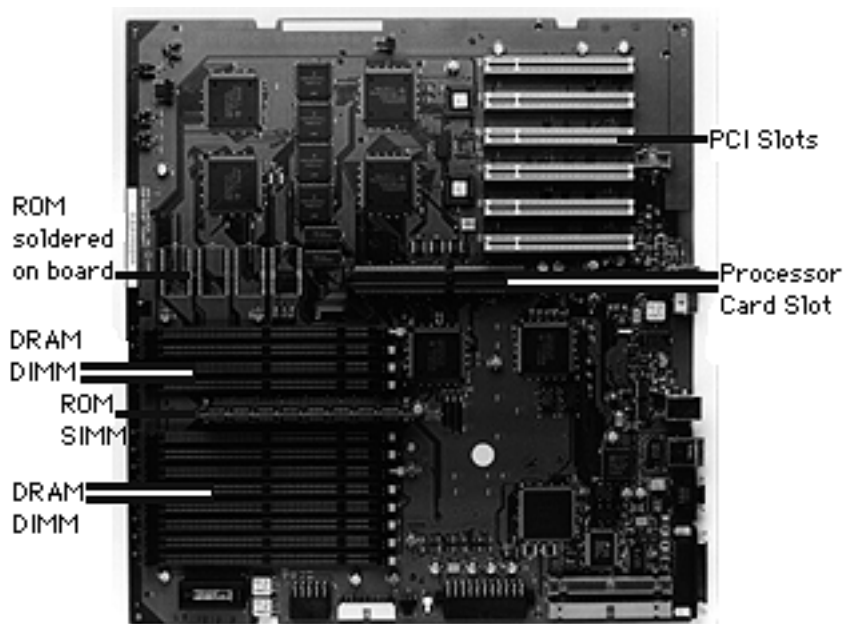
To distinguish between Rev. A. and Rev. B. boards locate the Ethernet chip on the bottom side of the logic board near the external SCSI port. If the Ethernet chip has the numbers AM79C950KC, the board is a Rev. A board. If the Ethernet chip has the numbers AM79C950AKC, the board is a Rev. B board, which allows multi-homing and multi-node capabilities.





## PM 9600 Logic Board, 24-Pin

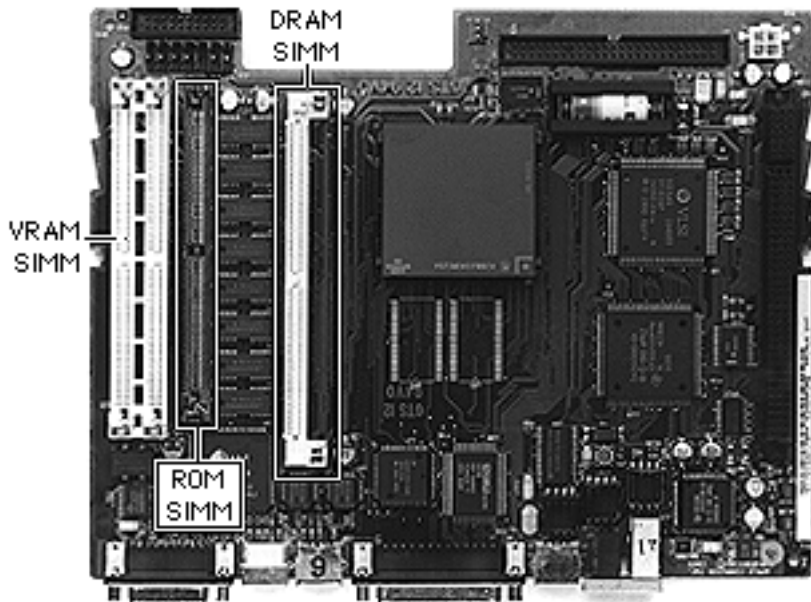
661-1221





## Quadra 605, LC 475, Performa 475, 476 Logic Board

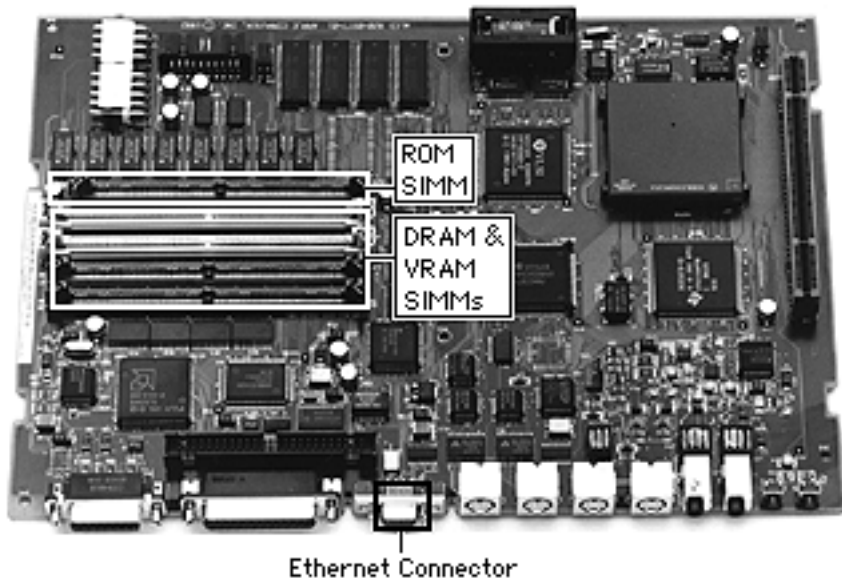
661-1732



Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.



**Quadra 610 Logic Board****661-0043**

The logic board has the part number PC680C040RC25 on the CPU chip.

Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board.

This logic board has the





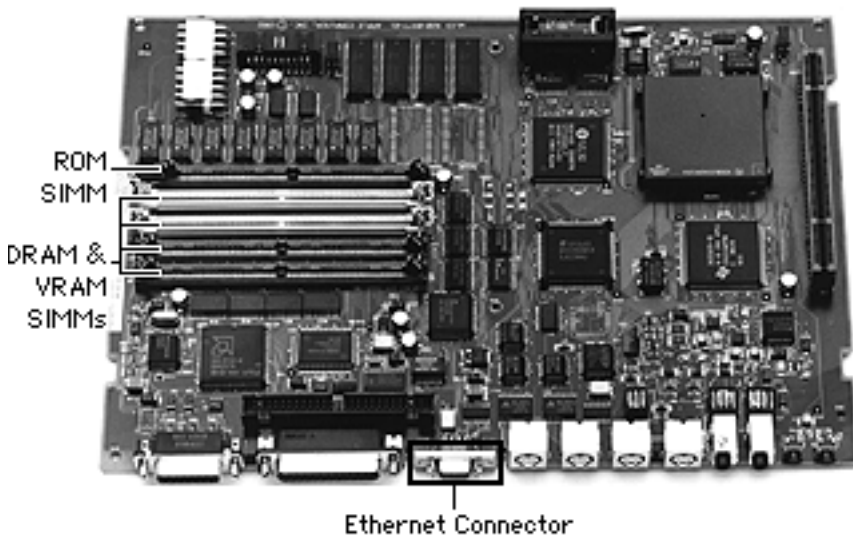


part number “PC68LC040RC25” on the CPU chip.

Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.



**Quadra 610 Logic Board, without FPU****661-0042**

This logic board has the part number PC68LC040RC25 on the CPU chip.

Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board.

If a ROM SIMM is





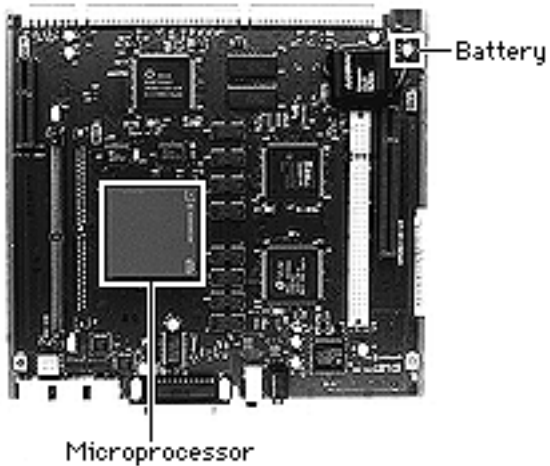
present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

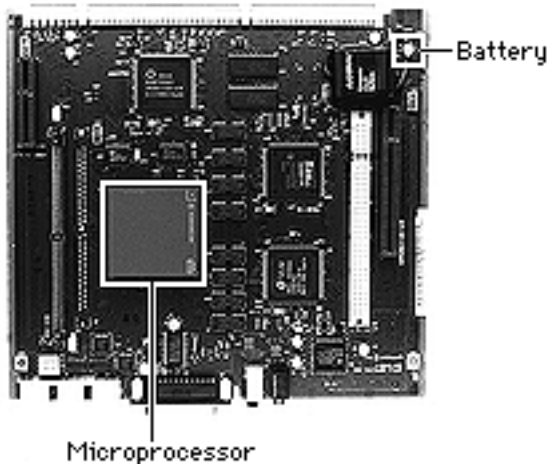




Quadra 630 Logic Board

661-0189



**Quadra 630 Logic Board****661-0189**

The logic board has a 68040 microprocessor in the location indicated.

Disconnect the battery before returning the logic board to Apple.

Return the logic board without DRAM SIMMs.





**Quadra 630 Logic Board, 2-72 Pin SIMM slots, 4 MB,  
without FPU, DOS Compatible**

**661-1114**

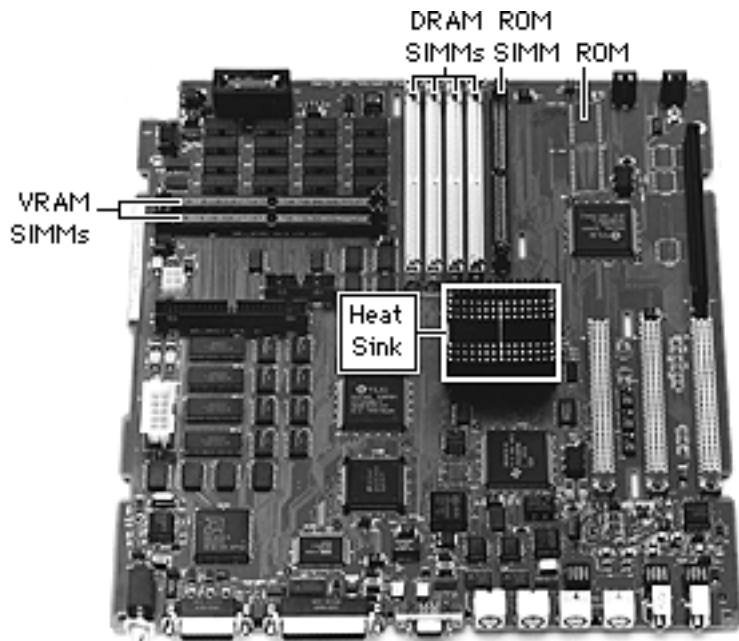




**Quadra 630 Logic Board, 4 MB, with FPU, DOS Compatible,  
International**

**661-1115**



**Quadra 650 Logic Board, 8 MB****661-0044**

This 8 MB logic board has the part number XC68040RC33E on the CPU chip. You must remove the heat sink to view the part number.

Return the logic board without DRAM or VRAM SIMMs.

The Macintosh Quadra 650 logic board has part numbers 341S1074 and 341S1075 on the ROM chip.

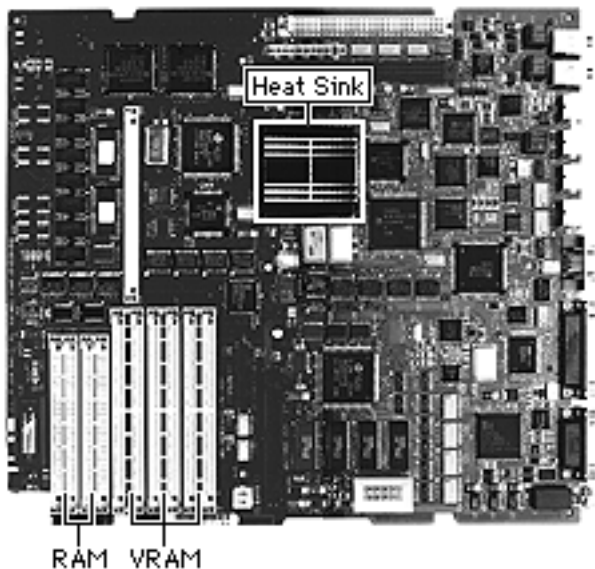






Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

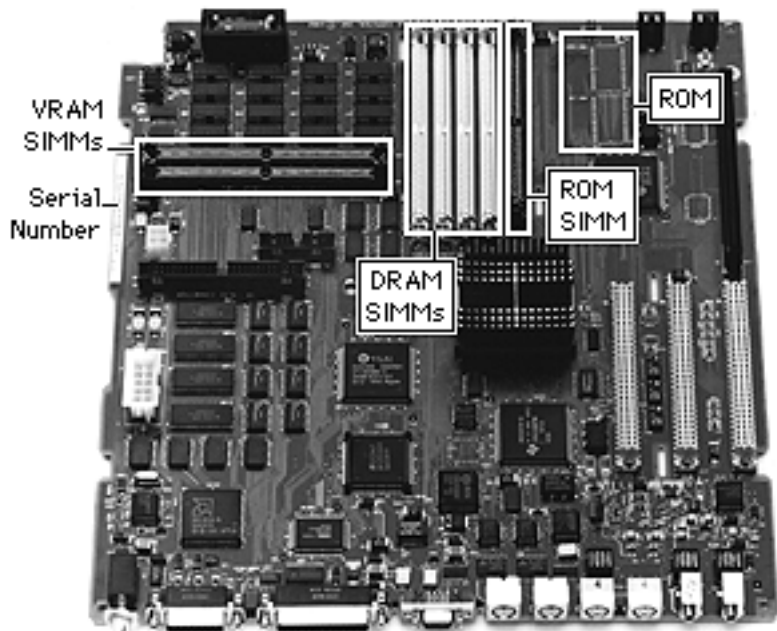


**Quadra 700 Logic Board****661-0666**

The heat sink must remain on the board when you return the board to Apple.

Return the Macintosh Quadra 700 logic board without RAM or VRAM SIMMs.



**Quadra 800 Logic Board, 8 MB, FPU, with Ethernet****661-1676**

To identify the logic board, refer to the module serial number: the last five characters contain the code Z05.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place.

DO NOT REMOVE the ROM



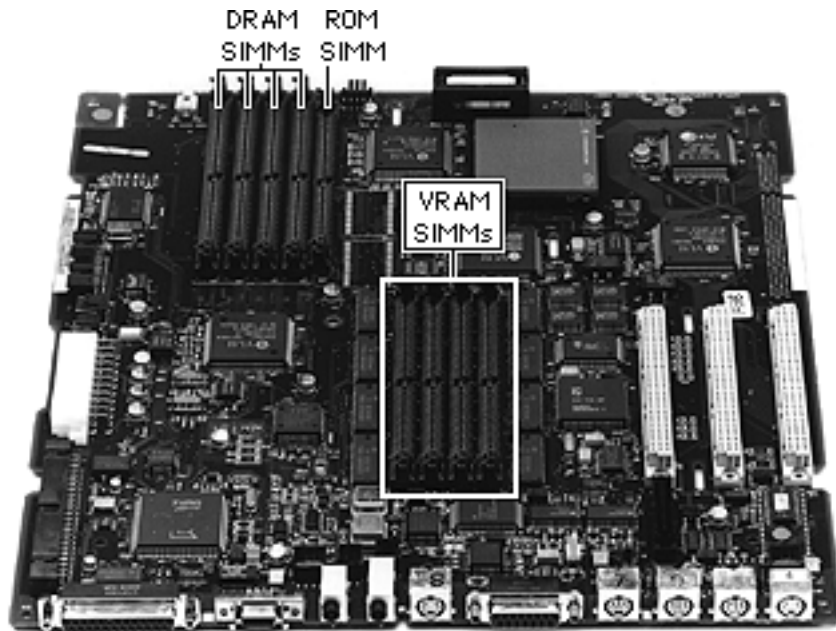


SIMM from the logic board.





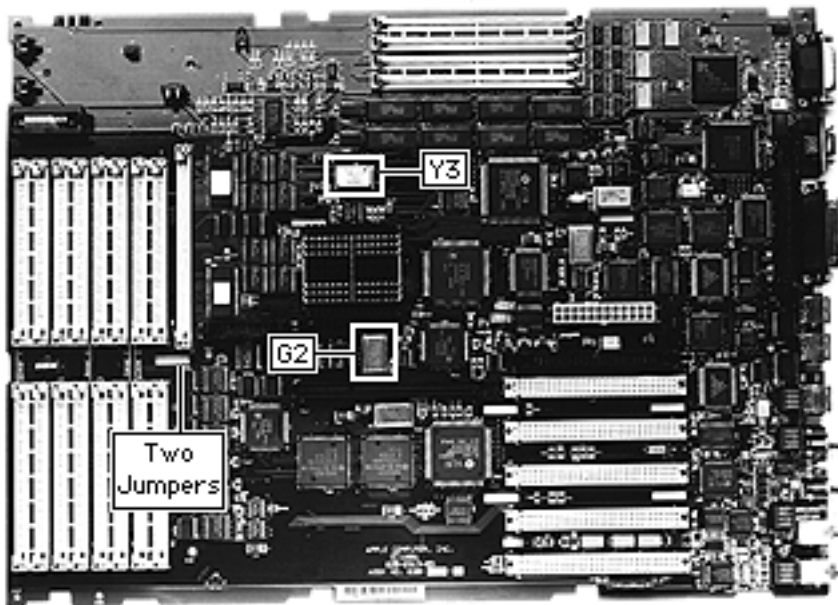
## Quadra 840AV Logic Board

**661-1700**

Return the Macintosh Quadra 840AV logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. **DO NOT REMOVE** the ROM SIMM from the logic board.



**Quadra 900 Logic Board****661-0665**

Return the Macintosh Quadra 900 logic board with the two short jumpers—the jumpers connecting pin 1 to pin 2 and pin 3 to pin 4—on connector J16.

Return the logic board without DRAM or VRAM SIMMs.

Important: Some logic boards have a ROM SIMM rather than ROMs soldered directly to the

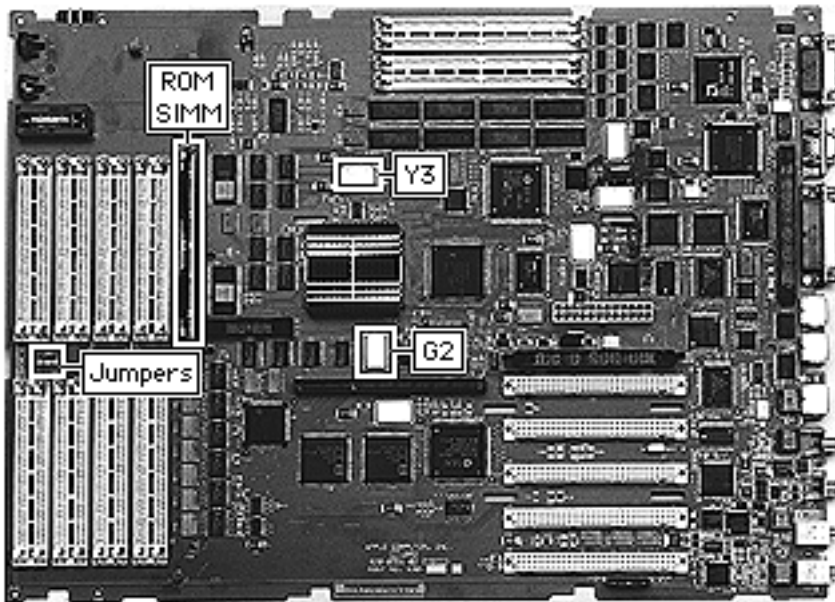




board. If a ROM SIMM is present, return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

Logic board identification: The Macintosh Quadra 900 logic board looks very similar to the Macintosh Quadra 950 and the Apple Workgroup Server 95 logic boards. If component Y3 is labeled 66.6667 MHz and component G2 is labeled 48.56832 MHz, the board is for a Macintosh Quadra 950 or the Apple Workgroup Server 95. If component Y3 is labeled 50.0000 MHz and component G2 is labeled 31.3344 MHz, the board is for a Macintosh Quadra 900.



**Quadra 950, Apple Workgroup Server 95 Logic Board****661-0727**

Return this logic board with the two short jumpers—the jumpers connecting pin 1 to pin 2 and pin 3 to pin 4—on connector J16.

Some of the early logic boards use a ROM SIMM. ROMs on these boards are marked with the word Zydeco or with part numbers 3410291 c/sum 333ca and 341 c/sum 7d96f at locations U23 and U50





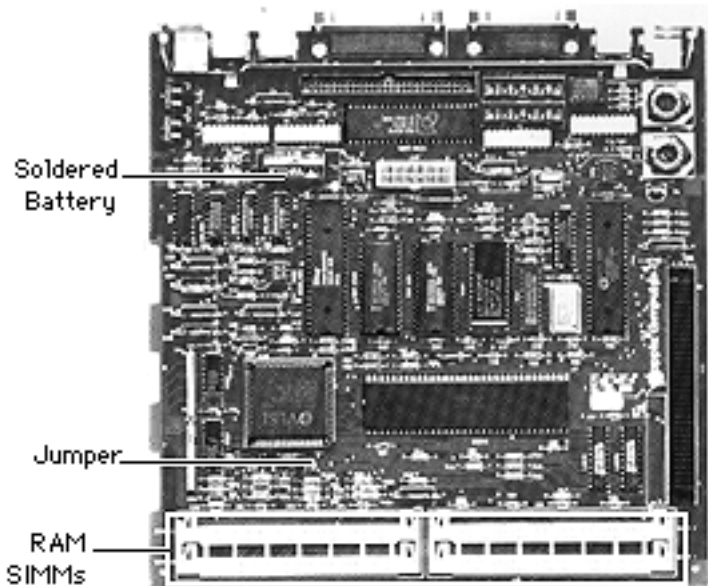


respectively. The ROM SIMM must remain on the board when you return the board to Apple. Later version logic boards do not require a ROM SIMM.

Return the logic board without DRAM or VRAM SIMMs.

Logic board identification: This logic board looks very similar to the Macintosh Quadra 900 logic board. If component Y3 is labeled 66.6667 MHz and component G2 is labeled 48.56832 MHz, the board is for a Macintosh Quadra 950 or Apple Workgroup Server 95. If component Y3 is labeled 50.0000 MHz and component G2 is labeled 31.3344 MHz, the board is for a Macintosh Quadra 900.



**SE 800K Logic Board****661-0526**

You can identify the 800K logic board by the presence of a jumper block and a soldered battery. You can position the jumper block to configure RAM to 1, 2, 2.5, or 4 megabytes.

If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/N 342-0701 and 342-0702) for the Apple SuperDrive upgrade,





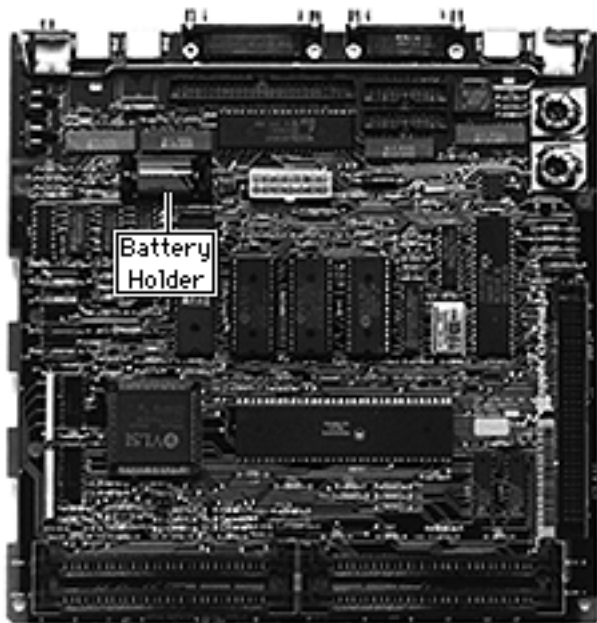
remove these components from the failed logic board and install them on the replacement logic board.

Return the Macintosh SE logic board without RAM SIMMs.





## SE Apple SuperDrive Logic Board

**661-0536**

You can identify the Apple SuperDrive logic board by the presence of a battery holder.

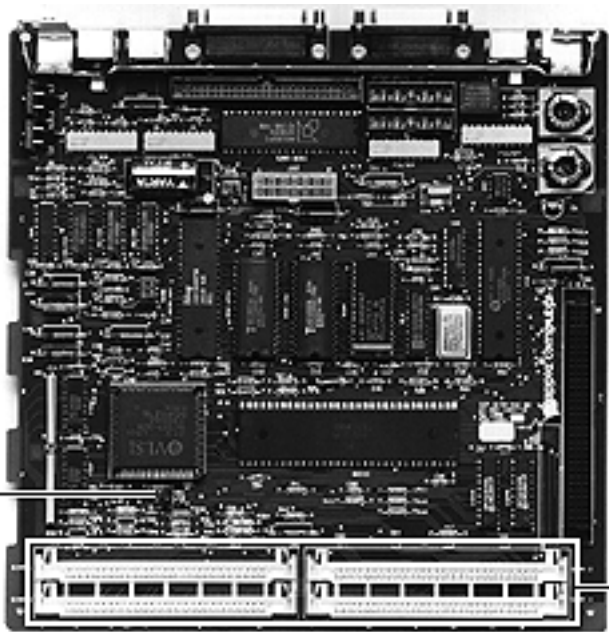
Do not use this logic board to replace a failed SE logic board or an SE logic board that has the Apple SuperDrive upgrade. Use this logic board only to replace a failed original Apple SuperDrive logic board. Return the logic board without RAM SIMMs.





## SE Logic Board

661-0490



This is a revised logic board. You can identify the revised logic board by the presence of a jumper block. You can position the jumper block to configure RAM to 1, 2, 2.5, or 4 megabytes. The jumper is located in the area noted.

If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/N 342-





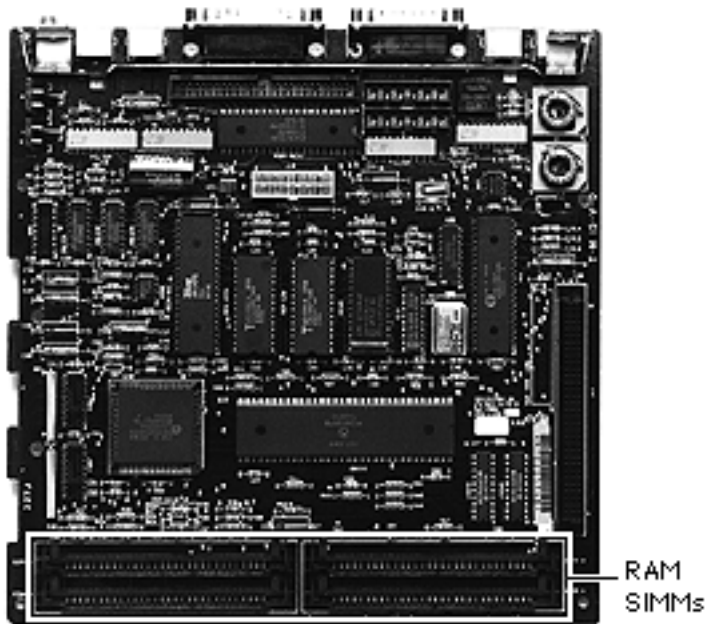
0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.





## SE Logic Board

661-0369



When you return P/N 661-0369, Apple ships you P/N 661-0526.

If the logic board contains a SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board

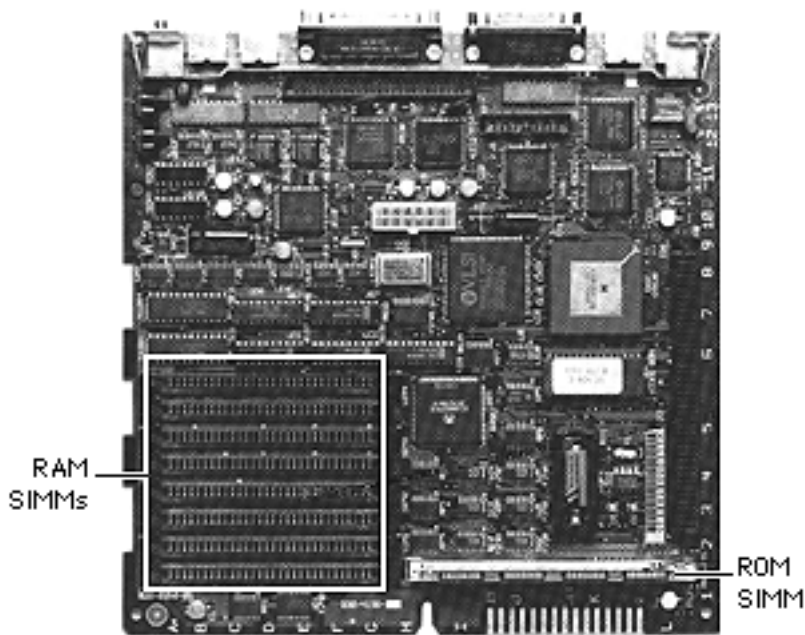




and install them on the replacement logic board.



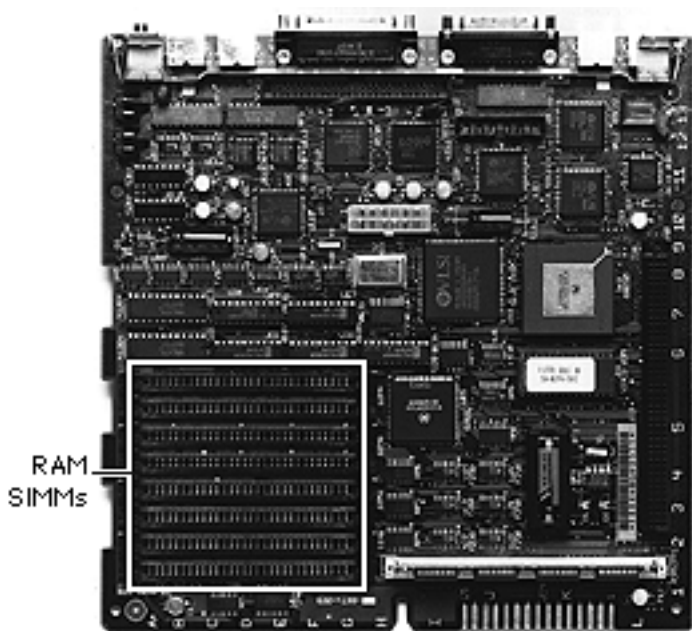


**SE/30 Logic Board****661-0527**

When you return P/N 661-0510, Apple ships you P/N 661-0527.

Return the Macintosh SE/30 logic board without RAM SIMMs, but with the ROM SIMM.

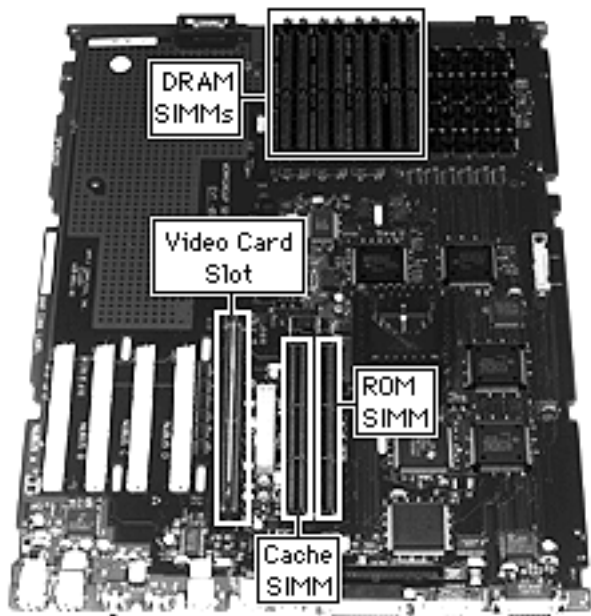


**SE/30 Logic Board****661-0510**

When you return P/N 661-0510, Apple ships you P/N 661-0527.

Return the Macintosh SE/30 logic board without RAM SIMMs.



**Workgroup Server 9150 Logic Board****661-0132**

Return the Workgroup Server 9150 logic board WITH the following components:

- Video card slot terminator board
- ROM SIMM

Return the logic board WITHOUT the following components:

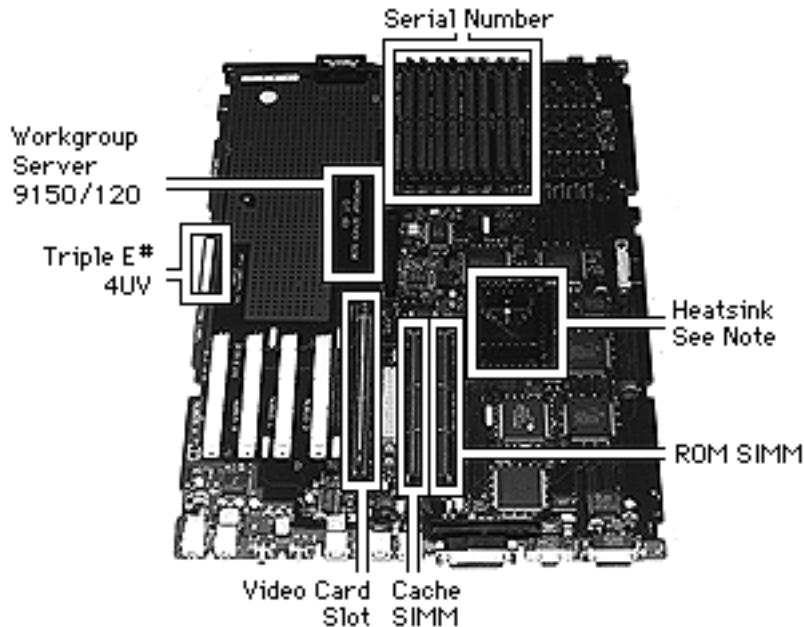
- DRAM SIMMs
- Cache SIMM





Important: The Workgroup Server 9150 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.



**Workgroup Server 9150/120 Logic Board****661-0210**

The heatsink on the 9150/120 logic board differs from the Workgroup Server 9150 heatsink and includes a peltier wire.

To identify the 9150/120 logic board, refer to the module serial number. For P/N 661-0210, the last five characters contain the code 4UV.





The name “Workgroup Server 9150/120 is silkscreened on the board.

Return the Workgroup Server 9150/120 logic board WITH the following components:

- Video card slot terminator board
- ROM SIMM

Return the logic board WITHOUT the following components:

- RAM SIMMs
- Cache DIMM

Important: The Workgroup Server 9150/120 logic board has a ROM SIMM rather than ROMs soldered directly to the board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

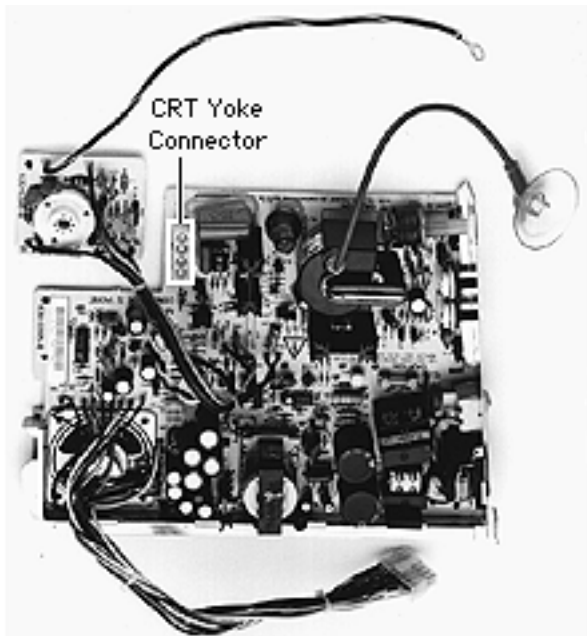




CPU Other Boards

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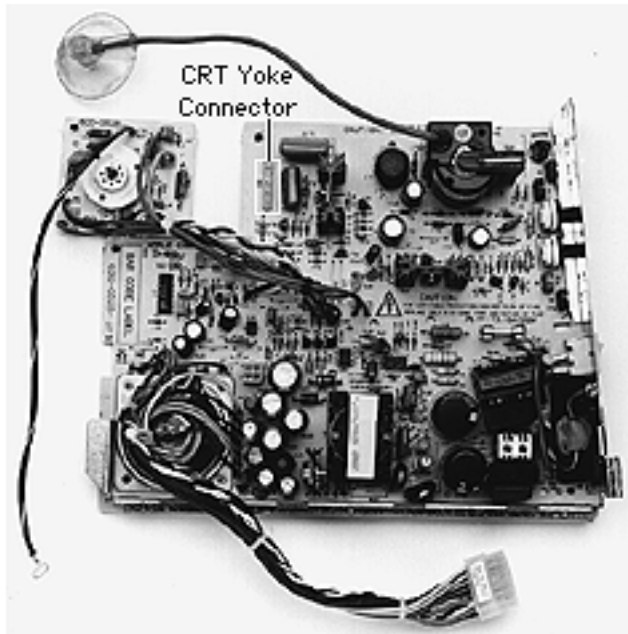


**Classic Power Sweep Board (110 V), Rev. A****661-0597**

The two versions of the power sweep board, Rev. A and Rev. B, are functionally equivalent, but not interchangeable. The CRT yoke connector on power sweep board Rev. A has plastic sleeves surrounding the prongs.





**Classic, Performa 200 Power Sweep Board (110 V), Rev. B****661-0651**

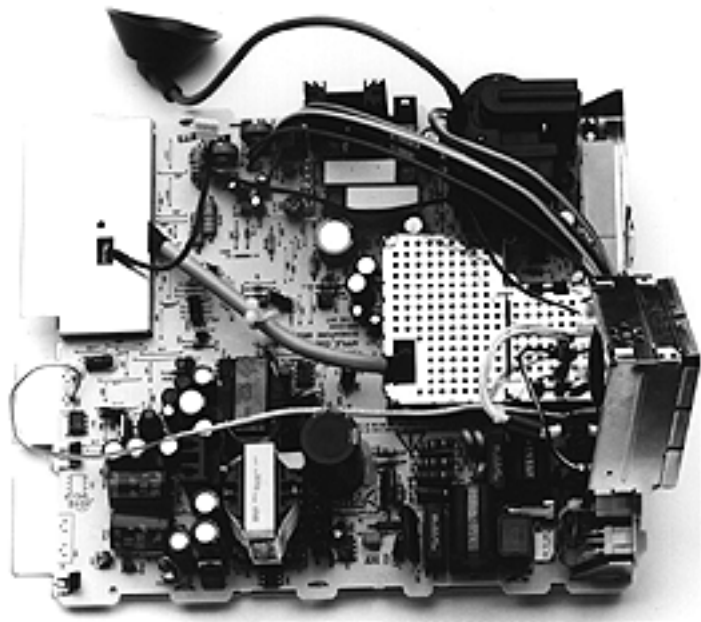
The two versions of the power sweep board, Rev. A and Rev. B, are functionally equivalent but not interchangeable. The CRT yoke connector on power sweep board Rev. B is a series of four exposed prongs.

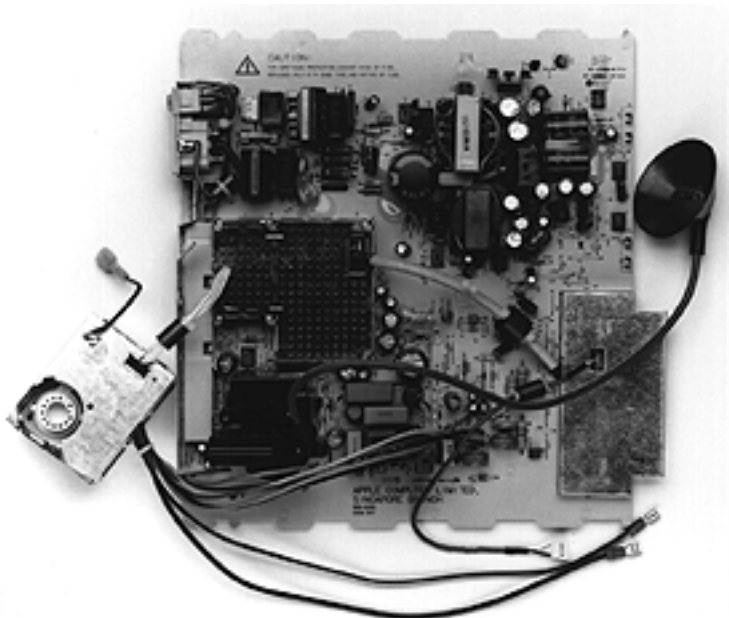




**Color Classic Analog Board**

**661-0732**



**LC 520, Performa 550/575 Analog Board****661-0813**

When you return P/N 661-0813; Apple ships you P/N 661-0192.





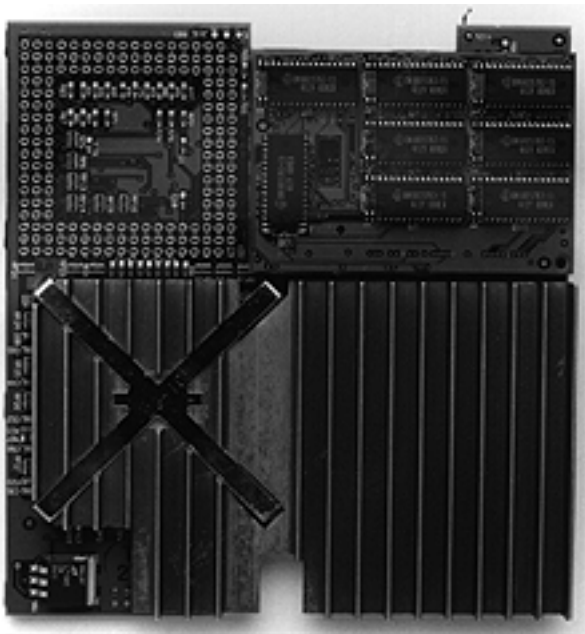
**LC 520/550/575 and Performa 550, Analog Board**

**661-0192**





## Macintosh Processor Upgrade

**661-0255**

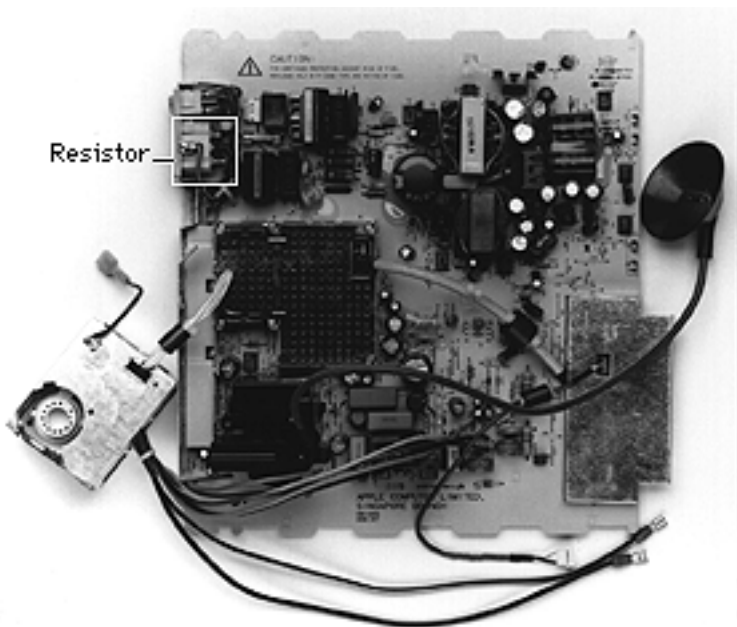
Remove the 6840/  
68LC040 processor  
before returning the  
Macintosh processor  
upgrade to Apple.

The 256K cache must be  
installed on the board.





## Macintosh TV Analog Board

**661-0872**

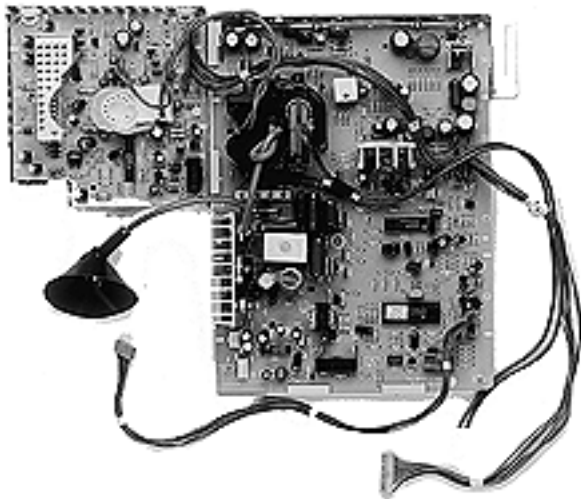
The Macintosh LC 520 and the Macintosh TV analog boards look similar. The Macintosh TV analog board has a resistor soldered on the back of the AC connector. The Macintosh LC 520 does not.





**Performa 5200/5300, PM 5200/5300 Boards Assembly,  
Analog/CRT Neck**

**661-1118**



Use only w/661-1117  
and/or 922-2043.

The two pin connector  
for the video adjustment  
cable is now labeled  
P102. It is in the lower  
left quadrant of the  
board as you are facing  
the component side of the  
board.





Performa 5420, PM 5400/120 Board, Analog w/Neck

661-1182

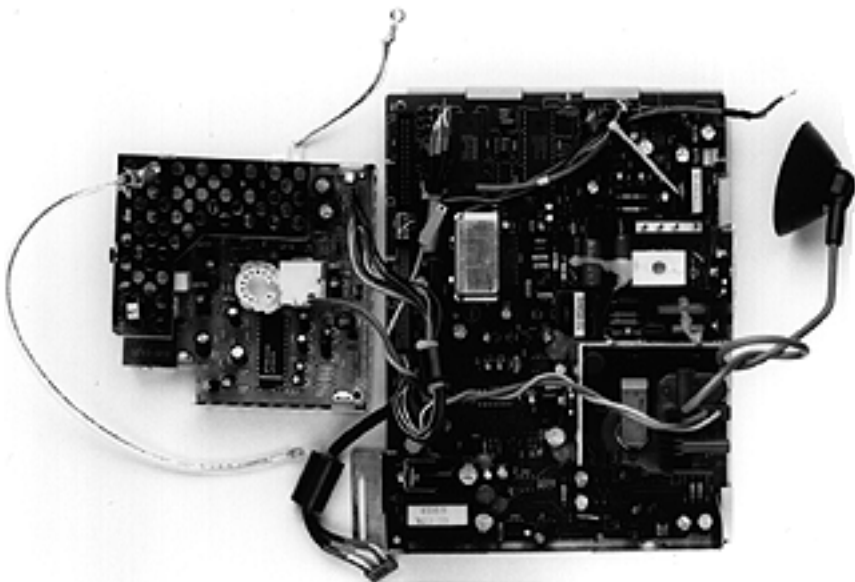






**PM 5200/75, LC, Performa 5200 Series Analog/Video Board**

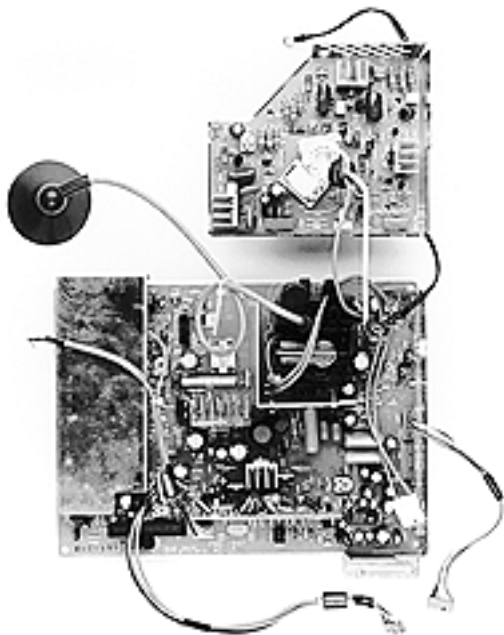
**661-0928**





PM 5260/100 Analog/Video Board

661-1134



**Power Sweep Board (220 V) Power Supply****661-76214**

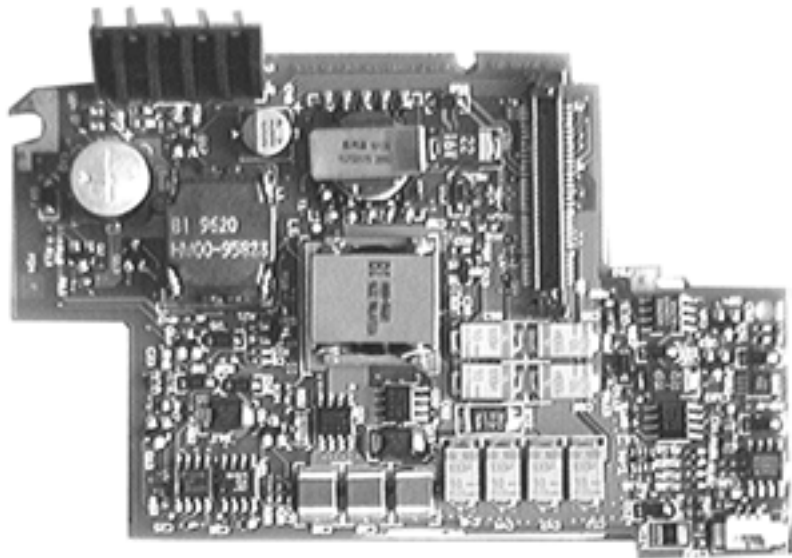
Return the power-supply-to-logic-board cable to Apple with the defective board. Keep the brightness knob and battery with the customer's replacement board.





# PowerBook 3400 Power Supply Board

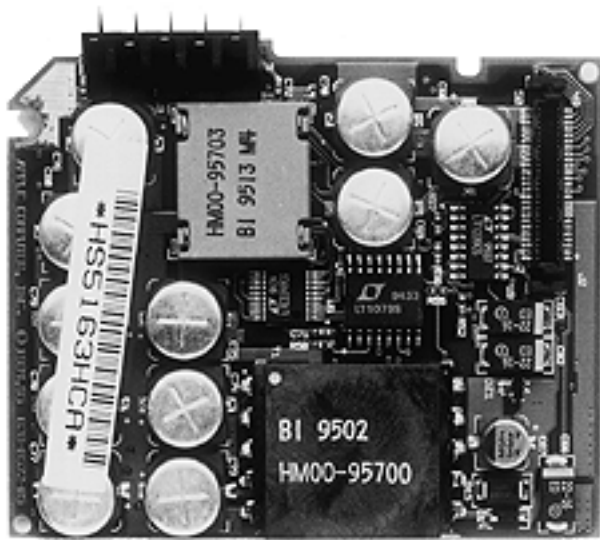
661-1237

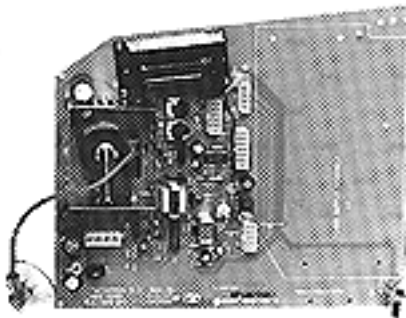
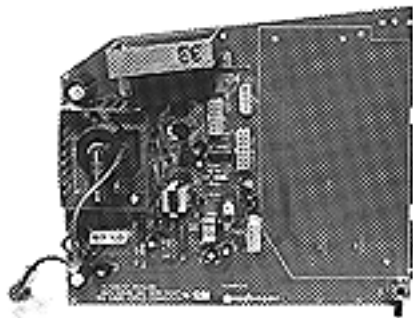




PowerBook 5300 Series Power Supply Board

661-1056



**SE Analog Board****661-0371**

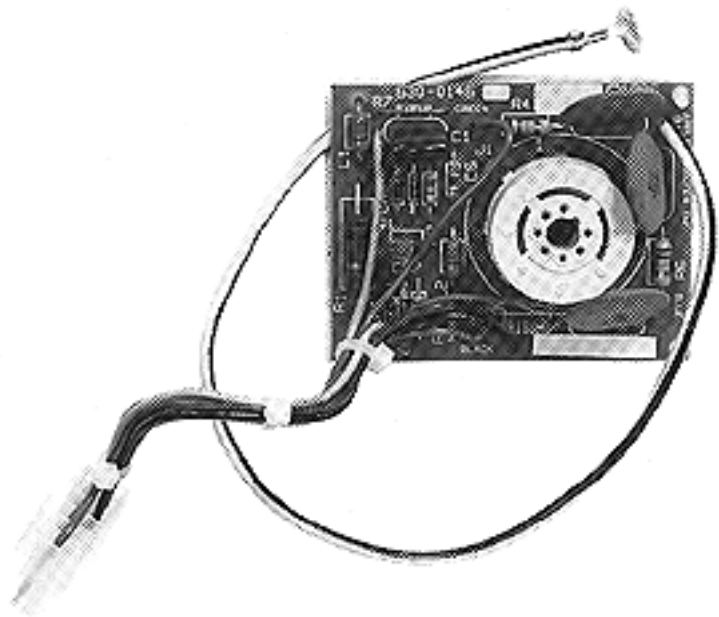
Return the anode cable to Apple with the defective board. Keep the brightness knob and all other cables for the customer's replacement board.

Both versions of this board, shown above, are acceptable for return.



**SE Video Board****661-0372**

When you return P/N 661-0372, Apple ships you P/N 982-0024.





## CPU Power Supplies

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## DuoDock Power Supply

**661-1660**



The Macintosh Duo Dock power supply has the assembly part number 614-0005 on the module label.

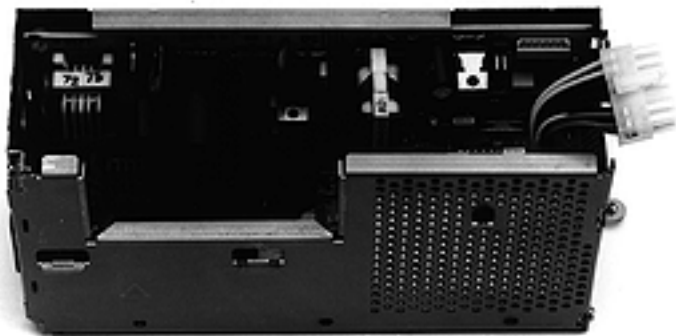




**LC, Quadra 630, Performa 6200 Series, Performa 630 Series  
Power Supply**

**661-0170**

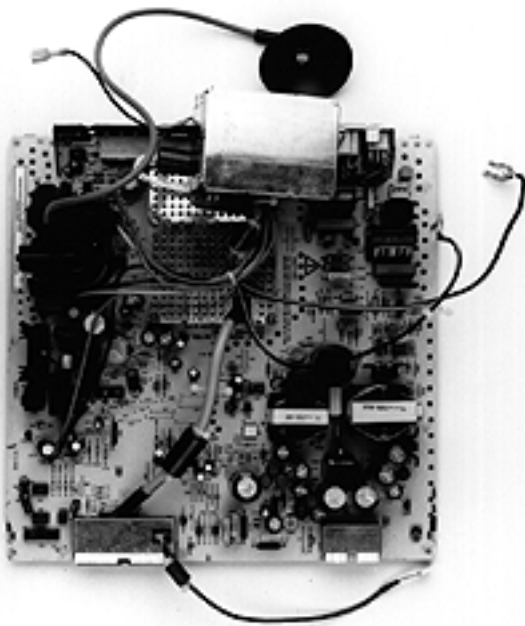
This part is used in  
Performa:  
6200, 6205CD,  
6214CD, 6216CD,  
6218CD, 6220CD,  
6230CD, 6290, and  
6300CD computers.

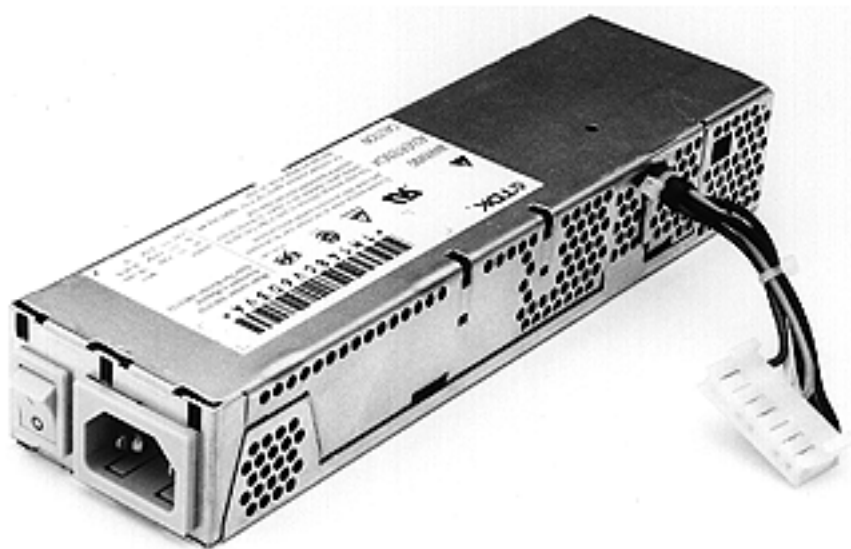




LC 580, Performa 580 CD Power Supply

661-0940



**LC/LC II, Performa 400 Series Power Supply****661-0594**

When you return P/N 661-0594, Apple ships you P/N 661-0787.

This power supply has the assembly part number 699-0153 on the module label.

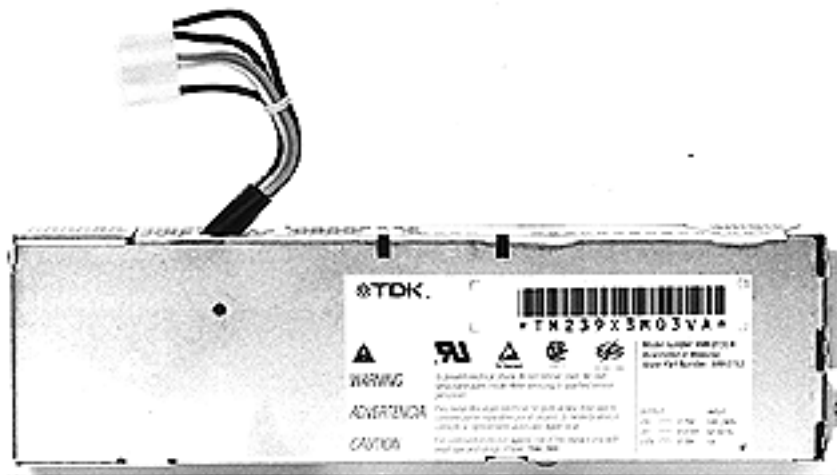


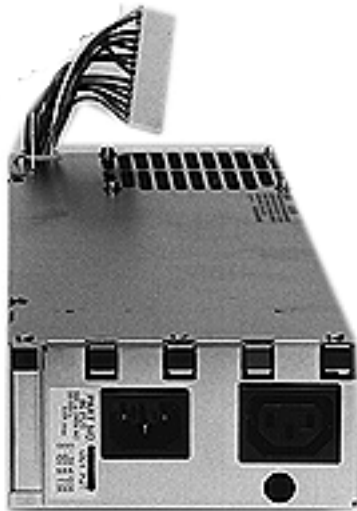


## LC/LC II/LC III, Performa 450/460 Series, Quadra 605 Power Supply

661-0787

This power supply has the assembly part number 614-0003 on the module label.



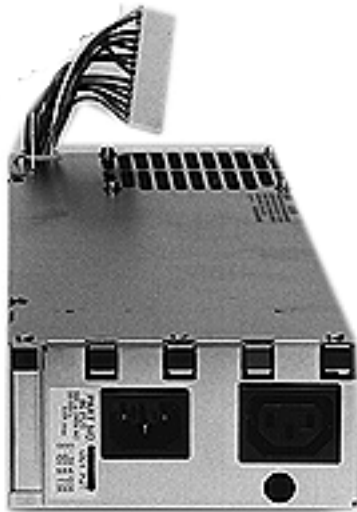
**Mac II/IIx Power Supply****661-0542**

The Macintosh II/IIx power supplies have the following assembly part numbers on the module label:

Apple P/N 661-0375 =  
Assembly P/N 699-0389

Apple P/N 661-0542 =  
Assembly P/N 699-0393



**Mac II/IIx Power Supply****661-0375**

The Macintosh II/IIx power supplies have the following assembly part numbers on the module label:

Apple P/N 661-0375 =  
Assembly P/N 699-0389

Apple P/N 661-0542 =  
Assembly P/N 699-0393





Mac Ilcx/Ilci/Quadra 700 Power Supply

661-0467







**Mac Ilcx/Ilci/Ilvi, Centris 650, Quadra 700, Power Mac  
Power Supply, 112 W**

**661-0758**



The Macintosh 112 Watt power supply has the assembly part number 614-0009 on the module label.





## Mac Ilsi Power Supply

**661-1616**

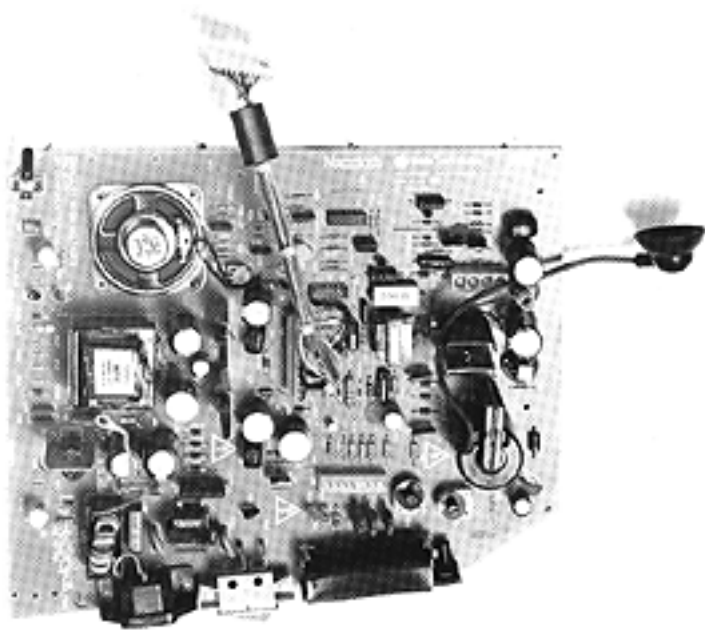
The Macintosh IIsx power supply has the assembly part number 699-0567 on the module label.



**Macintosh Power Supply, 86 W****661-1688**

The Macintosh 86 Watt power supply has the assembly part number 614-0022 on the module label.



**Macintosh Power Supply, 110 V, Beige Switch****661-0461**

When you return P/N 661-0461, Apple ships you P/N 661-0462.

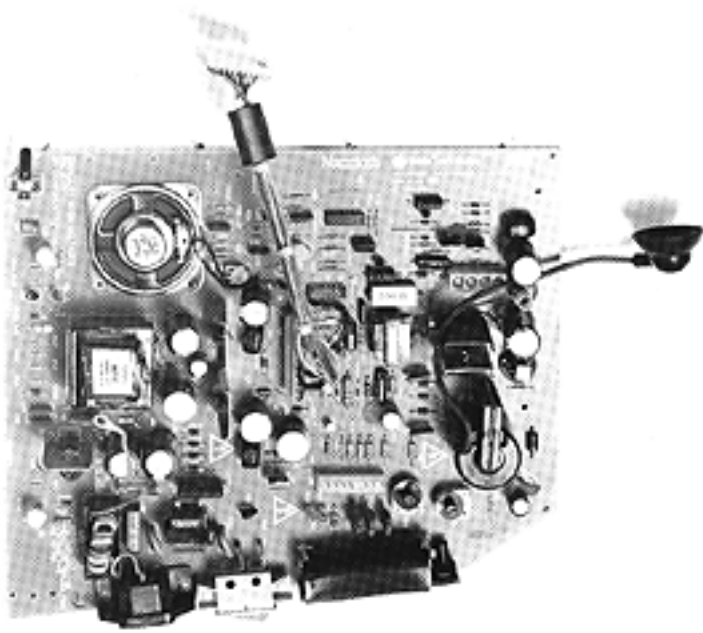
The previous service module (P/N 661-76153) contained a beige or platinum switch. P/Ns 661-0461 and 661-0462, which specify switch color, replace P/N 661-76153.





Return the power-supply-to-logic-board cable to Apple with the defective board. Keep the brightness knob and battery with the customer's replacement board.



**Macintosh Power Supply, 110 V, Platinum Switch****661-0462**

The previous service module (P/N 661-76153) could have either a beige or a platinum switch. P/Ns 661-0461 and 661-0462, which specify switch color, replace P/N 661-76153.

Return the power-supply-to-logic-board cable to Apple with the defective board.





Keep the brightness knob and battery with the customer's replacement board.

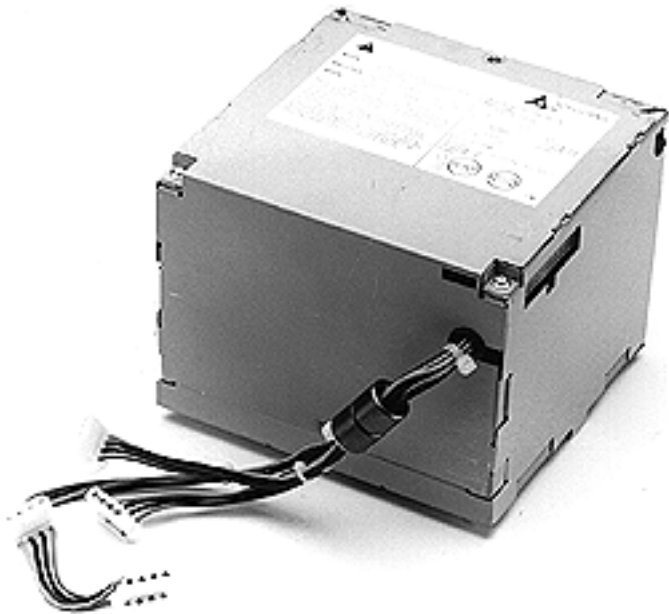


**Macintosh Power Supply, 200 W****661-1687**

The Macintosh 200 Watt power supply has the assembly part number 614-0012 on the module label.





**Macintosh Power Supply, 225 W****661-0232**

This power supply has the assembly part number 614-0040 on the module label.





**Performa 5200/5300, PM 5200/5300 Power Supply, Rev. B**

**661-1117**

Use only w/661-1118  
and/or 922-2043.





**Performa 5420 Board, Power Supply**

**661-1138**





## Performa 6320 Power Supply

**661-1053**

This part is used in Performa 6320 and 6360 computers.





## Performa 6400 Series Power Supply

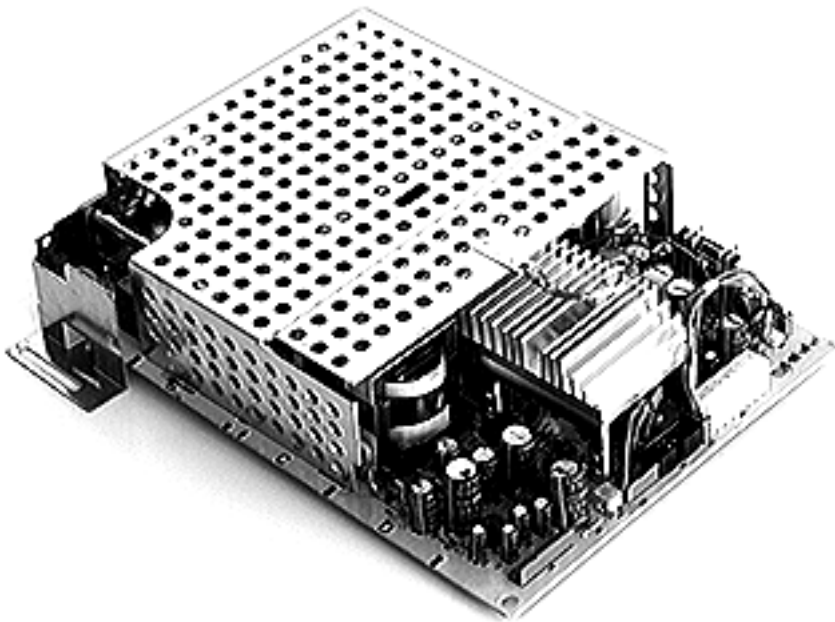
661-1169





**PM 5200/75 LC, Performa 5200 Series Power Supply**

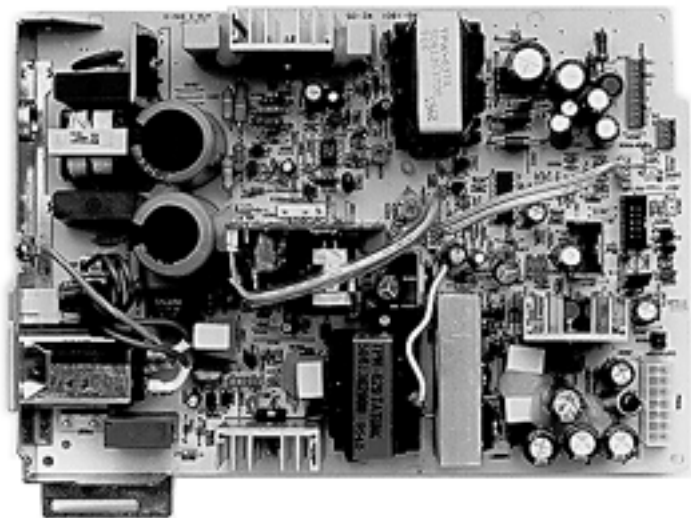
**661-0930**





**PM 5260/100 Power Supply**

**661-1133**

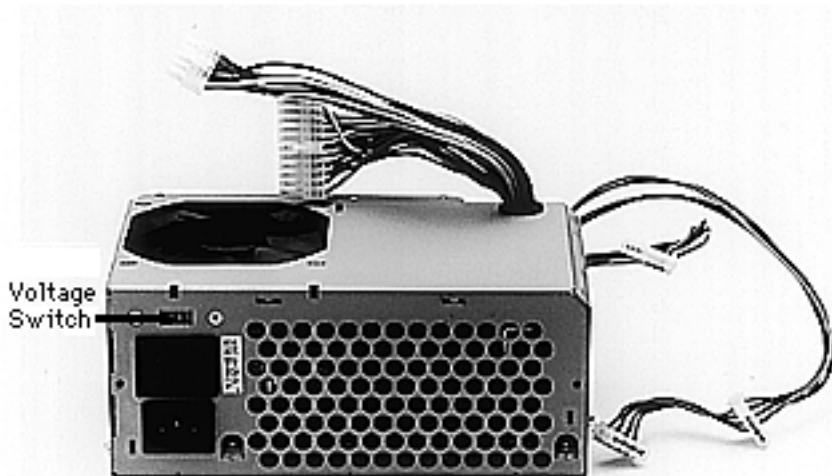


**PM 9500 Power Supply, 225 W, 3.3 V****661-0923**

The Power Macintosh 9500 power supply has assembly part number 614-0038 located on the module label.





**Power Supply, 150 W****661-0920**

This power supply has the assembly part number 614-0039 on the module label.

**IMPORTANT:** Set the voltage switch correctly on the replacement power supply before installing it into the computer. In the U.S., the voltage switch must be set to 115 V.





**Power Supply, 150 W**

**661-1244**





Power Supply, 325 W

661-1145





**Power Supply, 390 W**

**661-1242**



**Power Supply, 425 W****661-1131**



**Quadra 630 Power Supply, 82 W**

**661-1053**



**Quadra 900/950 Power Supply****661-0664**

The Macintosh Quadra 900/950 power supply has the assembly part number 699-0394 on the module label.

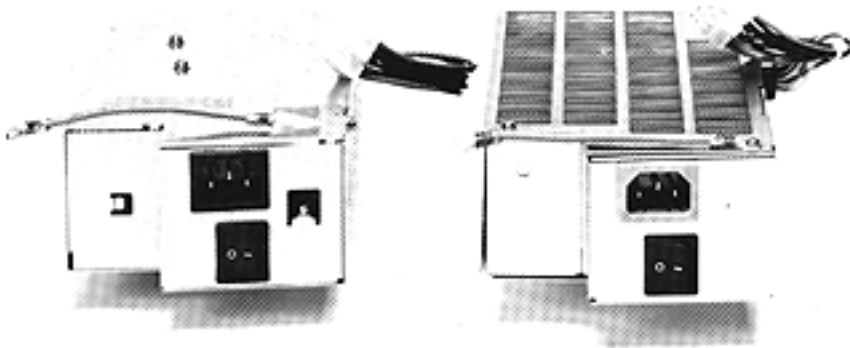




## SE and SE/30 Power Supply

**661-0370**

The Macintosh SE and SE/30 power supply has the assembly part number 699-5047 on the module label.

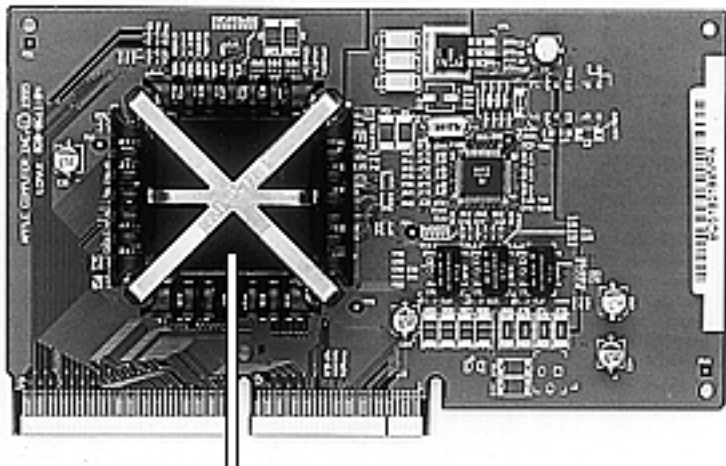






## CPU Processor Cards

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**601 100 MHz Processor Card****661-0917**

Heat Sink

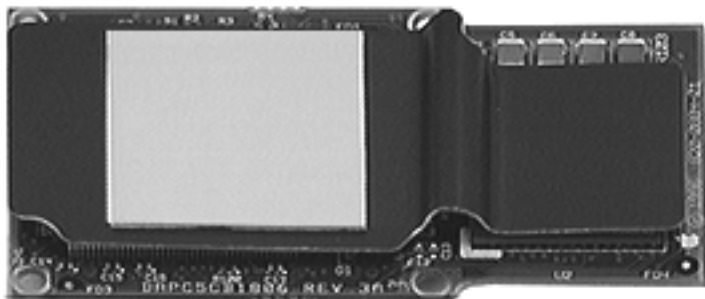
Do not remove the microprocessor's heat sink. This will damage the card.

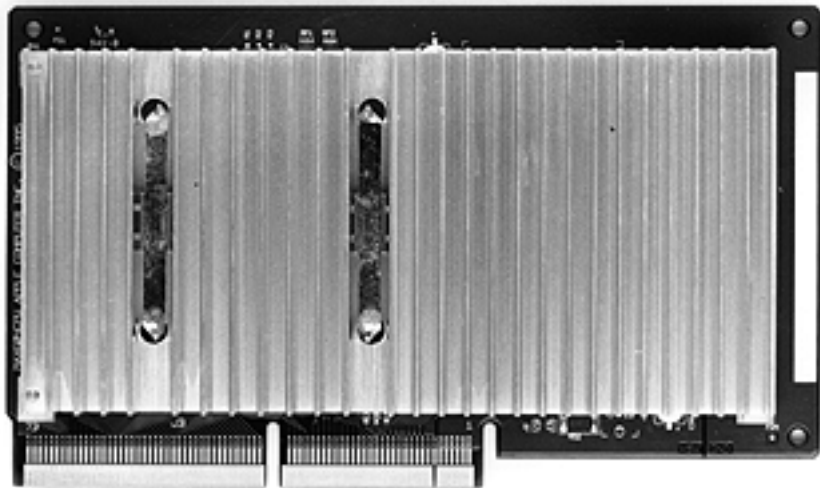




603e 133 MHz Processor Card, PowerBook 1400c

661-1308



**604 120 MHz Processor Card****661-0925**

This card has assembly part number 630-1733, 630-1734, 630-2054, or 661-2055. When ordering a replacement card, use the assembly part number to determine the correct service part number.

The last six digits of the FCC ID label (located on the underside of the processor cards) identify the processor



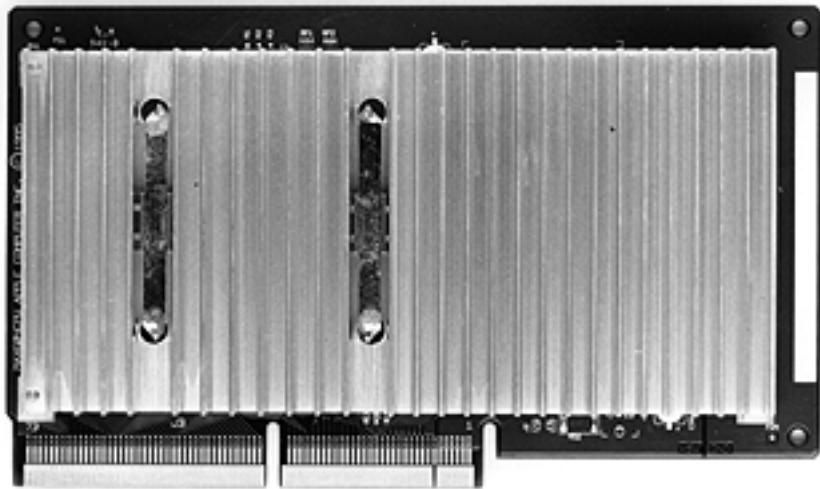


type and speed. The FCC label on this card reads FCCxxx604120, indicating a 604 processor operating at 120 MHz.

Install the processor card by aligning the card above the processor card slot and pushing straight down. Verify the processor card is firmly seated along the connector, pushing down again if necessary. Do not attempt to remove the microprocessor's heatsink. This will damage the card.

Note: This processor card does NOT work with the WS 8550.



**604 120 MHz Processor Card****661-1272**

The assembly part number 630-1351 or 630-1568 identifies this particular version of the 120 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

The last six digits of the FCC ID label (on the underside of the card) read FCCxxx604120,



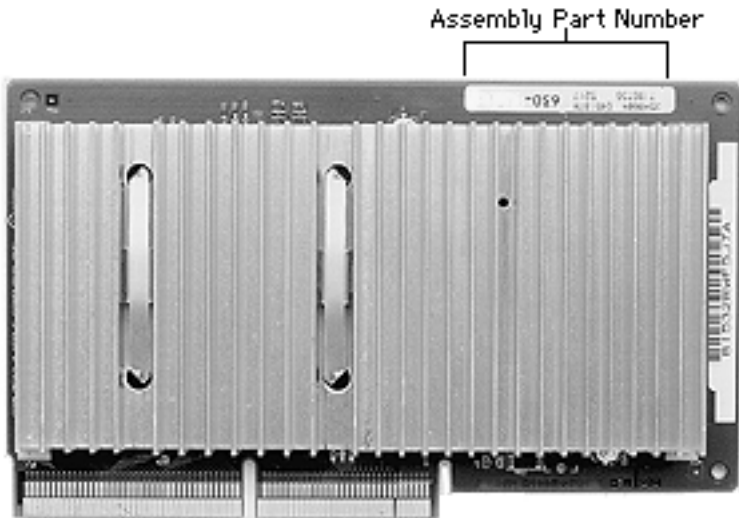


indicating a 120 MHz 604 processor.

Install this card by aligning the it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.

Note: This processor card does NOT work with the PM 8500 or WS 8550.



**604 132 MHz Processor Card****661-1157**

The assembly part number 630-1885, 630-2059, 630-2269, or 630-2270 to identify this particular version of the 132 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

The last six digits of the FCC ID label (on the underside of the card) read FCCxxx604132, indicating a 604 processor operating at 132







MHz.

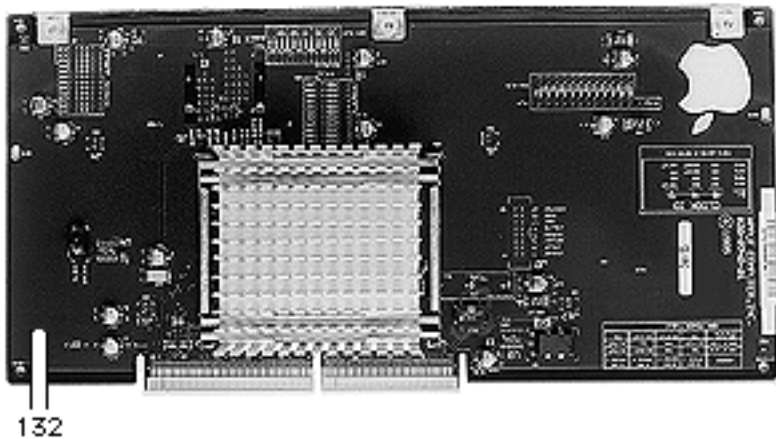
Install the processor card by aligning the card above the processor card slot and pushing straight down. Verify the processor card is firmly seated along the connector, pushing down again if necessary. Do not attempt to remove the microprocessor's heatsink. This will damage the card.



**604 132 MHz Processor Card, For Apple Network Servers****661-1144**

Identify this card by the “132” marking in the lower left corner of the card.

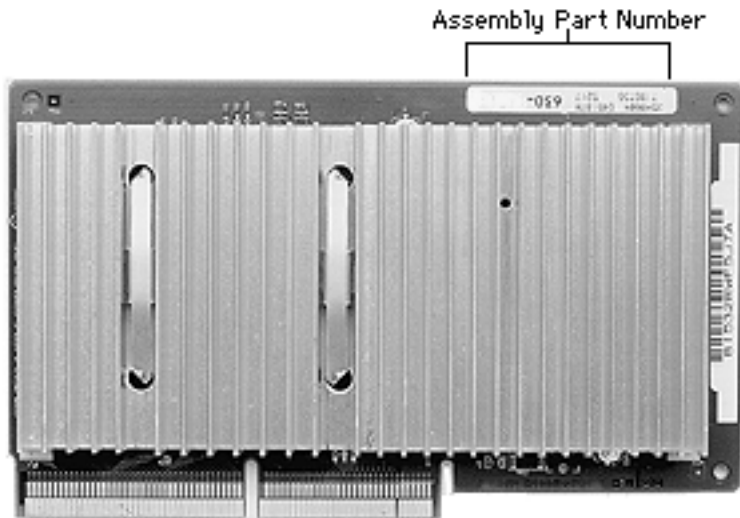
**IMPORTANT:** Do not attempt to remove the microprocessor’s heat-sink. This will damage the card.





**604 132 MHz Processor Card, For PM 8500 and PM 9500 Only  
(Replaced by 661-1157)**

**661-1259**



Identify this version of the 132 MHz card by its assembly part number (630-2060 or 630-1886). When ordering a replacement card, use the assembly part number to determine the correct service part number.

The last six digits of the FCC ID label (on the underside of the card) read FCCxxx604132, indicating a 604



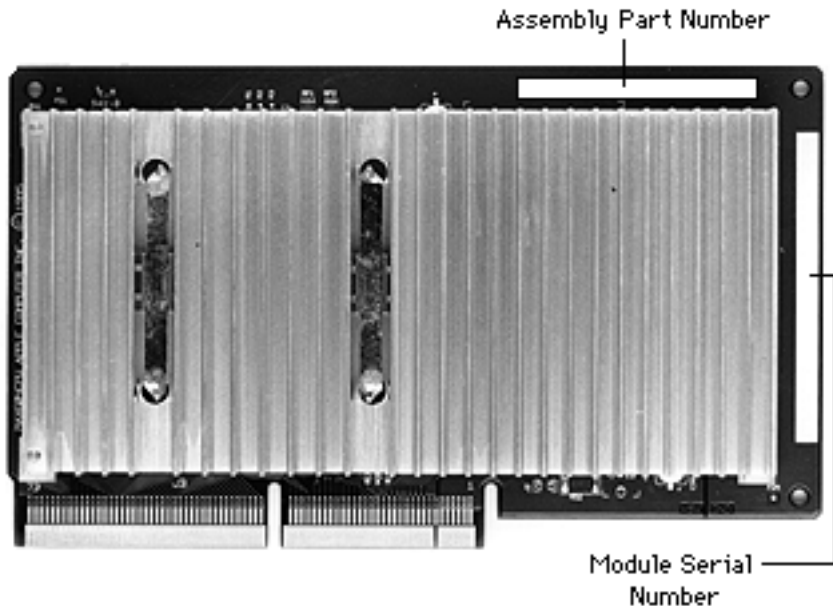


processor operating at 132 MHz.

Install the processor card by aligning the card above the processor card slot and pushing straight down. Verify the processor card is firmly seated along the connector, pushing down again if necessary. Do not attempt to remove the microprocessor's heatsink. This will damage the card.

Note: This card does NOT work with the PM 7500, PM 7600, or the WS 8550.



**604 Processor Card, 132 MHz, Rev. A, For PM 9500 Only****661-1002**

This Rev. A version of the 132 MHz card is identified by the assembly part number (630-1451, 630-1735, or 630-1736). When ordering a replacement card, use the assembly part number to determine the correct service part number.

The last six digits of the FCC ID label (on the underside of the card)



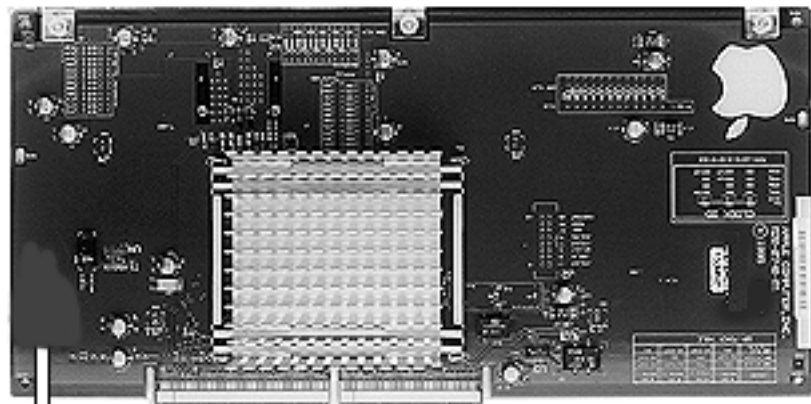


read FCCxxx604132, indicating a 604 processor operating at 132 MHz.

Do not attempt to remove the microprocessor's heatsink. This will damage the card.

Note: This processor card only works with the PM 9500.



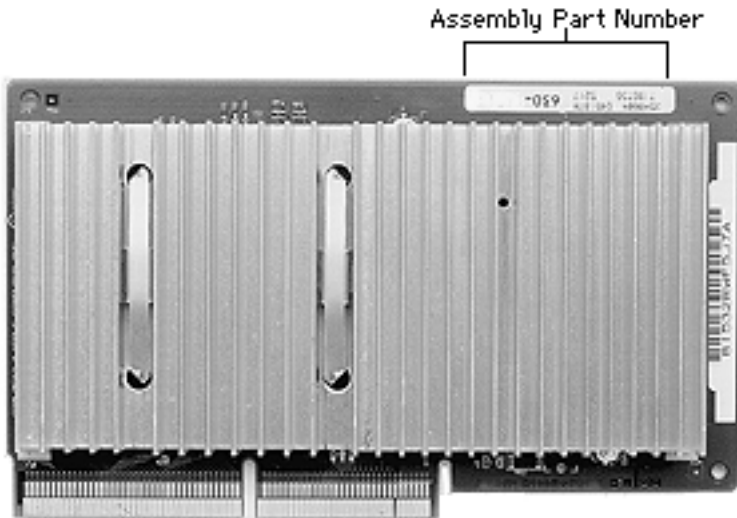
**604 150 MHz Processor Card, For Apple Network Servers****661-1126**

150

Identify this card by the “150” marking in the lower left hand corner of the card.

**IMPORTANT:** Do not attempt to remove the microprocessor’s heat-sink. This will damage the card.



**604 150 MHz Processor Card, For PM 8500 and PM 9500 Only****661-1250**

You must use the assembly part number (630-2308, 630-1940, 630-2061, or 630-2088) to identify this particular version of the 150 MHz card.

The last six digits of the FCC ID label (on the underside of the card) read FCCxxx604150, indicating a 604 processor operating at 150 MHz.

Install the processor card by aligning the card above the processor card







slot and pushing straight down. Verify the processor card is firmly seated along the connector, pushing down again if necessary. Do not attempt to remove the microprocessor's heatsink. This will damage the card.

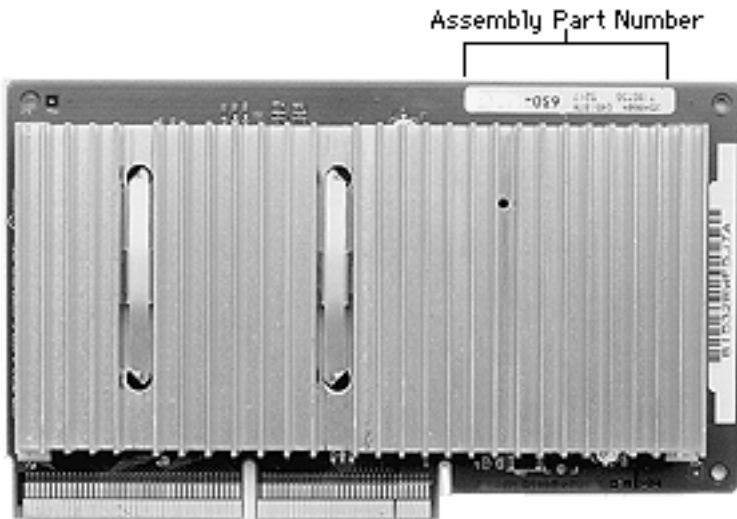
Note: This card does NOT work with the PM 7500, PM 7600, or WS 8550.





**604 150 MHz Processor Card, For PM 9500 Only  
(Replaced by 661-1250)**

**661-1146**



You must use the assembly part number (630-1737 or 661-2307) to identify this particular version of the 150 MHz card.

The last six digits of the FCC ID label (on the underside of the card) read FCCxxx604150, indicating a 604 processor operating at 150 MHz.

Install the processor

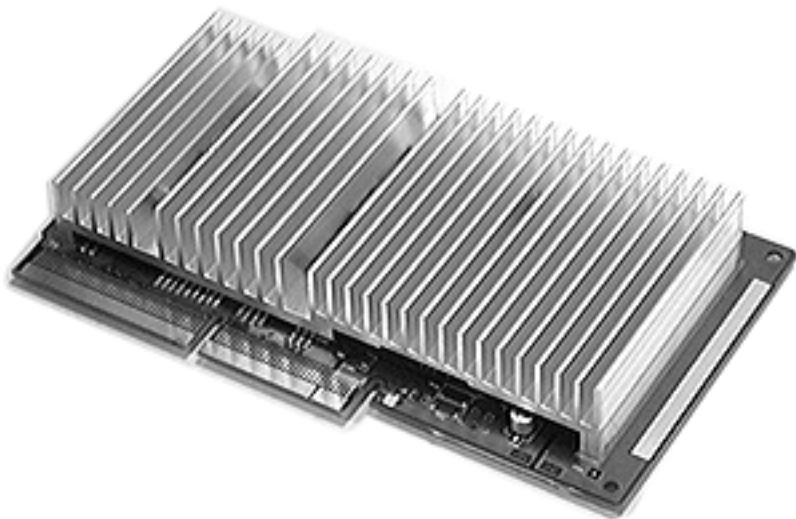




card by aligning the card above the processor card slot and pushing straight down. Verify the processor card is firmly seated along the connector, pushing down again if necessary. Do not attempt to remove the microprocessor's heatsink. This will damage the card.

Note: This card only works with the PM 9500.



**604e 166 MHz Processor Card****661-1267**

The assembly part number 630-2122 or 630-2248 identifies this particular version of the 166 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

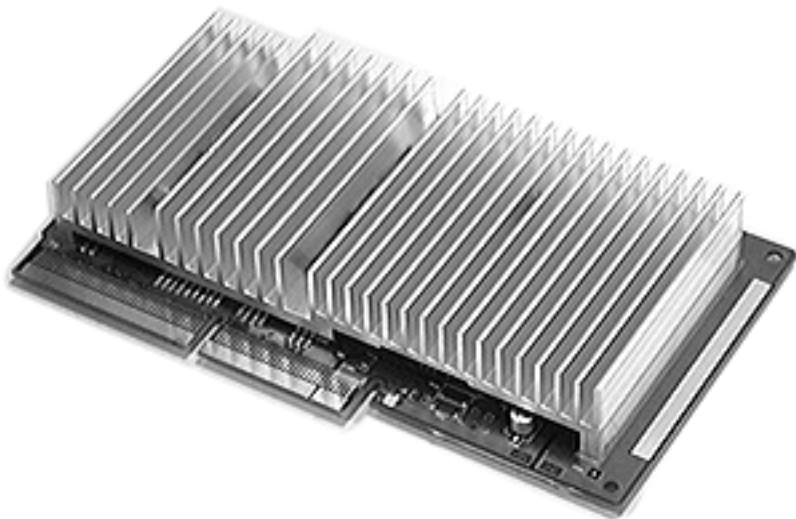
Install this card by aligning it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again





if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 180 MHz Processor Card****661-1222**

The assembly part number 630-2099-(A,B,C, or D), 630-2224-(A,B, or C), 630-2240, or 630-2249 identifies this particular version of the 180 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

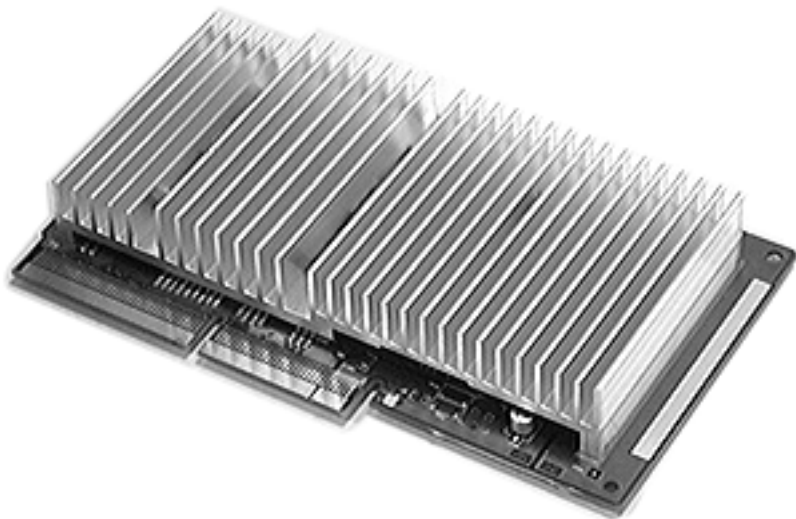
Install this card by





aligning the it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 180 MHz Processor Card****661-1305**

Use this card in the Power Macintosh 7300 Series.

The assembly part number 630-2240 or 630-2249 identifies this particular version of the 180MP MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.





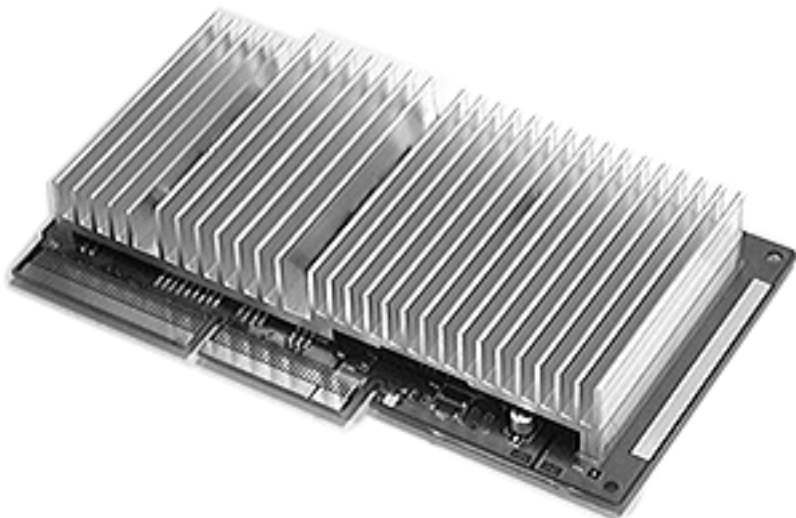


A limited number of the first Power Macintosh 7300, 7600/200, 8600, and 9600 systems were shipped with 180 MHz processor cards incorrectly labeled with a use restriction label that says "8500/9500 only." If the assembly number on the card matches one of the numbers listed above, disregard the use restriction label, as it is incorrect.

Note that service providers ordering a 180 MHz replacement card may also receive a part that is incorrectly labeled.

Install this card by aligning the it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 180 MHz MP (MultiProcessor) Card****661-1280**

The assembly part number 630-2124, 630-2225, 630-2316, or 630-2380 identifies this particular version of the 180 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

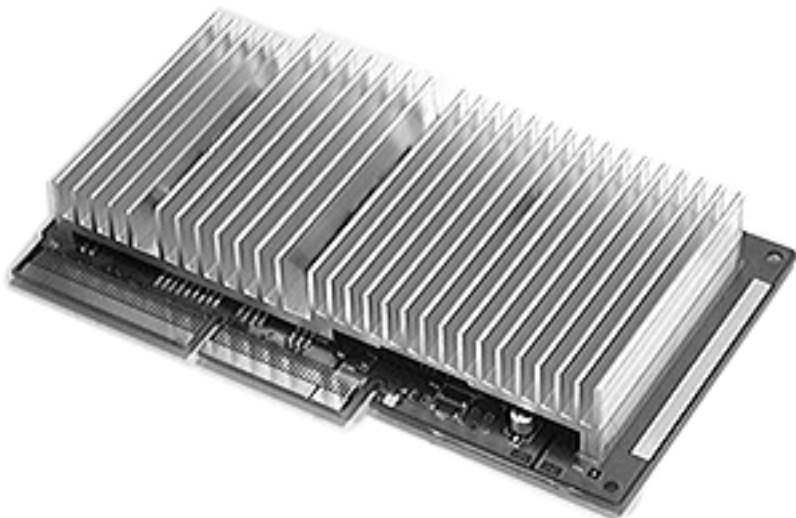
Install this card by aligning the it above the





processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 200 MHz Processor Card****661-1223**

The assembly part number 630-2100, 661-2200, or 630-2201, or 630-2250 identifies this particular version of the 200 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

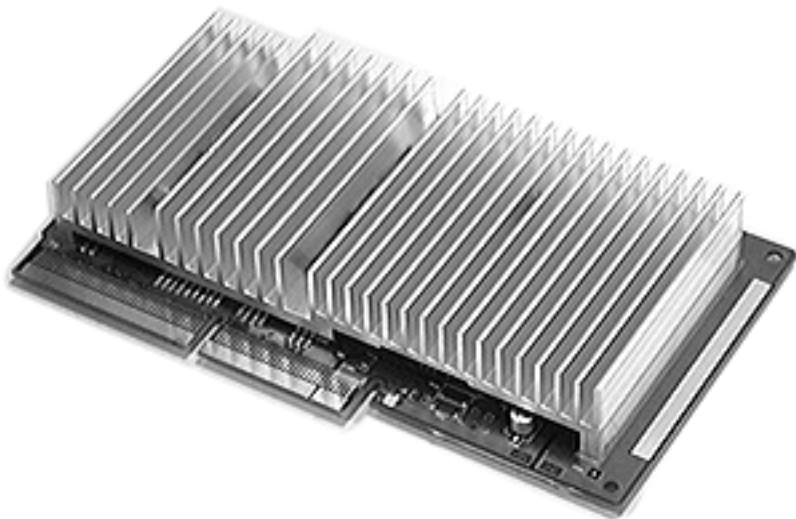
Install this card by aligning the it above the





processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 200 MHz Processor Card****661-1307**

The assembly part number 630-2201, 661-2204, or 630-2250 identifies this particular version of the 200 MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

A limited number of the first Power Macintosh 7300, 7600/200,



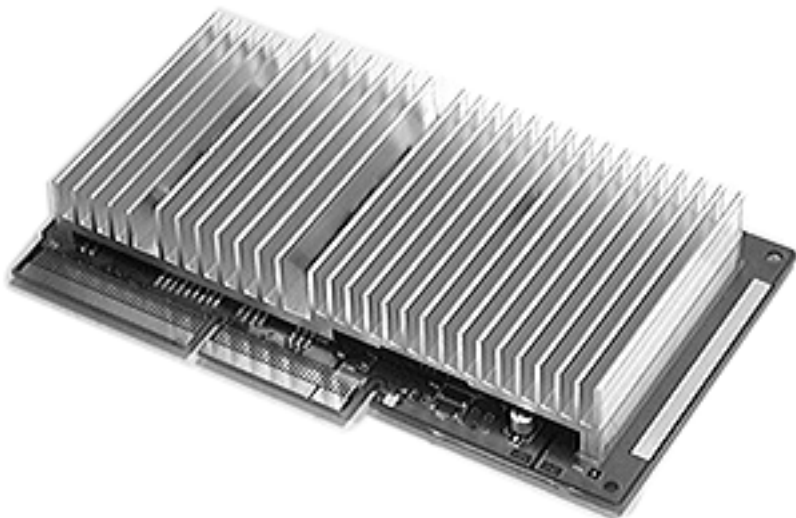


8600, and 9600 systems were shipped with 200 MHz processor cards incorrectly labeled with a use restriction label that says "8500/9500 only." If the assembly number on the card matches one of the numbers listed above, disregard the use restriction label, as it is incorrect.

Note that service providers ordering a 200 MHz replacement card may also receive a part that is incorrectly labeled.

Install this card by aligning the it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again if necessary. Do NOT attempt to remove the microprocessor's heatsink.



**604e 200 MHz MP (MultiProcessor) Card****661-1269**

The assembly part number 630-2125, 630-2259, or 630-2262 identifies this particular version of the 200MP MHz card. When ordering a replacement card, use the assembly part number to determine the correct service part number.

Install this card by aligning it above the processor card slot and pushing straight down. Verify the card is firmly seated along the connector, pushing down again







if necessary. Do NOT attempt to remove the microprocessor's heatsink.





Displays

Color Displays





## Apple Basic Color Monitor

661-0031



**Apple Basic Color Monitor, 110 V, U.S./Pacific)****661-0009**

There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number 645-0032 or PA645-0032, order Apple part number 661-0009.





**Apple Basic Color Monitor, 110 V, U.S./Pacific)**

**661-0008**



When you return P/N 661-0008, Apple ships you P/N 661-1670.

There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version.





To obtain a monitor with manufacturing part number 645-0031 or PA645-0031, order Apple part number 661-0008.





**Apple Color Plus 14-Inch Display**

**661-0870**





## Apple Multiple Scan 14" Monitor

**661-0962**

This monitor uses the same sense codes as the Apple MultipleScan 15" monitor. It has 4 optimized resolutions available (2 @ 640x480 and 2 @ 800 x 600). The fifth resolution (832x624), although available, is not recommended for use.







**Apple Multiple Scan 14" Monitor, Whole Unit with Adapter**

**661-1187**





**Apple Multiple Scan 15 Display**

**661-0128**





**Apple Multiple Scan 15 Display, without Built-In Video Cable,  
Int'l Only, POL/NORTH**

**661-0195**





**Macintosh Performa Plus 500 Series Monitor .29**

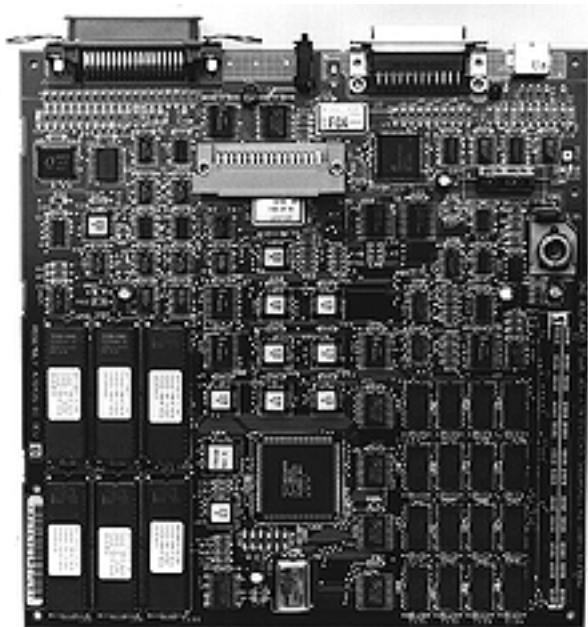
**661-1669**

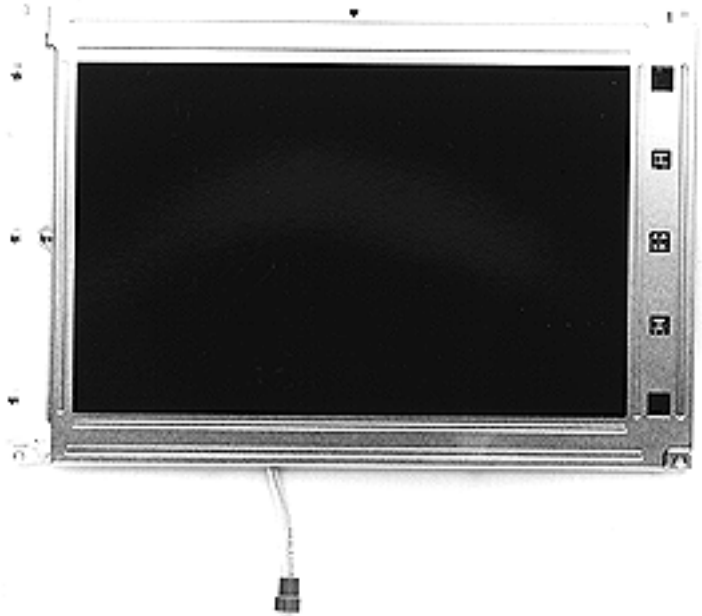




**Macintosh Performa Plus 500 Series Monitor .39  
(Discontinued) (Replaced by 661-1187)**

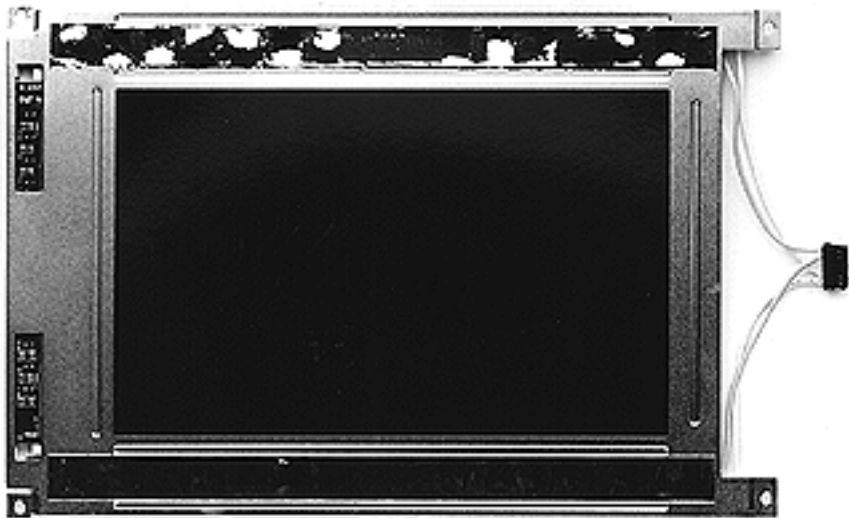
**661-1670**



**PowerBook 145B Display, Flat Panel (replaced by 661-8745)****661-1020**

The two PowerBook displays, P/N 661-0681 and P/N 661-1020, are similar. To differentiate the two, check the type of PowerBook in which the display was installed. P/N 661-0681 was used in the PowerBook 140 and 145; P/N 661-1020 was used exclusively in the PowerBook 145B.



**PowerBook 165c Display, CFSTN, Color, 10.4" w/Cable****661-0752**

Transfer any screen protective material, if available, from the new module to the module being returned.





**PowerBook 190cs/66, 5300cs/100 Display, CFSTN,  
Color, 10.4" w/Cable**

**661-0937**



PowerBook 190cs,  
5300cs, 5300c, and  
5300ce displays look  
similar.

Use the part number on  
the display and its cable  
to distinguish the  
display.





**PowerBook 520c Display, Dual Scan, Color****661-0062**

Top



Bottom



Transfer any screen protective material, if available, from the new module to the module being returned.

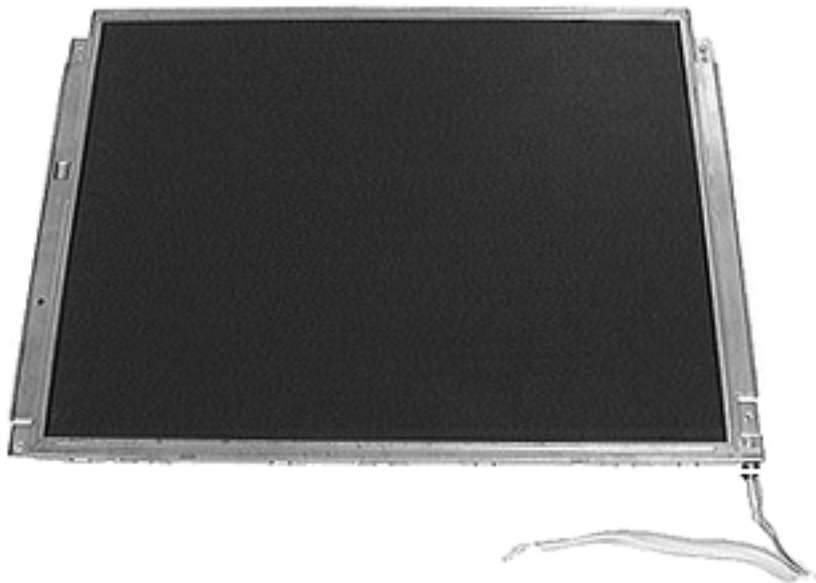
Return the module **WITHOUT** the display cable attached.





**PowerBook 3400 Display, CTFT, SVGA**

**661-1236**





**PowerBook 5300c/100 Display, TFT, Color, 10.4" w/Cable  
CPRC/Int'l Only**

**661-0936**



PowerBook 190cs,  
5300cs, 5300c, and  
5300ce displays look  
similar.

Use the part number on  
the display and its cable  
to distinguish the  
display.



**PowerBook 5300ce/117 Display, TFT, Color, 10.4" w/Cable, SVGA****661-1031**

All PowerBook 190cs, 5300cs, 5300c, and 5300ce displays look similar.

Use the part number on the display and its cable to distinguish the display.

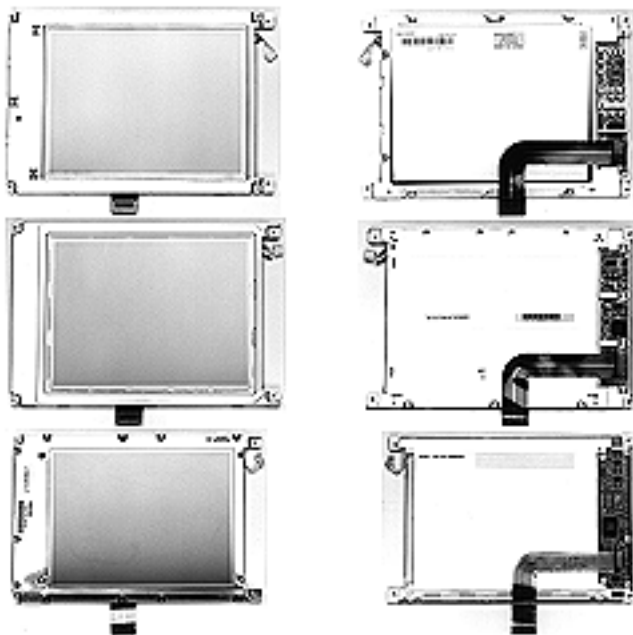




**PowerBook 5300c Display, TFT, Color, 10.4" w/Cable, SVGA**

**661-1030**



**PowerBook 540c Display, TFT, Color****661-0056**

Transfer any screen protective material, if available, from the new module to the module being returned.

Return the module WITH the display cable.





**PowerBook Duo 2300c Display, Active Matrix, Color  
(CPRC/Int'l Only)**

**661-0233**



**PowerBook Duo 250 Display, Active-Matrix, Monochrome****661-1686**

Part number 661-1686 is an international-only part and not available in the U.S. Service providers in the U.S. should call the Technical Assistance Center at 800-919-2775 (select option #6) to arrange repair of this part through CPRC.





**PowerBook Duo 270c/280c Display, Active-Matrix, Color****661-1734**

The latest version of this part number includes a latch kit (part number 076-0495).





**PowerBook Duo 250/280 Display, Active-Matrix, Monochrome  
CPRC/Int'l Only**

**661-0052**





Displays

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Monochrome Displays



**Macintosh Portable Display, LCD****661-0473**

You must return the panel with the electrostatic discharge (ESD) protective tape intact. The tape is located on the back of the panel around all four edges (not shown in photograph). Early production units with the following serial numbers may not have tape:





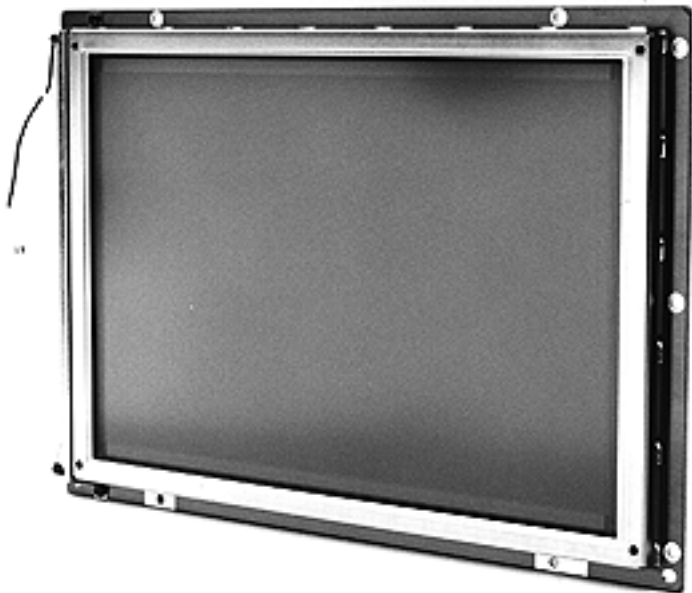
HK920xxxxxx017A, HK922xxxxxx017A,  
HK924xxxxxx017A, HK925xxxxxx017A, and  
HK926xxxxxx017A.





**Macintosh Portable LCD Backlit Display**

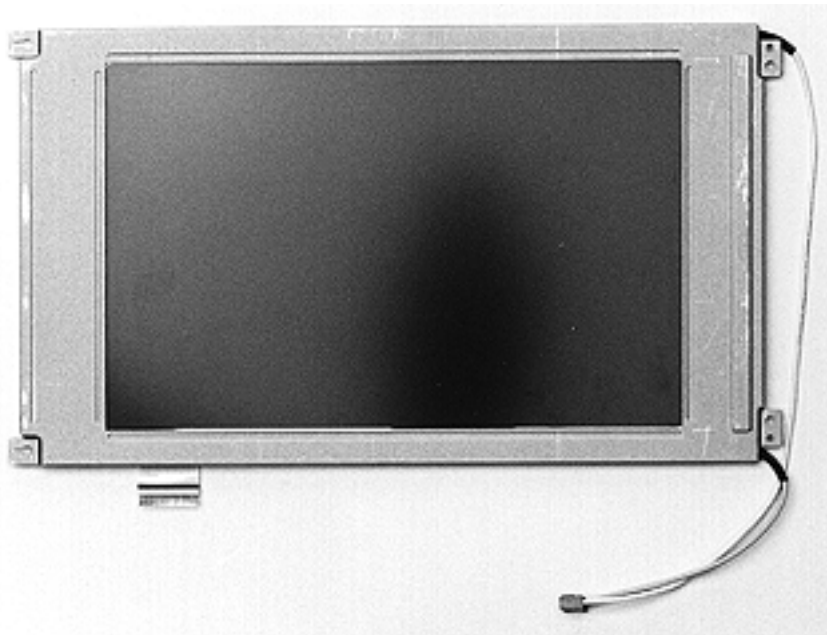
**661-0647**

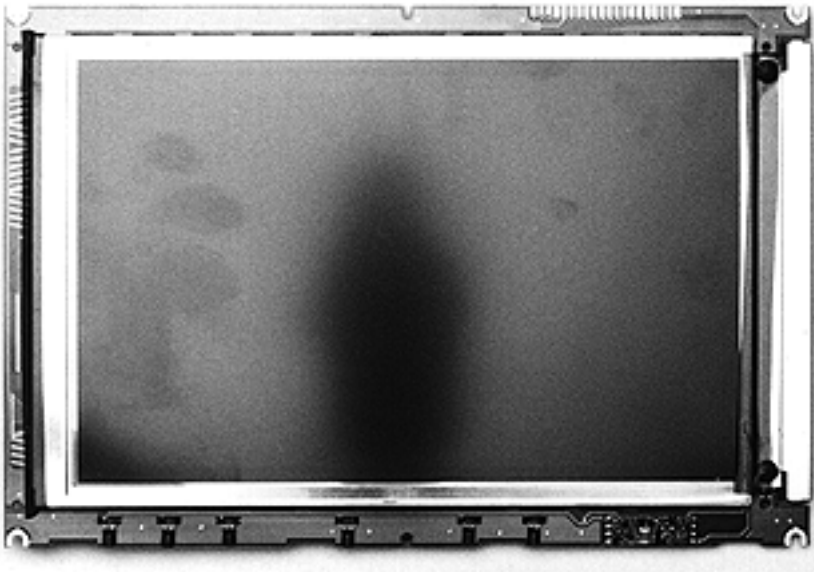




**PowerBook 100 Display, FSTN**

**661-0675**



**PowerBook 140 FSTN Display (Rev. B)****661-0681**

When you return P/N 661-0681, Apple ships you P/N 661-8745.

Transfer any screen protective material, if available, from the new module to the module being returned.§

This module is not available in the U.S.

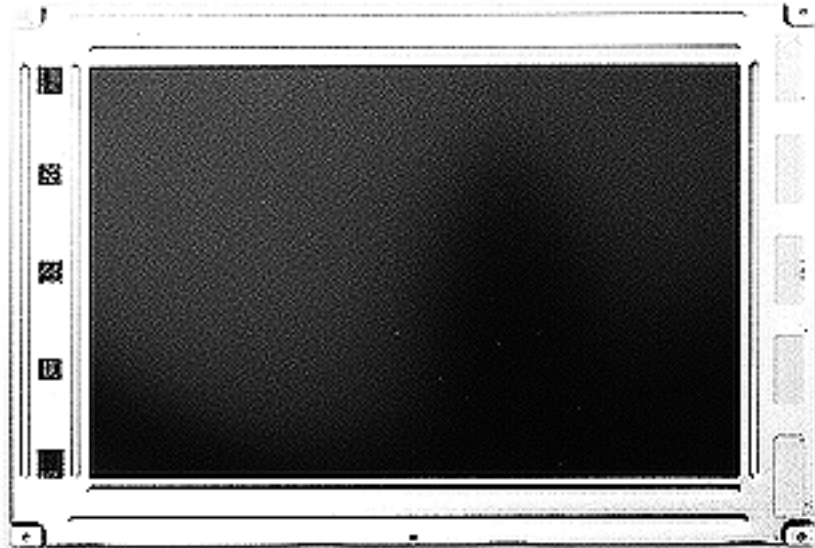






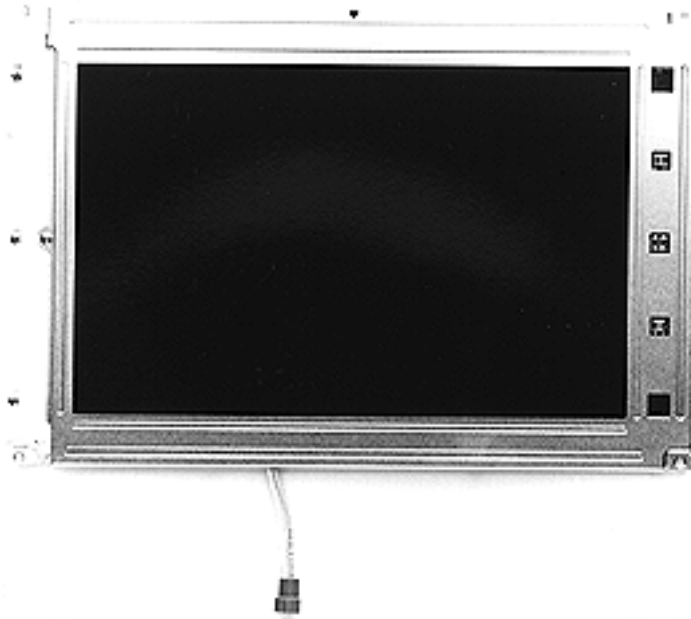
U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.



**PowerBook 140/145 Display, FSTN (Rev. A)****661-0706**

Transfer any screen protective material, if available, from the new module to the module being returned.



**PowerBook 145/160/165 Display Kit, FSTN (Rev. C)****661-0745**

Transfer any screen protective material, if available, from the new module to the module being returned.





**PowerBook 150 Display, FSTN**

**661-0143**

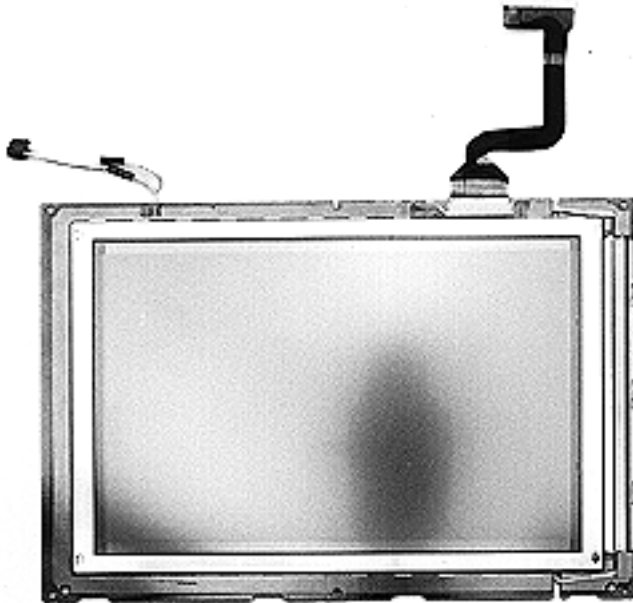


**PowerBook 160 Display Kit, FSTN (Rev. C)****661-8745**

Transfer the screen protective material, if available, from the new module to the module being returned.

This kit contains the items required to replace the Apple P/N 661-0681 display with the Apple P/N 661-0745 display.



**PowerBook 170 Display, Active-Matrix, Monochrome****661-0711**

Transfer any screen protective material, if available, from the new module to the module being returned.

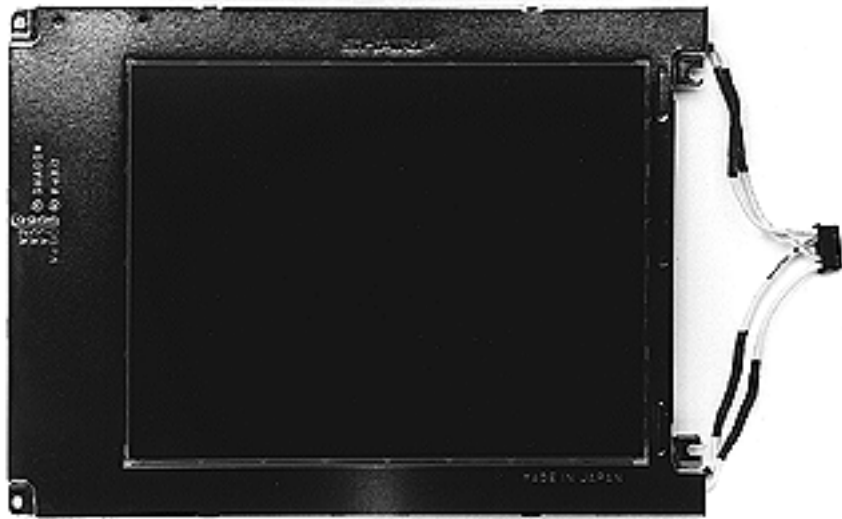
This module is not available in the U.S. U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.



**PowerBook 180 Display, Active-Matrix, Monochrome****661-0748**

Transfer any screen protective material, if available, from the new module to the module being returned.

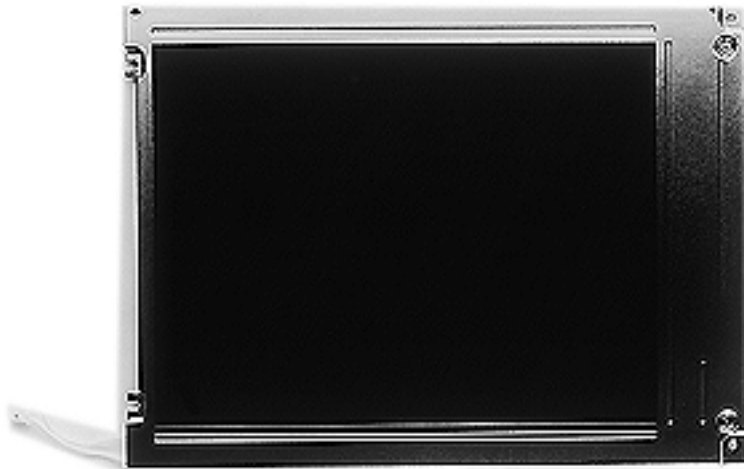


**PowerBook 165c/180c Display, Active-Matrix, Color****661-0686**

Transfer any protective screen material, if available, from the new module to the module being returned.





**PowerBook 190/66, 5300/100 Display, MFSTN, Greyscale, 9.5"****661-0938**

All PowerBook 190cs, 5300cs, 5300c, and 5300ce displays look similar.

Use the part number on the display and its cable to distinguish the display.



**PowerBook 520 Dual Scan Grayscale Display****661-0064**

Top



Bottom



Transfer any screen protective material, if available, from the new module to the module being returned.

Return the module **WITHOUT** the display cable attached.



**PowerBook 540 Display, Active-Matrix, Monochrome****661-0063**

Top



Bottom



Transfer any screen protective material, if available, from the new module to the module being returned.

Return the module **WITHOUT** the display cable attached.



**PowerBook Duo 210 Display, FSTN****661-1655**

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.



**PowerBook Duo 230 Display, FSTN****661-1673**

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.





Displays

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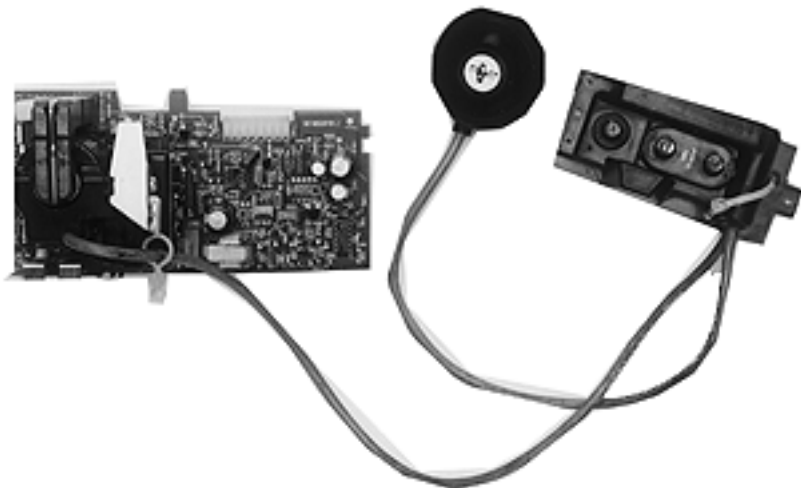
Display Components





# Apple 21-Inch Color Display Flyback Transformer

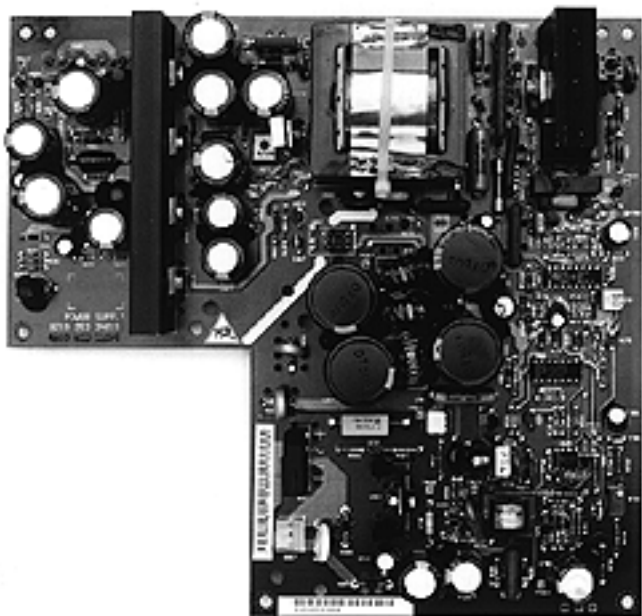
661-1132



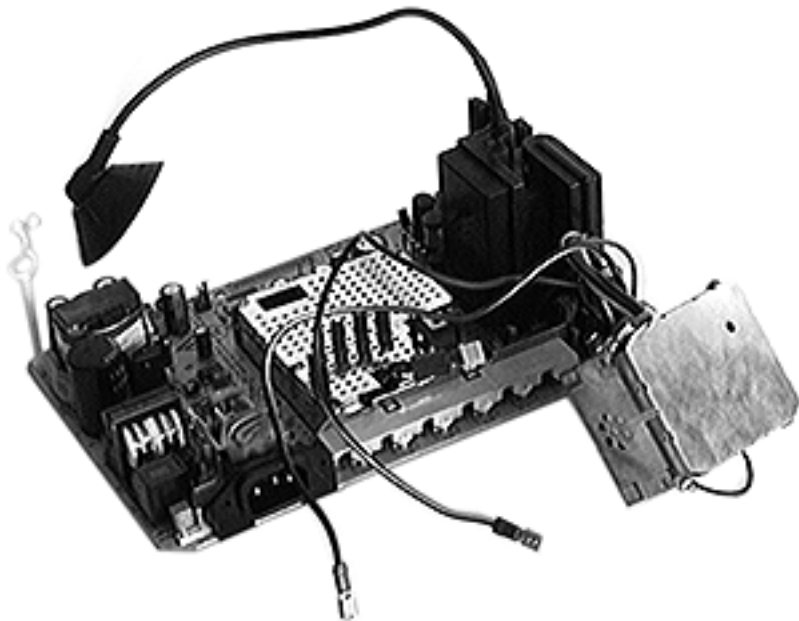


# Apple 21-Inch Color Display Power Supply Board

661-0658





**Apple AudioVision 14 Display Main Deflection Board (With E. Star)****661-1699**

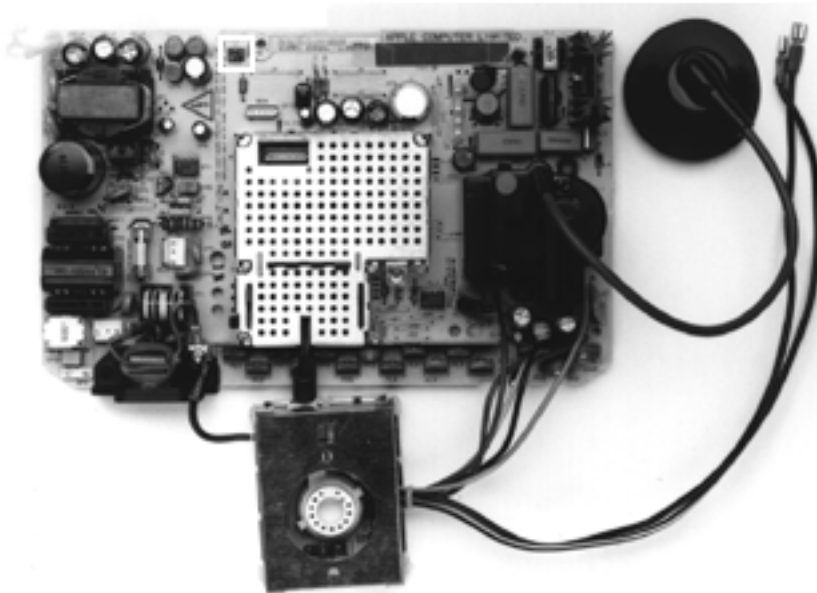
This main deflection board and the Apple Macintosh Color Display main deflection boards look similar.

You can identify the Apple AudioVision 14 Display main deflection board by the presence of a 2-pin power jumper at location BP5 and a marking for an RP20 resistor near the barcode label, but no resistor is present.





## Apple AudioVision 14 Display Main Deflection Board Rev. B, with E. Star Compliance

**661-0169**

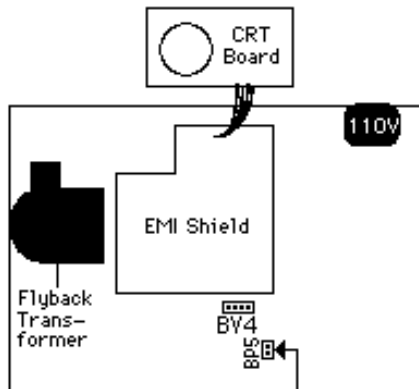
This board has an RP19 (or RF19) resistor near the barcode label.

This board cannot be replaced by the original version of the main deflection board (661-1699).

Order like-for-like when replacing boards.

Connector 'BP5' (see figure on next page) is not used when this board





This connector is unused on the Macintosh Color Display

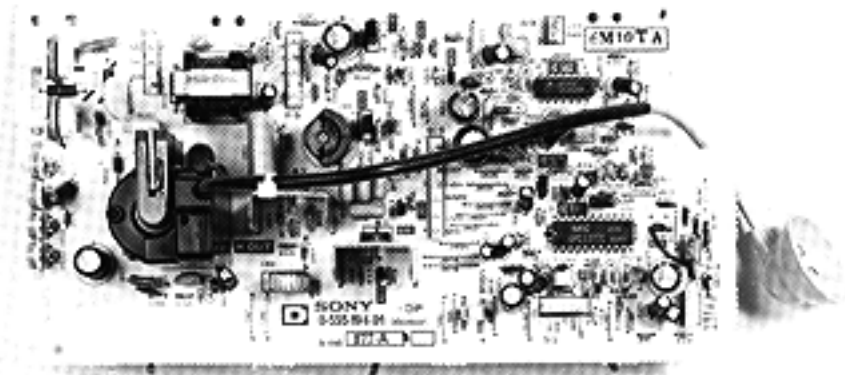
is installed in the Macintosh Color Display; However, it is used when the board is installed in the 14" AudioVision Display connecting to the Sound enclosure.





# Apple High-Resolution Monochrome Monitor Main Board

661-0396





Apple High-Resolution Monochrome Monitor Power Supply

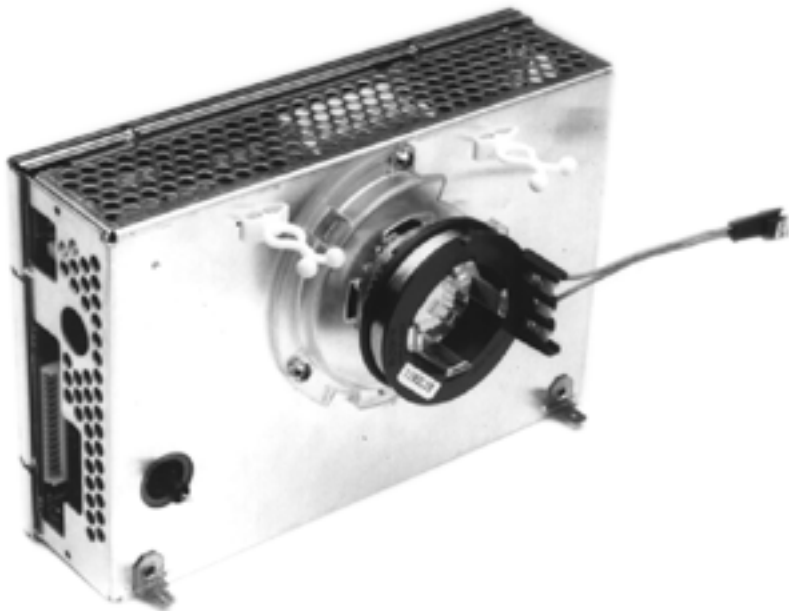
661-0395

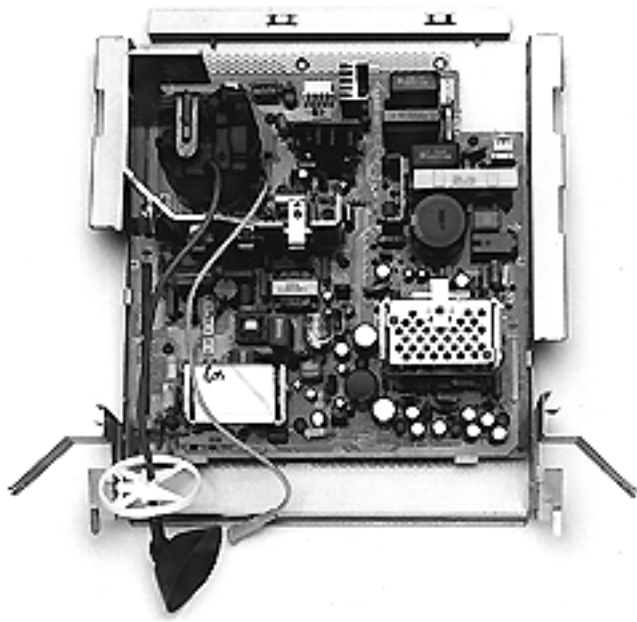




# Apple Multiple Scan 17 Display CRT Video Board

661-0882



**Apple Multiple Scan 17 Display Main Deflection Board****661-0881**

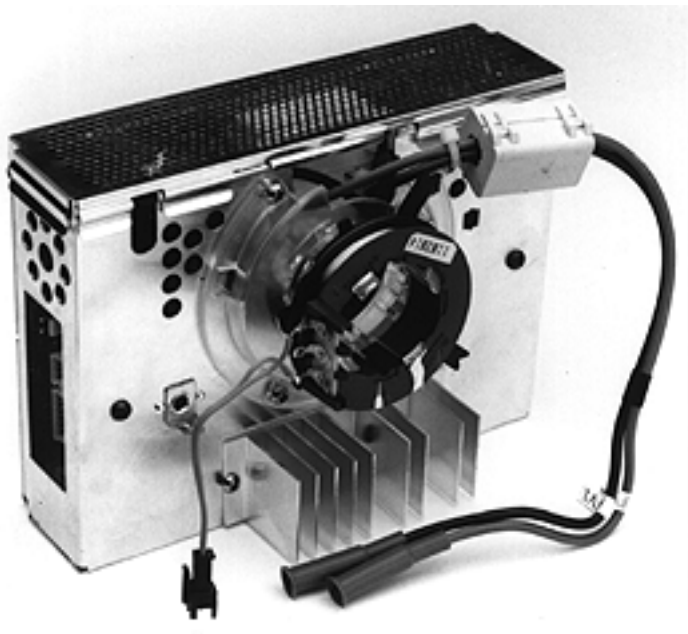
Return the main deflection board without the microprocessor board and cables.



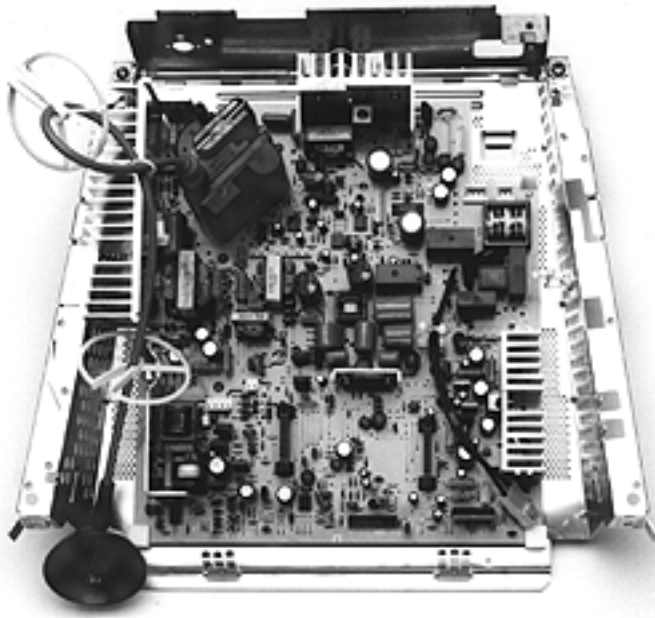


**Apple Multiple Scan 20 Display CRT Video Board**

**661-0507**





**Apple Multiple Scan 20 Display Main Deflection Board****661-0506**

Remove the entire rear connector panel (with video cable, serial I/O board assembly, and AC Inlet assembly) from the failed main deflection board.

Re-install this assembly on the good board. The Rear Panel received with the new board should be installed on the failed board for strength in shipping.





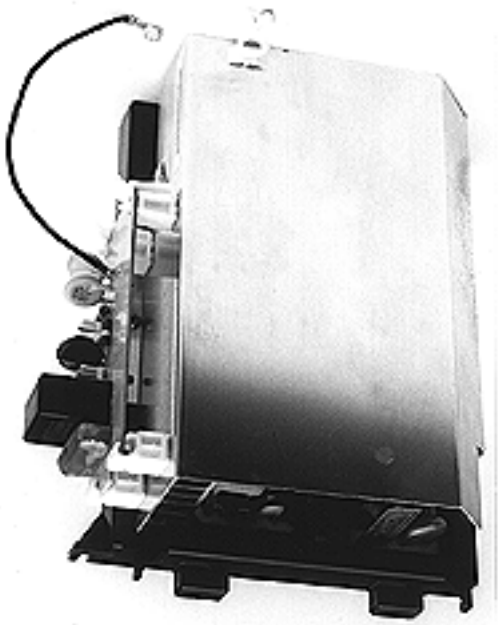
You must also remove the focus control board, microprocessor control board, and cables as shown in the photo.





**Apple Multiple Scan 20 Display Power Supply Assembly**

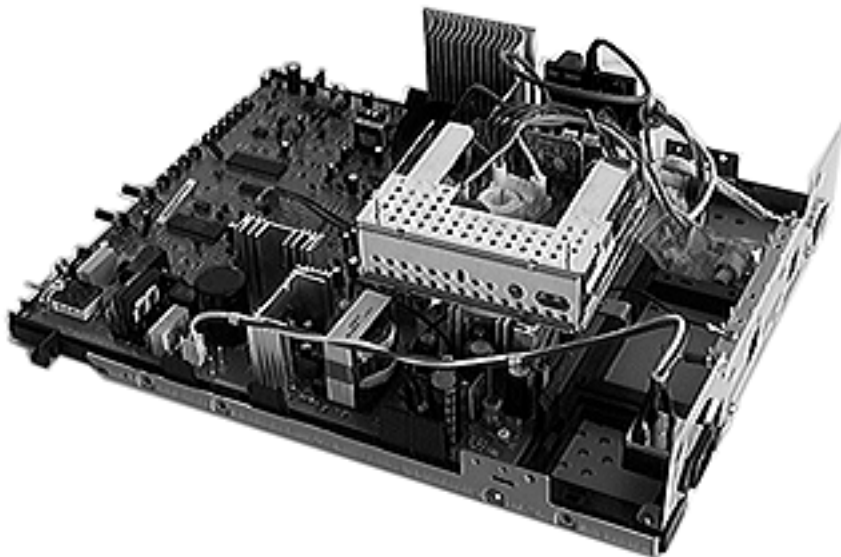
**661-0508**





**Apple MultiScan 1705 Display Boards, Main  
Deflection CRT/Video, Rear**

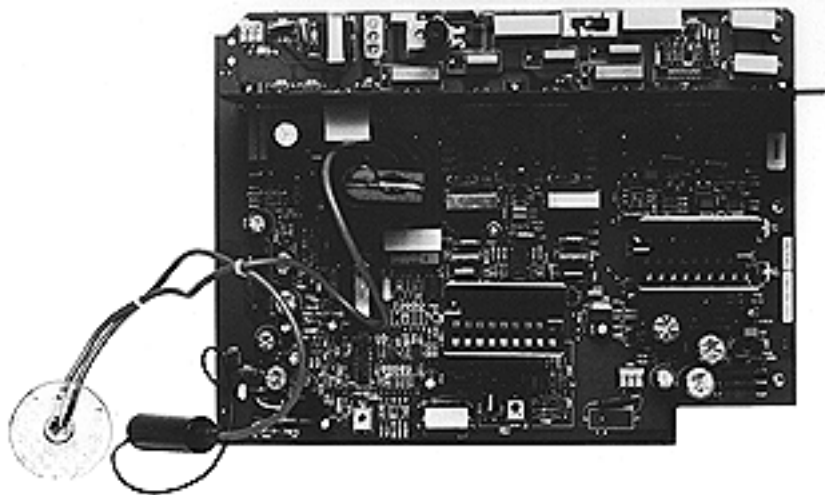
**661-1070**





## Apple Two-Page Monochrome Monitor Deflection Board

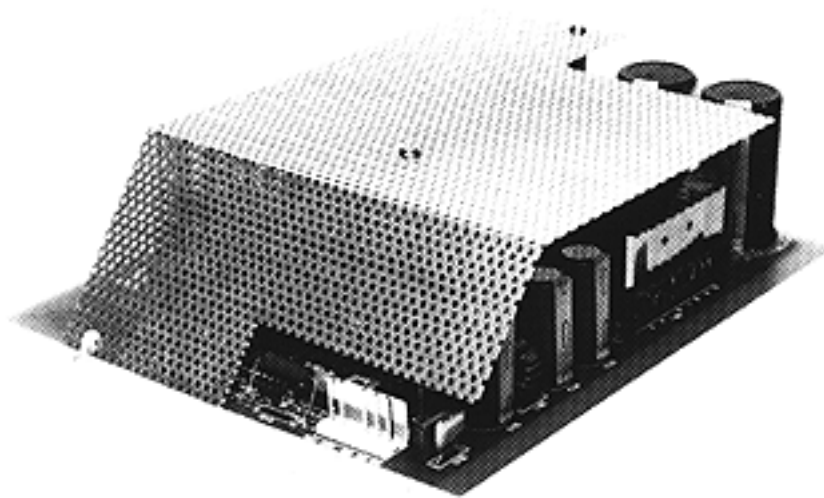
661-0451





## Apple Two-Page Monochrome Monitor Power Supply

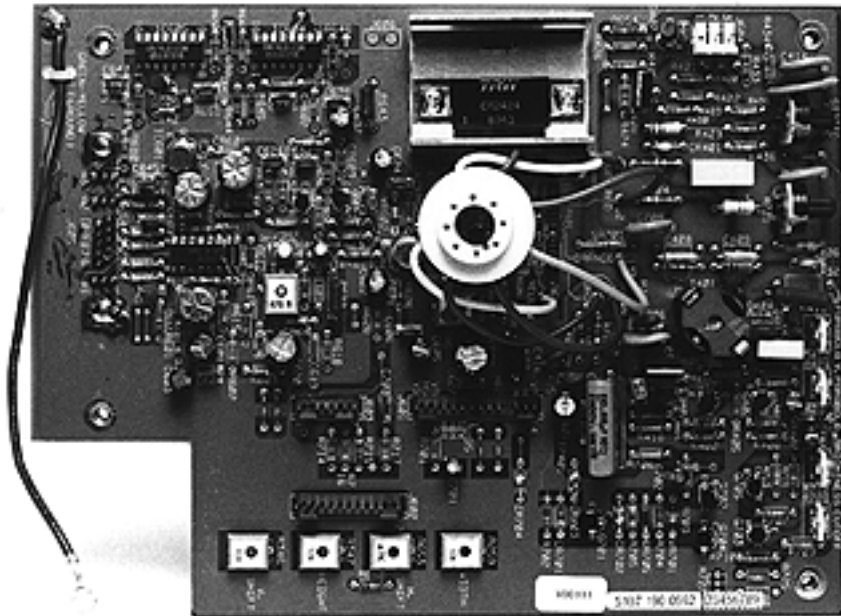
661-0453





# Apple Two-Page Monochrome Monitor Video Board

661-0452





AppleColor High-Resolution RGB Monitor Deflection Board (Rev. A)

661-0399

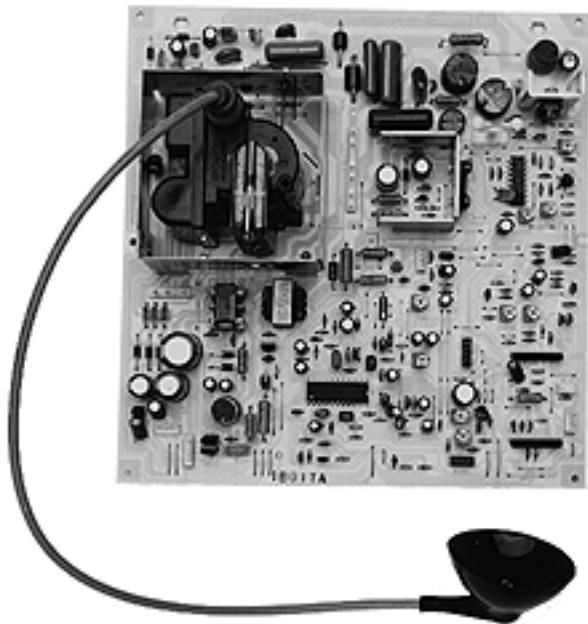






AppleColor High-Resolution RGB Monitor Main Board (Rev. B)

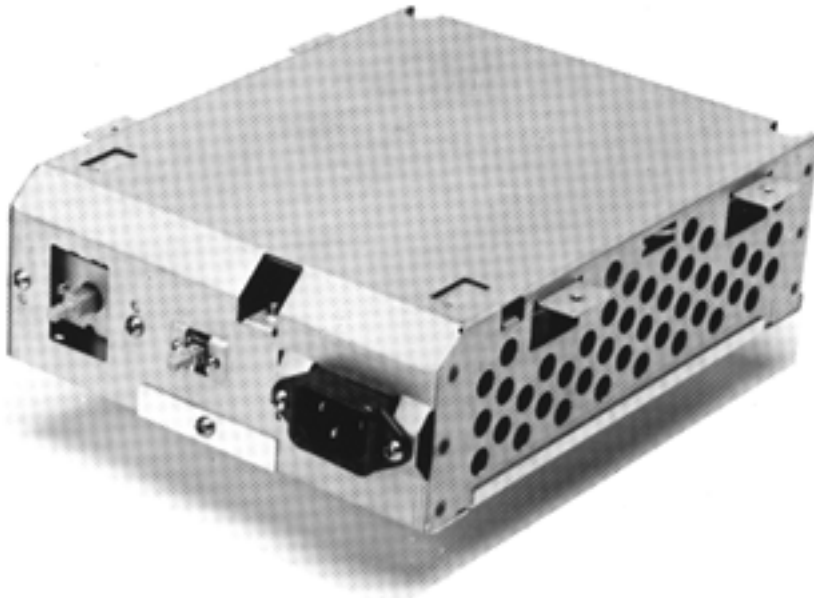
661-0654



**AppleColor High-Resolution RGB Monitor Power Supply (Rev. A)****661-0397**

This Rev. A board has the vendor number TK-20 or CRZ700 on it; the Rev. B board (P/N 661-0705) has the vendor number TK-20A or CRZ700A.



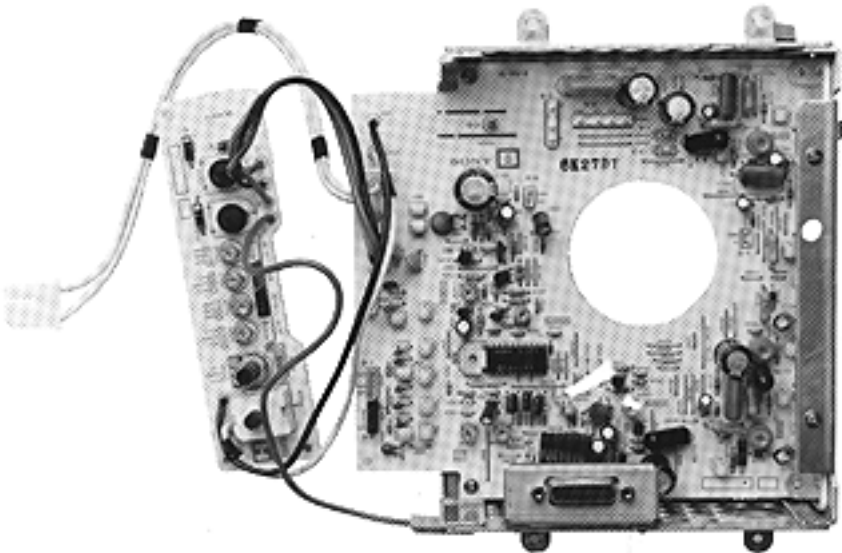
**AppleColor High-Resolution RGB Monitor Power Supply (Rev. B)****661-0705**

This Rev. B board has the vendor number TK-20A or CRZ700A on it; the Rev. A board (P/N 661-0397) has the vendor number TK-20 or CRZ700.



**AppleColor High-Resolution RGB Monitor Video Color Board, Rev. A****661-0398**

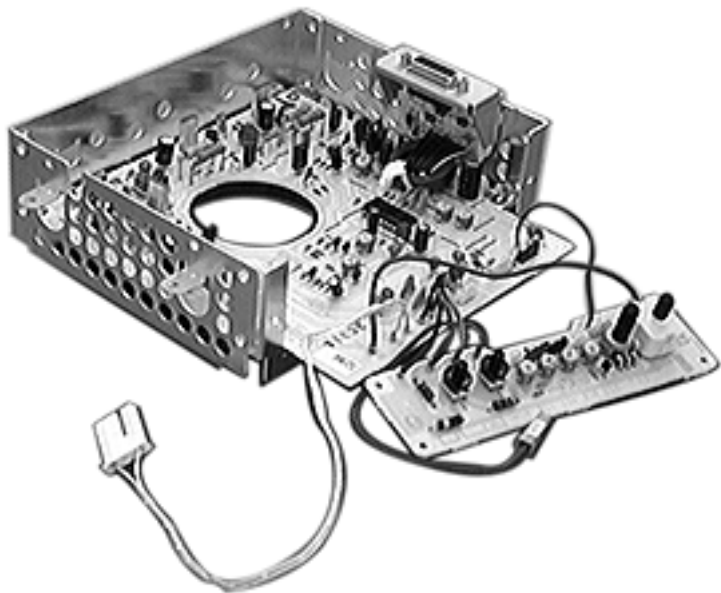
When you return P/N  
661-0398, Apple  
ships you P/N 661-  
0653.





AppleColor High-Resolution RGB Monitor Video Color Board, Rev. B

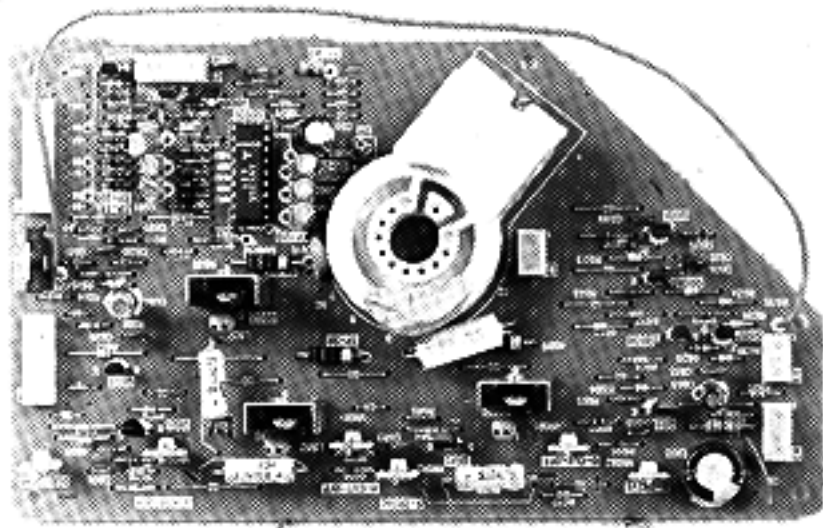
661-0653

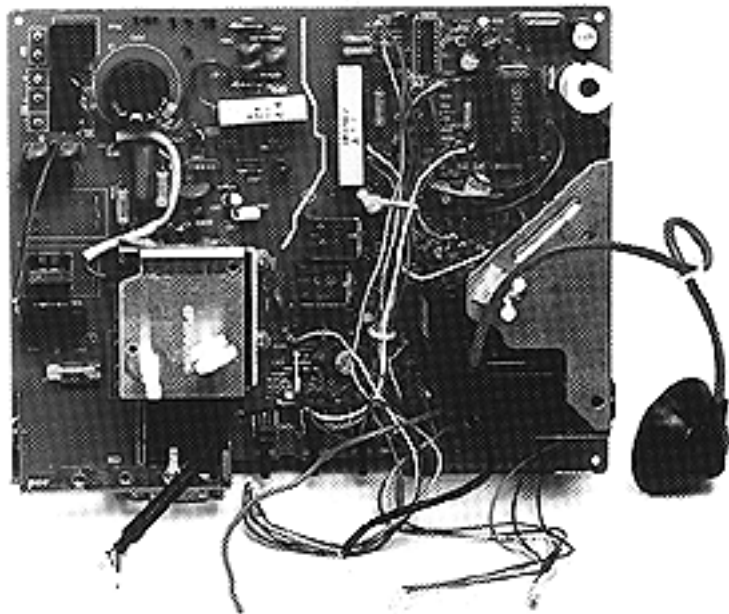




AppleColor RGB Monitor CRT Video Board

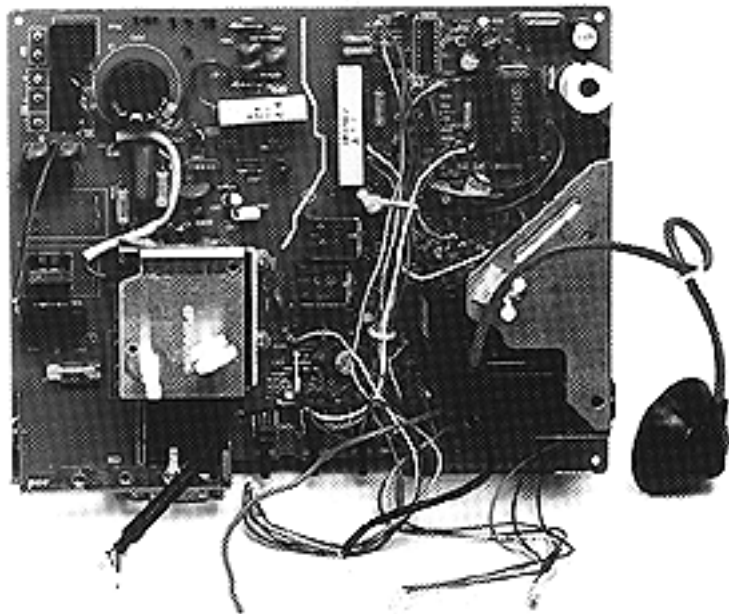
661-0347



**AppleColor RGB Monitor Power Supply Board (110 V)****661-0348**

Remove the three control knobs before you return the board to Apple.

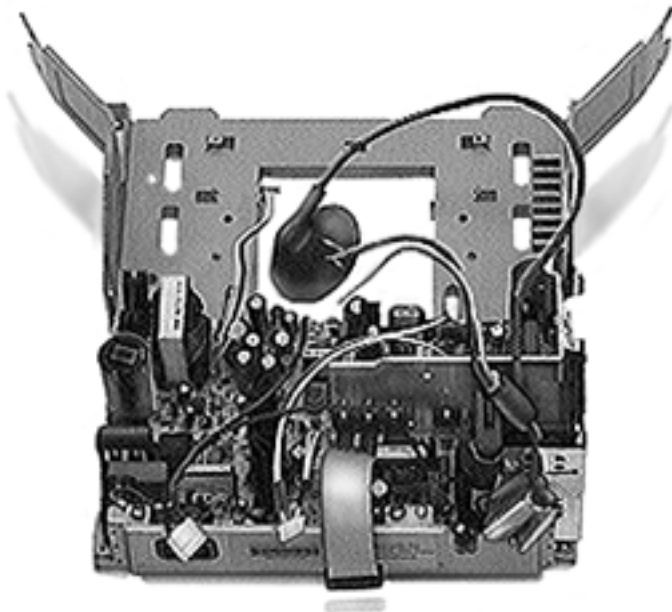


**AppleColor RGB Monitor Power Supply Board, 220/240 V****661-0358**

Remove the three control knobs before you return the board to Apple.





**AppleVision 1710/1710AV Display Board, Main Deflection, With Chassis****661-0910**

Service Providers must use the Display Service Utility 3.0, which is available on the May edition of the MacTest Pro CD, the June edition of Service Source CD, and on AppleLink via the following path:

Apple Service/Training:  
Service and Support:  
Apple Service  
Diagnostics:  
MacTest Pro Diagnostic  
Update 5/x/96





**CRT Assembly**

**661-0952**





**CRT Assembly, EQ Pol, Anti-Static/Glare 14", All-In-One  
(International Only)**

**661-1137**





**CRT Assembly, So. Hemisphere, Anti-Static/Glare, 14", All-In-One  
(International Only)**

**661-1136**





**CRT Assembly, No. Hemisphere, Anti-Static/Glare, 14", All-In-One  
(U.S. and other No. Hemisphere locations)**

**661-1135**





**CRT Assembly, CLR 15"**

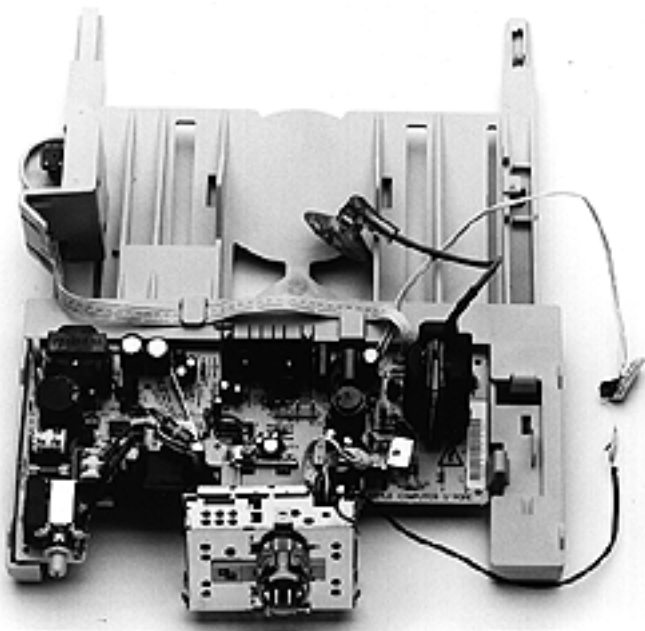
**661-0954**





**Macintosh 12-inch Monochrome Display Main Board**

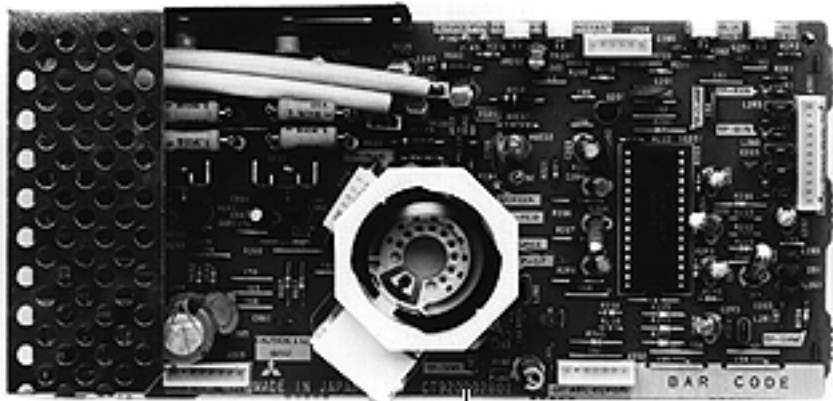
**661-0615**





# Macintosh 12-Inch RGB Display CRT Video Board

661-0618



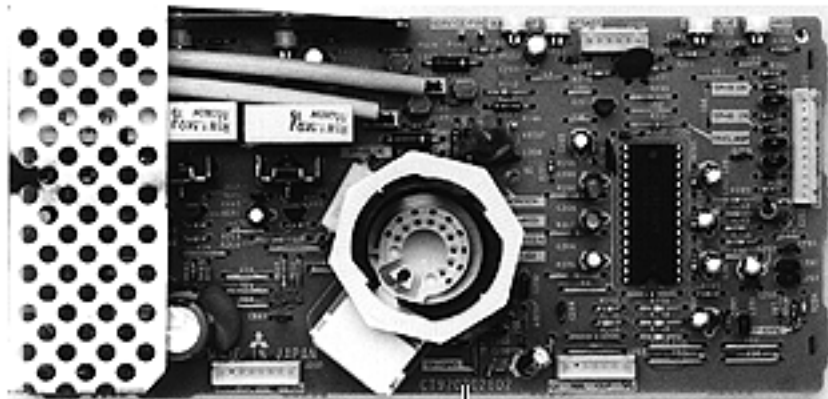
Serial Number





**Macintosh 12-Inch RGB Display CRT Video Board****661-1618**

Apple P/N 661-1618 is the part number for the universal video board. You can identify this board by the 11-digit serial number on the lower edge. The last four digits are 2802.



Serial Number



**Macintosh 12-Inch RGB Display Main Board (Domestic Rev. B)****661-0659**

The domestic Rev. B main board has component VR504 mounted next to connector J502.

Please refer to Service Source for detailed information on main board compatibility.



**Macintosh 12-Inch RGB Display Main Board (International Rev. B)****661-0660**

You can identify the international Rev. B board by the ID No. CT920A07602, which is behind the AC input connector.



**Macintosh 12-Inch RGB Display Main Board, Domestic Rev. B****661-0617**

You can identify the international Rev. A board by the ID No. CT920A05902, which is behind the AC input connector.



**Macintosh 12-Inch RGB Display Main Board, International Rev. A****661-0616**

VR504  
does not  
exist on  
this board



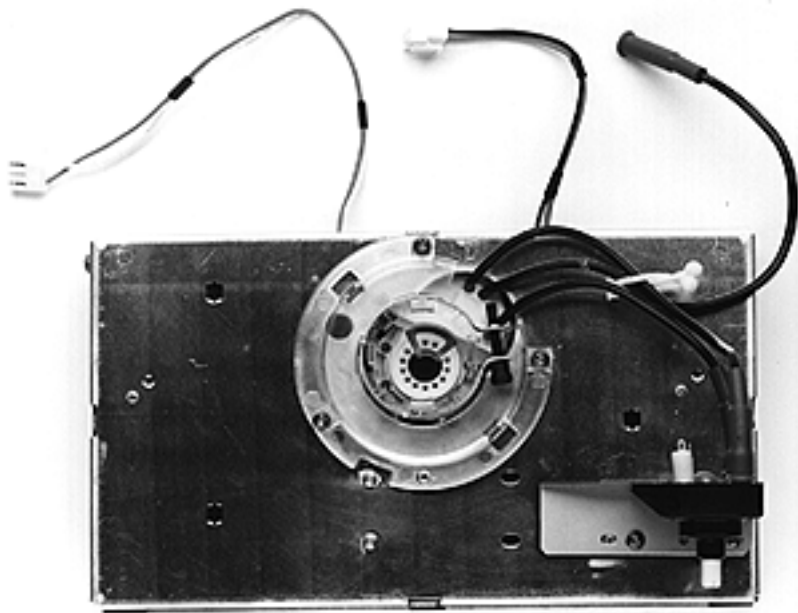
This Rev. A board has no component VR504; on the domestic Rev. B board (P/N 661-0659), component VR504 is located next to connector J502.

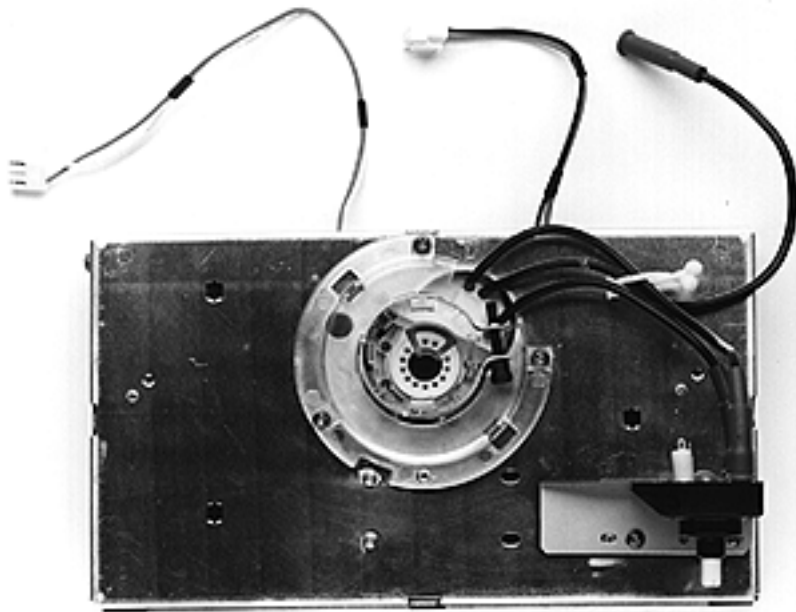




Macintosh 16-Inch Color Display CRT Video Board

661-1635



**Macintosh 16-Inch Color Display Main Board (Rev. A)****661-1634**

You can identify this board by the vendor number A-1335-028. If the vendor number is different, see P/N 661-1671.

Due to inventory constraints, Apple may substitute 661-1671, which is fully compatible with the Macintosh 16" Color Display. Note: Connector D20 is NOT required when using

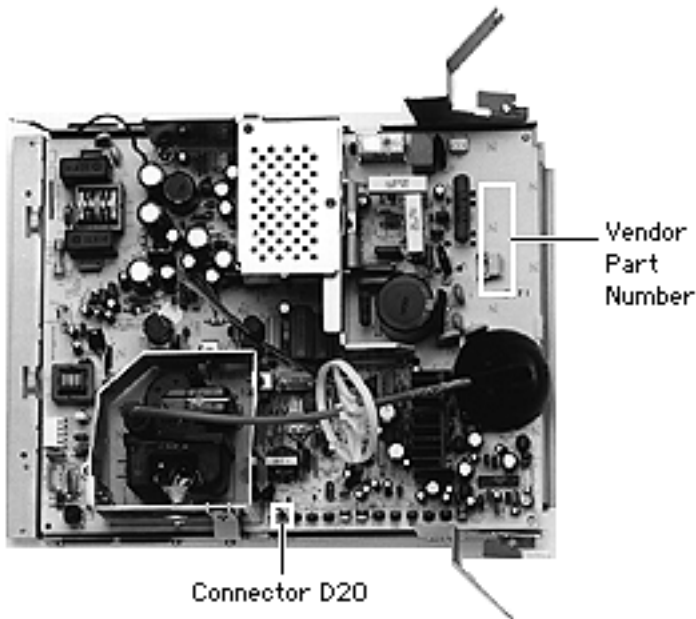




this board to replace the main board (Apple part number 661-1634, which has a vendor part number of A-1335-028 appearing on the board near connector D3).





**Macintosh 16-Inch Color Display Main Deflection Board (Rev. B)****661-1671**

This Rev. B board has a vendor number of A-1335-040 or greater near connector D3. The vendor number of the Rev. A board (P/N 661-1634) is A-1335-028.

Only this Rev. B board has a connector D20.





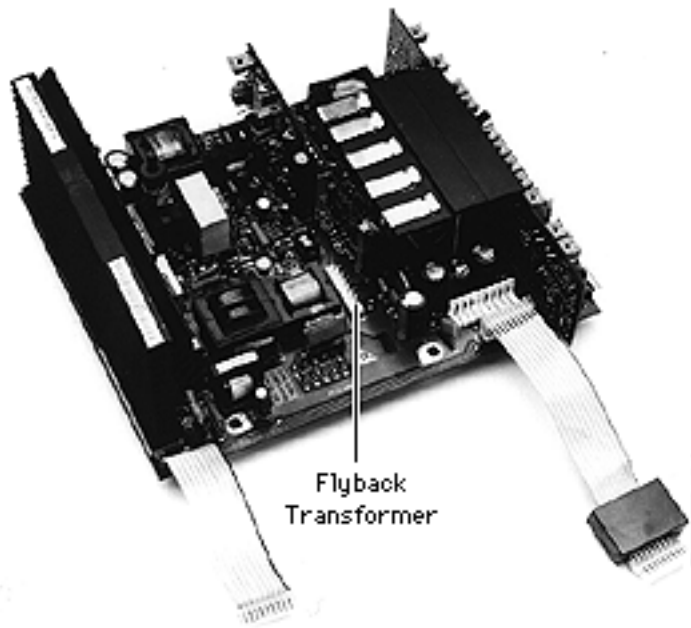
# Macintosh 21-Inch Color Monitor Magnetometer Degauss Board

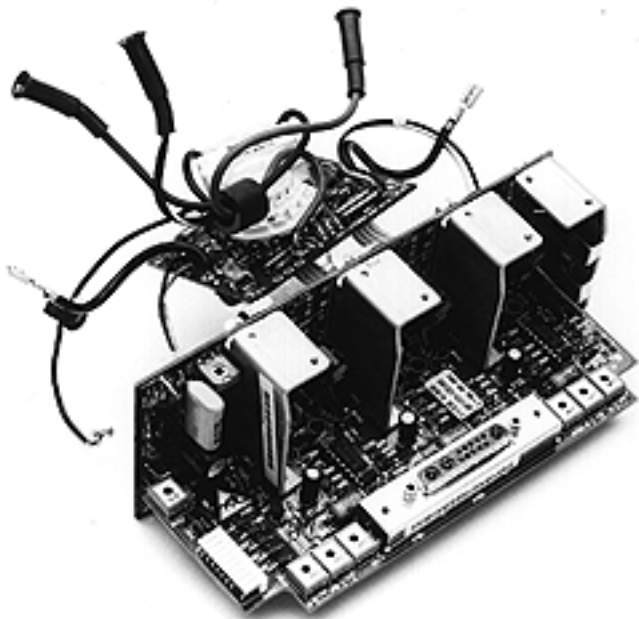
661-0657



**Macintosh 21-Inch Color Monitor Main Board Assembly****661-0656**

Remove the flyback transformer assembly (P/N 076-0399) before you return the main board assembly to Apple.



**Macintosh 21-Inch Color Monitor Video/Color Assembly****661-0655**

Return the heat sink when you return a defective video/color assembly to Apple.





Macintosh Color Classic CRT Assembly, 9-Inch RGB, U.S.

661-0004





## Macintosh Color Display Main Deflection Board (Without E.Star) (Replaced by 661-0169)

**661-1650**

When you return P/N 661-1650, Apple ships you either P/N 661-1650 or P/N 661-0102)

There are two versions of the Macintosh Color Display main deflection board: P/N 661-0102 and P/N 661-1650.

You can differentiate between the boards by checking for the RP 20 resistor located below





the bar code label.

P/N 661-0102 has the resistor; P/N 661-1650 does not.



**Macintosh Color Display Main Deflection Board (With E. Star)****661-0102**

There are two versions of the Macintosh Color Display main deflection board: P/N 661-0102 and P/N 661-1650.

You can differentiate between the boards by checking for the RP 20 resistor located below the bar code label. P/N 661-0102 has the resistor; P/N 661-1650 does not.

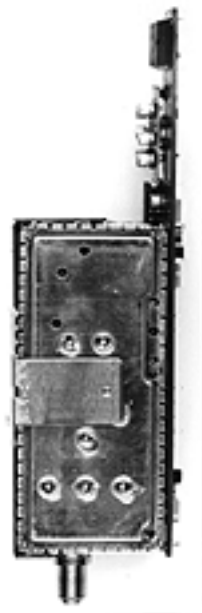






**Macintosh TV Tuner PCB**

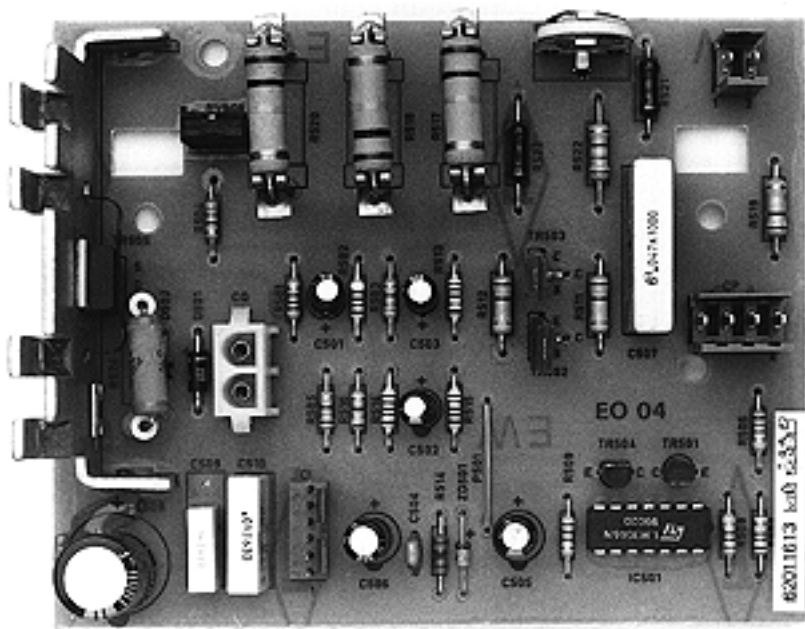
**661-1731**





Portrait Display "Series B" Deflection Board, Rev. A

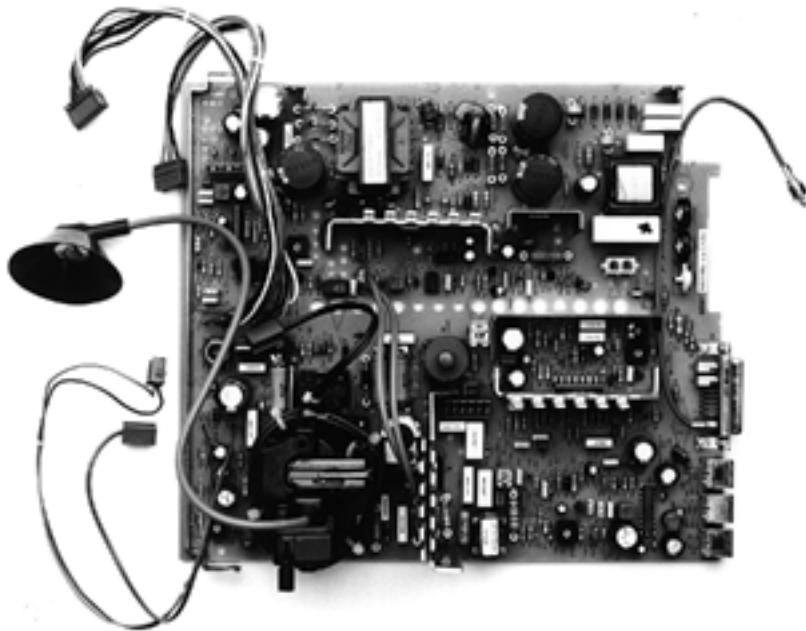
661-1603





**Portrait Display "Series B" Main Deflection Board, VDE-B**

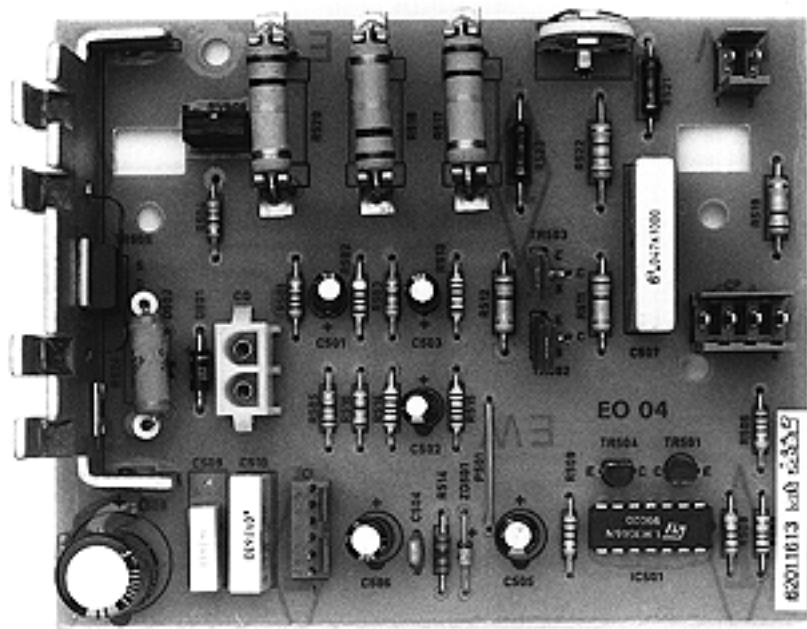
**661-0580**





Portrait Display "Series B" Video Color Board, Rev. A

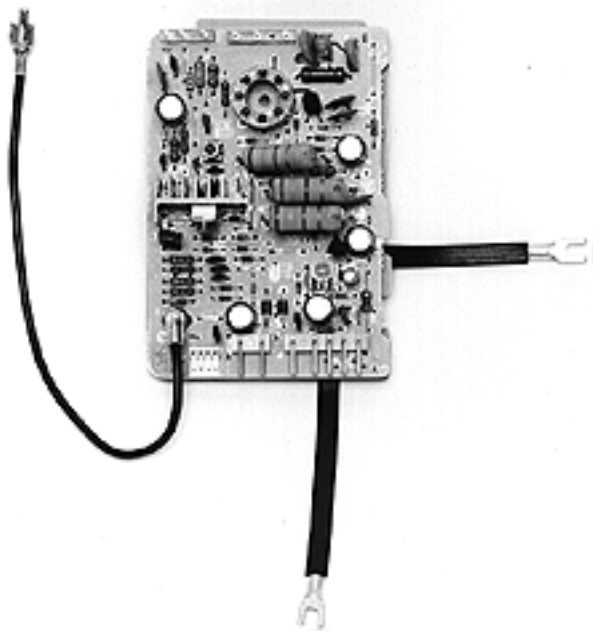
661-0539





Portrait Display Monitor CRT Video Board

661-0119





**Portrait Display Monitor Power Sweep Board**

**661-0117**





**Portrait Display Monitor Video Board**

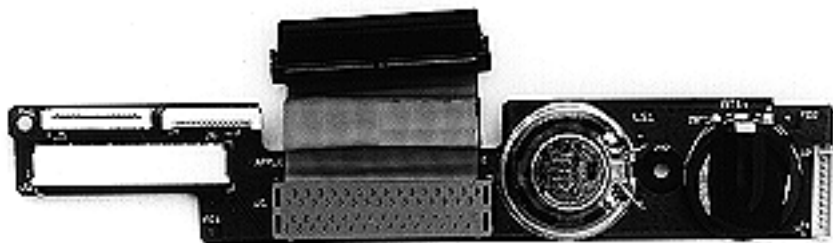
**661-0118**





**PowerBook 140/145/170 Interconnect Board**

**661-0724**







**PowerBook 1400c Display, 11.3", CTFT, SVGA  
CPRC/Int'l Only**

**661-1231**

The display includes a display cable.





**PowerBook 1400cs Display, 11.3", Dualscan, FSTN, SVGA,**

**661-1189**



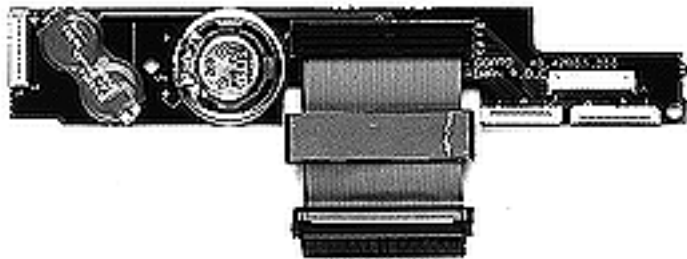
The display includes a like-for-like display cable (Hitachi or Sharp).





**PowerBook 150 Interconnect Board**

**661-0190**



**PowerBook 160/165/180 Interconnect Board****661-0750**

The PowerBook 160/165/180, 140/145/170, 165c, and 180c interconnect boards are similar. You can identify this PowerBook 160/165/180 interconnect board by the presence of an internal microphone and the PCB part number 820-0363 underneath the cable assembly.



**PowerBook 165c Interconnect Board****661-0764**

The PowerBook 160/165/180, 140/145/170, 165c, and 180c interconnect boards are similar. You can identify this PowerBook 165c interconnect board by the PCB part number 820-0419 underneath the cable assembly.



**PowerBook 180c Interconnect Board****661-0685**

The PowerBook 160/180, 140/145/170, 165c, and 180c interconnect boards are similar. You can identify the PowerBook 180c interconnect board by the PCB part number 820-0438 underneath the cable assembly.





**PowerBook 190/5300 Series Video Board**

**661-1055**





## Drives

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### CD-ROM Drives and Components







**CD-ROM Drive**

**661-1150**





CD-ROM Drive, 6X

661-1290





CD-ROM Drive, 6X, PowerBook 1400

661-1286





**CD-ROM Drive, 8X, PowerBook 1400 Series**

**661-1426**





**CD-ROM Drive, 8X, Graphite, PB 1400, with Enclosure**

**661-1358**



**CD-ROM Drive, AppleCD 150, Caddy Loading, External****661-1646**

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in Service Source.



**CD-ROM Drive, AppleCD 150, Caddy Loading, External****661-1705**

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in Service Source.



**CD-ROM Drive, AppleCD 150, Caddy Loading, External****661-1645**

Do not return cables, software, or manuals with this CD-ROM drive.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts







chapter of the AppleCD 150/300 manual in Service Source.





## CD-ROM Drive, AppleCD 300, Caddy Loading

661-0023



APPLE REQUIRES  
SPECIAL PACKAGING:  
failure to comply with  
these requirements may  
result in a packaging  
noncompliance charge.



**CD-ROM Drive, AppleCD 300, Caddy Loading, External****661-0222**

APPLE REQUIRES  
SPECIAL PACKAGING:  
failure to comply with  
these requirements may  
result in a packaging  
noncompliance charge.





## CD-ROM Drive, AppleCD 300+, Trayloading

661-0225



APPLE REQUIRES  
SPECIAL PACKAGING:  
failure to comply with  
these requirements may  
result in a packaging  
noncompliance charge.



**CD-ROM Drive, AppleCD 600, Trayloading****661-0913**

Model Number



APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in Service Source.



**CD-ROM Drive, AppleCD 600e+****661-0959**

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 600e Plus manual in Service Source.



**CD-ROM Drive, AppleCD 600i, Rev. B****661-1167**

Model Number



This drive looks similar to part number 661-0913, however it can be distinguished by its model number: CR-504-K, located on the top label. This drive is not interchangeable with part number 661-0913 when used on the Apple Network Server 500 or the Apple Network Server 700.





## CD-ROM Drive, AppleCD 1200i

661-1240

Model Number



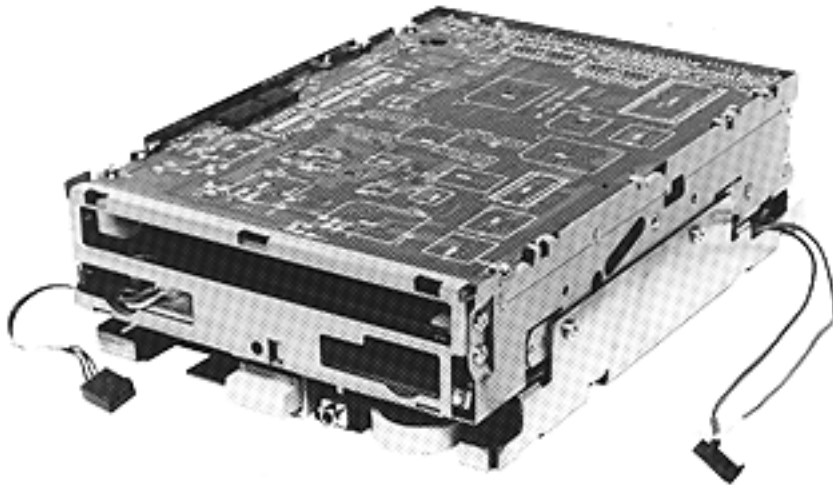




## CD-ROM Drive, AppleCD 1800i

661-1415

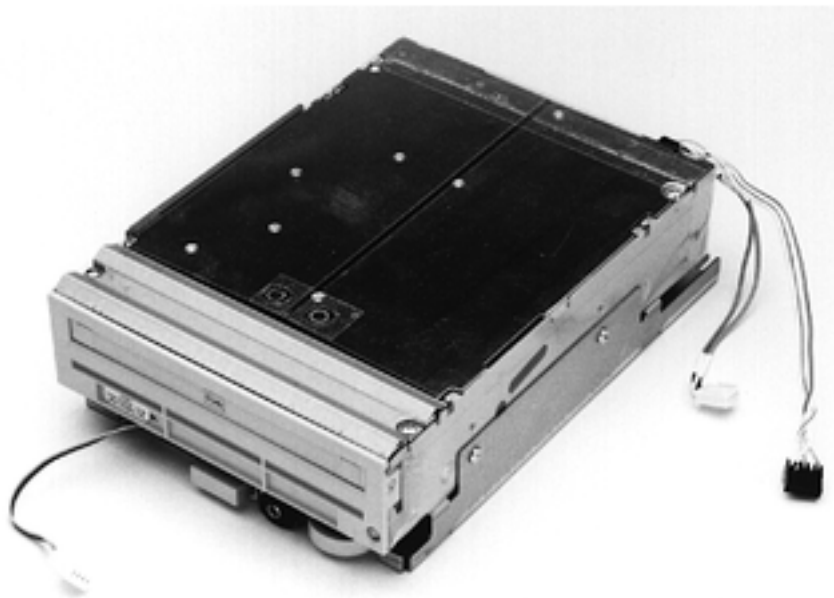


**CD-ROM Drive, AppleCD SC, Caddy Loading, External****661-0110**

Return the CD-ROM drive with the SCSI select cable attached.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**CD-ROM Drive, AppleCD SC+, Caddy Loading, External****661-0671**

Return the CD-ROM drive with the LED, SCSI select, and rear audio cables attached.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the illustrated Parts





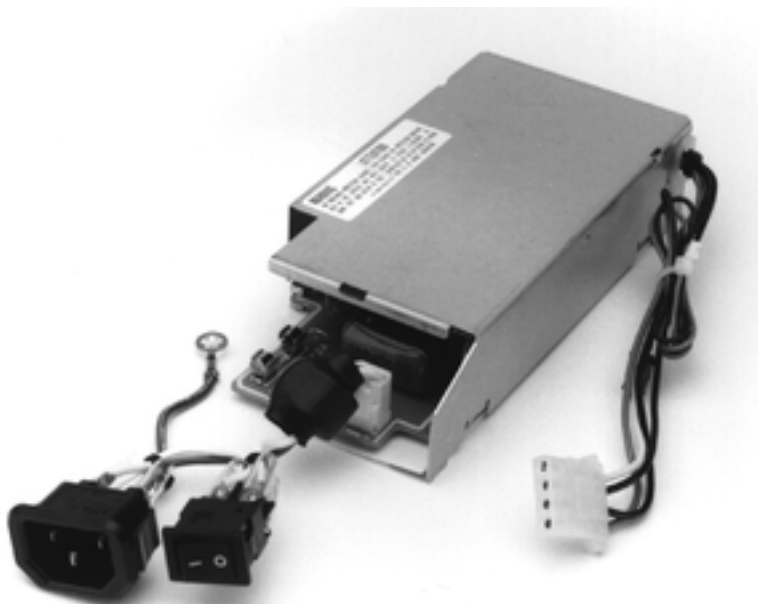
chapter of the AppleCD SC+ manual in Service Source.





**Power Supply, AppleCD 150**

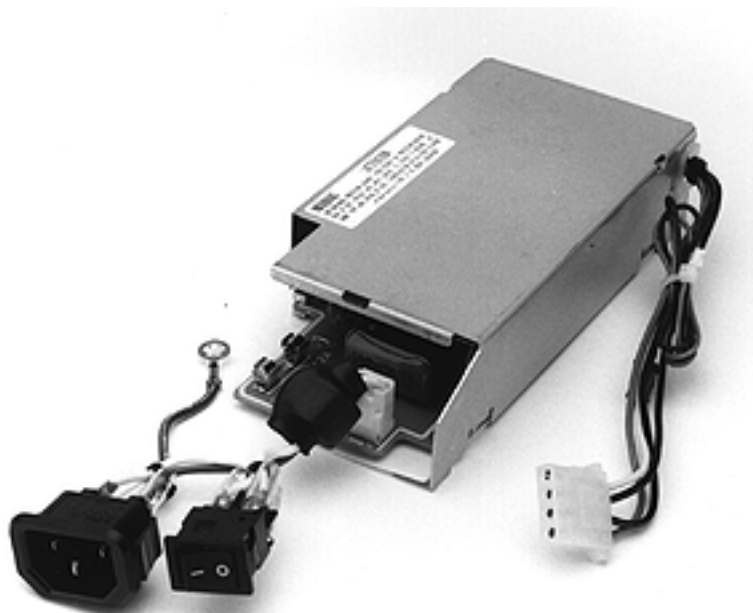
**661-1648**





**Power Supply, AppleCD 300**

**661-1706**



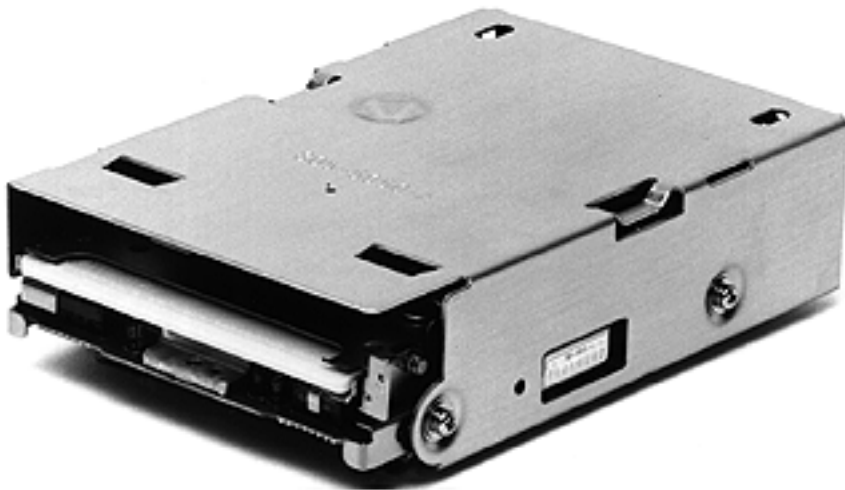


Drives

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Floppy Drives



**Floppy Drive, 800K, 3.5"****661-0345**

When returning the floppy drive to Apple, assemble the shipping fixture and the packing disk as shown. This drive can be identified by a red-on-silver label. Remove the internal drive cable before returning the drive to Apple.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service







provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Floppy Drive, 1.4 MB, 19 mm****661-1623**

When you return P/N 661-1623; Apple ships you P/N 661-1651.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels





that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

Apple **REQUIRES SPECIAL PACKAGING**; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Apple SuperDrive manual in Service Source.



**Floppy Drive, 1.4 MB, 19 mm****661-1651**

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.





Apple REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Apple SuperDrive manual in Service Source.



**Floppy Drive, 1.4 MB, Apple SuperDrive,****661-0474**

This 1.4 MB floppy drive has a 2 MB designation on the blue model number label and ships with either the 805-5055 or the 805-0961 carrier.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer

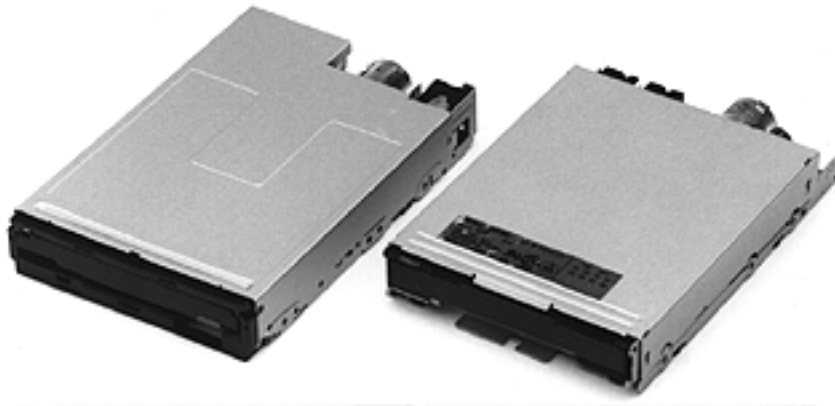




identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

Apple **REQUIRES SPECIAL PACKAGING**; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Apple SuperDrive manual in Service Source.



**Floppy Drive, 1.4 MB, Apple SuperDrive, Manual Insert****661-0121**

When you return P/N 661-1623; Apple ships you P/N 661-1651.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels



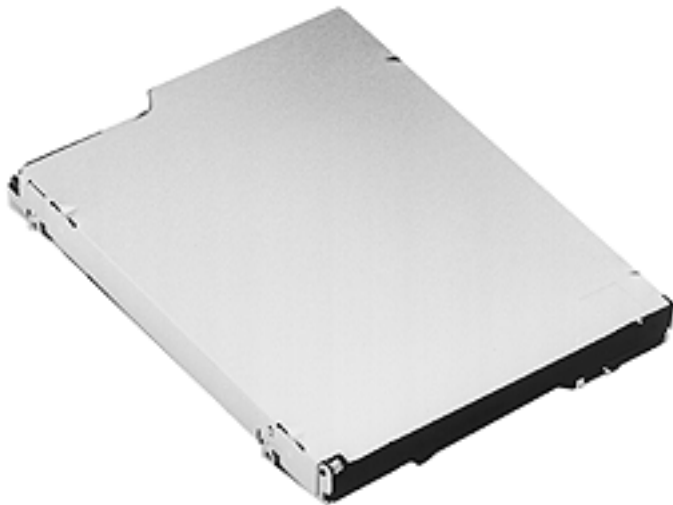




that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Floppy Drive, 1.4 MB, Graphite Door****661-0994**

APPLE REQUIRES  
SPECIAL PACKAGING:  
failure to comply with  
these requirements may  
result in a packaging  
noncompliance charge.  
For more information,  
select the notes icon in  
the Illustrated Parts  
chapter of the Hard  
Drives manual.

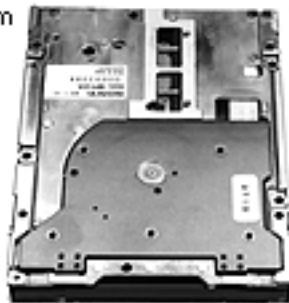


**Floppy Drive, 1.4 MB, PowerBook 520/540 Series****661-0061**

Top



Bottom



The PowerBook 520/540 floppy drive does not include the thin, metal ground plate.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels





that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.





**Floppy Drive, 1.44 MB, Graphite, PB 1400, with Enclosure**

**661-1359**





Floppy Drive, 1.44 MB, Graphite, PB 5300, with Enclosure

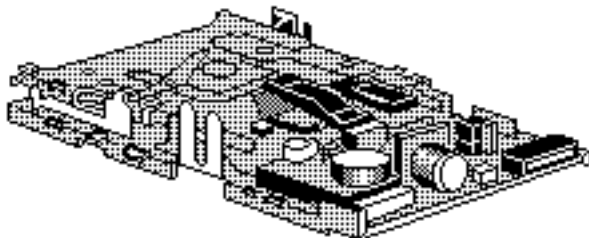
661-1360





**MAC 3.5" Disk Drive SVCE**

**661-76156**





## Drives

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Hard Drives and Components







Hard Drive, IDE, 2.5", 120 MB, PowerBook 150 (Discontinued and Replaced by 661-0046)

661-0127



**Hard Drive, IDE, 2.5", 500 MB, PowerBook 190****661-1058**

When present, the following must be removed before returning the drive to Apple: frame, and LED cable.

This drive may or may not have an Apple logo on it.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without





repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" IDE drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, IDE, 2.5", 500 MB, PowerBook 190****661-0047**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" IDE drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Hard Drives manual.



**Hard Drive, IDE, 2.5", 500 MB, In-Warranty Exchange ONLY****661-1751**

This part number should be used **ONLY** when exchanging a discontinued drive under warranty or AppleCare. For a list of all drives that have been discontinued, refer to the Service Notice entitled “Expanded Lower-Capacity Hard Drive Exchange Program on Service Source CD or on-line at <http://service.info.apple.com>.





Apple has made every effort to maintain LED support. However, some drives no longer support an LED. We regret any inconvenience this may cause.





**Hard Drive, IDE, 2.5", 750 MB, 12.5 mm**

**661-1253**







Hard Drive, IDE, 2.5", 750 MB, 17 mm

661-0957



**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.





For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives which support 2.5" IDE.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Hard Drives manual.



**Hard Drive, IDE, 2.5", 750 MB, Int'l Only (Replaced by 661-1298)****661-0943**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Hard Drives manual.





Hard Drive, IDE, 2.5", 1 GB

661-1245



**Hard Drive, IDE, 2.5", 1.1 GB****661-0944**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" IDE drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Hard Drives manual.





## Hard Drive, IDE, 2.5", 1.3 GB

661-1333







## Hard Drive, IDE, 2.5", 2 GB

661-1241



**Hard Drive, IDE, 3.5", 250 MB****661-0070**

The IDE drive is distinguished from a SCSI drive by the third (alternate power) connector built into the connector bar on the PCB.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer





identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.





## Hard Drive, IDE, 3.5", 350 MB

661-0068



The IDE drive is distinguished from the SCSI drive by the third (alternate power) connector built into the connector bar on the PCB.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.





**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, IDE, 3.5", 500 MB****661-0146**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,

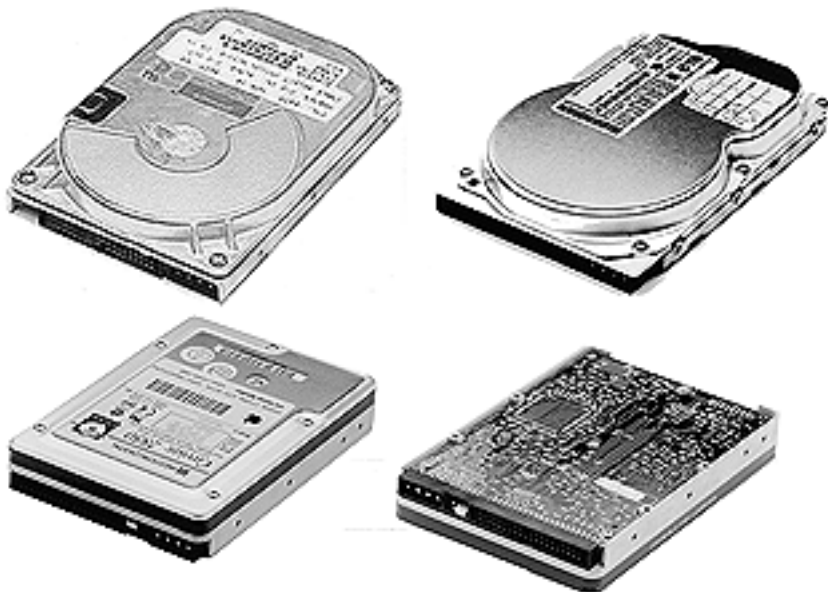




Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, IDE, 3.5", 800 MB****661-0999**

The IDE drive is distinguished from a SCSI drive by the third (alternate power) connector built into the connector bar on the PCB.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer







identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, IDE, 3.5", 1 GB****661-0955**

The IDE drive is distinguished from a SCSI drive by the third (alternate power) connector built into the connector bar on the PCB.



**Hard Drive, IDE, 3.5", 1.2 GB****661-1106**

The IDE drive is distinguished from the SCSI drive by the third (alternate power) connector built to the right of the connector bar on the PCB.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive





warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

Conner Drive Model # CFS1275A

Quantum Drive Model # 1.2GB FRBLA

Seagate Drive model # ST31276A

Quantum Drive Model # 1.2GB FBTMA



**Hard Drive, IDE, 3.5", 1.2 GB****661-1139**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

The IDE drive is distinguished from a SCSI drive by the third (alternate power) connector built into the connector bar on the PCB.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

Conner Drive Model # CFS1275A

Quantum Drive Model # 1.2GB FRBLA

Seagate Drive model # ST31276A

Quantum Drive Model # 1.2GB FBTMA





Hard Drive, IDE, 3.5", 1.6 GB

661-1107





Hard Drive, IDE, 3.5", 2.4 GB

661-1202

Bottom

Top







## Hard Drive, IDE, 3.5", 4 GB

661-1342





## Hard Drive, SCSI, 2.5", 40 MB (Discontinued and Replaced by 661-1298)

661-1630



This drive contains a plastic “horseshoe” shaped cover located on the top of the drive.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service





provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 40 MB, PowerBook 100 (Discontinued)****661-1632**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 40 MB, PowerBook 100 (Discontinued)****661-1644**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 40 MB, Trayloading (Discontinued)****661-0016**

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal is Broken” have been tampered with or removed.







When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the Hard Drives manual in Service Source.



**Hard Drive, SCSI, 2.5", 80 MB (Discontinued)****661-0211**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 120 MB (Discontinued)****661-0772**

Return the hard drive with the screw-in feet attached.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without





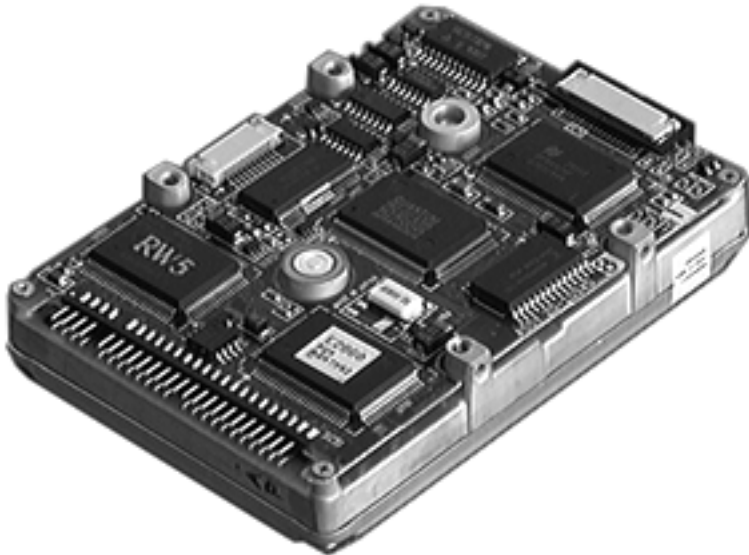
repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





## Hard Drive, SCSI, 2.5", 160 MB (Discontinued and Replaced by 661-1298)

**661-0213**

When you return P/N 661-0213, Apple ships you P/N 661-0217.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels

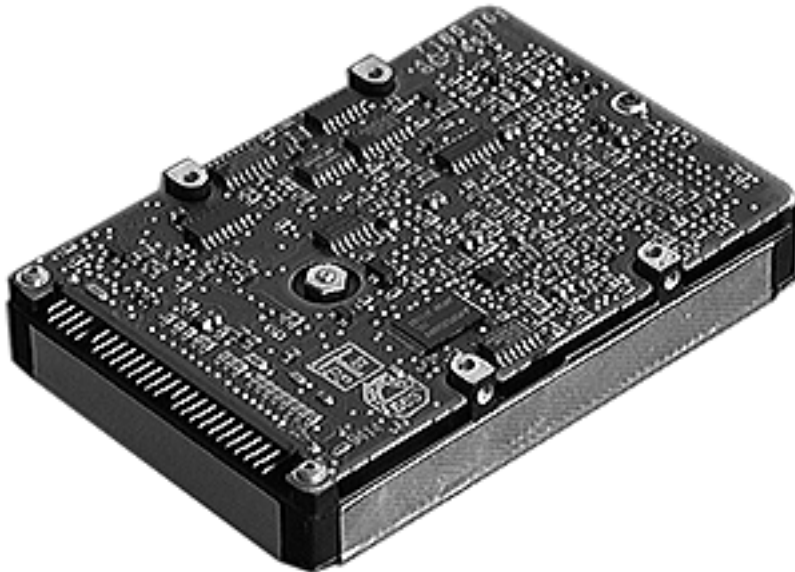




that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 200 MB (Replaced by 661-1298)****661-0779**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,







Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 240 MB (Replaced by 661-1298)****661-0217**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





**Hard Drive, SCSI, 2.5", 320 MB, In-Warranty Exchange ONLY  
(Replaced by 661-1298)**

**661-1753**



**Hard Drive, SCSI, 2.5", 320 MB (Replaced by 661-1298)****661-0896**

The 160 MB, 240 MB, and 320 MB, SCSI, 2.5" hard drives are similar. You can identify the 320 MB, SCSI, 2.5" hard drive by the number 320 MB on the drive label.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.





**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





## Hard Drive, SCSI, 2.5", 500 MB, In-Warranty Exchange ONLY (Discontinued)

661-1752



This part number should be used ONLY when exchanging a discontinued drive under warranty or AppleCare.

For a list of all drives that have been discontinued, refer to the Service Notice entitled "Expanded Lower-Capacity Hard Drive Exchange Program on Service Source CD or on-line at





<http://service.info.apple.com>. Apple has made every effort to maintain LED support. However, some drives no longer support an LED. We regret any inconvenience this may cause.





**Hard Drive, SCSI, 2.5", 500 MB (Replaced by 661-1298)****661-0175**

The 160 MB, 320 MB, and 500 MB, SCSI, 2.5" hard drives are similar. You can identify the 500 MB, SCSI 2.5" drive by the 500 MB on the drive label.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive





warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 2.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 2.5", 1 GB, Use with 922-0006 in PB100-180c****661-1298**

Top



Bottom



Although the label on this hard drive might indicate that it is an IDE device, it is equipped with a converter card which causes it to perform as a SCSI device. The adapter card is intended to remain with the drive. Do not remove it.

This drive is only compatible with the following Apple products:





- PowerBook Duo 210, 230, 250, 270c, 280, 280c, 2300c
- PowerBook 100\*, 140, 145, 145b, 160, 165, 165c, 170, 180, 180c, 500 Series.

This drive is not compatible with the PowerBook 150, 190 Series, 1400 Series, or 5300 Series because these PowerBooks use IDE hard drives.

This drive has not been formatted. Customers and/or AASPs should use the hard drive formatting software that is compatible with the version of Apple System Software they intend to install on the drive, with the exception of the PowerBook 100. \*To format the drive to function properly in the PB 100, the drive should be formatted with HD SC Setup v7.3.5, which is available on the System Software 6.0.8 Disk Tools Disk.





### Installation Notes:

To install this drive in a PB 100, 140, 145, 145b, 160, 165, 165c, 170, 180, or 180c, a 19mm internal mounting bracket (p/n 922-0006) is required. To install this drive in a PB Duo or PB 500 Series computer, reuse the mounting bracket from the original internal hard drive.



**Hard Drive, SCSI, 3.5", 40 MB****661-0216**

The callout in this picture points to the “AXX” label, which substitutes for an Apple logo. Two different vendors manufacture this hard drive.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.





**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 40 MB****661-0540**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,



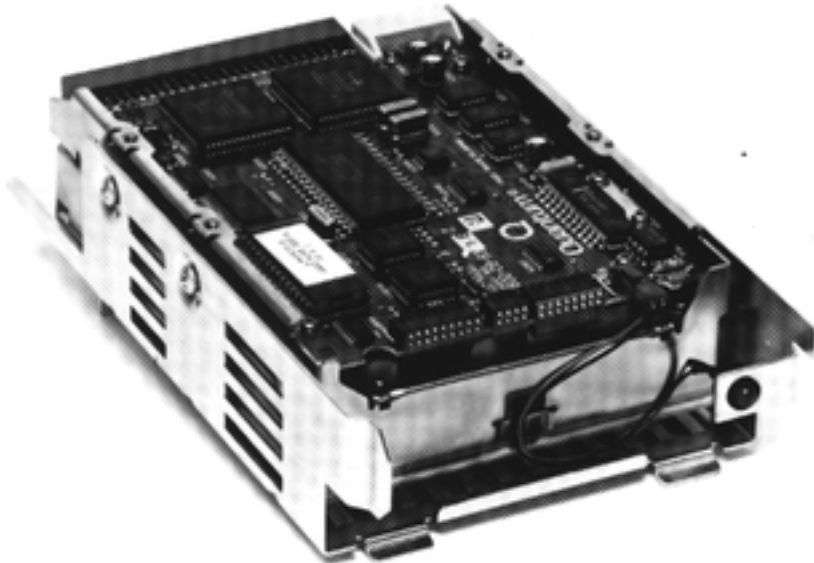




Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 80 MB****661-0561**

When you return P/N 661-0561, Apple ships you P/N 661-0613.

The 80 MB, SCSI, 3.5" hard drive with A/UX v. 1.1 has a Version 1.1 label located on the anodized brass plate, which is on the same end of the hard drive as the LED.





When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 80 MB (Discontinued)****661-0212**

For in-warranty computers:

When you return P/N 661-0212, Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

For out of warranty computers:

Customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original





drive to them, NOT to Apple.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.





## Hard Drive, SCSI, 3.5", 80 MB, HD Adapter Support (Discontinued)

**661-0111**

For in-warranty computers:

When you return P/N 661-0111; Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

For out of warranty computers:

Customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original



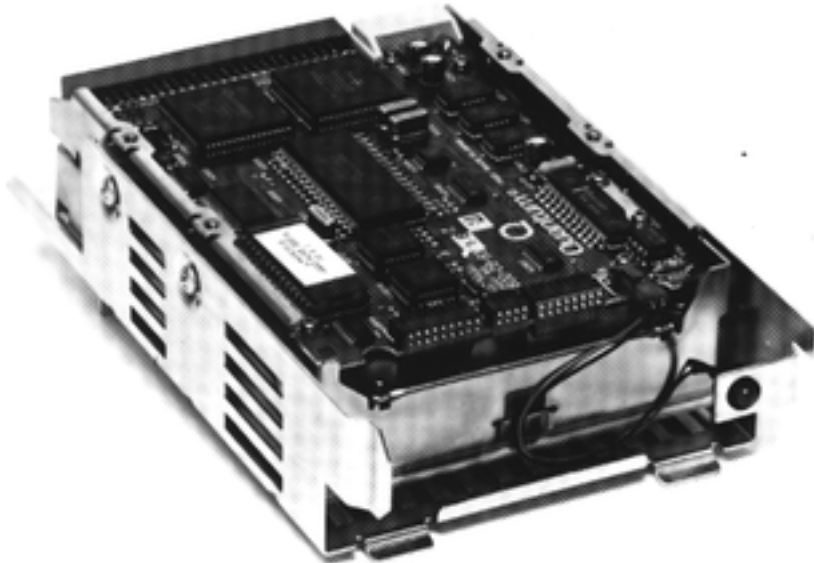


drive to them, NOT to Apple.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 80 MB, with A/UX 2.0****661-0613**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,







Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.

Use the A/UX v2.0 Installation CD (part number) 600-4192 to configure any supported Apple Drive.



**Hard Drive, SCSI, 3.5", 120 MB (Discontinued)****661-0021**

When you return P/N 661-0021; Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

Out of warranty customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original drive to them, NOT to Apple.





When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 160 MB (Discontinued)****661-0214**

For in-warranty computers:

When you return P/N 661-0214, Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

For out of warranty computers:

Customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original





drive to them, NOT to Apple.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.





**Hard Drive, SCSI, 3.5",160 MB, HD Adapter Support  
(Discontinued)**

**661-1649**

Top



Bottom



For in-warranty computers:  
When you return P/N 661-1649; Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

For out of warranty computers:  
Customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original





drive to them, NOT to Apple.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.

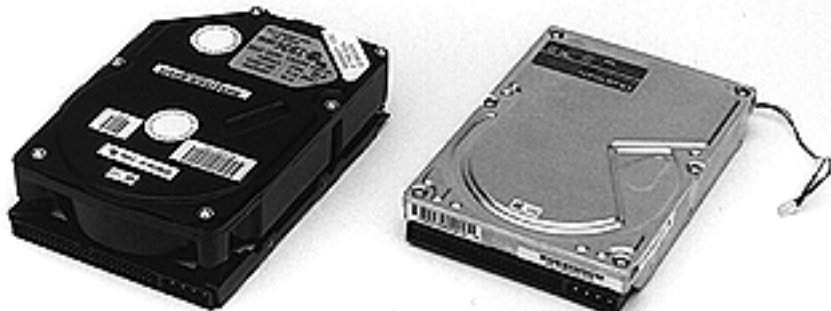


**Hard Drive, SCSI, 3.5", 160 MB with A/UX 2.0.1****661-1639**

The 160 MB, SCSI, 3.5" hard drive with A/UX has a version 2.0.1 label on the drive.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service







provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.

Use the A/UX v2.0 Installation CD (part number) 600-4192 to configure any supported Apple Drive.



**Hard Drive, SCSI, 3.5", 230 MB (Discontinued)****661-1637**

For in-warranty computers:

When you return P/N 661-1637; Apple ships you P/N 661-1750, Hard Drive, SCSI, 3.5".

For out of warranty computers:

Customers must order a new drive, 250 MB or greater, that is compatible with their system. Return the customer's original





drive to them, NOT to Apple.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 250 MB****661-0890**

The 250 MB and 500 MB, SCSI, 3.5" hard drives are similar. You can identify the 250 MB, SCSI, 3.5" internal drive by the number 250 MB on the drive label.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.





**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 3.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 320 MB (Replaced by 661-0182)****661-0505**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,

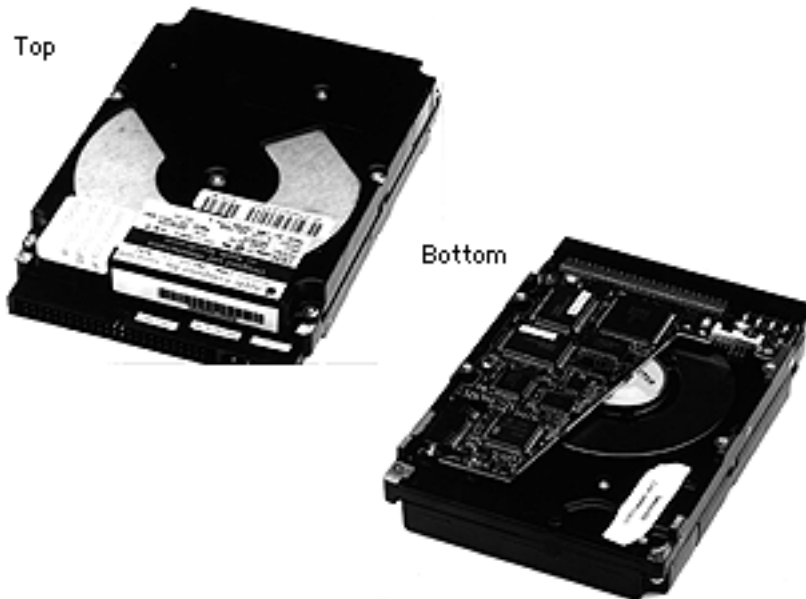




Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 350 MB****661-0182**

The 250 MB, 350 MB, and 500 MB, SCSI, 3.5" hard drives are similar. You can identify the 350 MB, SCSI, 3.5" hard drive by the number 350 MB on the drive label.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.







**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 3.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 400 MB****661-1636**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge. When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.



**Hard Drive, SCSI, 3.5", 500 MB****661-0974**

The 250 MB, 350 MB, 500 MB, and 700 MB, SCSI, 3.5" hard drives are similar. You can identify the 500 MB, SCSI, 3.5" internal drive by the manufacturing model name "maverick" printed on the drive label.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service





provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 3.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 500 MB****661-0219**

The 250 MB, 350 MB, 500 MB, and 700 MB, SCSI, 3.5" hard drives are similar. You can identify the 500 MB, SCSI, 3.5" internal drive by the number 500 MB on the drive label.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar





code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives that support 3.5" SCSI drives.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 500 MB, In-Warranty Exchange ONLY****661-1750**

Use this part number ONLY when you are exchanging a discontinued drive under warranty or AppleCare. For a list of all drives that have been discontinued, refer to the Service Notice entitled "Expanded Lower-Capacity Hard Drive Exchange Program on Service Source CD or on-line at <http://service.info.apple.com>.







Apple has made every effort to maintain LED support. However, some drives no longer support an LED. We regret any inconvenience this may cause.



**Hard Drive, SCSI, 3.5", 700 MB****661-0184**

The 250 MB, 350 MB, 500 MB and 700 MB SCSI 3.5" hard drives are similar. You can identify the 700 MB SCSI 3.5" drive by the number 700 MB on the drive label.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.





**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





Hard Drive, SCSI, 3.5", 800 MB

661-1102



**Hard Drive, SCSI, 3.5", 1 GB (Replaced by 661-1142)****661-0228**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

For maximum compatibility, Apple recommends this drive for use in older Macintosh computers and external drives except those that use Foxconn connectors (i.e., Macintosh LC 520/550/575 computers and Performa® 500 series computers).

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 1.2 GB****661-1142**

Warranty: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void if Seal is Broken” have been tampered with or removed.

When present, the following must be removed before returning the drive to Apple:





Frame, LED cable, SCSI select cable.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.





**Hard Drive, SCSI, 3.5", 2 GB****661-1076**

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal is Broken” have been tampered with or removed.





When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 2 GB****661-0892**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 2 GB****661-0180**

Return the hard drive without the HDA frame, LED cable, and SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM label, or labels





that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.



**Hard Drive, SCSI, 3.5", 2 GB, Fast/Wide, IBM****661-0956**

Top



Bottom



This drive can be identified by its high-density interface connector.

Return the defective hard drive without the SCSI cables, SCSI select cable, LED cable, power cable, and the drive carrier.

Warranty: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification





label, Apple capacity or EPROM label, or labels that say “Warranty Void if Seal Broken” have been tampered with or removed. APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

This drive uses SCSI ID cable, Type 1, P/N 922-2102.





**Hard Drive, SCSI, 3.5", 2 GB, Fast/Wide, Seagate****661-1178**

Top



Bottom



Return the defective hard drive without the SCSI cables, SCSI select cable, LED cable, power cable, and the drive carrier.

Warranty: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,

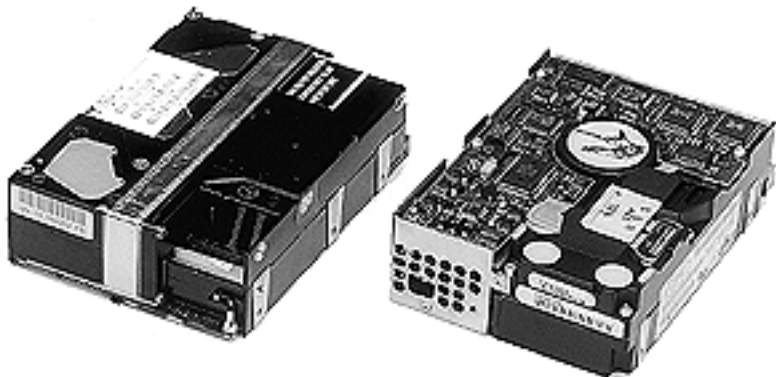




Apple capacity or EPROM label, or labels that say “Warranty Void if Seal Broken” have been tampered with or removed. APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

This drive uses SCSI ID cable, Type 1, P/N 922-2102.



**Hard Drive, 4 GB, SCSI, 3.5", 7200****661-0951**

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label,





Apple capacity or EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

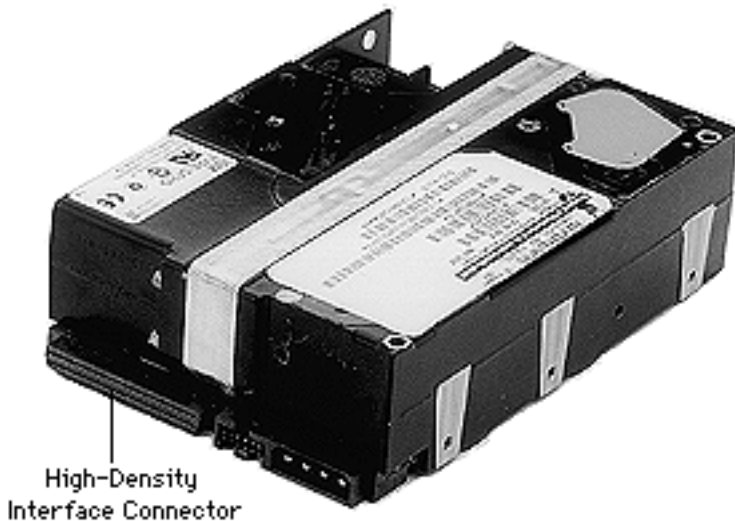


**Hard Drive, SCSI, 3.5", 4 GB, Fast/Wide, IBM****661-0958**

This drive can be identified by its high-density interface connector.

Return the defective hard drive without the SCSI cables, SCSI select cable, LED cable, power cable, and the drive carrier.

Warranty: The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification





label, Apple capacity or EPROM label, or labels that say “Warranty Void if Seal Broken” have been tampered with or removed. APPLE REQUIRES SPECIAL PACKAGING; failure to comply with these requirements may result in a packaging noncompliance charge.

This drive uses SCSI ID cable, Type 1, P/N 922-2102.





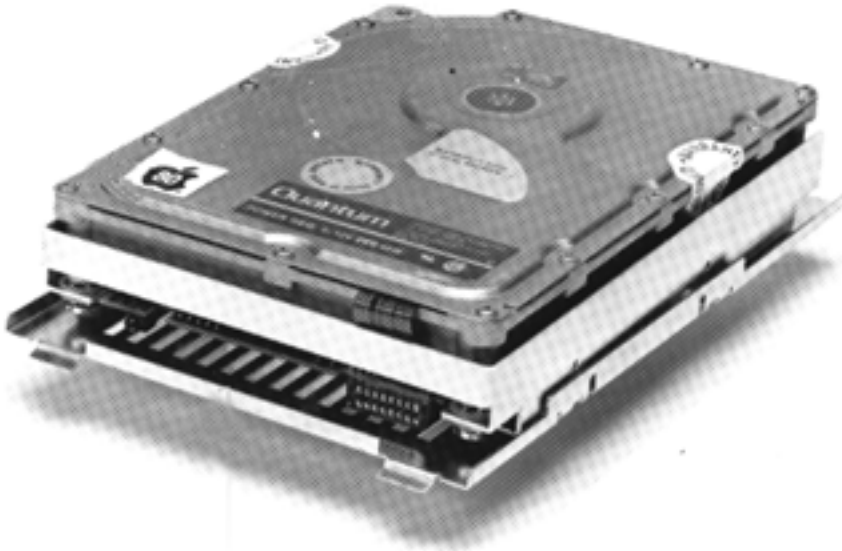
**Hard Drive, SCSI, 3.5", 4 GB, Fast/Wide, Seagate**

**661-1179**

Top

Bottom



**Hard Drive, SCSI, 5.25", 80 MB, with A/UX****661-0457**

The 80 MB, SCSI, 5.25" hard drive with A/UX has a A/UX label located on the upper-left corner.

When present, the following must be removed before returning the drive to Apple: frame, LED cable, SCSI select cable.

**WARRANTY:** The drive warranty will be void and Apple will return







the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.



**Power Supply, Hard Drive, 20 MB, SCSI****661-0343**

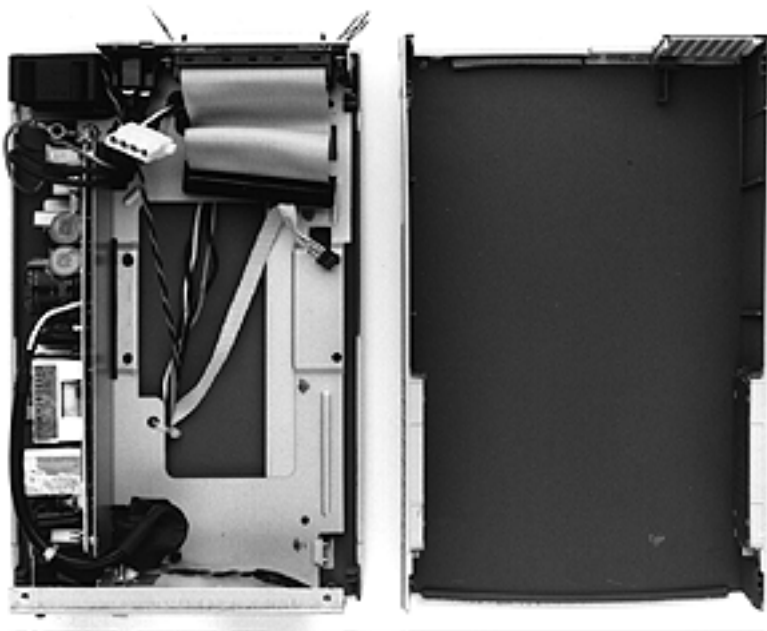
APPLE REQUIRES  
SPECIAL PACKAGING:  
failure to comply with  
these requirements may  
result in a packaging  
noncompliance charge.





Power Supply with Enclosure, Hard Drive

661-0032





Drives

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Tape Drives

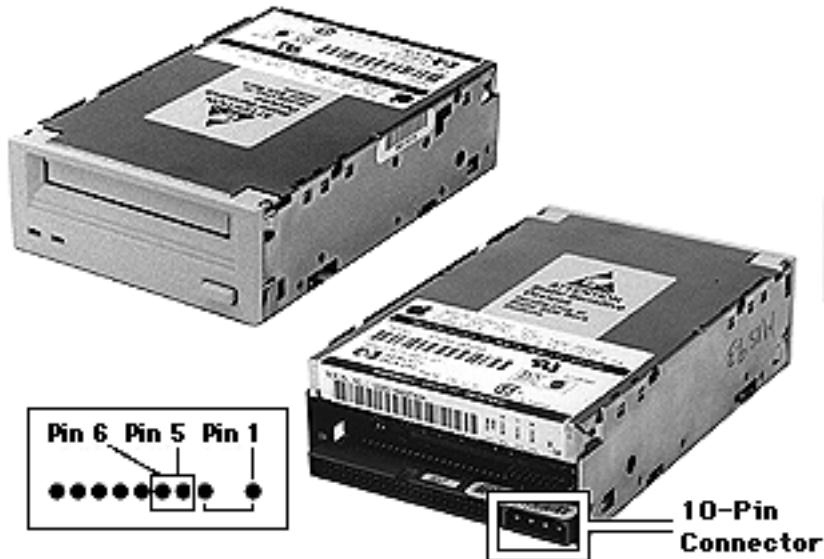


**Tape Drive, 40 MB****661-0392**

Return the tape drive with the metal frame attached.

APPLE REQUIRES SPECIAL PACKAGING: failure to comply with these requirements may result in a packaging noncompliance charge.



**Tape Drive, 4 mm, DAT, DDS-DC, SCSI, 2 GB****661-0795**

**AWS 95 Note:** When you return a defective drive to Apple, remove the SCSI select cable and switch, drive adapter plate, and carrier, if present.

**AWS 80 Note:** When you return a defective drive to Apple, transfer the SCSI select shorting jumper on rear of the drive, if present, from the defective drive to the service replacement





drive. The jumper shorts pin 5 and pin 6 on the ten-pin connector to select the SCSI ID number 2.

**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





**Tape Drive, 8 mm, 20/40GB, Network Server**

**661-1246**





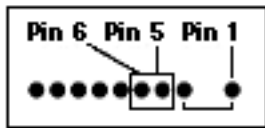


## Tape Drive, 120M, DAT, DDS-2, SCSI

661-0039



**Note:** The Apple DAT, DDS-2, 120M and the Apple 2 GB, DDS-DC SCSI tape drives are similar. You can identify the Apple DAT, DDS-2, 120M tape drive by the number 4 GB on the drive label.



**AWS 9150 Note:** When you return a defective drive to Apple, remove the SCSI select cable and switch, drive adapter plate and carrier, if present.

**AWS 8150 Note:** When you return a defective drive to Apple, transfer the SCSI select shorting jumper on the rear of the drive, if present, from the defective drive to the service





replacement drive. The jumper shorts pin 5 and pin 6 on the ten-pin connector to select the SCSI ID number 2.

**Warranty:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say “Warranty Void If Seal Is Broken” have been tampered with or removed.

**APPLE REQUIRES SPECIAL PACKAGING:** failure to comply with these requirements may result in a packaging noncompliance charge.





Zip Drive

661-1331





## Input Devices

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Keyboards





## Apple Adjustable Keyboard

661-0731





## Apple Keyboard

**661-0383**



661-0383

661-0383 B/D/E/F/  
S/T

When you return P/N  
661-0383, Apple  
ships you P/N 661-  
0603.

Remove the cable before  
returning the keyboard  
to Apple.





## Apple Keyboard II

661-0603

Remove the cable before returning the keyboard to Apple.





## Apple Extended Keyboard

**661-0384**

661-0384

661-0384 B/D/F/E/

S/T







## Apple Extended Keyboard II

661-0543

661-0543

661-0543 D/F/E/T/C





**AppleDesigned Keyboard, Graphite (Int'l Only)**

**661-1148**





## AppleDesigned Keyboard with Attached Cable (Discontinued and Replaced by 922-2832)

**661-0310**

The US version of this keyboard must now be ordered as 922-2832. Orders are no longer accepted for 661-0310. Do not return this keyboard to Apple.

The international versions of this keyboard (661-0310 B/D/F/E/S/T) are still valid part numbers and should still be returned to Apple for replacement.



**AppleDesigned Keyboard with Attached Cable, International****B/ D/ E/ F/ S/ T 661-0310**

The international versions of this keyboard (661-0310 B/D/F/E/S/T) are still valid part numbers and should still be returned to Apple for replacement.

Return the keyboard with the cable attached.





**Macintosh Plus Keyboard with Cable**

**661-0416**



661-0416 (Platinum)  
661-0416 B/C/D/F/  
E/S/T/C

661-0416 replaces  
661-96154





**Macintosh Plus Keyboard with Cable  
(Replaced By 661-0416)**

**661-0322**

When you return P/N  
661-0322, Apple  
ships you P/N 661-  
0416.





## Macintosh Portable Keyboard

**661-0476**

661-0476

661-0476 B/C/D/E/  
F/S/T

The Macintosh Portable keyboard comes in two versions. The original keyboard (661-0476) has a steel mounting plate with a silver finish; the new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswitches are different and have a





different feel. When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.







## Macintosh Portable Lightweight Keyboard

**661-1612**

The Macintosh Portable keyboard comes in two versions. The original keyboard (661-0476) has a steel mounting plate with silver finish; the new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswitches are different and have a different feel.





When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.



**Macintosh TV Keyboard II (Discontinued and Replaced by 922-2327)****661-1722**

This keyboard must now be ordered as 922-2327. Orders are no longer accepted for 661-1722. Do not return this keyboard to Apple computer.



**PowerBook 100 Keyboard****661-0713**

661-0713

661-0713 C/E/J/Z





**PowerBook 140/145/160/165/165c/170/180 Keyboard**

**661-0712**

661-0712

661-0712 B/C/D/E/

F/S/T





**PowerBook 190/3400/5300 Series Keyboard**

**661-0935**

661-0935 B/D/E/F/  
J/S





**PowerBook 520/540 Series Keyboard, U.S.**

**661-0037**



**PowerBook Duo Keyboard, U.S., Rev. A, B, C, and D****661-1652**661-1652 B/D/E/F/  
J/C/SSome Rev. A keyboards  
do not have a barcode  
label.





## Input Devices

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Keypads





## Apple Adjustable Keypad

661-0762



**Macintosh Portable Lightweight Numeric Keypad****661-1611**

The Macintosh Portable lightweight numeric keypad comes in two versions. The original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version





with the same mounting plate as the defective keypad.





## Macintosh Portable Numeric Keypad

**661-0477**

661-0477

661-0477 PA/Z

The Macintosh Portable numeric keypad comes in two versions. The original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version





with the same mounting plate as the defective keypad.





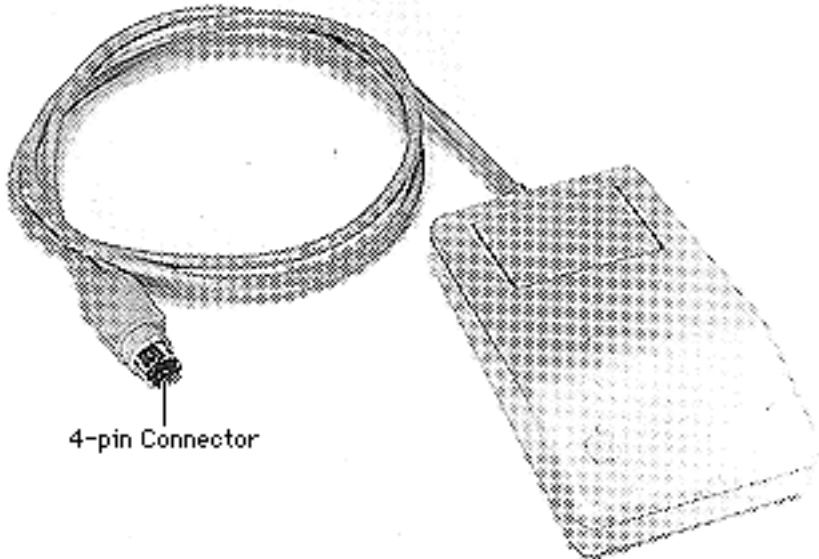
Input Devices

Mouse Devices





## Apple Desktop Bus Mouse

**661-0585**

This mouse has a 4-pin connector.

P/N 661-0338 does not. Because this device has a ferrite EMI filter, use it only on the Macintosh Portable.







## Apple Desktop Bus Mouse

661-0338



This mouse has a 4-pin connector.





## Apple Desktop Bus Mouse

**661-0479**

This mouse has a 4-pin connector and a low-power icon on the bottom label.





**Apple Desktop Bus Mouse II (Discontinued and Replaced by 922-2733)**

**661-0104**





## Apple Desktop Bus Mouse II

661-0763





**Apple Desktop Bus Mouse, Graphite  
(Discontinued and Replaced by 922-2328)**

**661-1151**

This mouse must now be ordered as 922-2328. Orders are no longer accepted for 661-1151. Do not return this mouse to Apple computer.





**Macintosh TV Desktop Bus Mouse II  
(Discontinued and Replaced by 922-2328)**

**661-1723**



This mouse must now be ordered as 922-2328. Orders are no longer accepted for 661-1723. Do not return this mouse to Apple computer.





# Input Devices

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Trackballs





## Macintosh Portable Trackball Assembly

661-0475

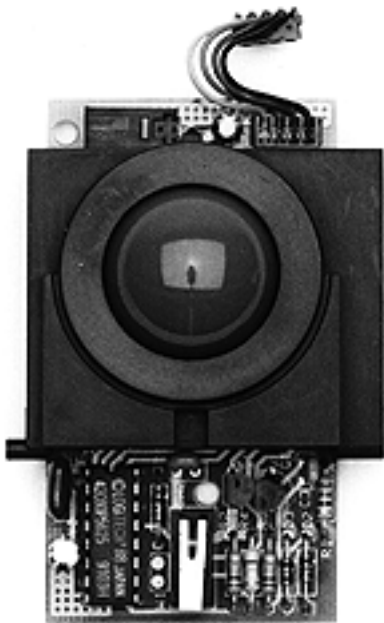






**PowerBook 100 Trackball Assembly**

**661-0676**





PowerBook 140/145/145B/160/165/165c/170/180/180c Trackball Assembly

661-0730



Top



Bottom





**PowerBook 140/145/160/170/180 Trackball Assembly**

**661-0710**



When you return P/N  
661-0710, Apple  
ships you P/N 661-  
0730.





## PowerBook Duo 210/230 Trackball Assembly

661-1654





## Input Devices

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Trackpads



**PowerBook 190/2300 Series Trackpad Board (Replaced by 922-2694)****661-1032**

This trackpad is to be used in the PowerBook 190/2300 Series products:

PB 190, 190cs, 2300c



**PowerBook 500 and 5300 Series Trackpad Board****661-0934**

This trackpad is to be used in the PowerBook 500 and 5300 Series products:

PB 520, 520c, 540, 540c, 5300, 5300c, 5300ce, and 5300cs.





## PowerBook 520/540 Series Trackpad

**661-0038**

Top



Bottom



When you return P/N 661-0038, Apple ships you P/N 661-9034.







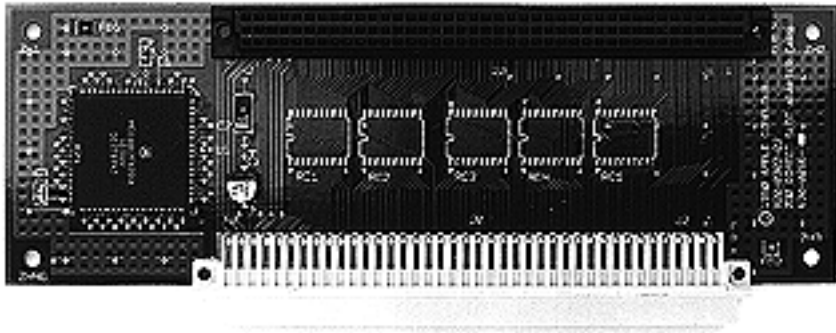
## Interface Cards/Data Comm

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**'030 Direct Slot Adapter Card, Mac IIxii****661-0644**

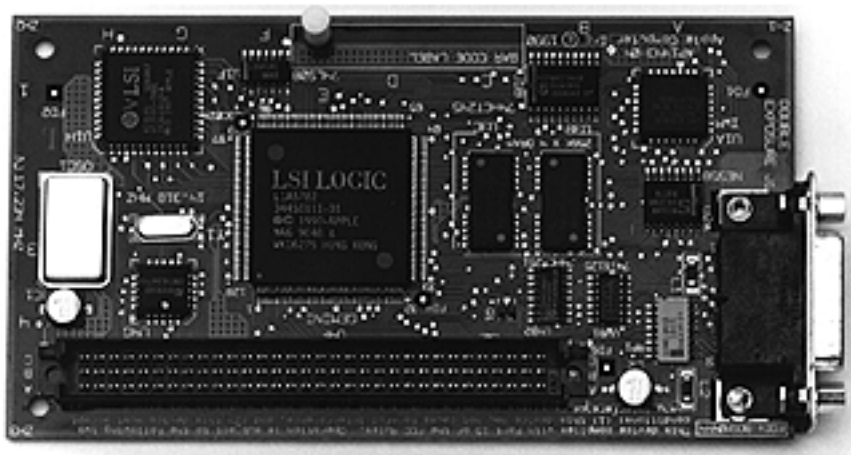
Retain the '030 card-mounting bracket for use with the replacement adapter.





Apple IIe Card, LC/LC II, Performa 400 Series

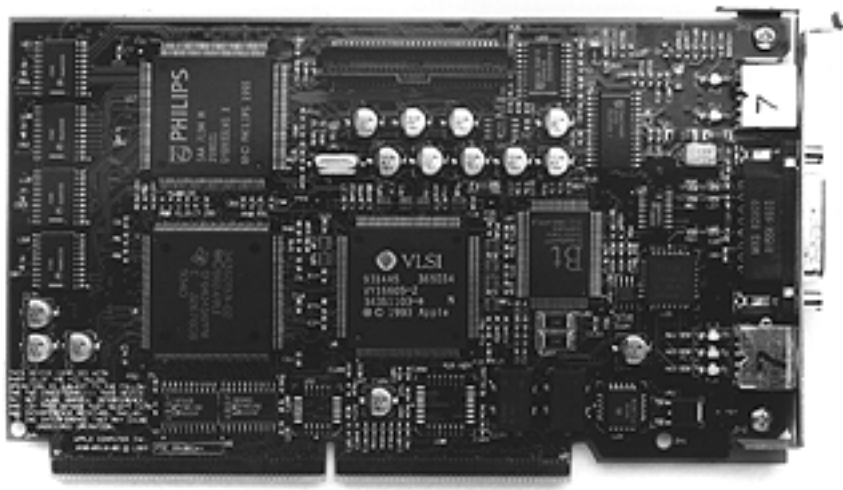
661-0595





AV Card, Power Macintosh

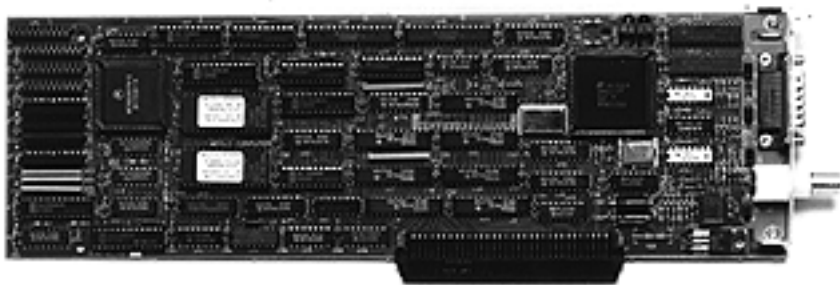
661-1023





**Coax/Twinax Card, Mac II**

**661-0458**



**Display Card, Mac II****661-0607**

When you return P/N 661-0607, Apple ships you P/N 661-0677.)

You can distinguish P/N 661-0607 from P/N 661-0677 by the ROM part number (661-0677 has ROM 341-0868). You can upgrade 661-0607 to 661-0677 with a ROM upgrade. See the CPU price pages under P/N 076-0548 (Display





Card 661-0607/661-0608 ROM upgrade). The ROM (P/N 341-0868) provides page-white color correction for the Macintosh 21-Inch Color Display. The Macintosh 16-Inch Color Display requires the ROM upgrade.



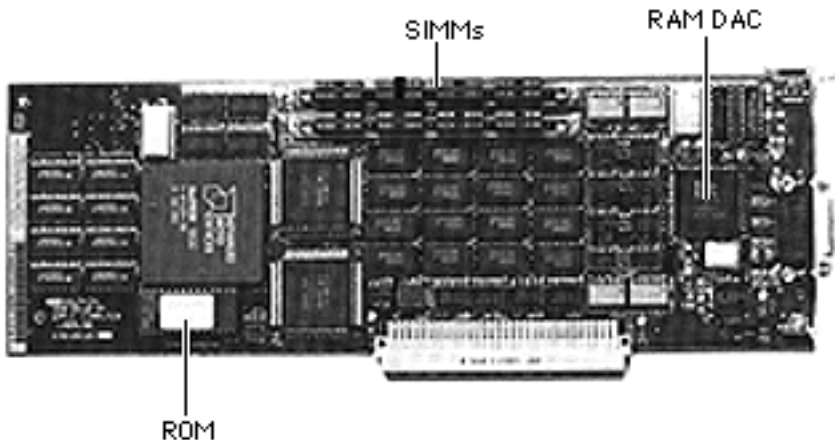
**Display Card 4•8, Mac II , Rev. B****661-0677**

You can upgrade P/N 661-0677 to P/N 661-0678 (Display Card 8•24) by installing two VRAM SIMMs (P/N 661-0609, VRAM SIMM, 256K, 100 ns).

Remove the VRAM SIMMs before you return the display card to Apple.





**Display Card 8•24, Mac II, GC****661-0606**

Remove the two 1 MB video expansion SIMMs before you return the display card to Apple.

When you return P/N 661-0606; Apple ships you P/N 661-1642.

P/N 661-0606 has ROM P/N 341-0812 and RAM DAC P/N 357S0010.

You can upgrade 661-0606 to support the





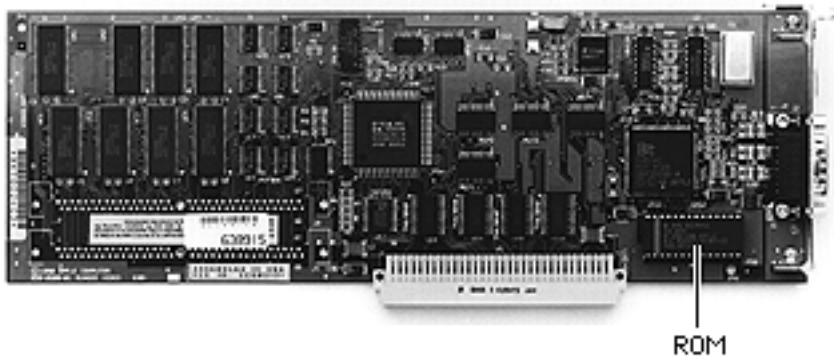
Macintosh 16" Color Display by installing a ROM upgrade.  
See the Mac II CPU price pages under P/N 076-1019  
(Display Card 661-0606 ROM upgrade).



**Display Card 8•24, Mac II, GC****661-0608**

When you return P/N 661-0608, Apple ships you P/N 661-0678.

You can distinguish P/N 661-0608 from P/N 661-0678 by the ROM part number (661-0678 has ROM P/N 341-0868). You can upgrade 661-0608 to 661-0678 with a ROM upgrade. See the CPU price pages under P/N 076-0548 (Display



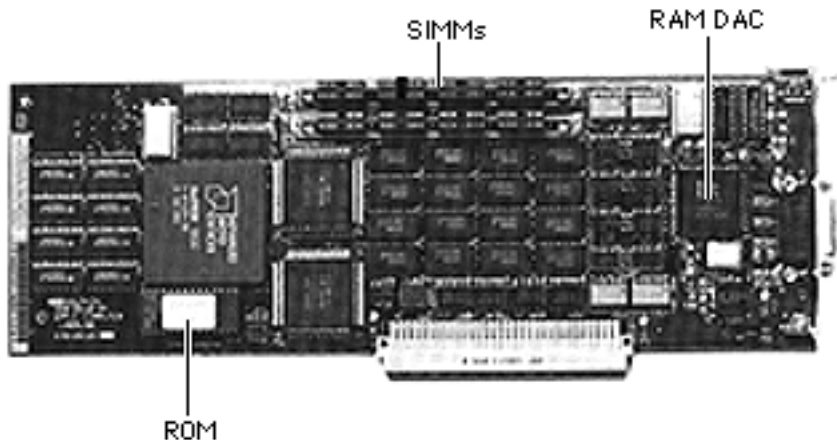


Card 661-0607/661-0608 ROM upgrade). The ROM (P/N 341-0868) provides page-white color correction for the Macintosh 21-Inch Color Display. The Macintosh 16-Inch Color Display requires the ROM upgrade.



**Display Card 8•24, Mac II, GC****661-1642**

Remove the two 1 MB video expansion SIMMs before you return the display card to Apple.

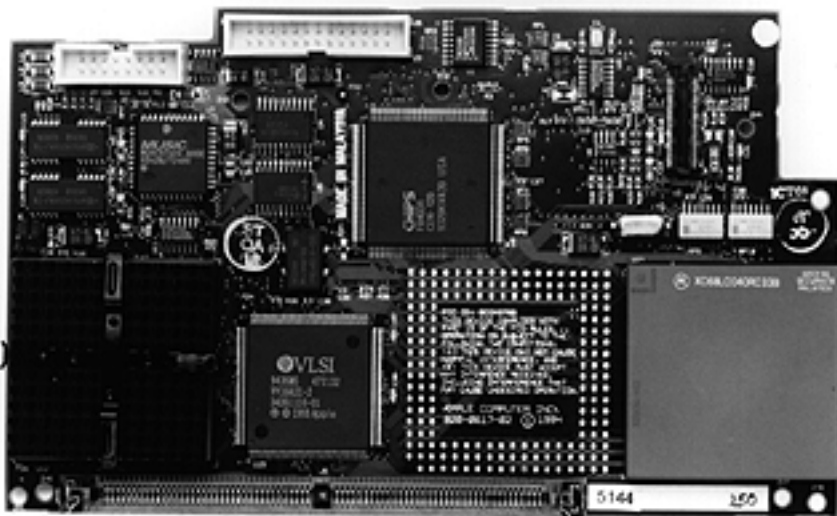




**Display Card 8•24, Mac II, GC, Rev. B**

**661-0678**



**DOS Compatibility Board, LC 630, Performa 640 Series****661-0915**

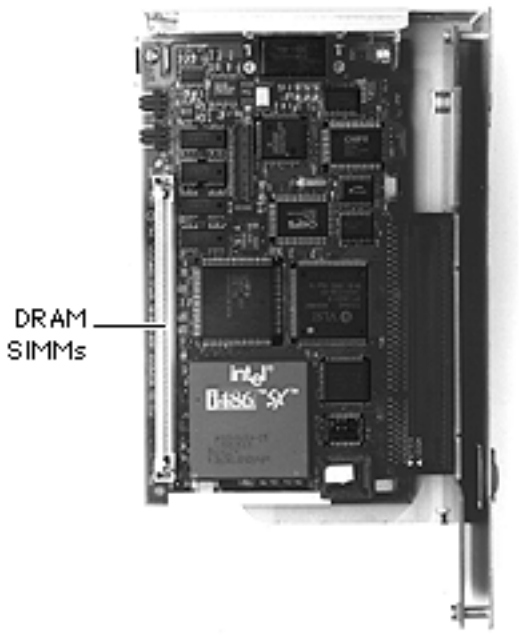
Return the DOS compatibility card WITH the 68LC040 installed. Remove any DRAM SIMMs before returning to Apple.





DOS Compatibility Card, '486 PC, Quadra 610

661-1017



Return the card without  
DRAM SIMMs.







**DOS Compatibility Card, PM 6100/Performa 6100 Series**

**661-0230**





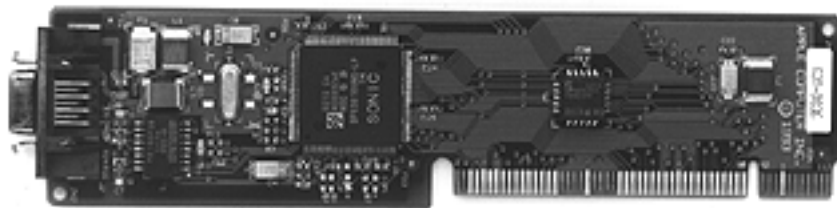
## Ethernet 10T/5 Workgroup Hub

661-0280



**Ethernet AAUI Card, Comm Slot, LC/Performa 500 Series, Quadra 630****661-0889**

This version of the card is also used in the PowerMac and Performa 5200, 5300, 6200, and 6300 series.

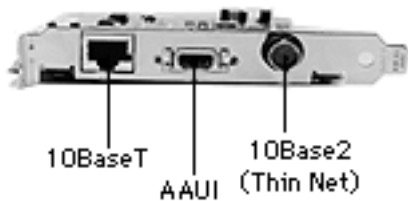


**Ethernet Card, 10Base2/10BaseT/AAUI, PCI****661-0986**

Top View



Side View

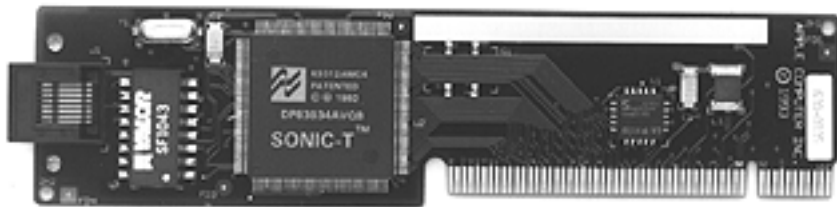




**Ethernet Card, 10 Base-T, Comm Slot,  
LC 520/550/575, Performa 500 Series**

**661-0888**

This version of the card is also used in the PowerMac and Performa 5200, 5300, 6200, and 6300 series.





**Ethernet Card, 100BaseTX, PCI**

**661-0985**

Top View

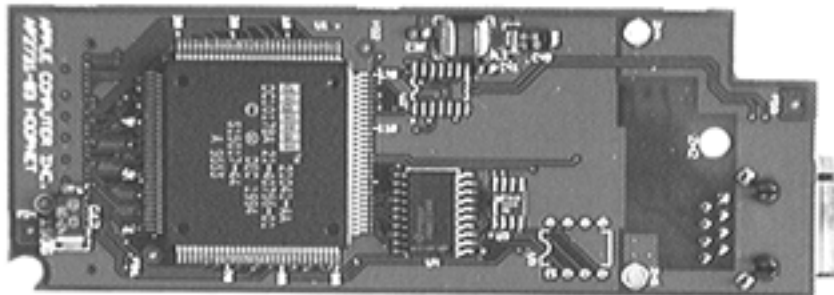


Side View



100BaseTX



**Ethernet Card, PowerBook 3400****661-1284**

To determine which ethernet card is installed (ethernet or ethernet/modem), look at the special label added to the I/O door of the PowerBook. This label specifies which card is installed.

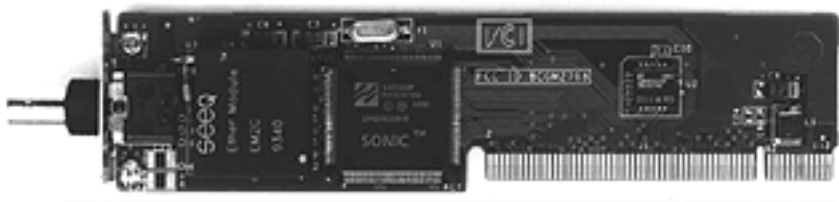




**Ethernet Card, Thin-Net, Comm Slot  
LC 520/550/575, Performa 500 Series**

**661-0036**

This version of the card is also used in the PowerMac and Performa 5200, 5300, 6200, and 6300 series.

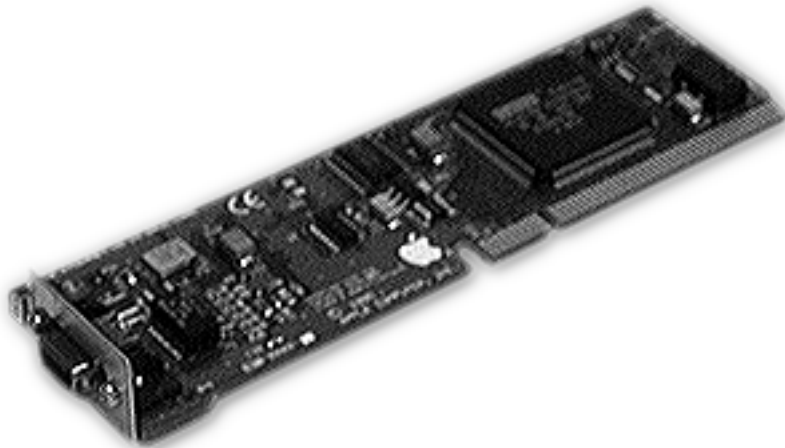






## Ethernet CS II Card, AAUI

661-1170



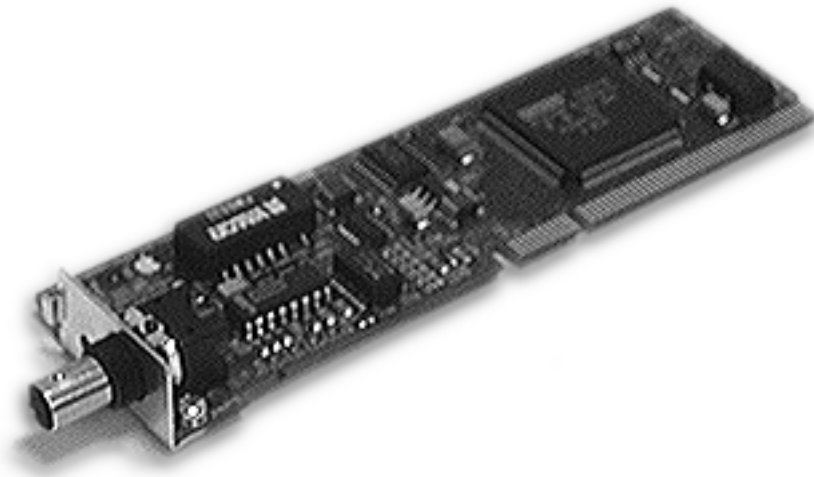
The Comm Slot II cards are not interchangeable with the previous Comm Slot cards.





## Ethernet CS II Card, Thin Coax

661-1172



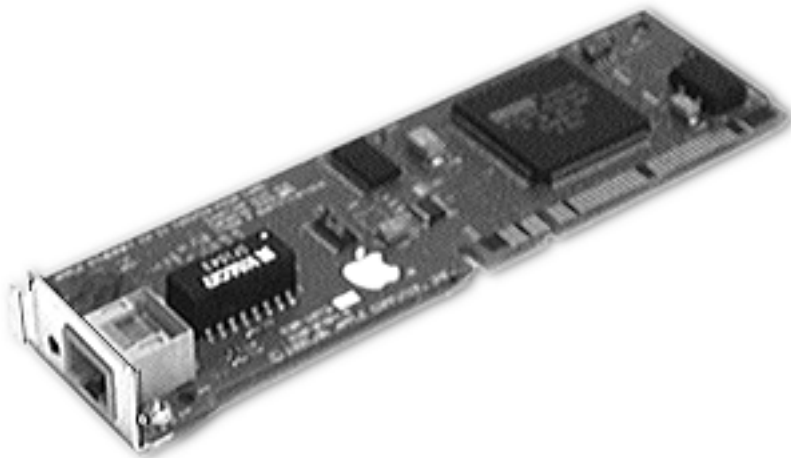
The Comm Slot II cards are not interchangeable with the previous Comm Slot cards.





## Ethernet CS II Card, Twisted Pair

661-1171



The Comm Slot II cards are not interchangeable with the previous Comm Slot cards.



**Ethernet LC Card, LC/LC II, Performa 400 Series****661-0621**

a) This version of the card uses 341-4070 ROM with the 670-2008 board assembly. This ROM was introduced in March 1992.



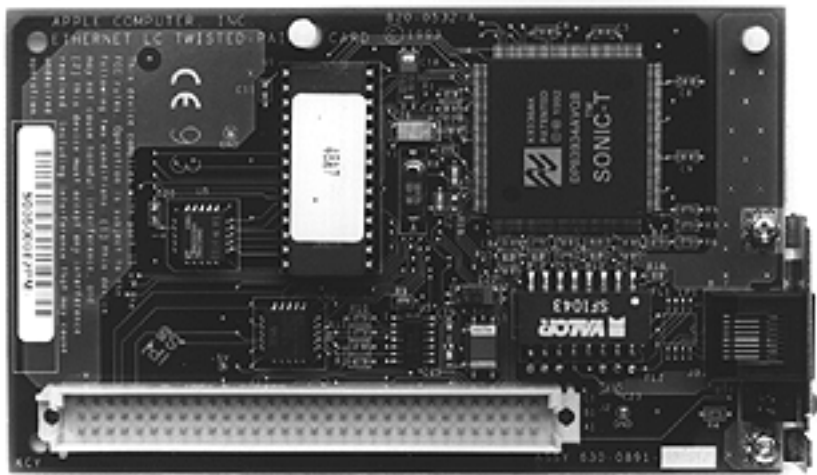
b) The older version of the card uses 341-0842 ROM with the 670-4443 board assembly.





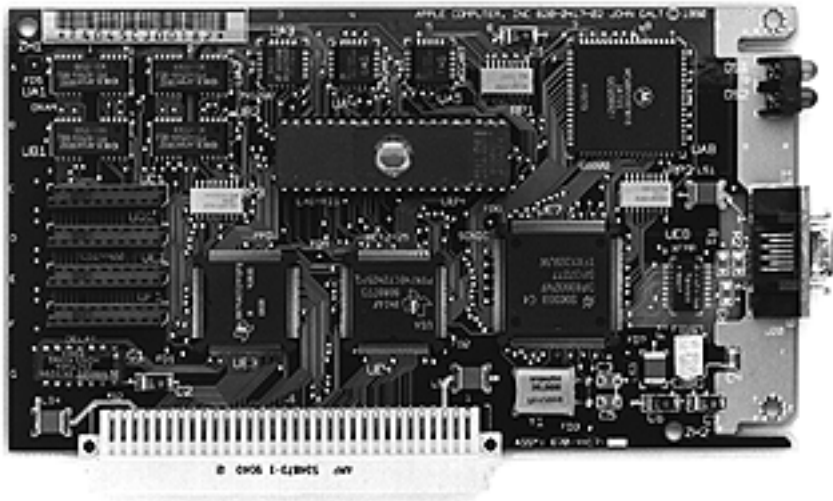
Ethernet LC Twisted Pair Card, LC/LC II Apple

661-0226



**Ethernet NB Card, Mac II****661-0619**

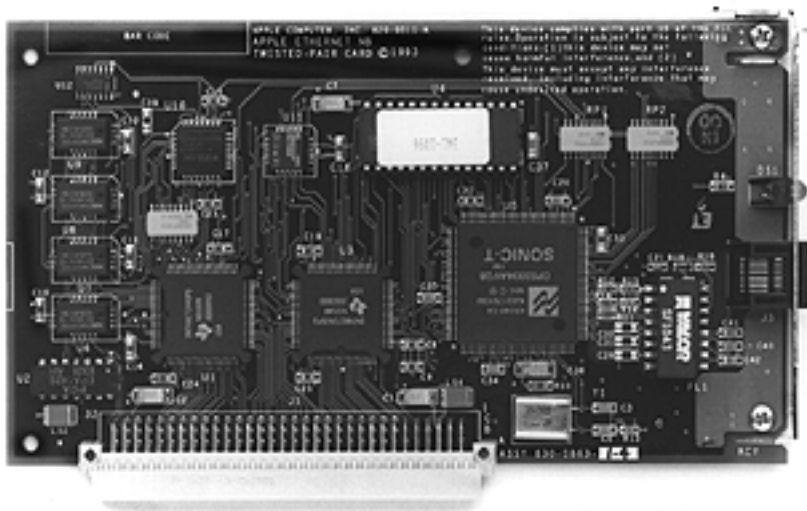
Remove the RAM chips  
before you return card  
to Apple.





## Ethernet NB Twisted Pair Card, Mac II

661-0869



**Ethernet/Modem Card, PowerBook 3400****661-1283**

To determine which ethernet card is installed (ethernet or ethernet/modem), look at the special label added to the I/O door of the PowerBook. This label specifies which card is installed.







Ethernet/Modem Card, PowerBook 3400, Japan

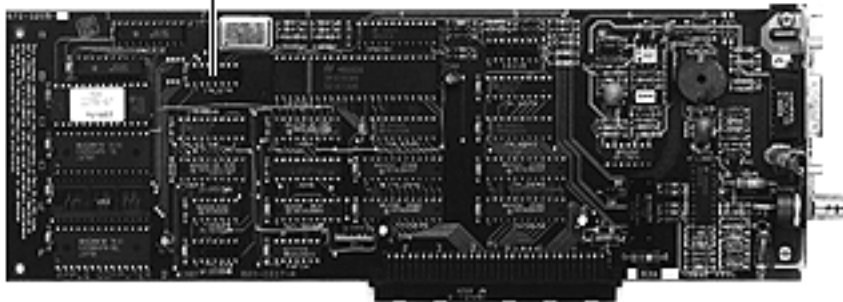
J661-1283



**EtherTalk Card, Mac II, Rev. A-K****661-0414**

An integrated circuit is in the location shown.

Integrated Circuit

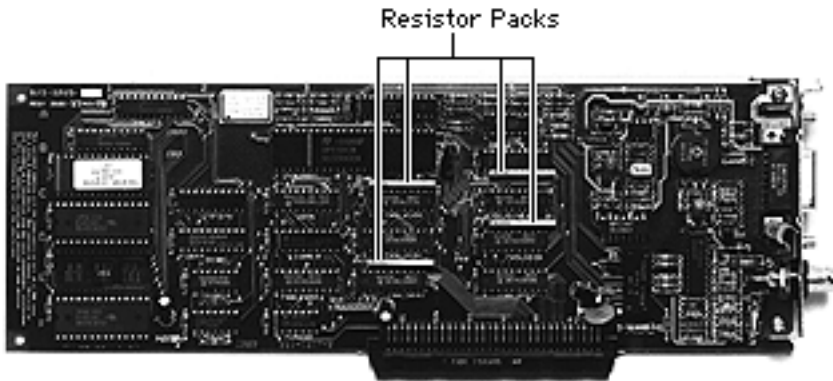




## EtherTalk NB Card, Mac II

661-0496

Resistor packs will be in these locations.





**GeoPort Telecom Adapter**

**661-1703**



**Graphics Card, Apple Accelerated****661-0926**

Remove the third party VRAM memory expansion card (if present) before returning this card.

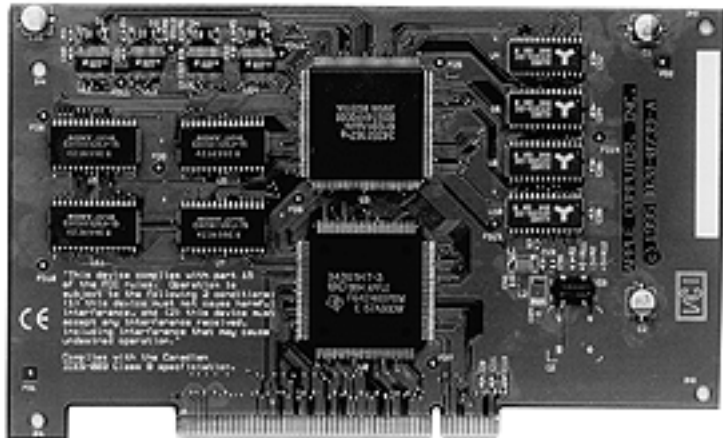
There is only one (DB-15) connector on this board.





## Graphics Card, QuickDraw 3D Accelerator

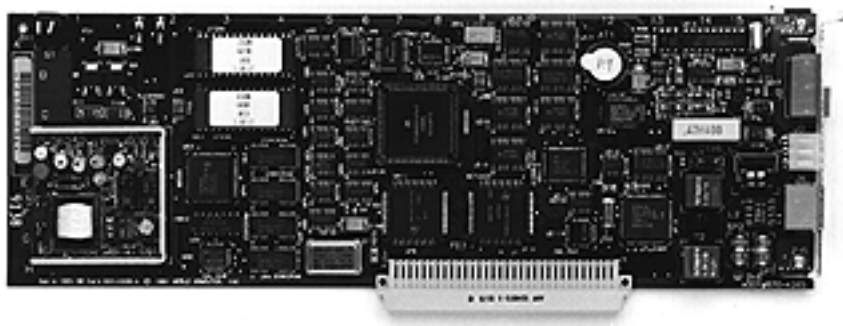
661-1113





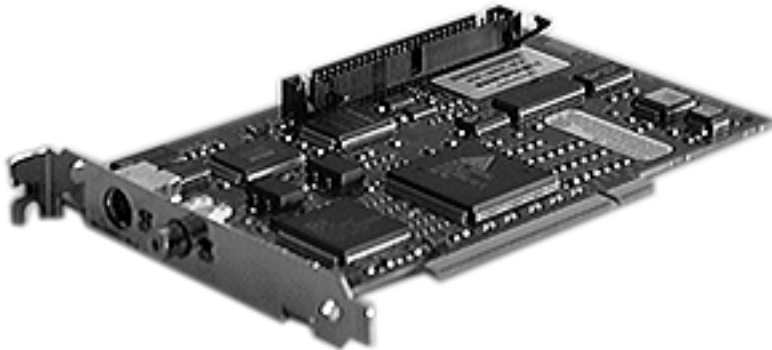
ISDN NB Card, Mac II

661-0620





## MJPEG Video Editing Card

**661-1165**

The Avid Cinema Video Editing is required in order to install and run the companion Avid Cinema video editing software.

It requires a PCI slot and a 60-pin DAV connector in the computer.

Although this carries the Avid name, it is an Apple only product. Avid is not providing service or support for this product.

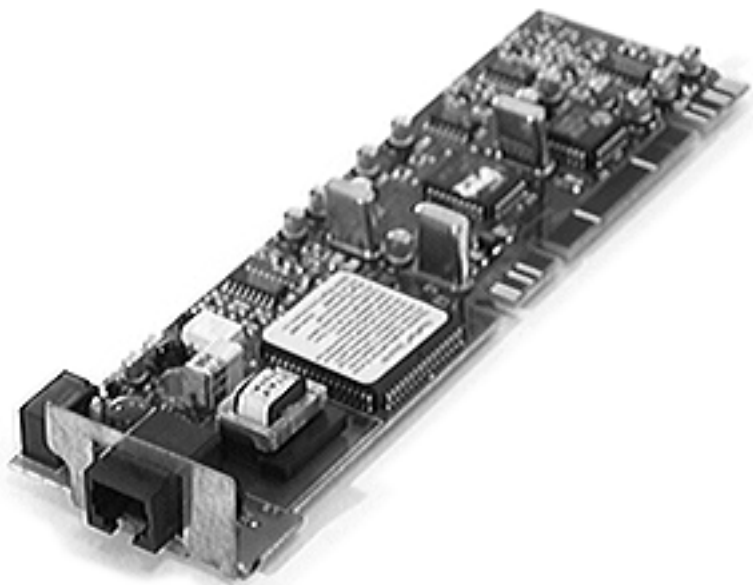






**Modem Card, 14.4, Internal**

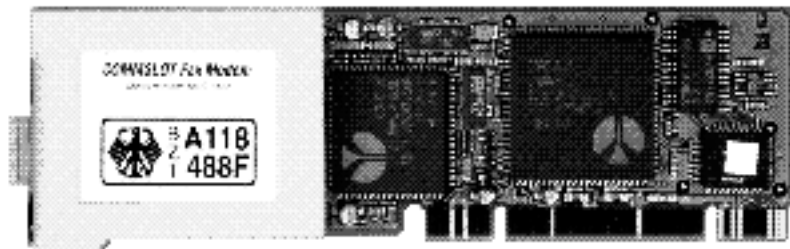
**661-1048**

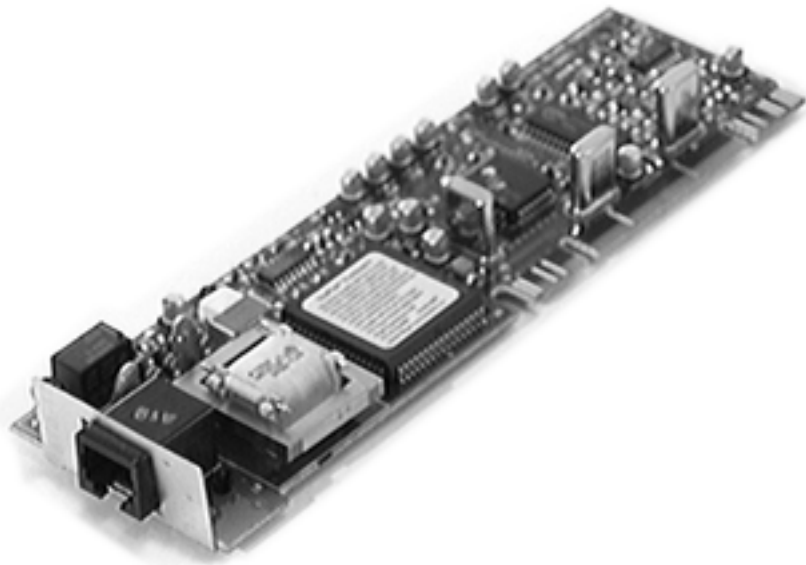




**Modem Card, 14.4, Internal , International**

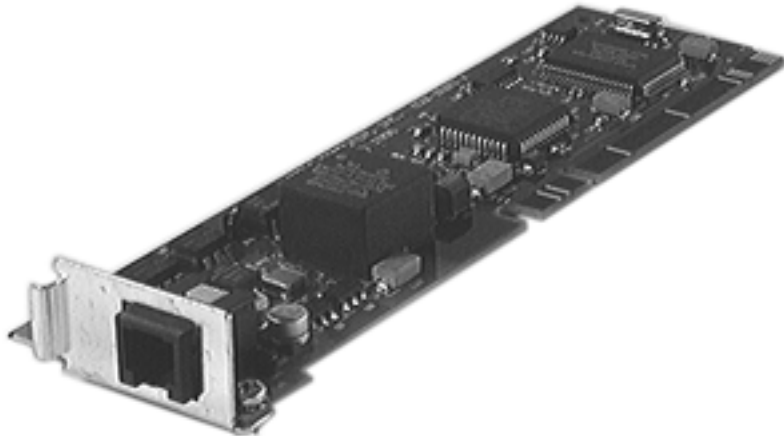
**661-0409**



**Modem Card, 28.8, Internal, Global Village (Replaced by 661-1301)****661-1078**

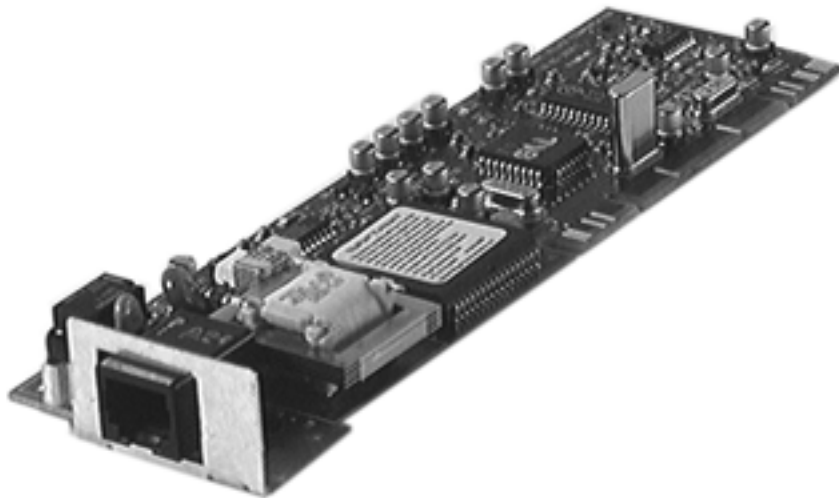
This modem card can be distinguished from part number 661-1301 by the lack of a locking tab on the shield that surrounds the I/O port.



**Modem Card, 28.8, Internal, Geoport for US-Canada-Japan-Asia****661-1287**

The shield on this modem card has a cut out with a locking tab that engages the I/O shield on the respective enclosures. This modem card also has the words Apple Computer Inc. stenciled on the top side of the card.



**Modem Card, 28.8, Internal, Global Village****661-1301**

The shield on this modem card has a cut out with a locking tab that engages the I/O shield on the respective enclosures. This modem card also has the words Global Village printed on the top side of the card.





**Modem Card, Express, 14.4 Baud, Comm Slot,  
Macintosh LC 520/550/575, Performa 500 Series**

**661-0887**





**Modem Card, Express, 14.4 Baud, U.S.  
PowerBook 160/165/165c/180/180c**

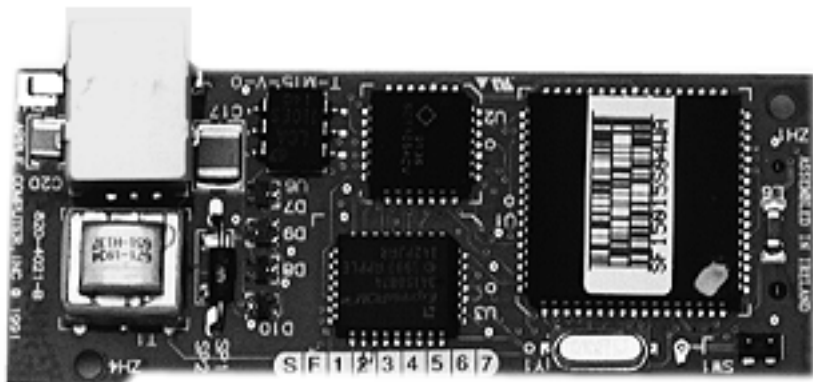
**661-0786**





**Modem Card, Internal Fax/Data, 2400 Baud, Domestic  
PowerBook 100/140/145/160/165c/170/180c**

**661-1621**

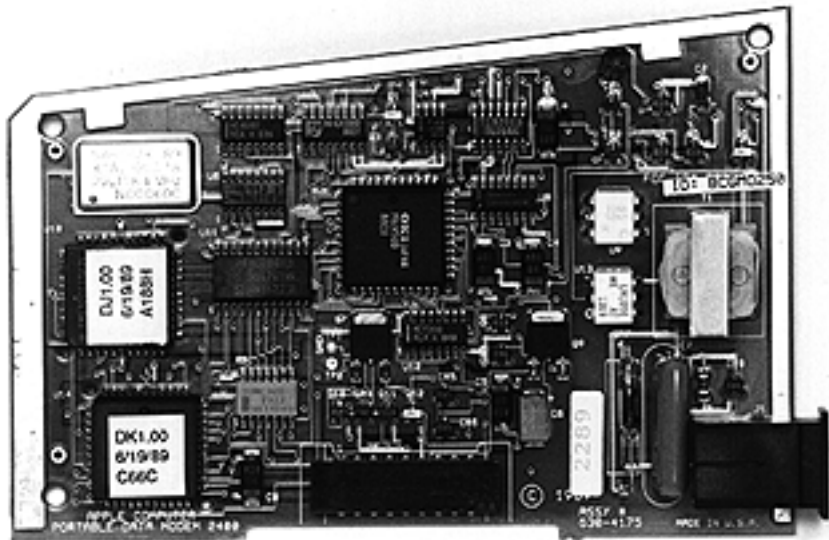


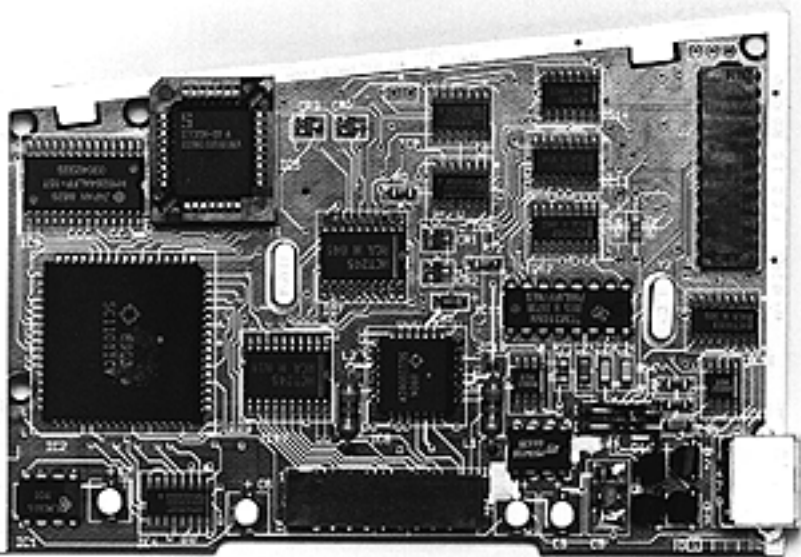




Modem Card, Macintosh Portable, Internal, Domestic

661-0468



**Modem Card, Macintosh Portable, XP 2400, International****661-0465**

When you return P/N 661-0465, Apple ships you P/N 661-0623.

This item is not available in the United States.

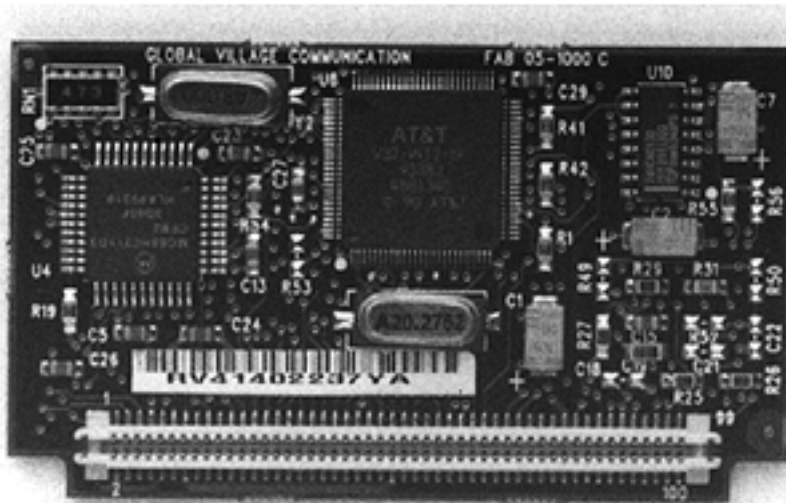


**Modem, PowerBook 520/540 Series, PCB, International****661-0106**

**Photograph Not Available**

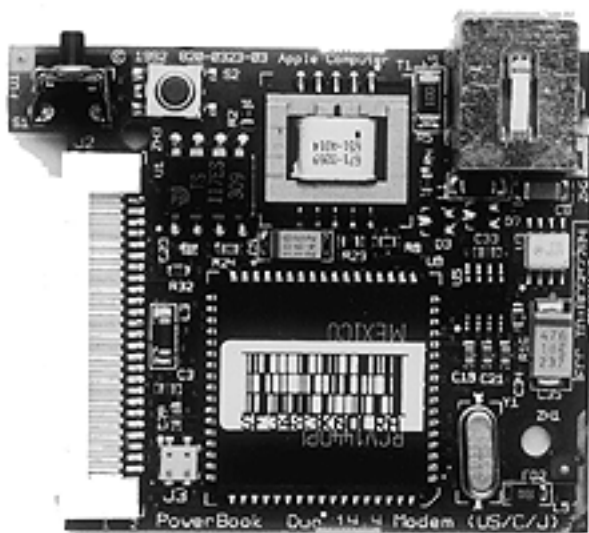
The U.S. and International versions of the PowerBook 520/540 Series modem are similar. The PowerBook 520/540 Series U.S. modem has the label “Global Village Communication” printed at the top edge of the modem; the International version does not.



**Modem, PowerBook 520/540 Series, U.S.****661-0107**

The U.S. and International versions of the PowerBook 520/540 Series modem are similar. You can identify the PowerBook 520/540 Series U.S. modem by the label “Global Village Communication” printed at the top edge of the modem.

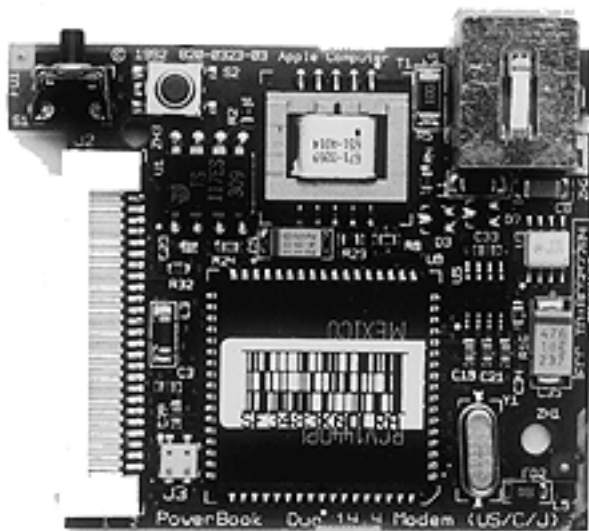


**Modem, PowerBook Duo, 14.4 Baud, International****661-1662**

The PowerBook Duo international modem has a Mini DIN-8 (8-pin) connector.

In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.



**Modem, PowerBook Duo, Express, 14.4 Baud, U.S.****661-1665**

The PowerBook Duo domestic modem has an RJ-11 connector.

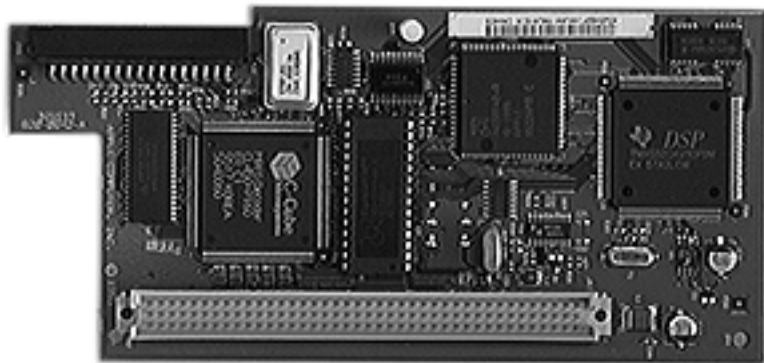
In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.





MPEG Card

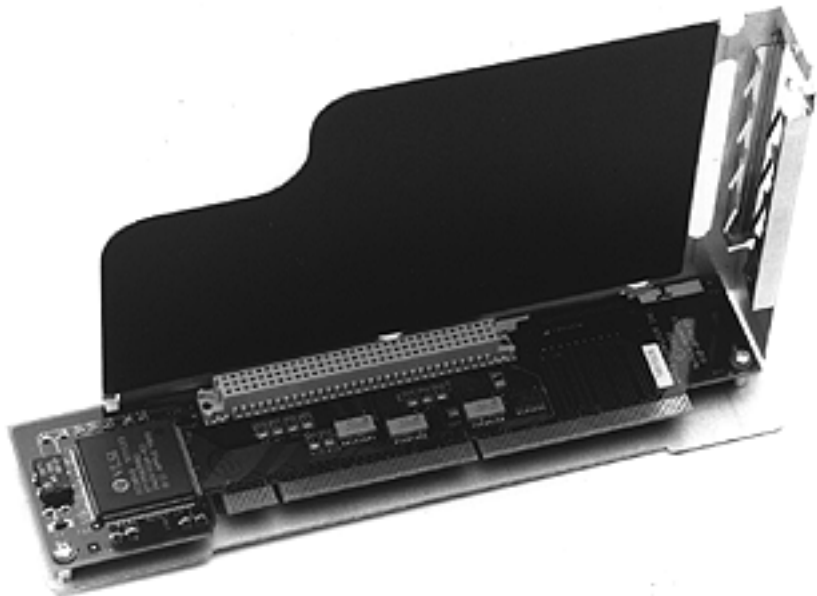
661-0995



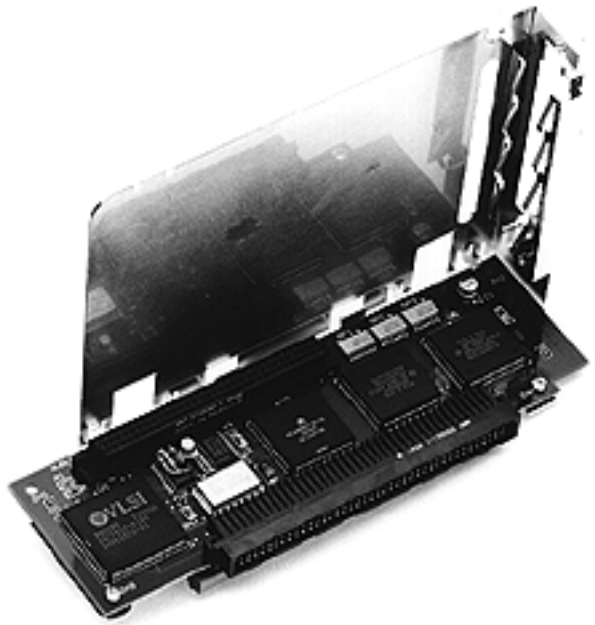


**Nubus Adapter, Centris 660AV**

**661-1719**





**Nubus Adapter, Mac IIsi****661-0645**

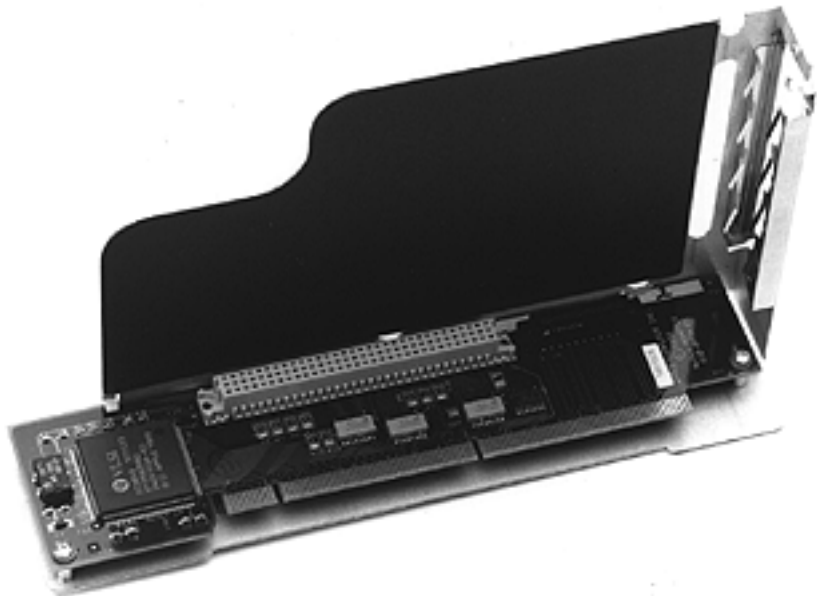
Retain the thumbscrews that mount the adapter for use with the replacement adapter.





**Nubus Adapter, Power Macintosh**

**661-0049**

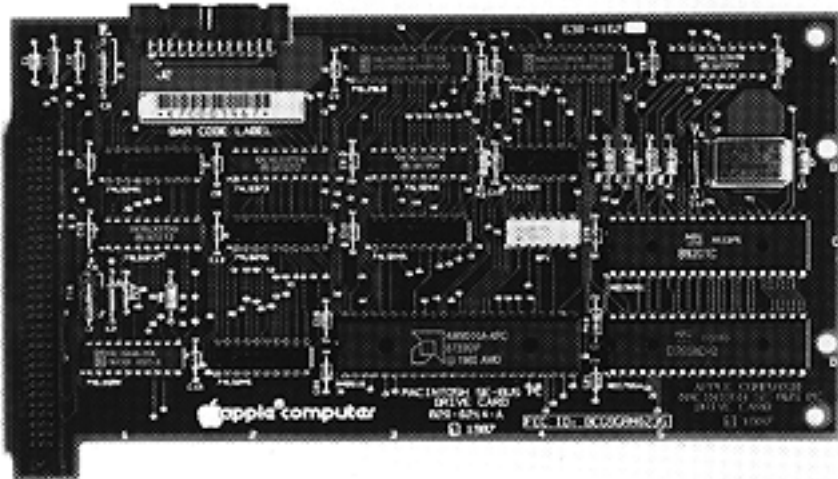




# NuBus Card, 24-Bit, Mac II

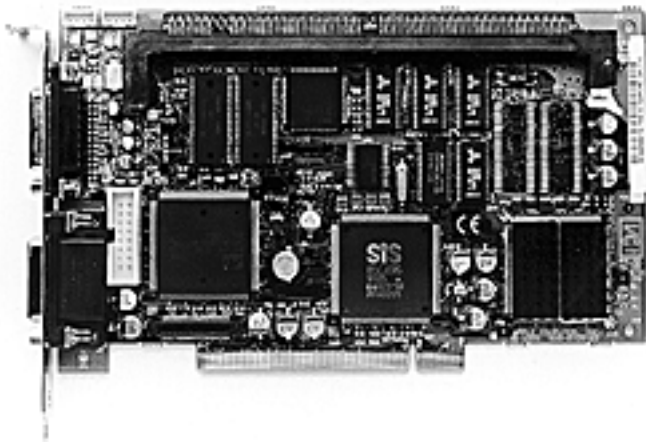
661-0406

Resistor packs are in these locations.



**PC Compatibility Card, 7", PCI****661-1123**

Return the board  
without the DRAM  
DIMM.

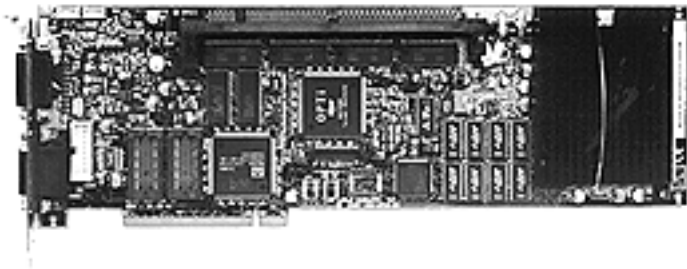




**PC Compatibility Card, 12"**

**661-1124**

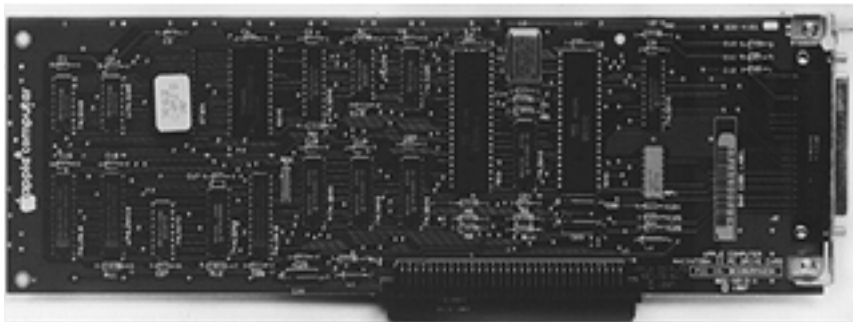
Return the board  
without DRAM and  
VRAM.





**PC Drive Card, Mac II**

**661-0407**

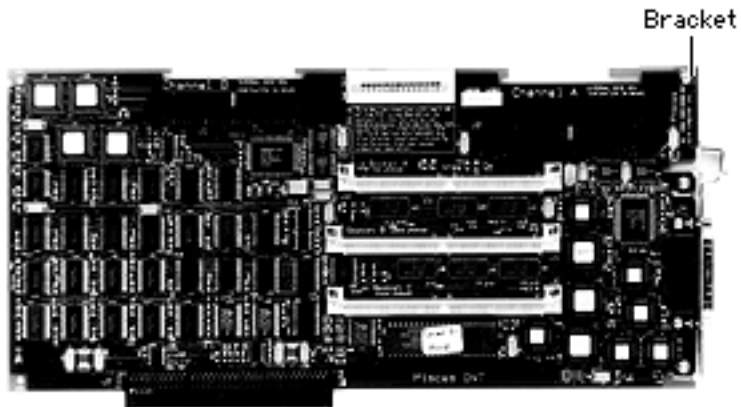




**PDS Card, Apple Workgroup Server 95**

**661-0794**

You can return the Apple Workgroup Server 95 PDS card with or without the bracket.

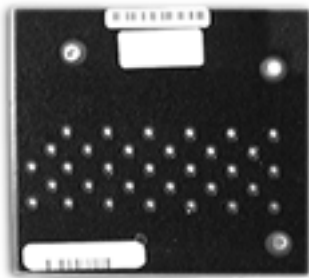




# RAID Card Battery Backup

661-1183

Top



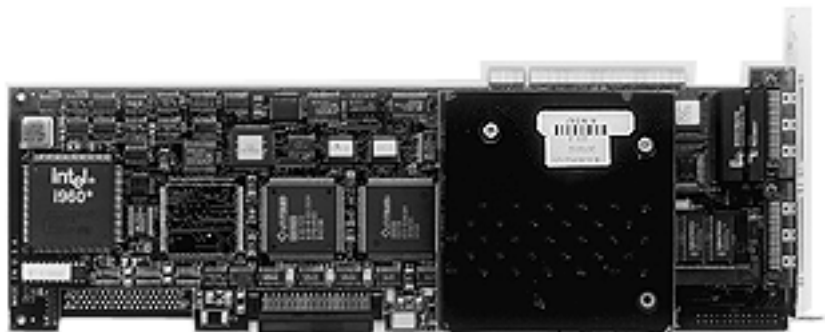
Bottom







## RAID Card, with Battery, For Network Server

**661-1158**

Battery Back-up Unit

This card is compatible with the Network Server 500/700 only. Install it in the first slot for internal RAID support and in any slot for external RAID support. You can install up to four RAID cards in one Network Server.

To identify the card, look for the Apple serial number label located on the noncomponent side of the card at the end





opposite the external connectors. The label is an eleven-digit serial number, YLxxxxxx7P5.

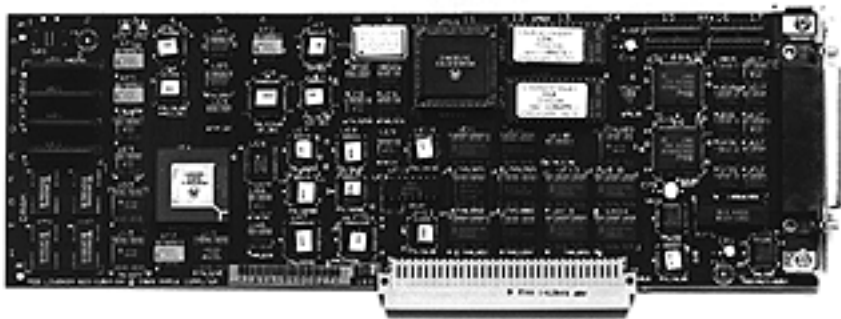
The RAID card requires a special backup battery and SIMM. Service stock for the card ships with the backup battery but does not include the SIMM. When replacing the RAID card, transfer the SIMM from the original card to the replacement card and return the original card with its backup battery attached.

The backup battery and RAID card SIMM are available as separate modules. Order P/N 661-1183 for the battery and P/N 661-1184 for the SIMM.



**Serial NB Card, Mac II****661-0517**

Remove the RAM chips  
before you return the  
Apple Serial NB Card to  
Apple.





**Sound Card, Apple Media Vision Jazz 16**

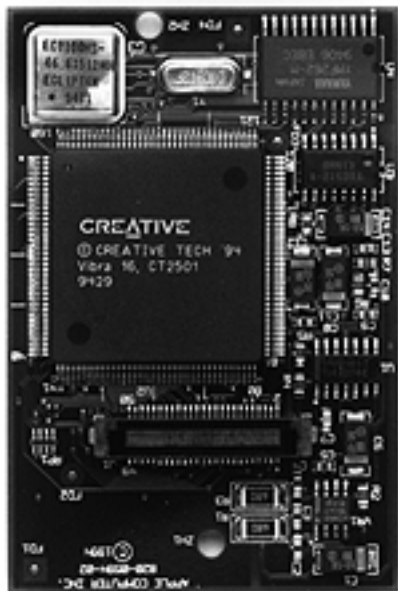
**661-0100**





Sound Card, LC 630, Performa 640 Series

661-0253





Sound/SCSI Card, CD Multimedia Kit Spectrum 16

661-1741



**Token Ring 4/16 NB Card, Mac II****661-1617**

Remove the RAM chips  
before you return the  
card to Apple.





**Token Ring NB Card, Mac II**

**661-0460**

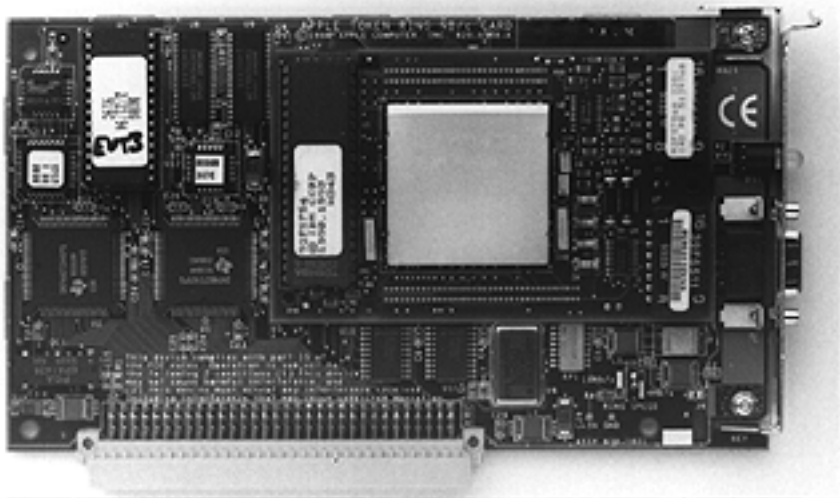






Token Ring NB/c Card, Mac II, 7-inch

661-0136





**TV Tuner Card, LC 630, Quadra 630, Performa 630 Series**

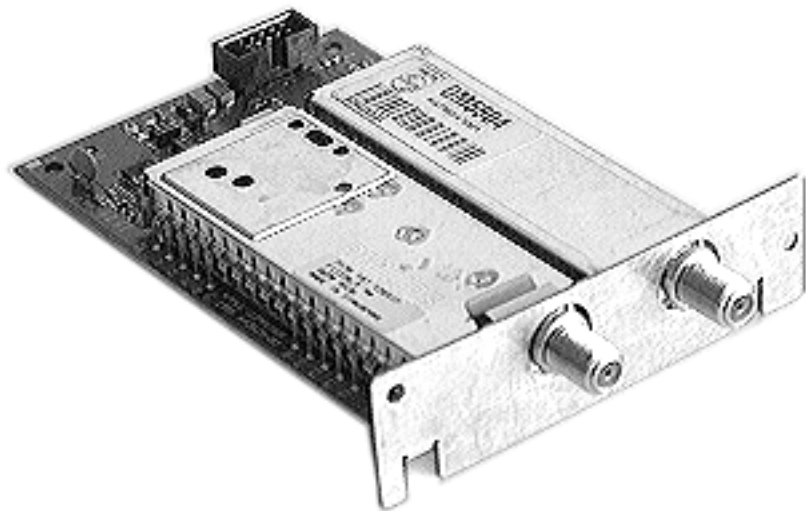
**661-0160**





TV/FM Radio System Card, Apple

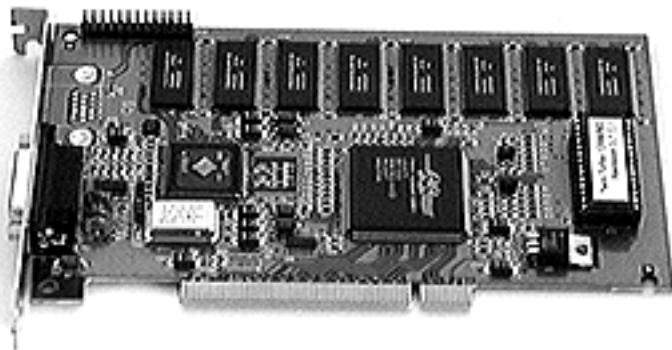
661-1147

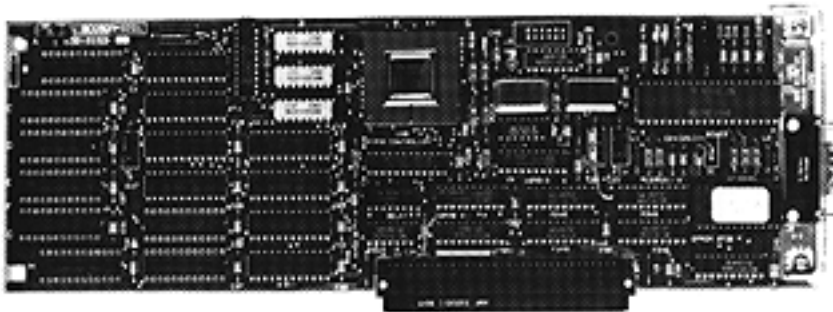




Video Card, IMS

661-1409



**Video Card, Mac II****661-0376**

This is the 4-bit soldered version of this video card. Remove the eight video expansion RAM chips before you return the video card to Apple.



**Video Card, Mac II, 8-Bit Soldered Version****661-0492**

The marketing number on the bracket label can be M6004 or M6004/A.

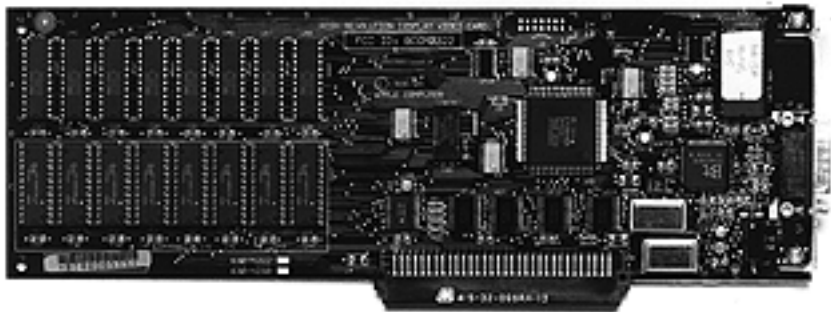
Apple P/N on ROMs must be 34x-0560 through 34x-0567 (where x=1 or 2). If ROMs are 34x-0711 through 34x-0718, see module P/N 661-1605.

You must return the eight 256K SIMMs with this board.



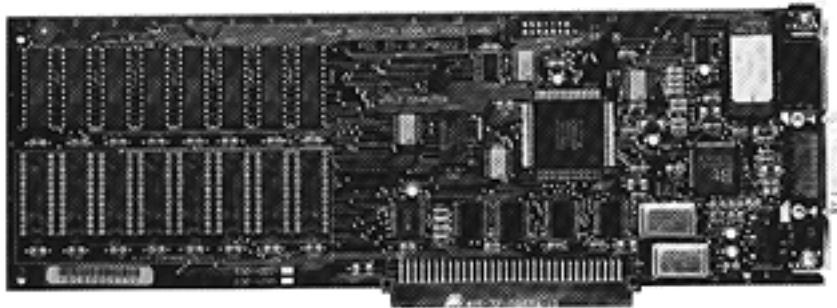
**Video Card, Mac II, Extended High-Resolution Display****661-0533**

This card has eight video expansion RAM chips soldered to the board. Do not attempt to remove them before returning the video card to Apple.



**Video Card, Mac II, Hi-Res Display, 4-Bit Soldered Version****661-0493**

Remove the eight video expansion RAM chips before returning the video card to Apple.

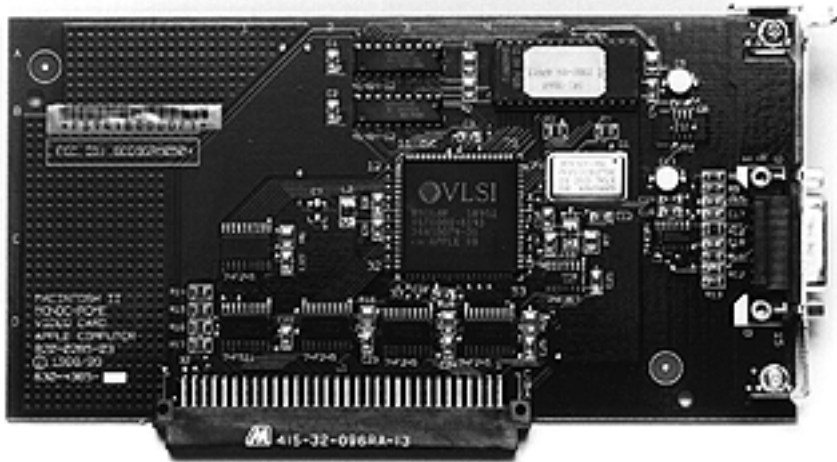


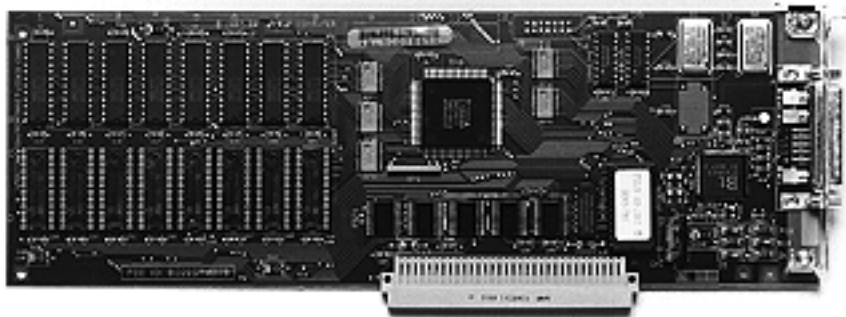




Video Card, Mac II, Monochrome, 1-Bit

661-0518



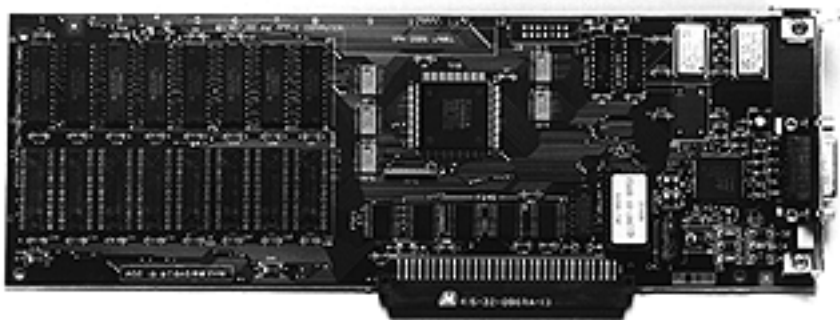
**Video Card, Mac II, Portrait Display****661-0604**

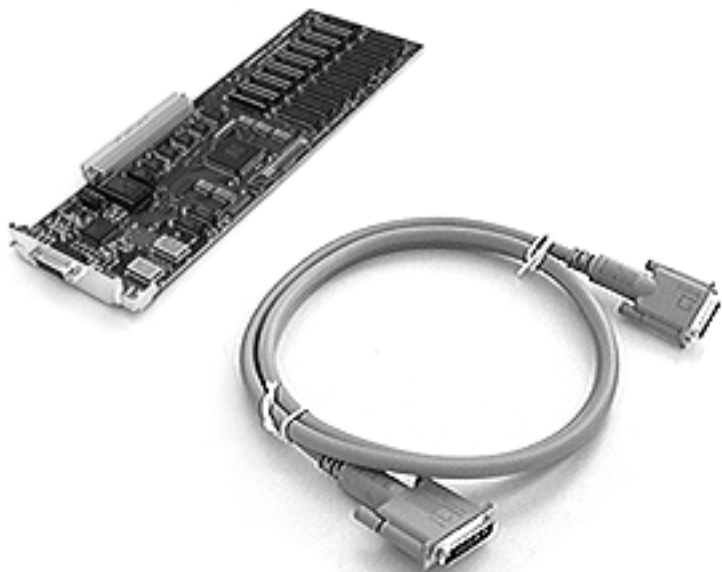
Remove the eight video expansion RAM chips before returning the video card to Apple. P/N 661-0604 is a DB-25 (13-pin mixed connector) card.



**Video Card, Mac II, Portrait Display, 57.4 MHz****661-0586**

This part does not include a cable.



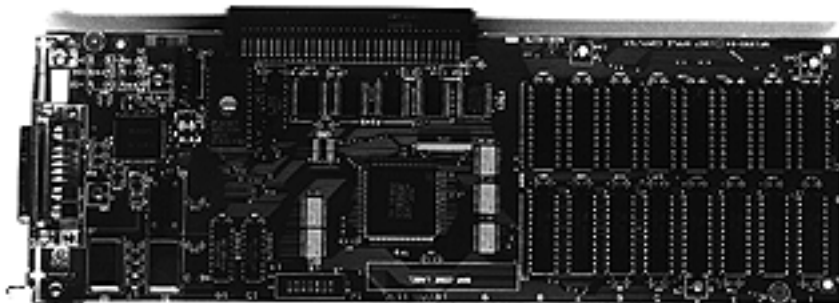
**Video Card, Mac II, Portrait Display, 57.4 MHz****661-0587**

This video card includes a DA-15-to-DB-25 cable (P/N 590-0615).



**Video Card, Mac II, Two-Page Monochrome, 100 MHz****661-0456**

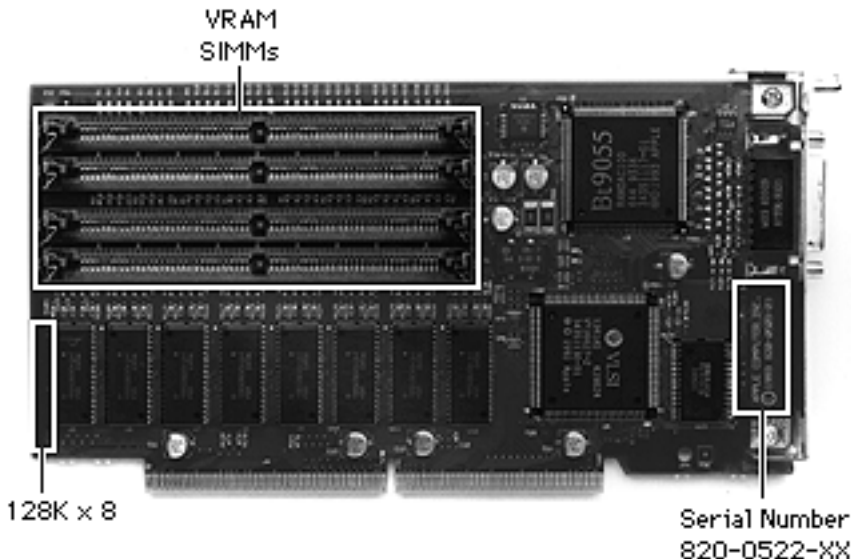
Remove the eight VRAM  
SIMMs before you  
return the video card to  
Apple.





## Video Card, PM 7100, 2 MB

661-1748



The Power Macintosh 2 MB video card is similar to the 4 MB video card, P/N 661-1027. Identify the 2 MB video card by the module serial 820-0522-XX. The lettering on the 2 MB video card is silkscreened in yellow, and the information 128K x 8 is printed on the lower left corner of the card.

Return the Power





Macintosh video card without VRAM SIMMs.

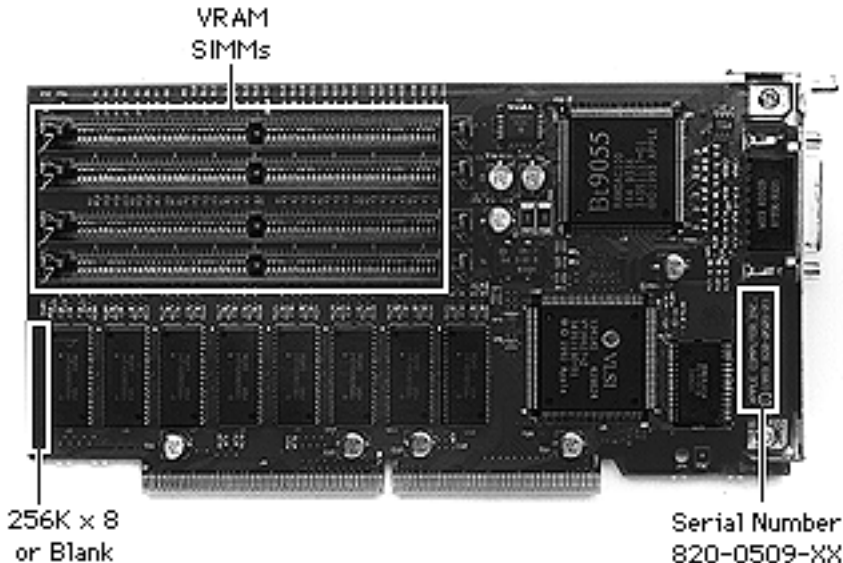




## Video Card, PM 8100, 4 MB

661-1027

The Power Macintosh 4 MB video card is similar to the 2 MB video card, P/N 661-1748. Identify the 4 MB video card by the module serial number 820-0509-XX. The lettering on the 4 MB video card is silkscreened in white, and the information 256K x 8 may or may not be printed on the lower left corner of the card.







Return the Power Macintosh video card without VRAM SIMMs.

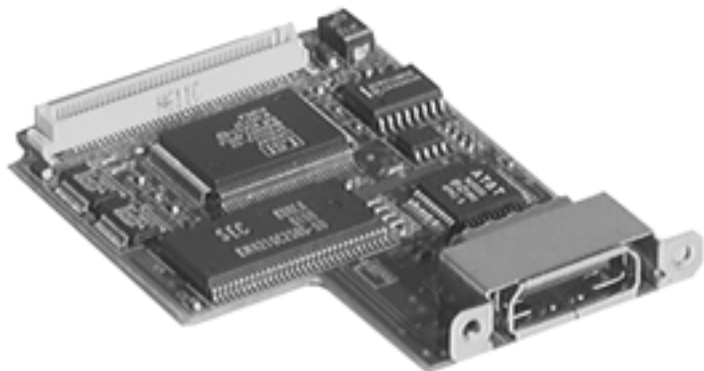
**IMPORTANT:** Do not attempt to remove the microprocessor's heatsink. This will damage the card.





**Video Card, PowerBook 1400**

**661-1192**





**Video-In Card**

**661-1181**





**Video-In Card, LC 630, Quadra 630/635, Performa 630/635 Series**

**661-0159**

When you return P/N  
661-0159; Apple  
ships you P/N 661-  
1073.



**Video-In Card, Rev. B****661-1073**

Rev. A of this card is identified by either the module serial number (the last three characters will be 5J7, 6RY, or 6RZ) or the assembly part number (630-1451, 630-1735, or 630-1736).





Memory

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Cache/SRAM





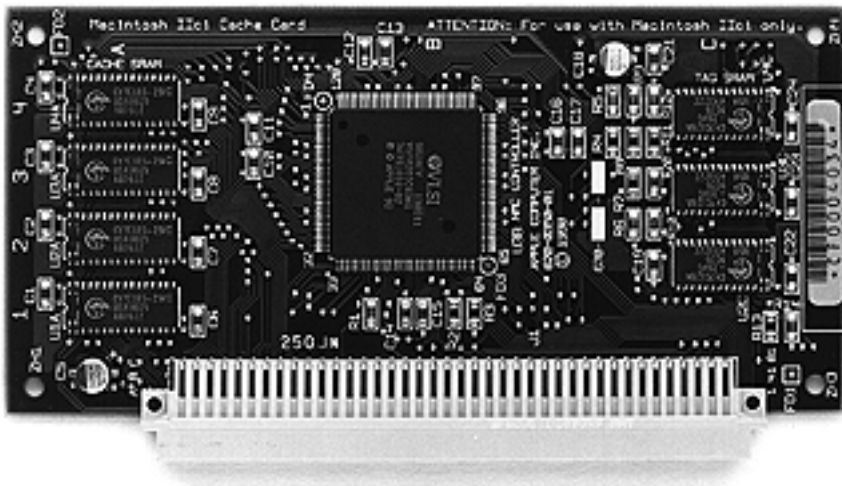
**Cache Card, 256K, L2**

**661-1174**





## Cache Card, Macintosh IIci

**661-1602**

Macintosh IIci cache cards containing serial numbers with a “CF” prefix (that is, CFXXXXXXX) can cause frequent system crashes. Return these cards to Apple.

See P/N 661-1619 if the card has serial number with an “AF” prefix.

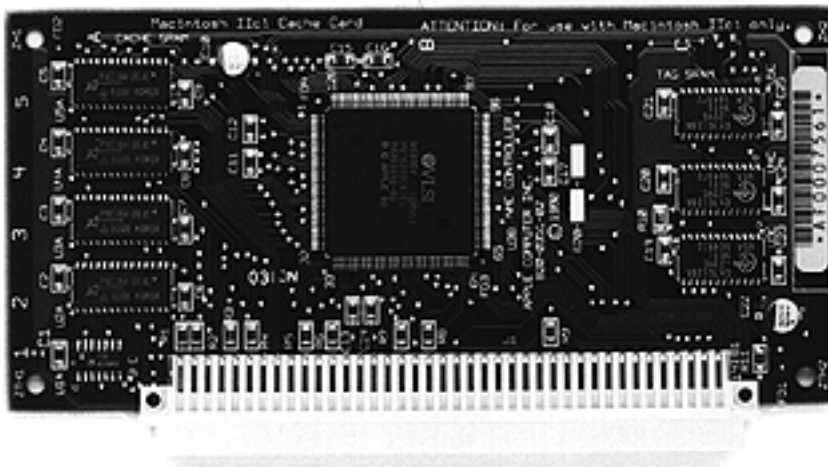






## Cache Card, Macintosh IIci, Revised

661-1619



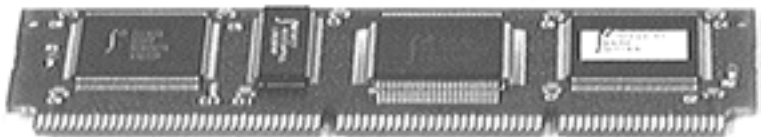
This is the revised version of the Macintosh IIci Cache Card. See P/N 661-1602 if the card has serial number with an “CF” prefix.





Cache DIMM, 256K, L2, 160-Pin

661 -1239

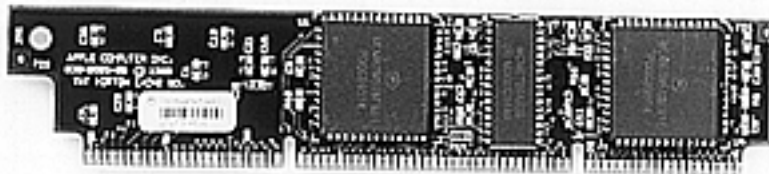


**Cache DIMM, 256K, 11ns, 160-Pin****661-1035**

Top



Bottom



Cache SIMMs used in earlier Power Macintosh systems are not interchangeable with this cache DIMM.

Use this cache DIMM for the PM 7200 Series, the PM 7600/120 and 7600/132, and the PM 8500 Series.



**Cache DIMM, 256K, 11ns, 160-Pin****661-1310**

Cache SIMMs used in earlier Power Macintosh systems are not interchangeable with this cache DIMM.

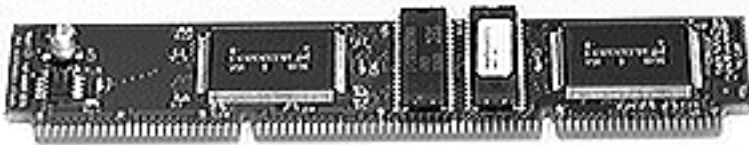
This DIMM is the only cache DIMM that can be used in the PM 7500/100.





Cache DIMM, 256K, 11ns, 160-Pin

661-1345



Cache SIMMs used in earlier Power Macintosh systems are not interchangeable with this cache DIMM.

This cache DIMM is for use with the PM 7300, 8600, and 9600 Series and the PM 7600/200.





**Cache DIMM, 256K, 160-pin, L2**

**661-1239**



**Cache DIMM, 512K, 11ns, 160-Pin****661-0927**

Top



Bottom



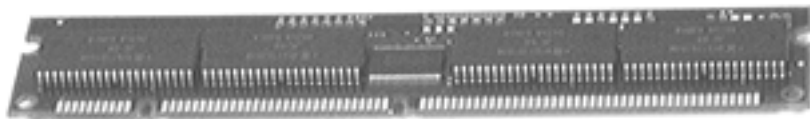
Cache SIMMs used in earlier Power Macintosh computers are not interchangeable with this cache DIMM.



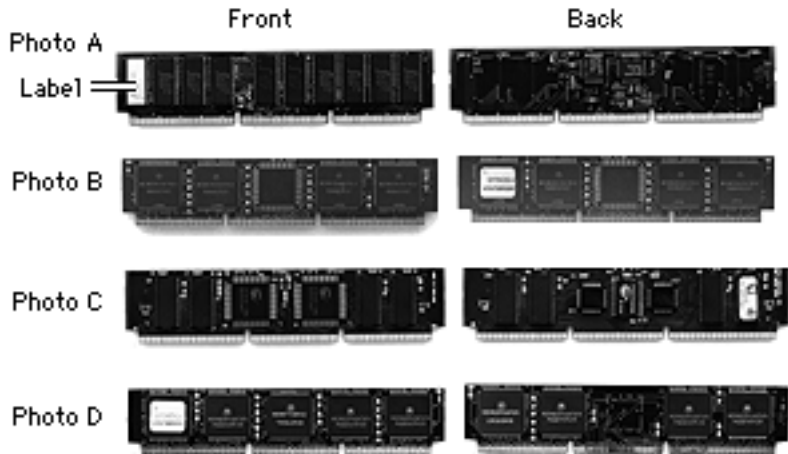


**Cache DIMM, 1 MB, 11ns, 160-Pin**

**661-1127**





**Cache SIMM, 256K, Power Macintosh****661-1024**

There are six different versions of the 256K cache SIMM.

Review the list below for product compatibility.

Photo A  
(three versions):  
Refer to the label located on the first component of the SIMM.

Version Label:  
“7MP6380, S17M/  
1191, Date Code”





This version is compatible only with the Power Macintosh 6100/60 or Workgroup Server 6150 and the Power Macintosh 6100/66 or Workgroup Server 6150/66.

#### Version 2

Label: “7MP6480, S15M/1190, Date Code” This version is compatible only with the Power Macintosh 7100/80, the Power Macintosh 8100/80 and the Workgroup Server 8150.

#### Version 3

Label: “ 7MP6080, S15M/0285, Date Code”  
This version is compatible with all Power Macintosh models.

#### Photo B:

This version of the 256K cache SIMM is compatible with all Power Macintosh models.





#### Photo C:

This version of the 256K cache SIMM is only compatible with the Power Macintosh 6100/60 or Workgroup Server 6150 and the Power Macintosh 6100/66 or Workgroup Server 6150/66.

#### Photo D:

This version of the 256K cache SIMM is compatible with all Power Macintosh models.

When you order P/N 661-1024, Apple ships you either the Photo B or the Photo D version. The Photo A and Photo C versions ship only in Finished Goods.

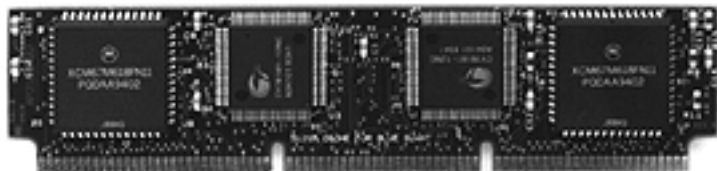




Cache SIMM, 512K, Power Macintosh

661-0131

Top



Bottom



**SRAM Cache SIMM, 128K, 17 ns****661-0791**

This board has RAM ICs on one side only.

This SIMM is labeled “128KB Upgrade” on one of the ICs.

Front



Back



**SRAM Cache SIMM, 256K, 17 ns****661-0792**

This board has RAM ICs on both sides.

This SIMM is labeled “256KB Upgrade” on one of the ICs.

Front



Back

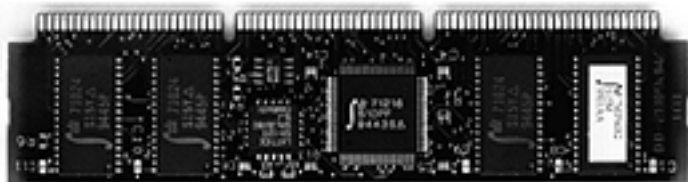




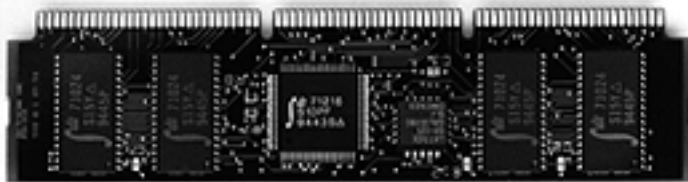
SRAM Cache SIMM, 1 MB, 15 ns

661-0950

Front



Back



**SRAM Cache SIMM, Tag, 48K, 14 ns****661-0793**

This board has RAM ICs on one side only.

This SIMM is labeled “Tag Upgrade” on one of the ICs.

Front



Back







Memory

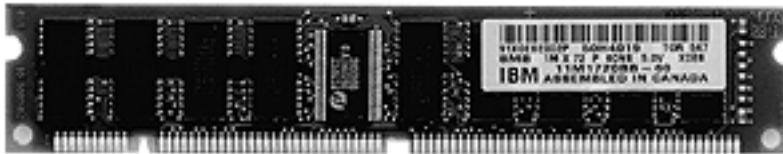
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RAM

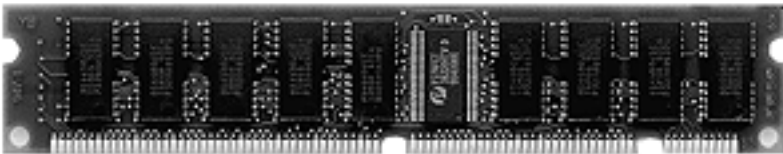


**DRAM DIMM, 8 MB, 60ns, 168-Pin, Parity****661-1128**

Top



Bottom



DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to DRAM SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM DIMM, 8 MB, 70 ns, 168-Pin****661-0918**

Front

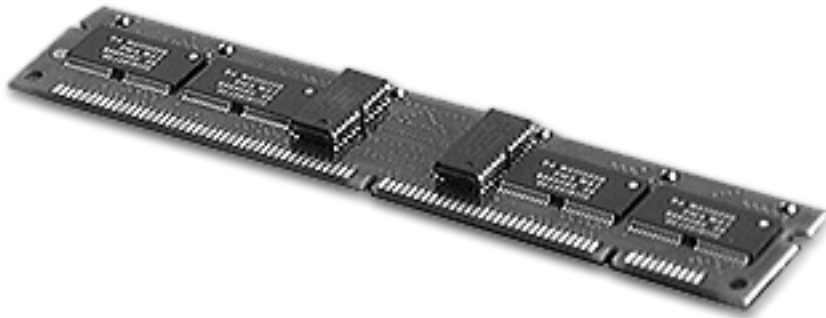


Back



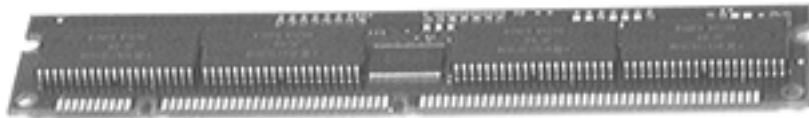
DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM DIMM, 16 MB, 60ns, 168-Pin, Parity****661-1129**

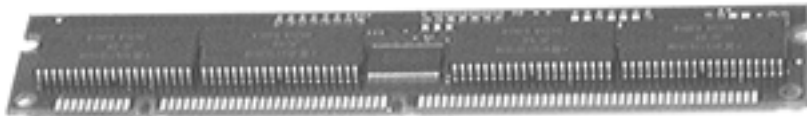
DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM DIMM, 16 MB, 70 ns, 168-Pin****661-0919**

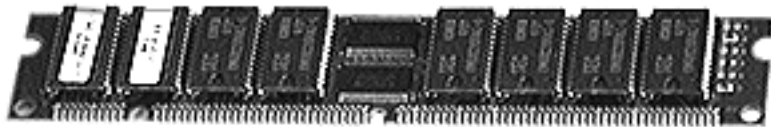
DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM DIMM, 32 MB, 60ns, 168-Pin, Parity****661-1130**

DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM DIMM, EDO, 8 MB, 70ns, 168-Pin****661-1314**

Use this DRAM DIMM in the PM 7300, 8600, and 9600 Series and the PM 7600/200.

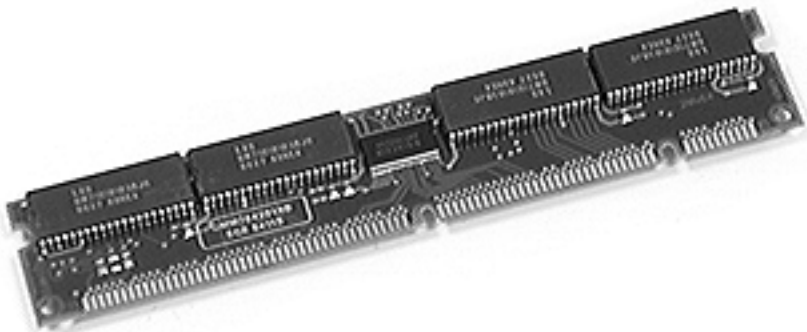
DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



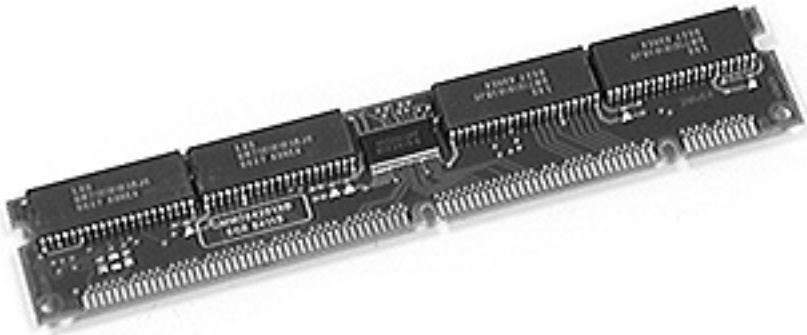
**DRAM DIMM, EDO, 16 MB, 70ns, 168-Pin****661-1315**

Use this DRAM DIMM in the PM 7300, 8600, and 9600 Series and the PM 7600/200.

DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



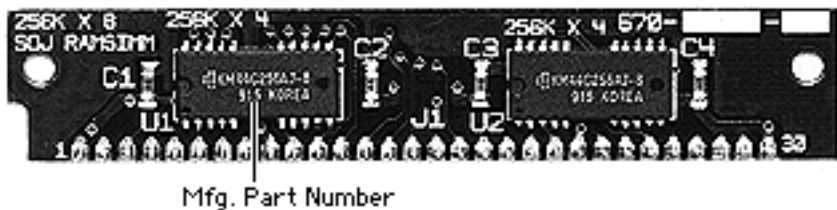


**DRAM DIMM, EDO, 32 MB, 70ns, 168-Pin****661-1316**

Use this DRAM DIMM in the PM 7300, 8600, and 9600 Series and the PM 7600/200.

DRAM DIMMs are keyed with two notches in the gold pin connector area, as opposed to SIMMs, which are keyed with only one notch. DRAM DIMMs are also longer than DRAM SIMMs.



**DRAM SIMM, 256K, 80 ns****661-0519**

The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts for return only 80 ns or faster RAM SIMMs of this 256K variety.



**DRAM SIMM, 256K, 120 ns****661-0402**

Mfg. Part Number

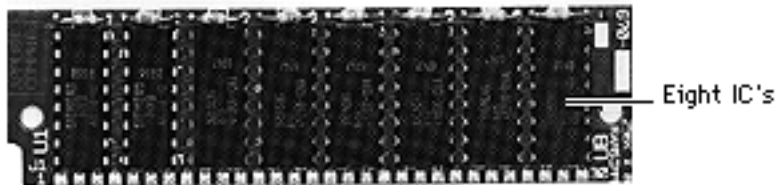
The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Although 150 ns RAM SIMMs are acceptable for return, Apple ships





120 ns (or faster) RAM SIMM exchange modules.

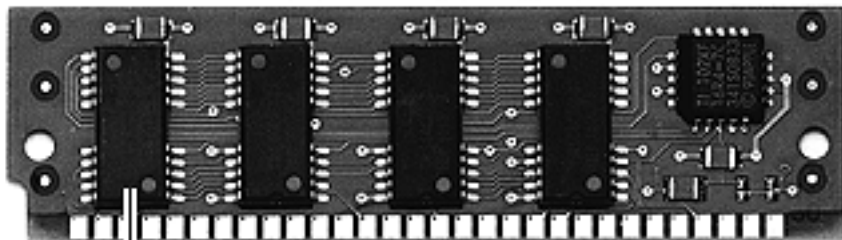


**DRAM SIMM, 256K, 120 ns, DIP****661-0494**

This DIP (Dual In-line Package) SIMM has eight ICs soldered through the PCB.

This SIMM is for the Macintosh Plus and Macintosh SE computers only. The back of this SIMM is marked "For use only in Mac Plus SIMM positions (1, 2, 3, 4) and Mac SE SIMM positions (3, 4)."



**DRAM SIMM, 512K, 80 ns****661-0646**

Mfg. Part Number

The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 512K MB variety for return.



**DRAM SIMM, 1 MB, 80 ns****661-0520**

The RAM speed is usually indicated by the -XX after the manufacture's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.



Mfg. Part Number

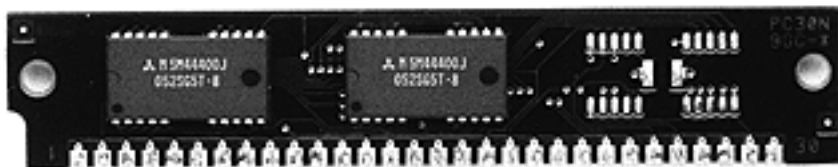




For additional SIMM information, refer to the SIMMs manual in Service Source.





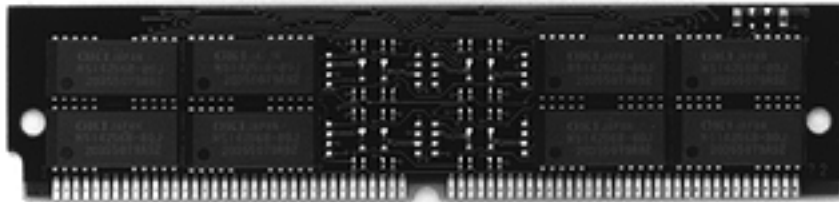
**DRAM SIMM, 1 MB, 80 ns****661-0719**

The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.



**DRAM SIMM, 1 MB, 80 ns, 72-Pin****661-0734**

This DRAM SIMM is used in both Macintosh computers and the Personal LaserWriter NTR printer.



**DRAM SIMM, 1 MB, 80 ns, Parity****661-0546**

Mfg. Part Number

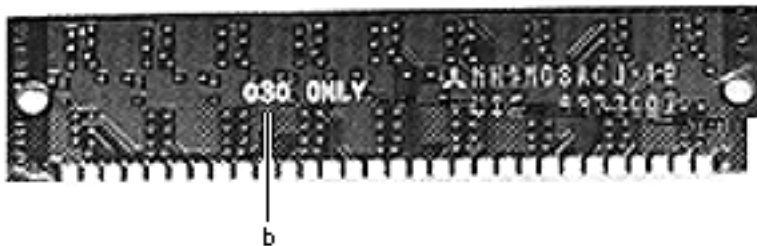
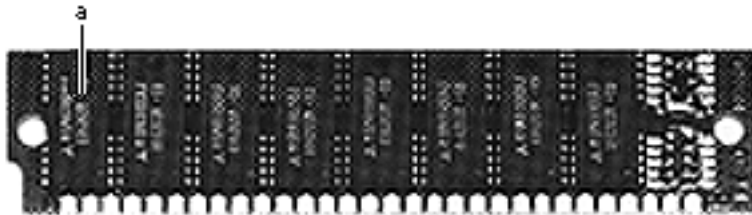
The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.





## DRAM SIMM, 1 MB, 120 ns

661-0403



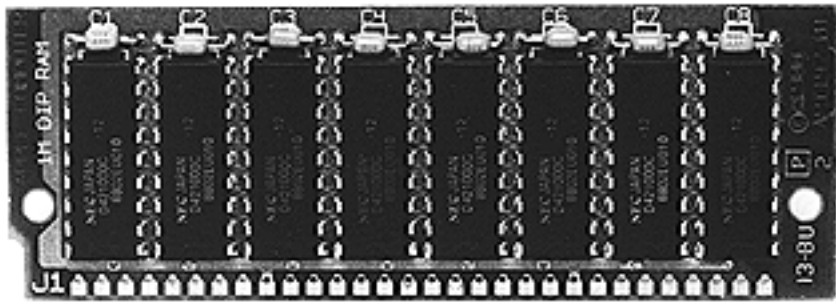
a) The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts for return only 120 ns or faster RAM SIMMs of this 1 MB variety.





b) Please note that this SIMM is for Macintosh units with the 68030 central processing unit only. The back of this SIMM is marked “030 only.”



**DRAM SIMM, 1 MB, 120 ns, DIP****661-0410**

a) These DIP (Dual In-Line Package) SIMMs have eight ICs soldered through the PCB.

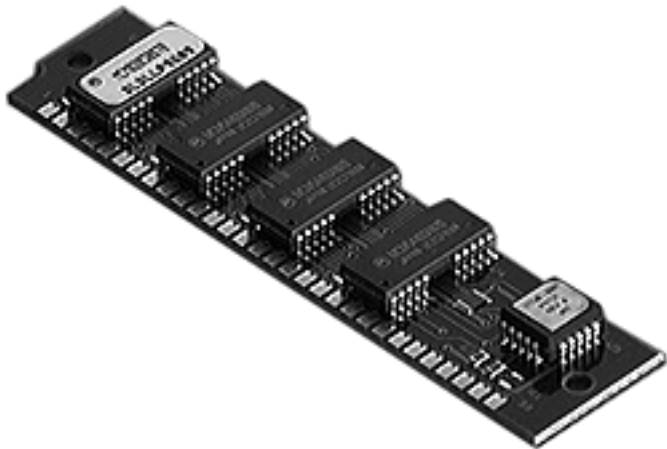
b) The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board.





Although 150 ns RAM SIMMs are acceptable for return, Apple ships 120 ns (or faster) RAM SIMM exchange modules.



**DRAM SIMM, 2 MB, 80 ns****661-0643**

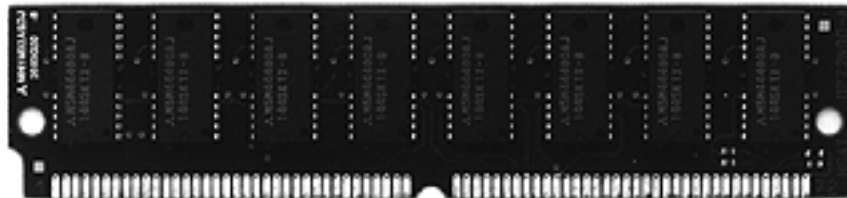
The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 2 MB variety for return.





**DRAM SIMM, 4 MB, 60 ns, 72-Pin****661-1701**

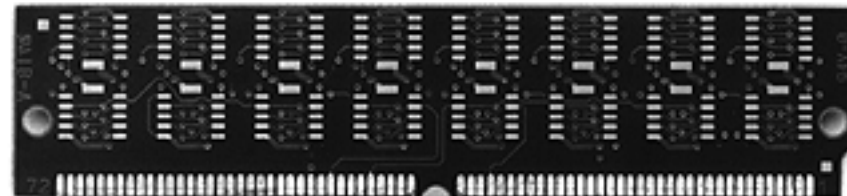
Top



This board has ICs on one side.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, where as -60, -6 or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back of the

Bottom



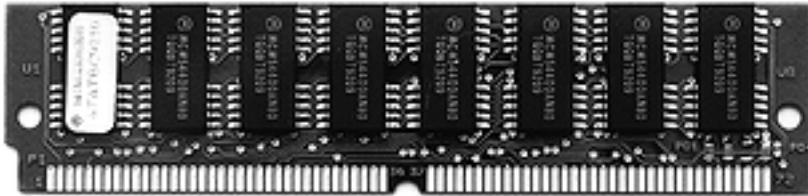


SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 4 MB variety for return.



**DRAM SIMM, 4 MB, 80 ns, 72-Pin****661-0808**

This DRAM SIMM is used in both Macintosh computers and the LaserWriter Pro printer.



This board has ICs on one side.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or



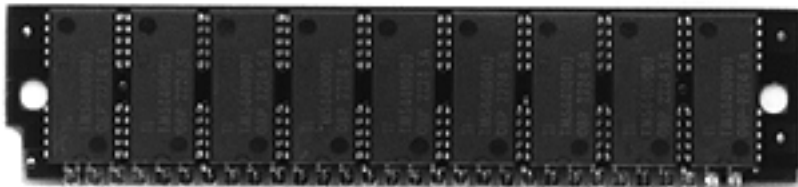


S8 indicates 80 ns, whereas -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 4 MB variety for return.



**DRAM SIMM, 4 MB x 9, 80 ns, Parity****661-0811**

Front



Back



Parity DRAM SIMMs have nine RAM ICs.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, where as -60, -6 or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back of the



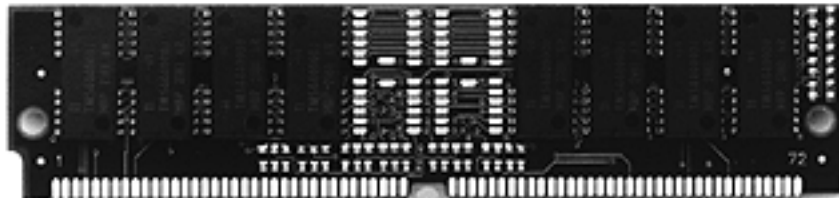


SIMM board. Apple accepts only 60 ns or faster DRAM SIMMs of this 4MB variety for return.

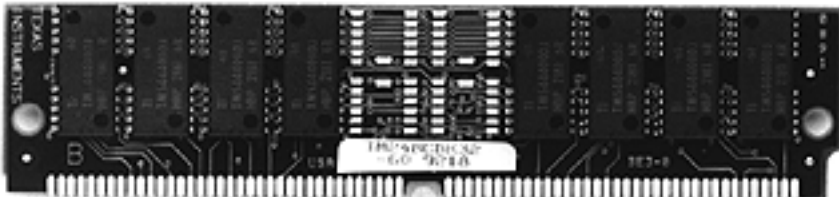


**DRAM SIMM, 8 MB, 60 ns, 72-Pin****661-1702**

Top



Bottom



This board has ICs on both sides.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, whereas -60, -6 or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back of the





SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 8 MB variety for return.





**DRAM SIMM, 8 MB, 80 ns, 72-Pin****661-0809**

This DRAM SIMM is used in both Macintosh computers and the LaserWriter Pro printer.

This SIMM has ICs on both sides.

The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or





S8 indicates 80 ns, whereas -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 8 MB variety for return.

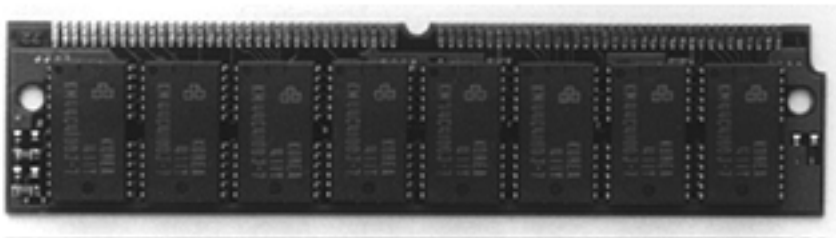
For additional SIMM information, refer to the SIMMs manual in Service Source.





**DRAM SIMM, 16 MB, 70/80 ns, 72-Pin**

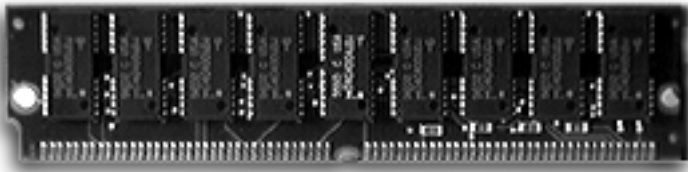
**661-0087**





**EDRAM SIMM, 4 MB, RAID Card**

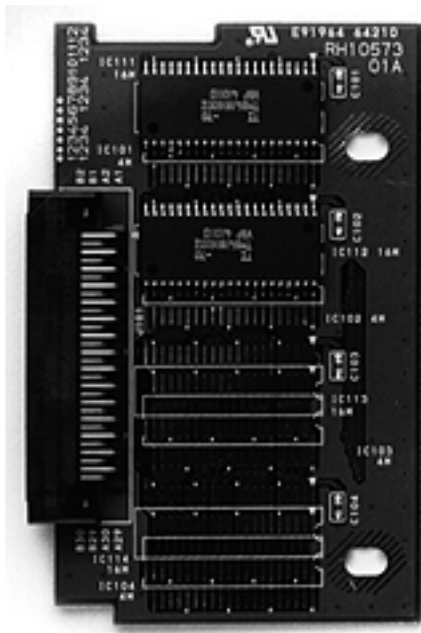
**661-1184**





Memory Expansion Card, LaserWriter 4/600 PS, 4 MB

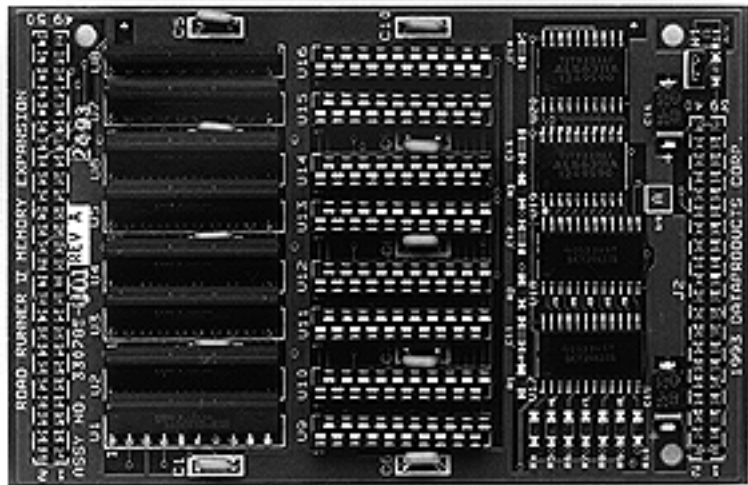
661-0247





## Memory Expansion Card, LaserWriter Pro 810, 4 MB

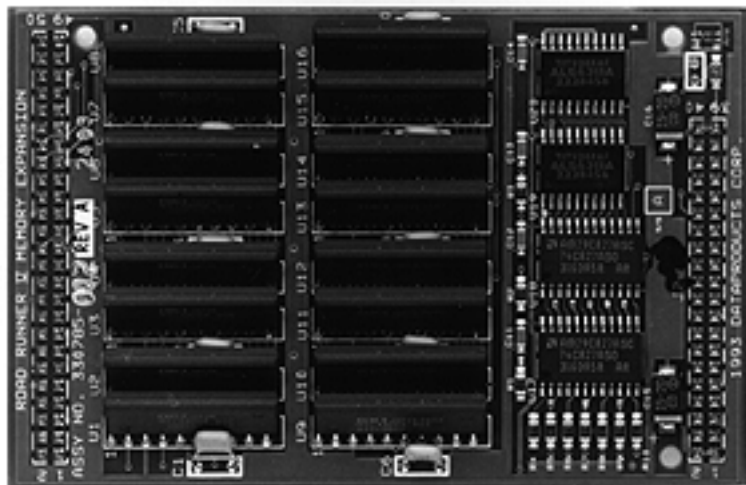
661-0846

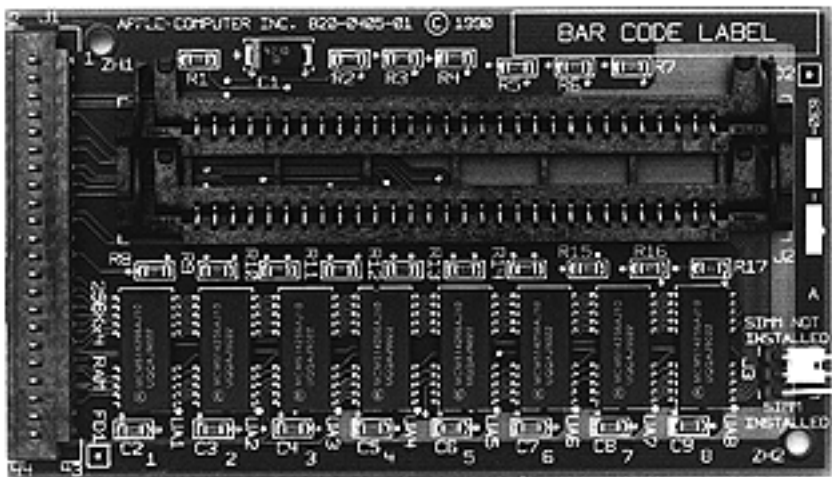




# Memory Expansion Card, LaserWriter Pro 810, 8 MB

661-0847



**Memory Expansion Card, Macintosh Classic, 1 MB****661-0598**

Return the Macintosh Classic memory expansion board without RAM SIMMs.

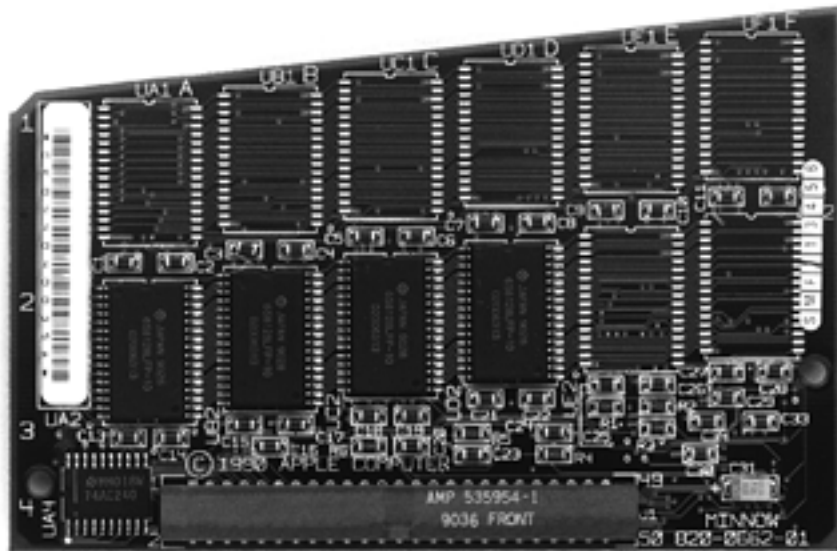






Memory Expansion Card, Macintosh Portable, PSRAM, 1 MB

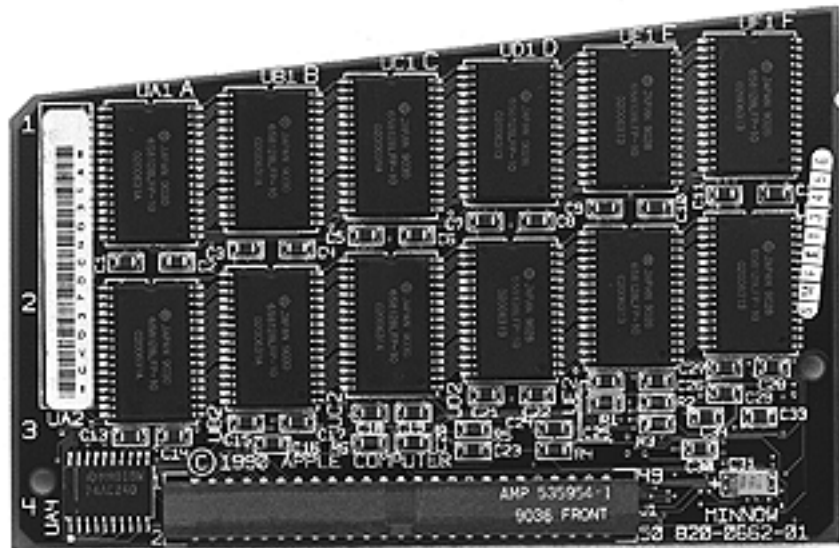
661-1614





## Memory Expansion Card, Macintosh Portable, PSRAM, 3 MB

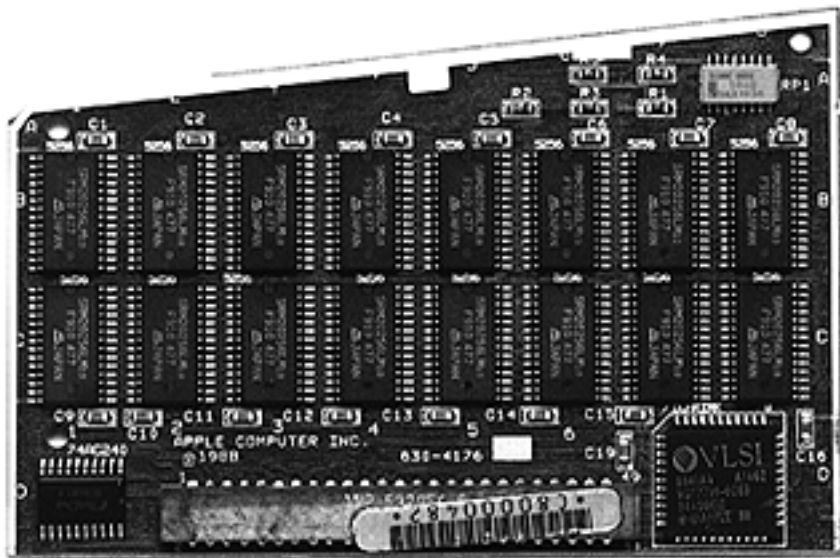
661-1613





Memory Expansion Card, Macintosh Portable, RAM, 1 MB

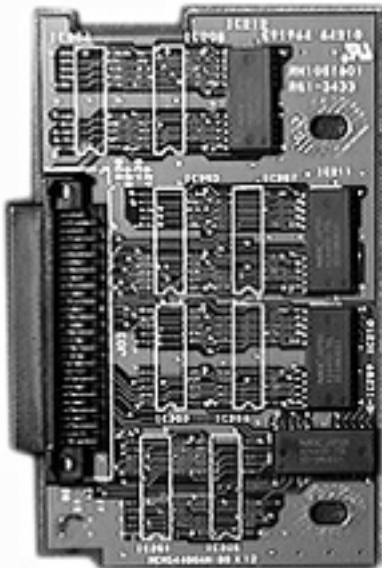
661-0480





Memory Expansion Card, Personal LaserWriter 320, RAM, 2 MB

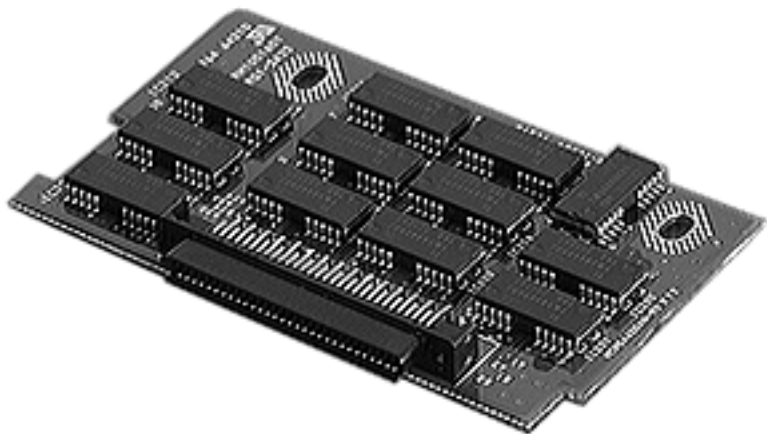
661-0688





**Memory Expansion Card, Personal LaserWriter 320, RAM, 6 MB**

**661-0689**





Memory Expansion Card, PowerBook 100, PSRAM, 4 MB, 100 ns

661-1103

Top



Bottom

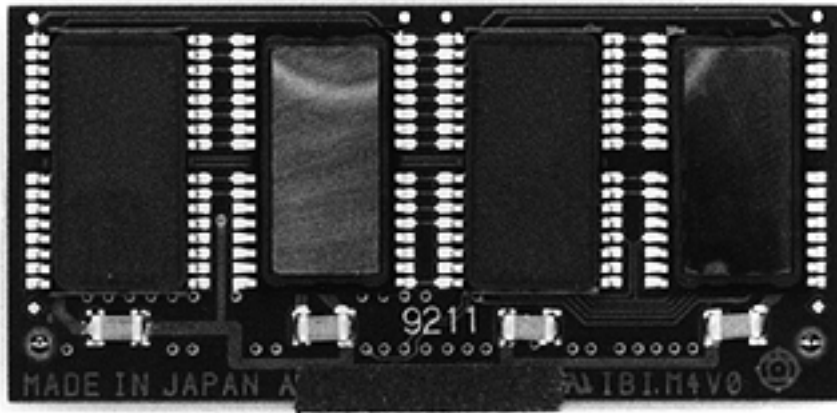


When you return the PSRAM Expansion Card for the PowerBook 140/145/145B/160/165c/170/180c, Apple ships you P/N 661-0790.



**Memory Expansion Card, PowerBook 100, PSRAM, 4 MB, 100 ns****661-0714**

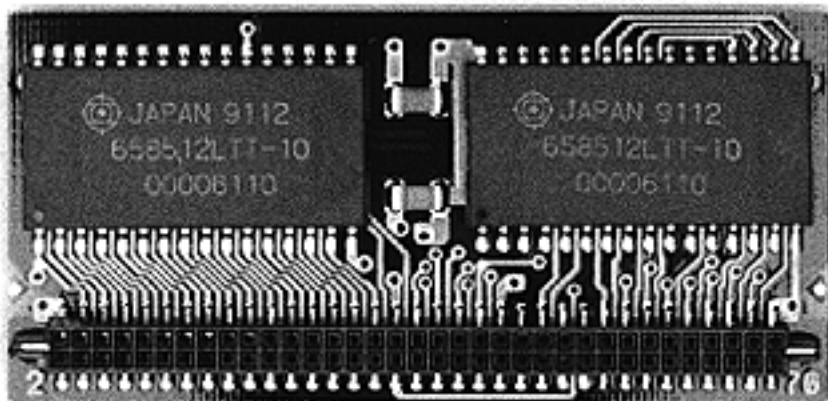
When you return the PSRAM Expansion Card for the PowerBook 100, Apple ships you P/N 661-1103.





Memory Expansion Card, PowerBook 100/140/145/145B/160/170, PSRAM, 2 MB

661-0715



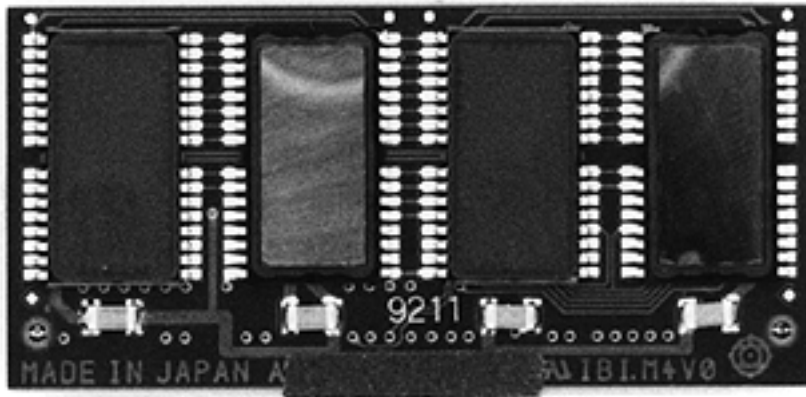




**Memory Expansion Card, PowerBook 140/145/145B/160/165/165c/170/180c,  
PSRAM, 4 MB, 85 ns**

**661-0790**

The code HB656132AP-85 appears on the top side of the card.





Memory Expansion Card, PowerBook 520/540 Series, RAM, 8 MB

661-0058





**Memory Expansion Card, PowerBook 1400, DRAM, 4 MB  
(Factory Slot)**

**661-1292**





**Memory Expansion Card, PowerBook 1400, DRAM, 8 MB  
(Customer Slot)**

**661-1196**





**Memory Expansion Card, PowerBook 1400, DRAM, 8 MB  
(Factory Slot)**

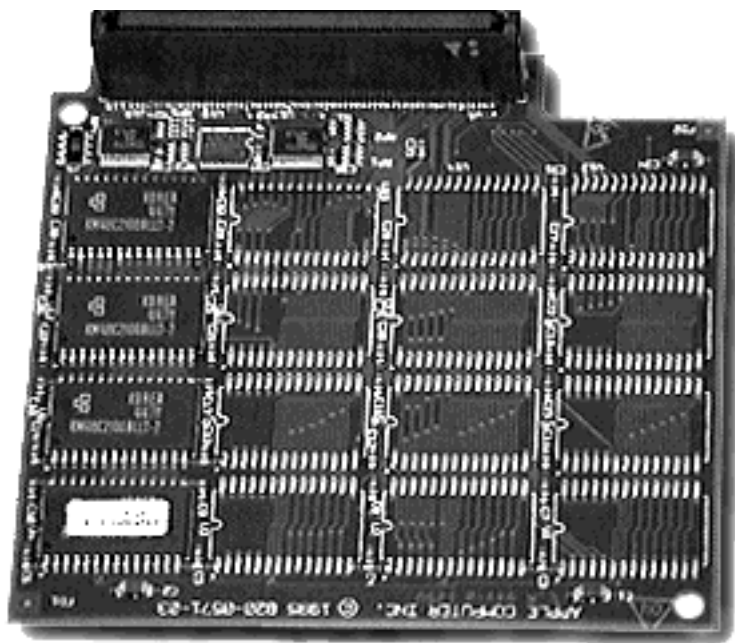
**661-1293**





Memory Expansion Card, PowerBook 5300 Series, RAM, 8 MB

661-1033

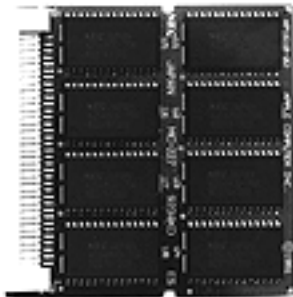




## Memory Expansion Card, PowerBook Duo, DRAM, 8 MB

661-1658

Front



Back

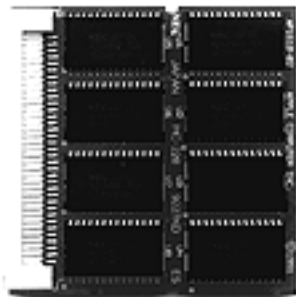




Memory Expansion Card, PowerBook Duo 210/230, DRAM, 4 MB

661-1659

Front



Back







Memory Expansion Card, PowerBook Duo 2300 Series, RAM, 12 MB

661-1067

Front



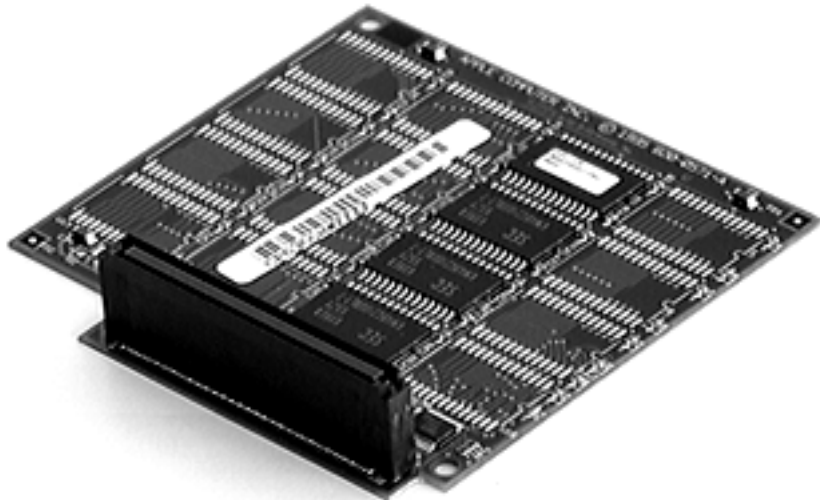
Back





**Memory Expansion Card, RAM, 8 MB**

**661-0156**

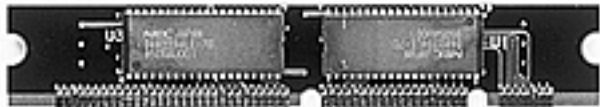




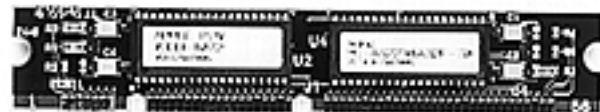
VRAM DIMM, 1 MB, 70 ns, 112-Pin

661-1036

Top



Bottom



**VRAM SIMM, 256K, 80 ns****661-0722**

Return the VRAM SIMM as:

661-0609 if it is to be installed on a Macintosh Display 4•8 card.

661-0722 if it is to be installed on a Macintosh Quadra or a Macintosh LC family logic board.



**VRAM SIMM, 256K, 100 ns****661-0609**

Return the VRAM SIMM as:

661-0609 if it is to be installed on a Macintosh Display 4•8 card.

661-0722 if it is to be installed on a Macintosh Quadra or a Macintosh LC family logic board.





**VRAM SIMM, 512K (Replaced by 661-1021)**

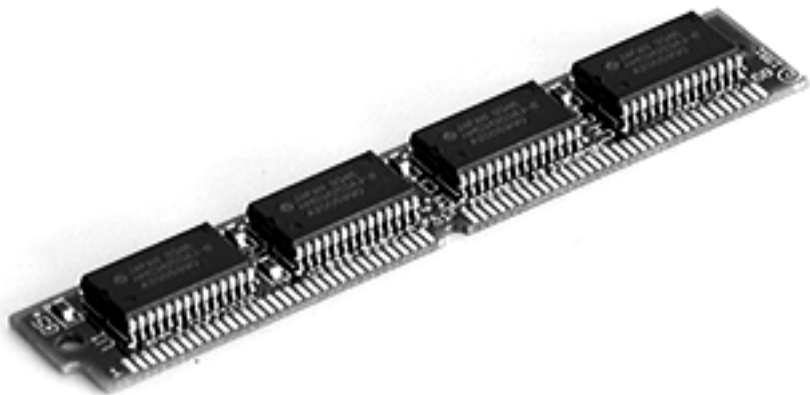
**661-0649**





**VRAM SIMM, 512K, 80ns, 160-pin**

**661-1021**





Memory  

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ROM







**ROM Cache DIMM, Power Macintosh**

**661-1278**





**ROM Card, MessagePad 2000**

**661-1279**

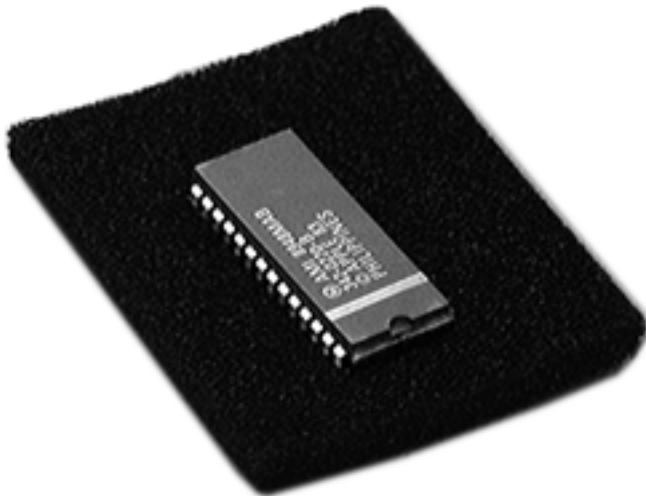




## ROM, Macintosh with 400K Floppy Drive, High

**661-0220**

Apple P/N on ROMs must be 34x-0220 or 34x-0221 (where x = 1 or 2).





## ROM, Macintosh with 400K Floppy Drive, Low

**661-0221**

Apple P/N on ROMs must be 34x-0220 or 34x-0221 (where x = 1 or 2).





## ROM, Macintosh with 800K Floppy Drive, High

**661-0632**

Apple P/N on ROM must be 34x-0341 or 34x-0342 (where x = 1 or 2).



**ROM, Macintosh with 800K Floppy Drive, Low****661-0633**

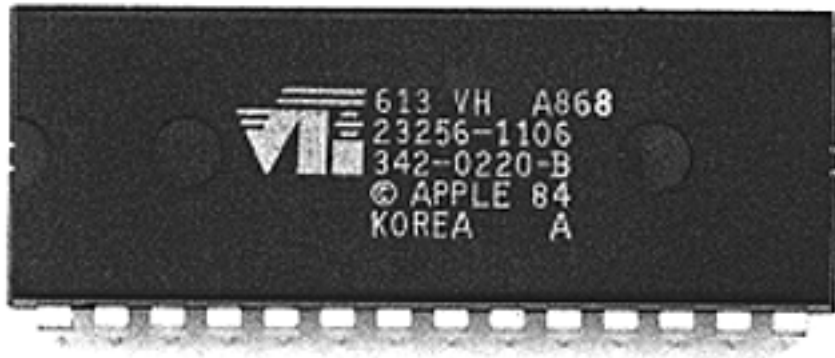
Apple P/N on ROMs must be 34x-0341 or 34x-0342 (where x = 1 or 2).





ROM, Macintosh II, High

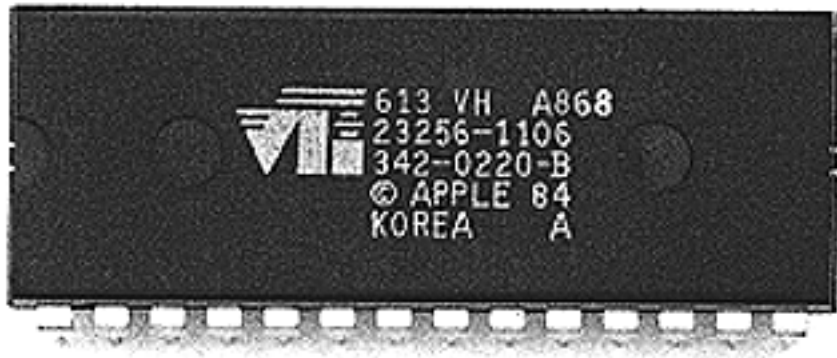
661-0639





ROM, Macintosh II, Low

661-0642

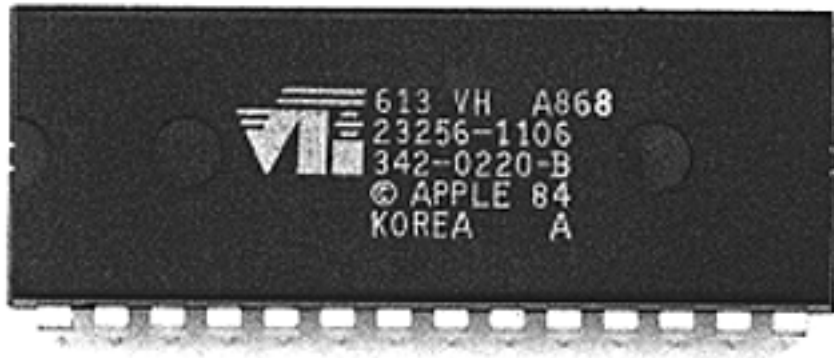






ROM, Macintosh II, Medium High

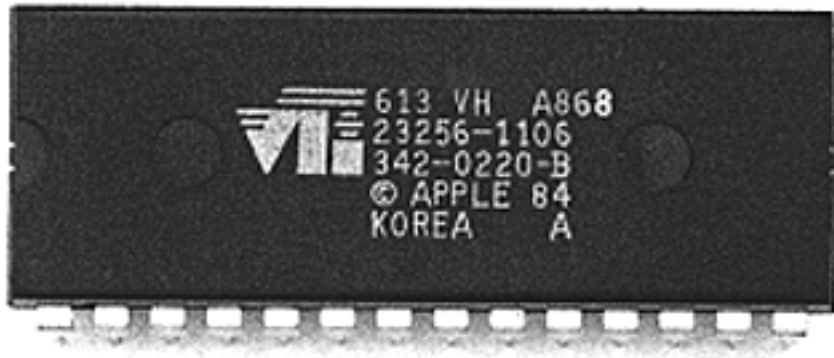
661-0640





ROM, Macintosh II, Medium Low

661-0641





ROM, Macintosh SE, High

661-0701





ROM, Macintosh SE, Low

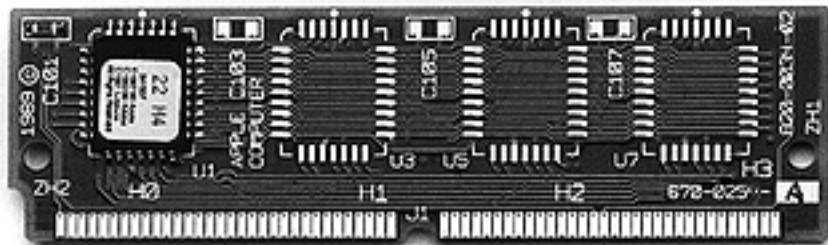
661-0702





ROM SIMM, Personal LaserWriter, 256K

661-0602





ROM SIMM, Personal LaserWriter, 1 MB

661-0570





## Miscellaneous Parts

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**CD 300+ Chassis, Manual Insert, Tray Loading**

**661-1152**







CD Base, Power CD, Battery Pack/SCSI, Blue

661-1729





CD Base, Power CD, Battery Pack/SCSI, Gray

661-1730



**CD Player, Power CD, NTSC, Blue****661-1697**

APPLE REQUIRES SPECIAL PACKAGING: The Power CD Player must be packaged with the foam insert inside the player. Failure to do so could damage the drive during shipment. Failure to comply with these requirements may result in a packaging noncompliance charge.



**CD Player, Power CD, NTSC, Gray****661-1726**

APPLE REQUIRES SPECIAL PACKAGING: The Power CD Player must be packaged with the foam insert inside the player. Failure to do so could damage the drive during shipment. Failure to comply with these requirements may result in a packaging noncompliance charge.



**CD Player, Power CD, PAL, Blue, International****661-1728**

APPLE REQUIRES SPECIAL PACKAGING: The Power CD Player must be packaged with the foam insert inside the player. Failure to do so could damage the drive during shipment. Failure to comply with these requirements may result in a packaging noncompliance charge.



**CD Player, Power CD, PAL, Gray, International****661-1727**

APPLE REQUIRES SPECIAL PACKAGING: The Power CD Player must be packaged with the foam insert inside the player. Failure to do so could damage the drive during shipment. Failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts





chapter of the Power CD manual in Service Source.

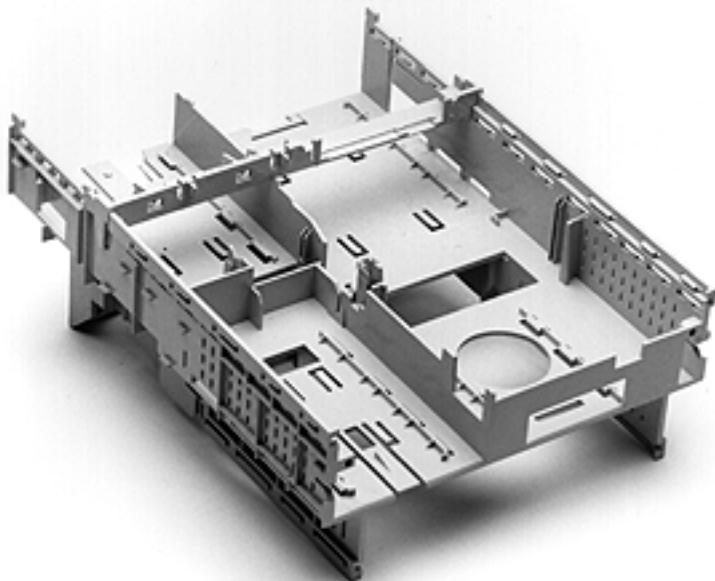




**LC 520/550/575 Chassis**

**661-0980**

Part Number 661-0980 replaces P/N 076-0489.

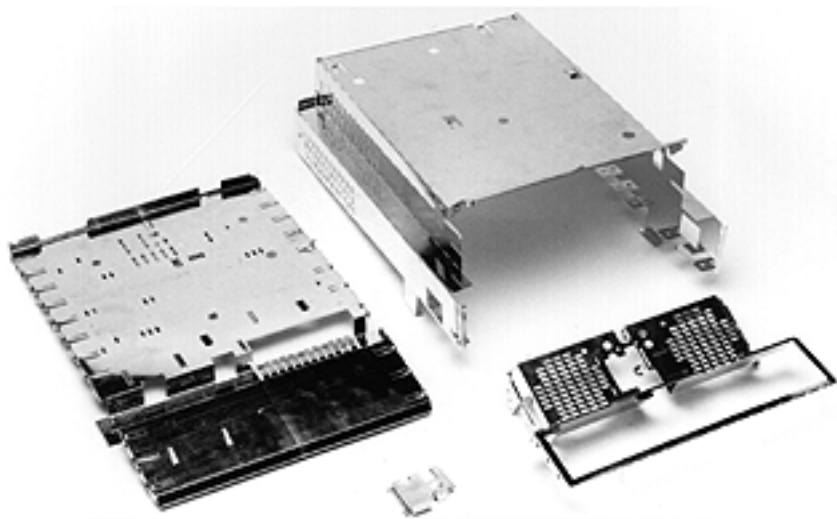






**LC 520/550/575 Shield**

**661-0981**



Part number 661-0981 replaces P/N 076-0488.





**MessagePad 2000, Whole Unit**

**661-0997**





PCMCIA Expansion Module (Replaced by 661-1060)

661-0137

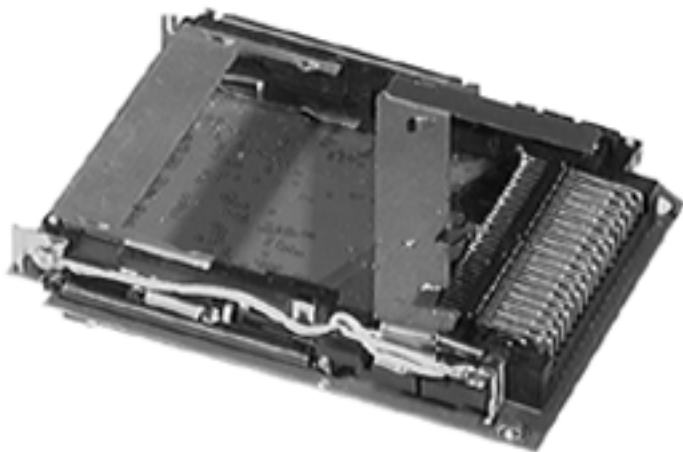




**PCMCIA, Mechanism, Eject, PowerBook 1400**

**661-1190**

The PCMCIA eject mechanism includes the I/R board.





**PowerBook Duo Floppy Adapter**

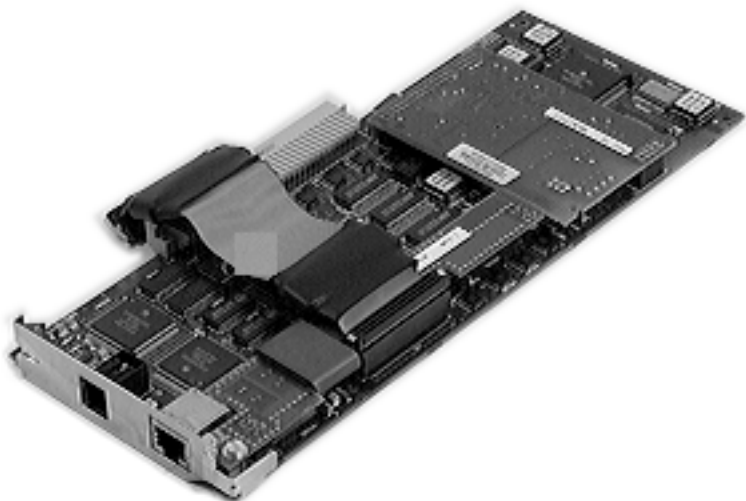
**661-1663**



**QTC Camera 100****661-0977**

The QTC ISDN camera is compatible QuickTime conferencing software, as well all Apple A/V capable Quadras, Performas, and Power Macintosh computers. The camera features tilt/swivel base, composite video, adjustable focus, privacy shutter and can be attached to any standard tripod.



**QTC ISDN Card****661-0978**

The QTC ISDN card is a NuBus card which requires a DAV (Digital Audio Video) connection. As such, it can be used with the Power Macintosh 7100AV series and 8100AV series computer.

You must have access to the ISDN network in order to use this card. The QTC ISDN card is H.320 compatible and





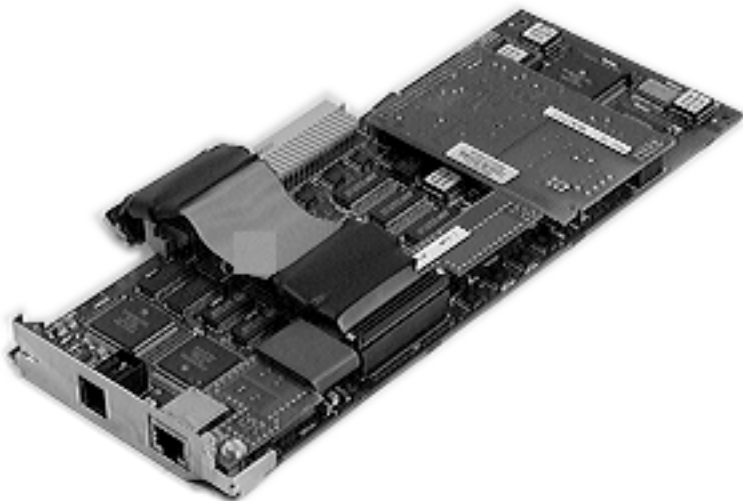
will allow the user to connect into the worldwide video teleconferencing network. This card can be used with QuickTime conferencing software.

This version of the card is for use in Japan only. It is co-labeled with an NTT (Nippon Telephone and Telegraph) sticker.

There is a sister card which has modifications to meet U.S. EMI standards (see 661-1159).





**QTC ISDN Card (U.S. Only)****661-1159**

The QTC ISDN card is a NuBus card which requires a DAV (Digital Audio Video) connection. As such, it can be used with the Power Macintosh 7100AV series and 8100AV series computer.

You must have access to the ISDN network in order to use this card. The QTC ISDN card is H.320 compatible and will allow the user to





connect into the worldwide video teleconferencing network.  
This card can be used with QuickTime conferencing software.

This version of the card can be used in the U.S. There is a sister card which is for use in Japan only (see 661-0978).





**Speaker Assembly, AppleDesign Powered Speakers II, Platinum**

**661-0048**





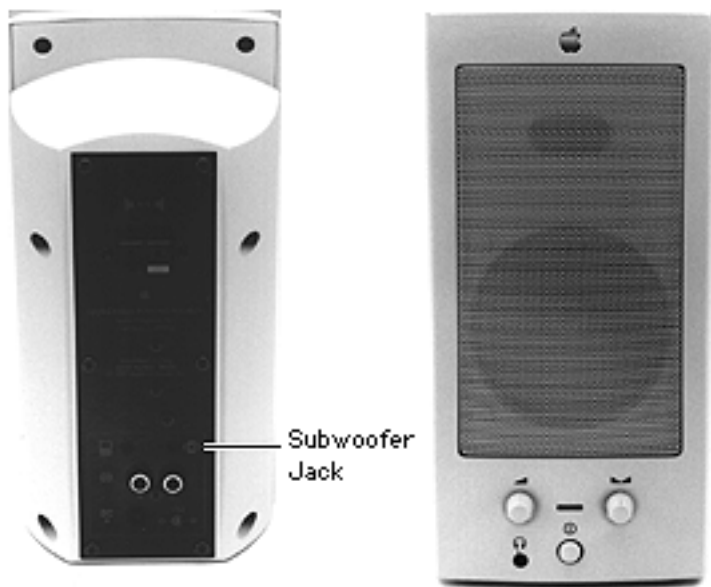
**Speaker, Main, AppleDesign Powered Speakers**

**661-1689**



When you return P/N 661-1689, Apple ships you P/N 661-1737.



**Speaker, Main, AppleDesign Powered Speakers, with Subwoofer Jack****661-1737**



**Speaker, Satellite, AppleDesign Powered Speakers**

**661-1716**



**TechStep Assembly****661-0703**

DO NOT return ROM packs, port pack, or battery with this module.





Printers

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Cards







**Color Printer SCSI Card Assembly**

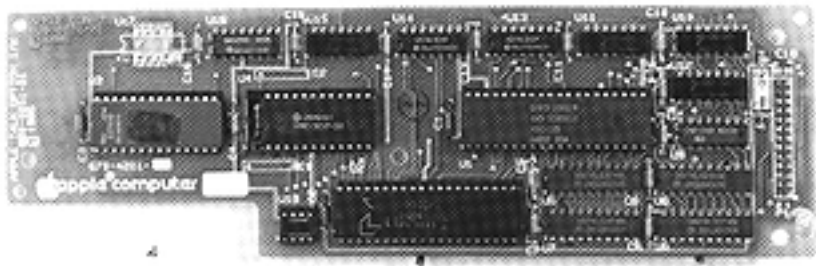
**661-1674**





LaserWriter 12/640 PS, LQ LocalTalk Option Card

661-0325





**LaserWriter 12/640 PS, Laser/Scanner Assembly**

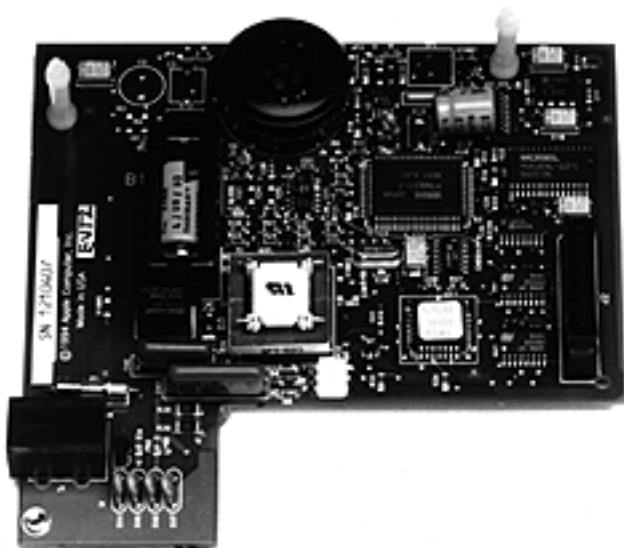
**661-1097**





LaserWriter 16/600 PS Fax Card

661-0095



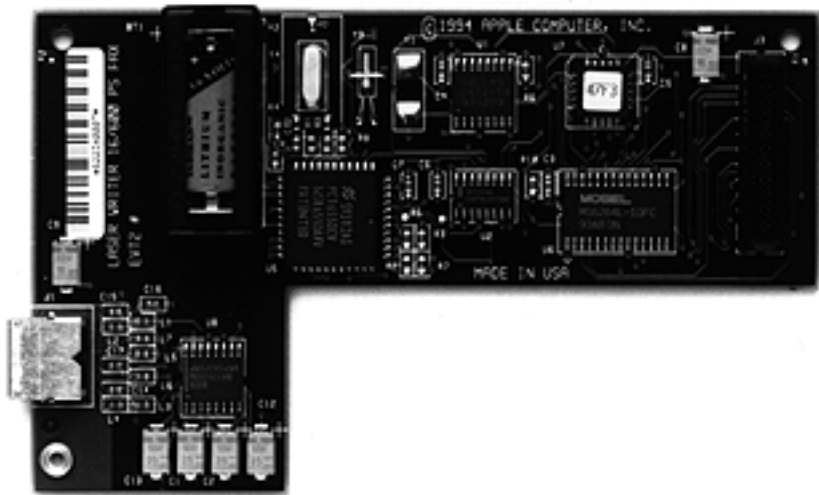
Return the plastic standoffs with the fax card.





LaserWriter 16/600 PS Fax Card, International

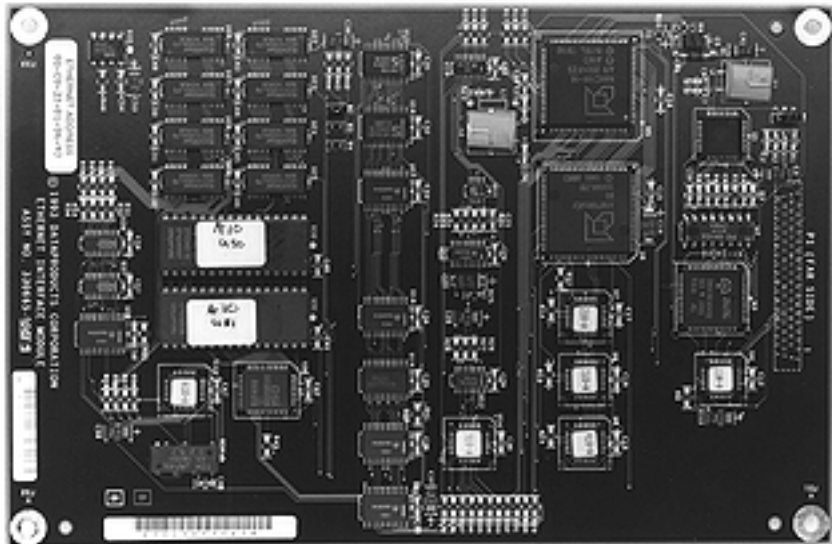
661-0130





LaserWriter Pro 810 Communications Card

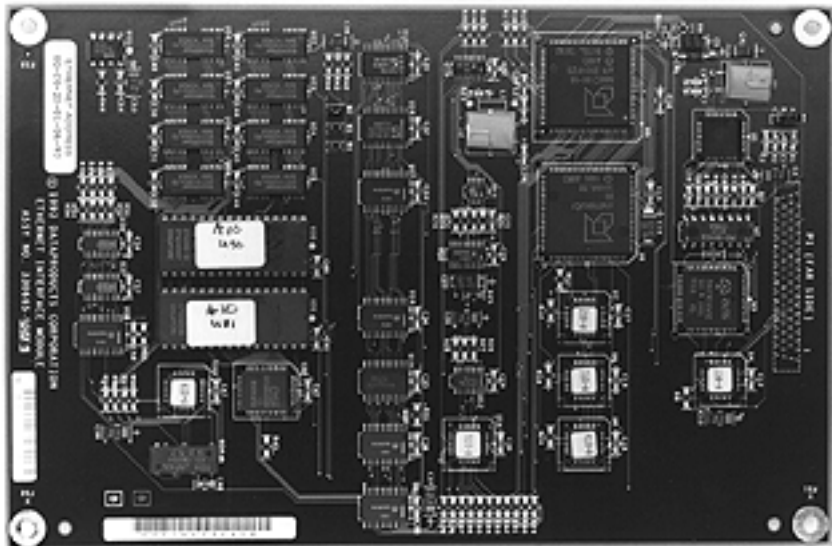
661-0850





LaserWriter Pro 810 Ethernet Card

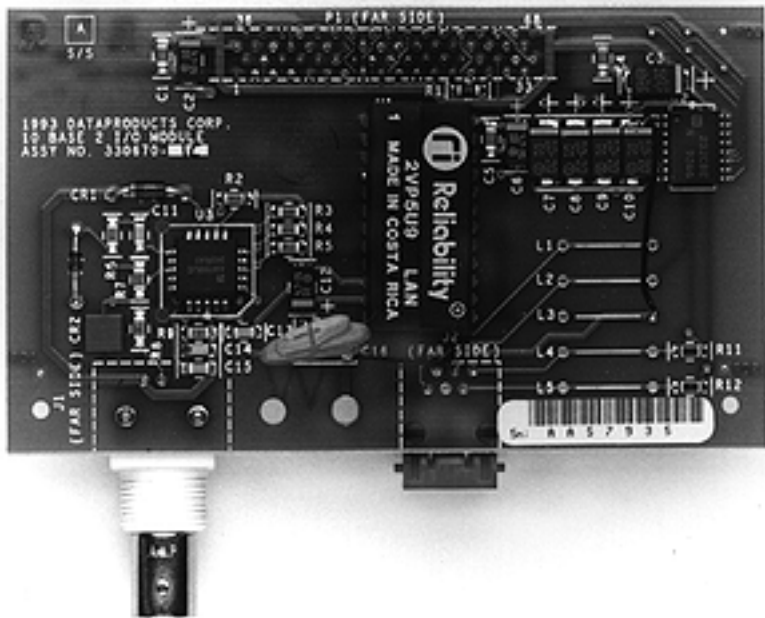
661-0852





## LaserWriter Pro 810 Ethernet Card, 10 Base 2

661-0854

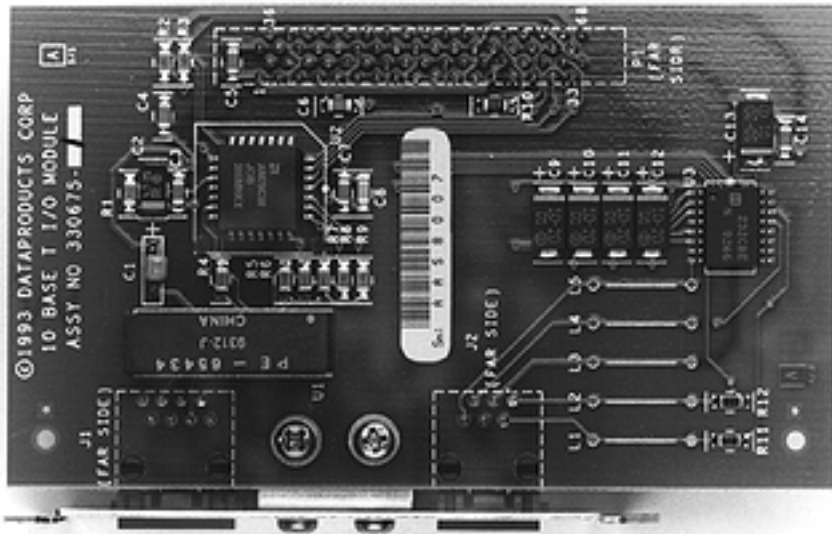






## LaserWriter Pro 810 Ethernet Card, 10 Base T

661-0853





**LaserWriter Pro 810 Fax Card**

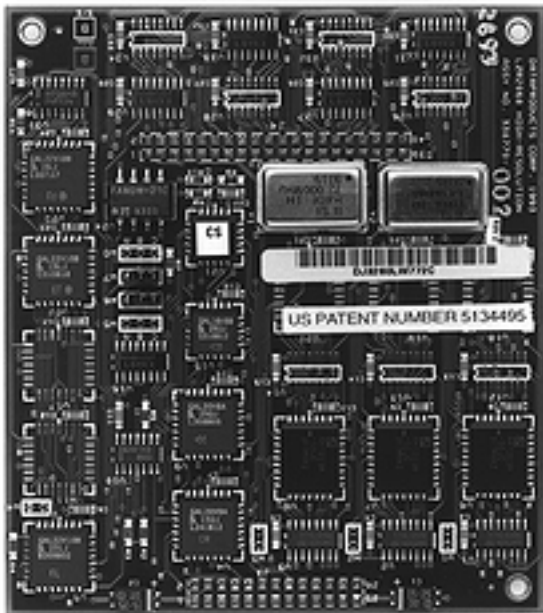
**661-0851**





# LaserWriter Pro 810 High Resolution Card

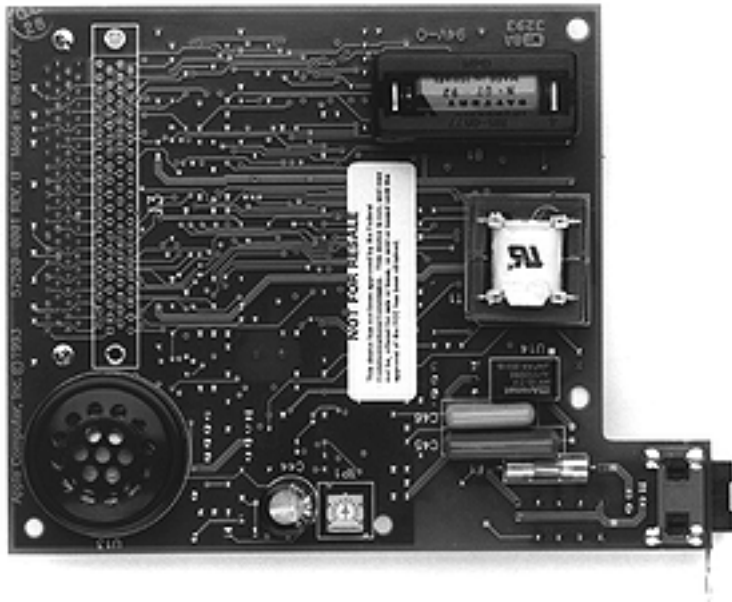
661-0849





## LaserWriter Select 360 Fax Card

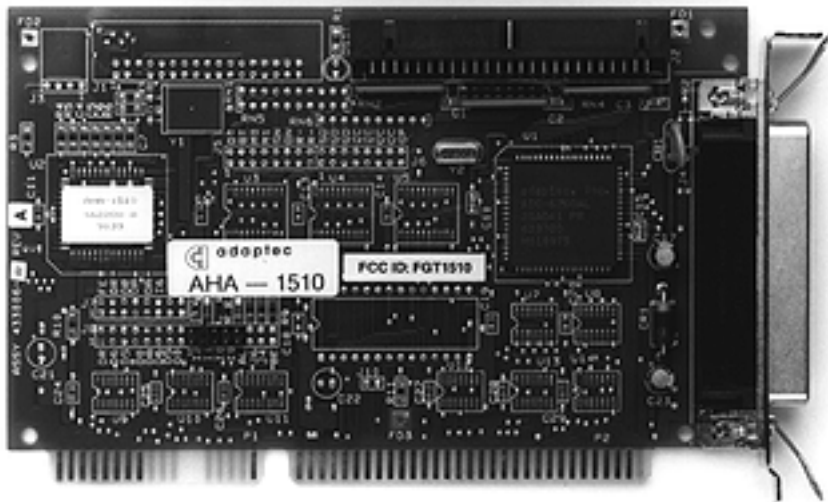
661-0868





OneScanner for Windows SCSI Card

661-0737

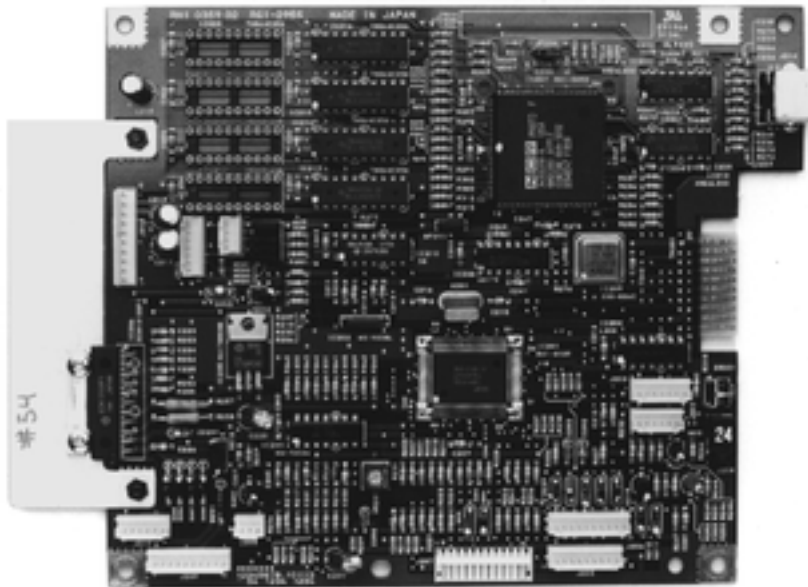




Printers

Controller Boards



**Apple Personal LaserWriter LS/L Serial Controller****661-0669**

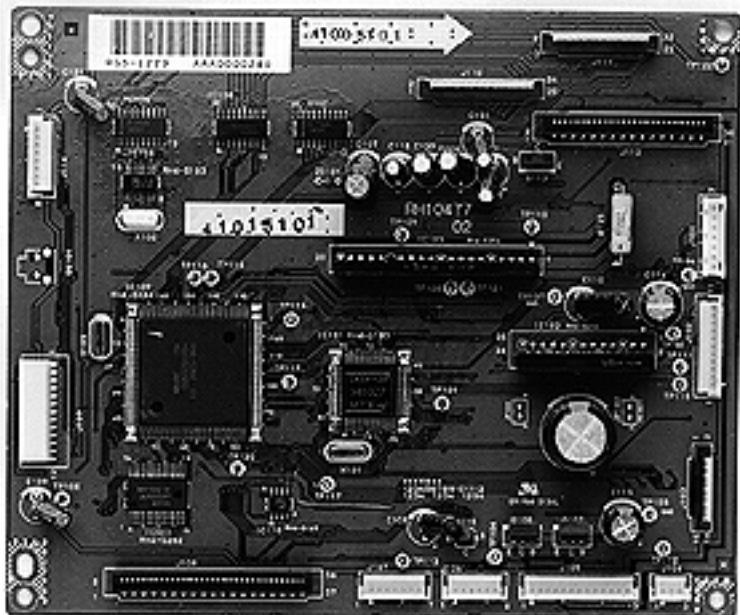
Return the serial controller board in its 512K configuration (that is, with sockets IC217 through IC220 empty).



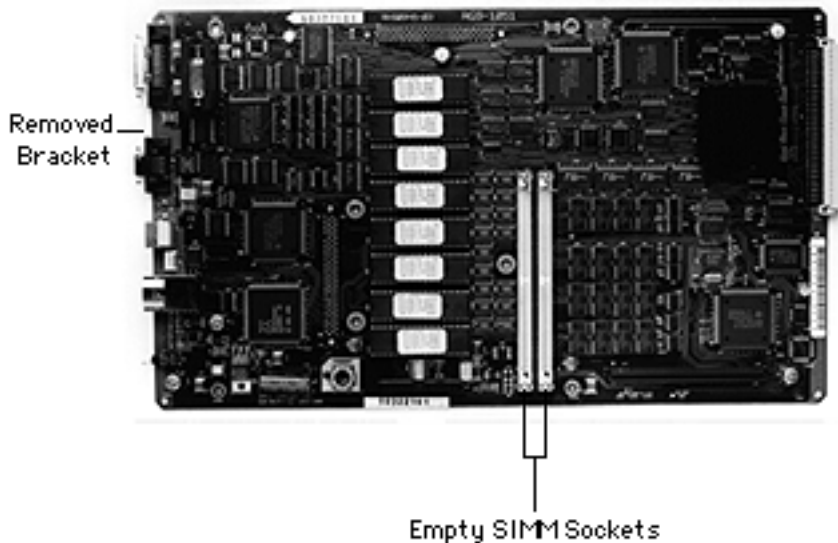


Color LaserWriter 12/600 PS DC Controller Board

661-0898

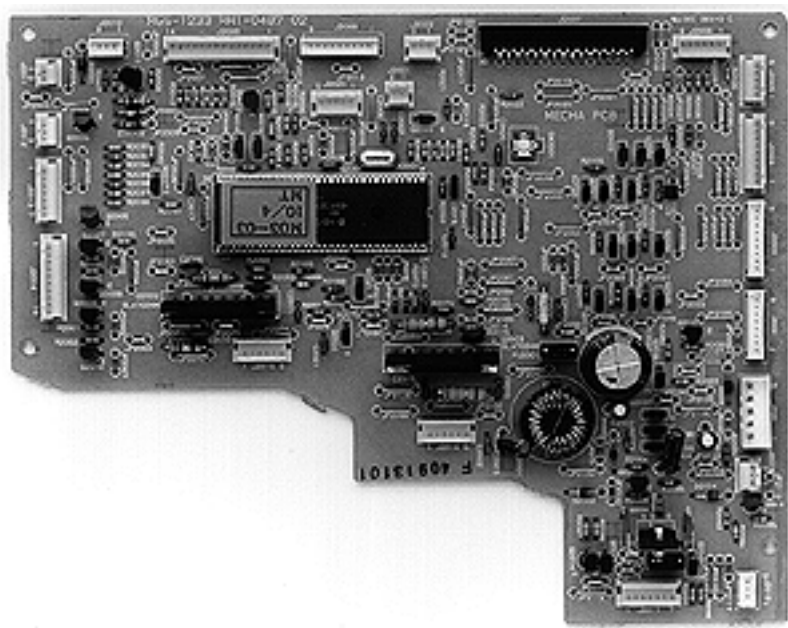




**Color LaserWriter 12/600 PS I/O Controller Board****661-0133**

The replacement board comes without the I/O bracket, DRAM SIMMs and battery. Please transfer the I/O bracket, DRAM SIMMs and battery from the customer's I/O board to the replacement board before installation. Do not return the I/O bracket, DRAM SIMMs or battery to Apple.



**Color LaserWriter 12/600 PS Mechanical Controller Board****661-0899**

The black plastic mount is not included on this module.





**Color StyleWriter 2200 Controller Board**

**661-0257**





Color StyleWriter 2400 Logic Board

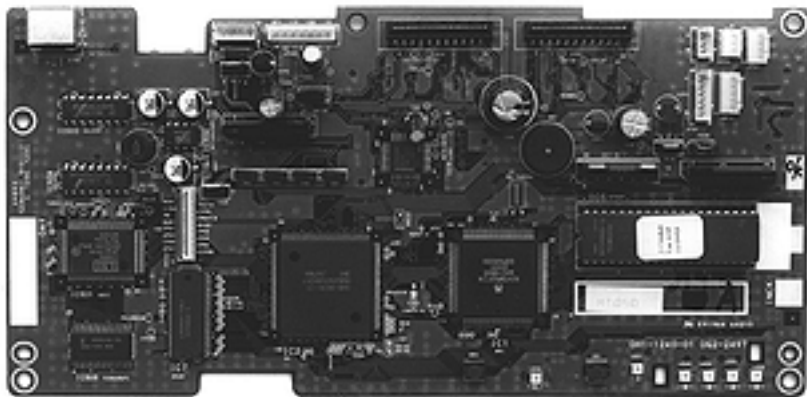
661-0161





**Color StyleWriter Pro Controller Board**

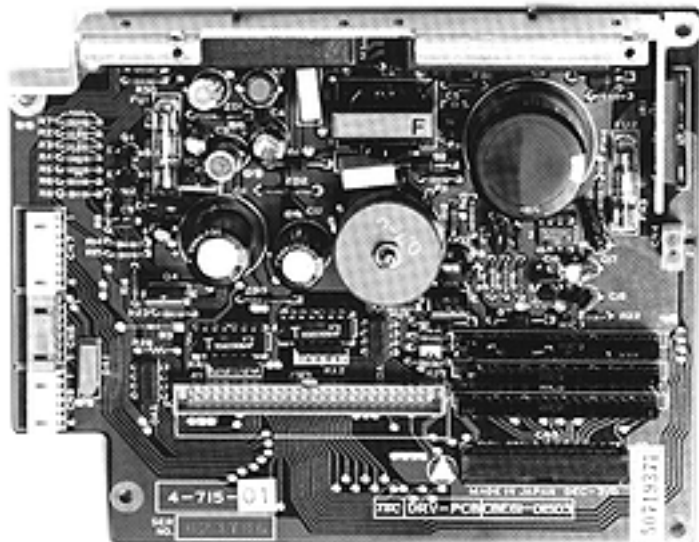
**661-0876**





ImageWriter II Drive Board

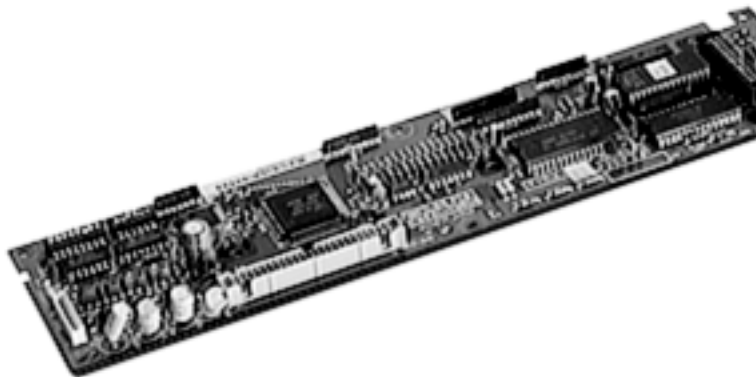
661-0303





# ImageWriter II Main Logic Board

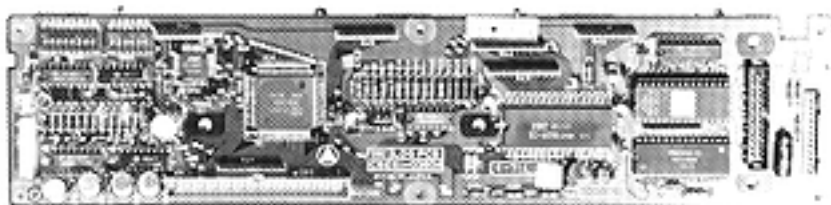
661-0413





# ImageWriter II Main Logic Board

661-0304

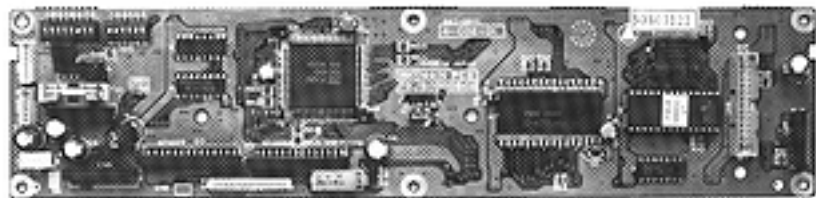






ImageWriter II/L Main CPU PCB

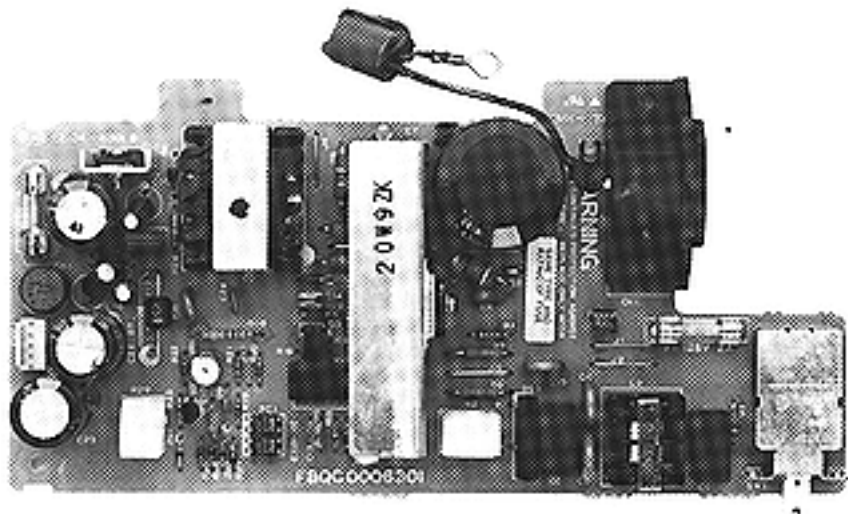
661-0581





ImageWriter II/L Power Supply Board (110/120 V)

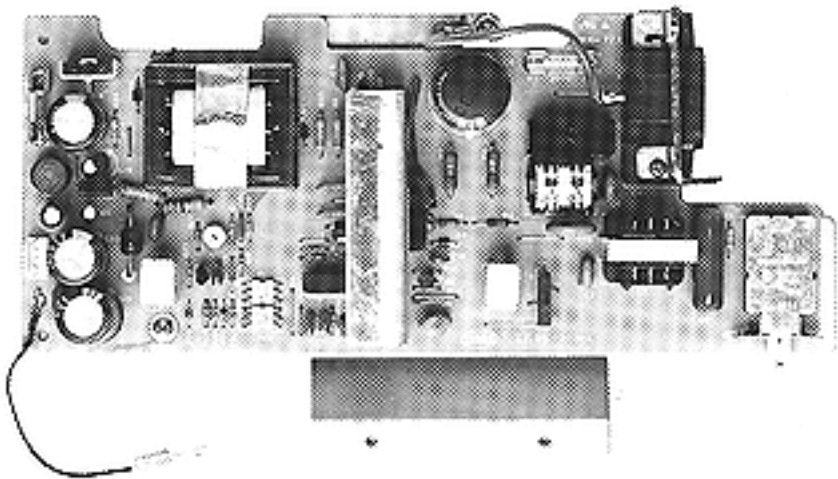
661-0582





**ImageWriter II/L Power Supply Board, 220/240 V**

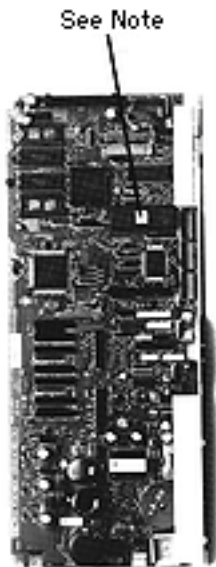
**661-1606**





# ImageWriter LQ Main Logic Board

661-0563

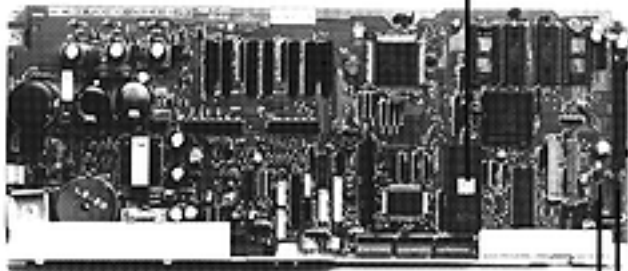




# ImageWriter LQ Main Logic Board

661-0404

ROM rev



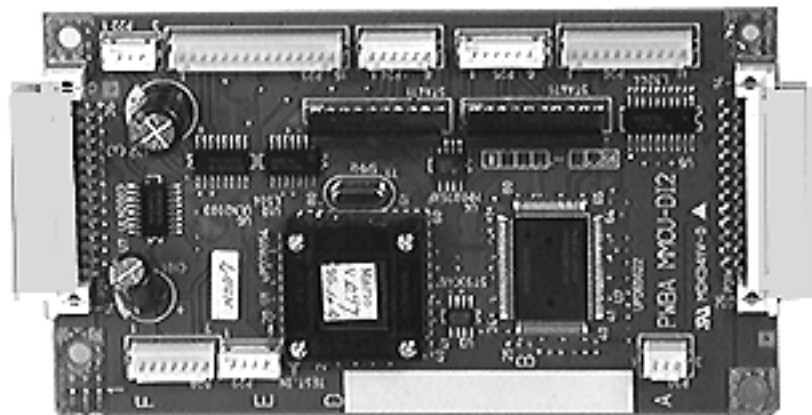
Resistors





## LaserWriter 12/640 PS, Board, DC Controller

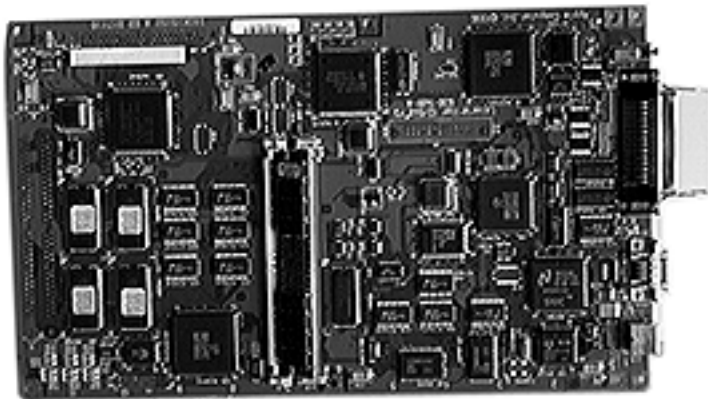
661-1096



**LaserWriter 12/640 PS, Board, I/O Controller****661-1095**

The I/O controller board ships without SIMMs and bracket.

Remove the SIMMs and bracket from the defective board and reinstall them onto the customer's replacement board.





LaserWriter 16/600 PS DC Controller Board

661-0094

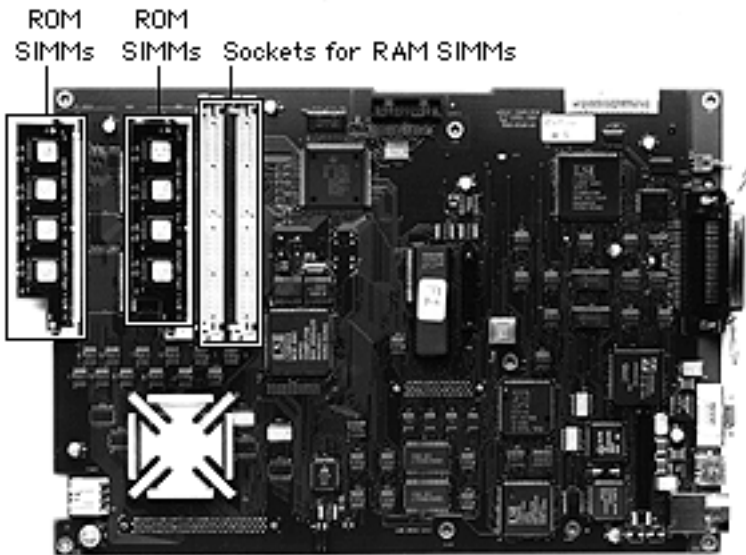






## LaserWriter 16/600 PS I/O Controller Board

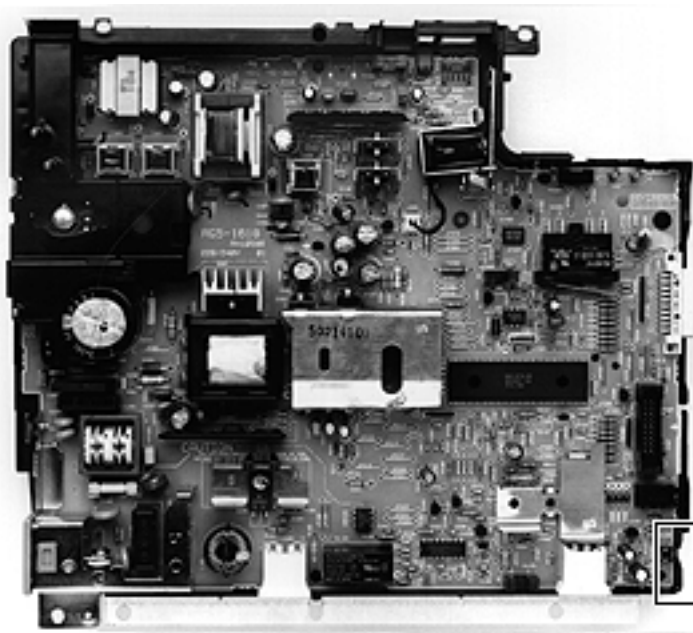
661-0090





LaserWriter 4/600 PS Controller Assembly, 110/115 V

661-0201



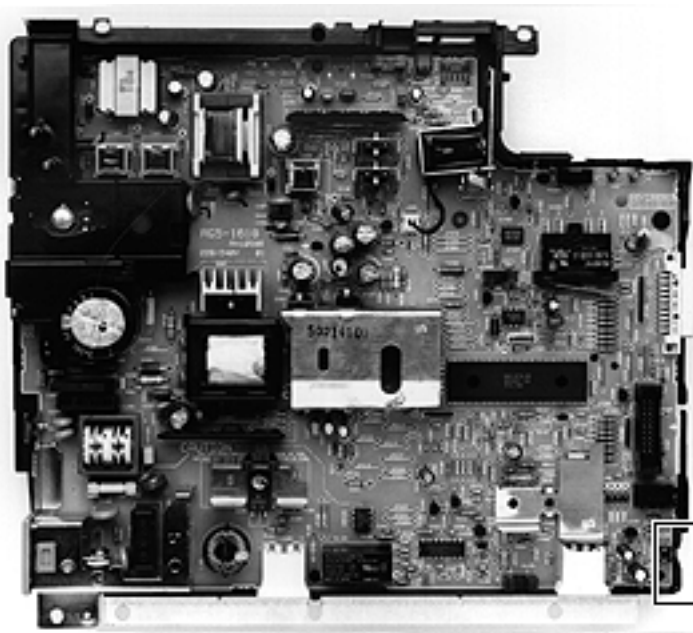
External  
Test  
Print  
Switch





LaserWriter 4/600 PS Controller Assembly, 220/240 V

661-0203



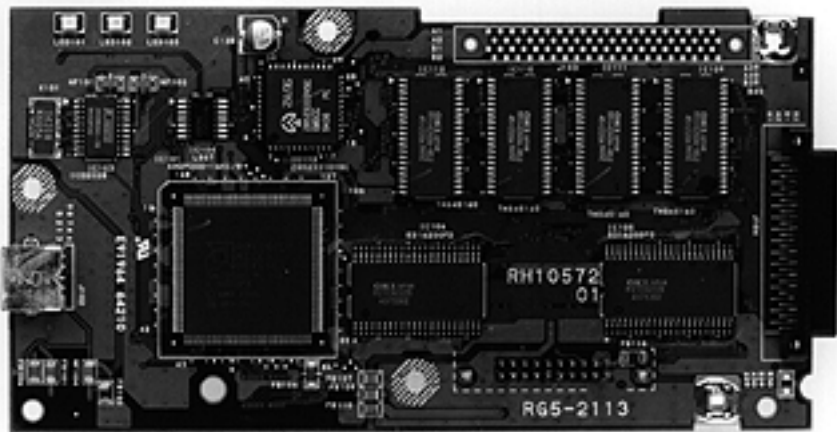
External  
Test  
Print  
Switch





LaserWriter 4/600 PS I/O Board

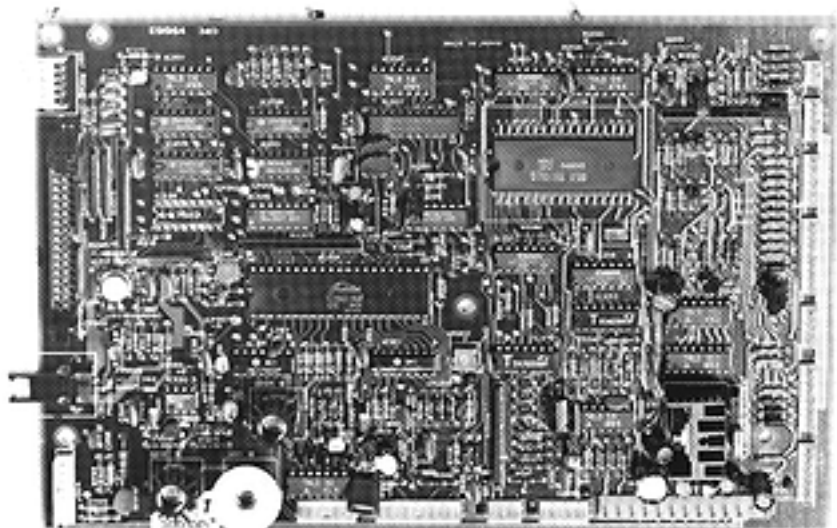
661-0200





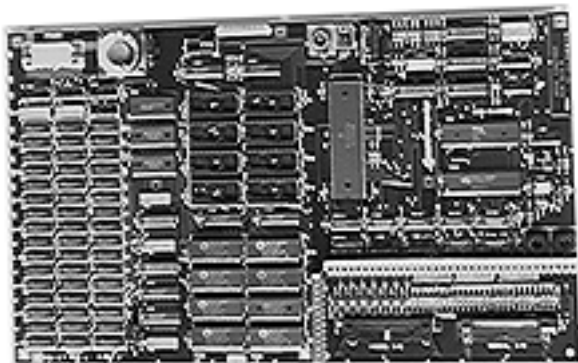
**LaserWriter DC Controller Board**

**661-0267**



**LaserWriter I/O Board****661-0436**

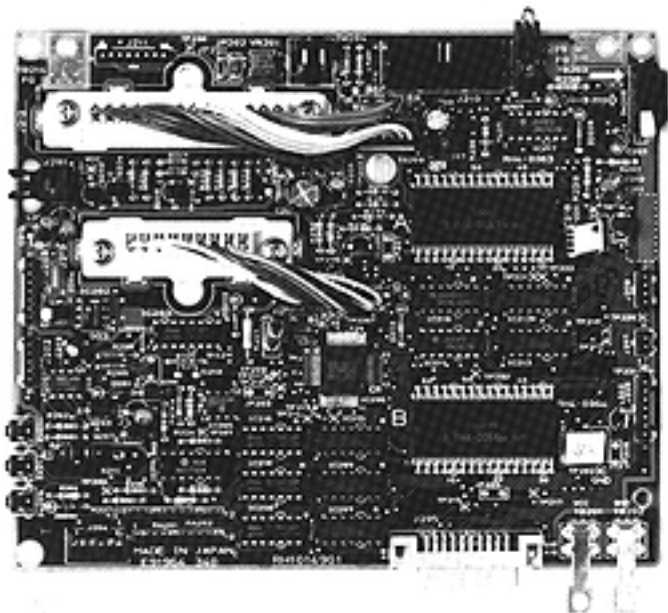
This board has eight  
512K ROMs or four  
1MB ROMs.





LaserWriter II DC Controller Board

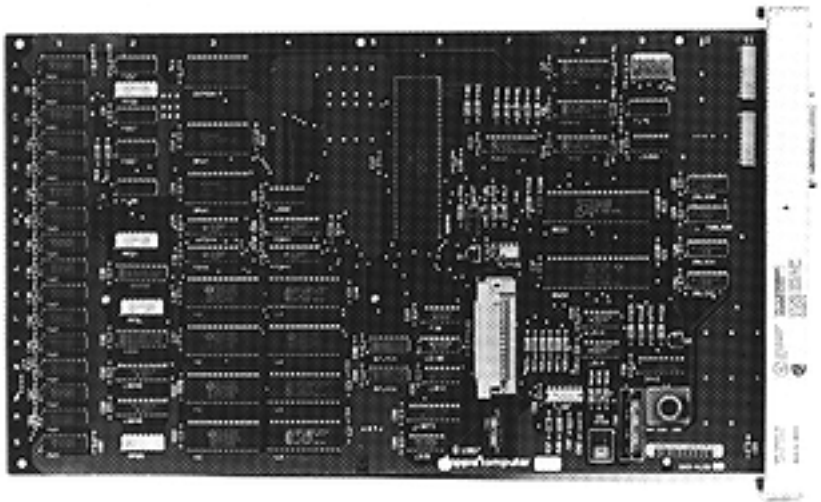
661-0426



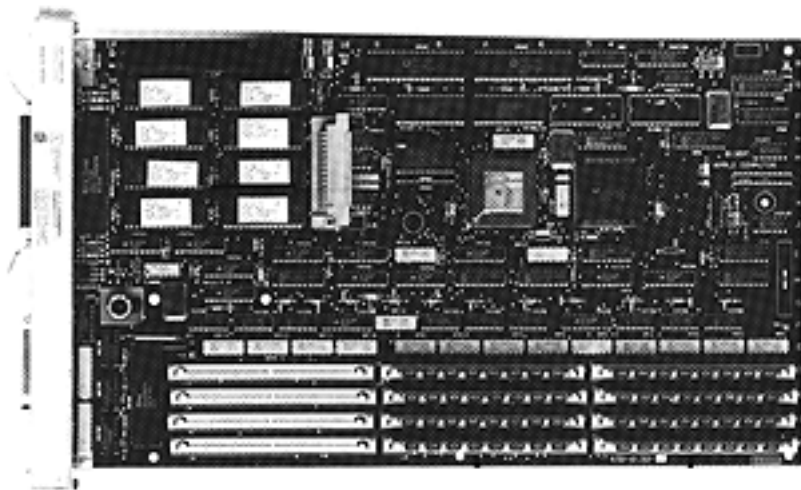


# LaserWriter II NT Board

661-0438





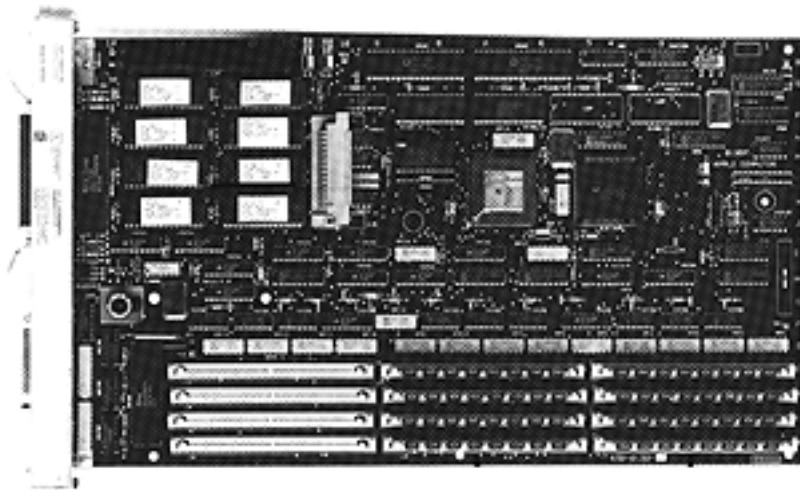
**LaserWriter II NTX Board****661-0429**

The marketing number on the bracket label can be M6004 or M6004/A.

Apple P/N on ROMs must be 34x-0560 through 34x-0567 (where x=1 or 2). If ROMs are 34x-0711 through 34x-0718, see module P/N 661-1605.

You must return the eight 256K SIMMs with this board.



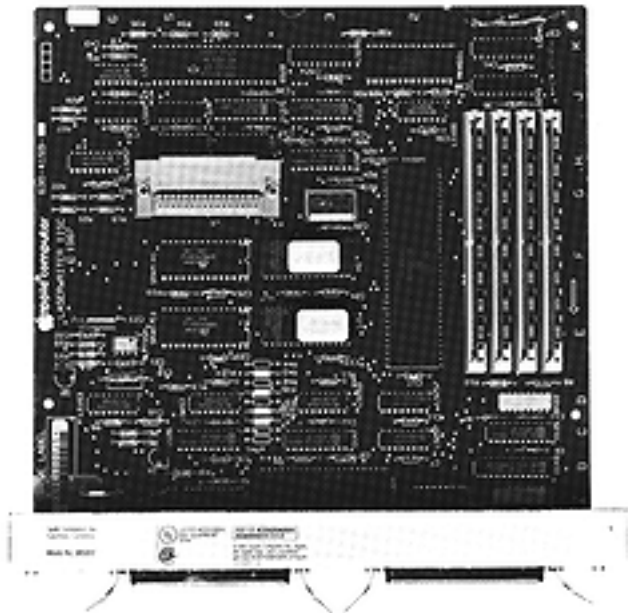
**LaserWriter II NTX I/O Board (Rev. 3.0)****661-1605**

The marketing number on the bracket label can be M6004 or M6004/A.

Apple P/N on ROMs must be 34x-0711 through 34x-0718 (where x=1 or 2). If ROMs are 34x-0560 through 34x-0567, see module P/N 661-0429.

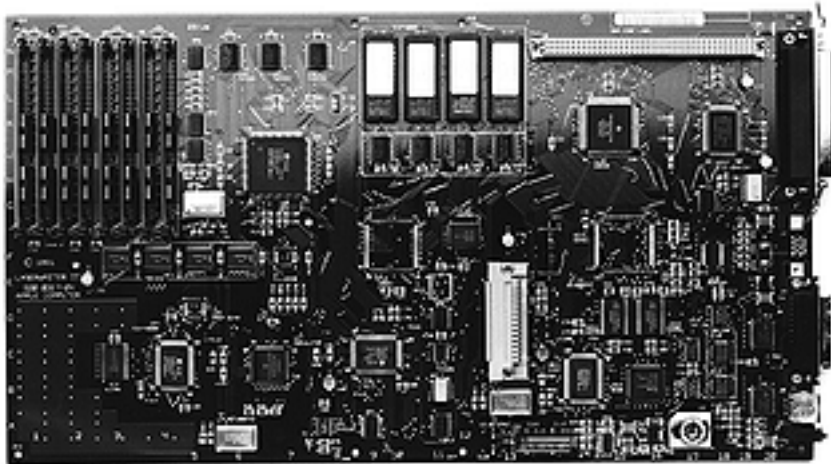
You must return the eight 256K SIMMs with this board.



**LaserWriter II Serial Controller Board****661-0428**

You must return the  
four 256K SIMMs with  
this board.

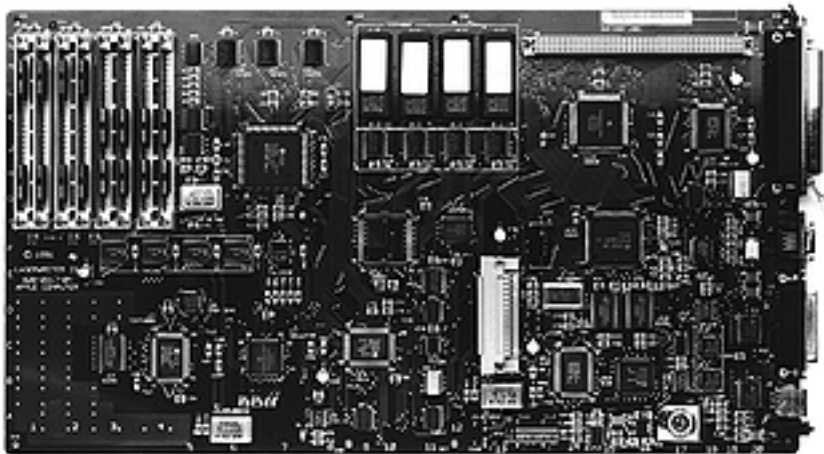


**LaserWriter IIx I/O Board, SIMM-less****661-0776**

When you return P/N 661-0662 or P/N 661-0770, Apple ships you P/N 661-0776.

Because replacement I/O boards do not come with a bracket assembly, you must retain the bracket assembly for use on the replacement I/O board. Do not return the bracket assembly to Apple.

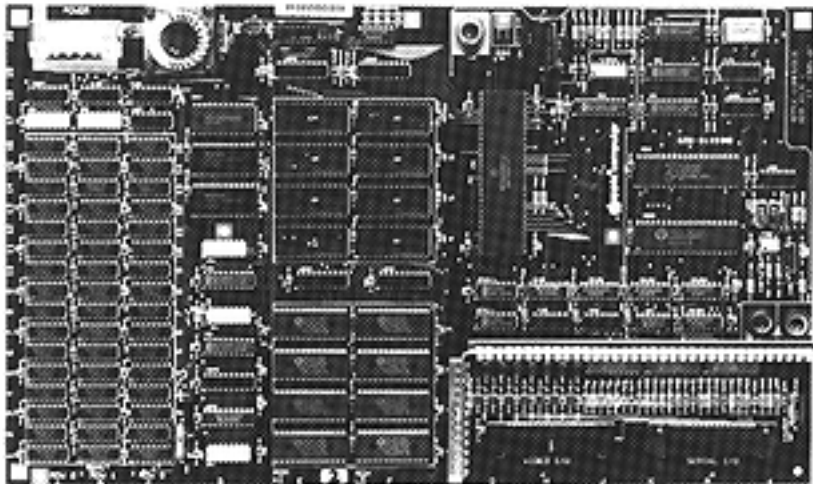


**LaserWriter IIg I/O Board, SIMM-less****661-0775**

When you return P/N 661-0661 or P/N 661-0769, Apple ships you P/N 661-0775.

Because replacement I/O boards do not come with a bracket assembly, you must retain the bracket assembly for use on the replacement I/O board. Do not return the bracket assembly to Apple.



**LaserWriter Plus I/O Board****661-0437**

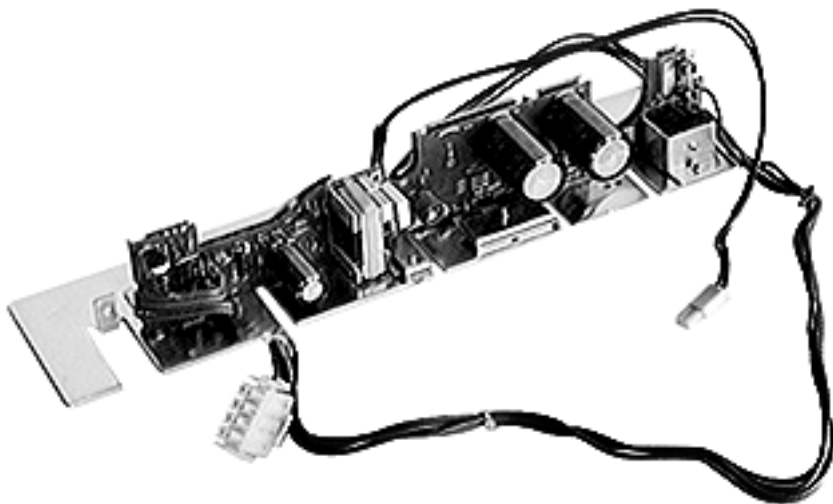
This board has sixteen  
512K ROMs or eight  
1MB ROMs.





**LaserWriter Power Supply, I/O PCB Assembly**

**661-0323**

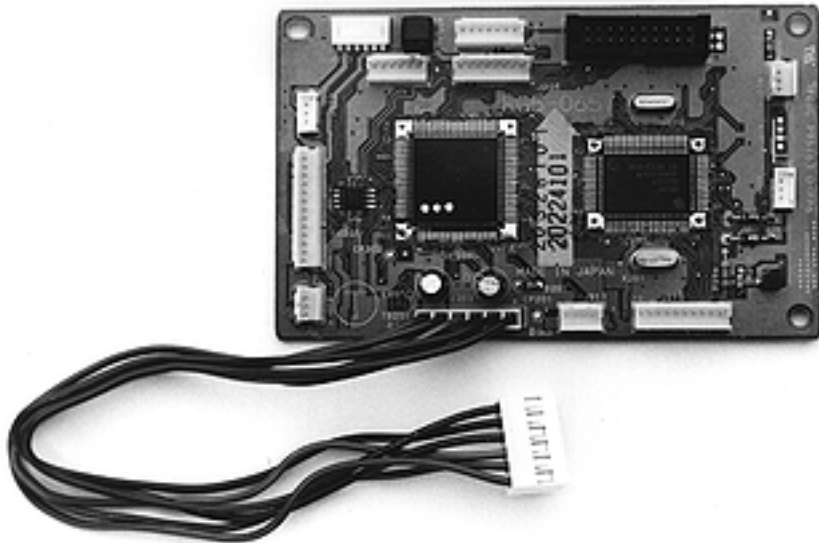


**LaserWriter Pro 600 I/O Board****661-0799**

The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.





**LaserWriter Pro 600/630 DC Controller Board****661-0807**

The LaserWriter Pro 600/630 DC controller board and the LaserWriter 16/600 PS DC controller board (P/N 661-0094) are similar. This LaserWriter Pro 600/630 DC controller board has the vendor number RG5-0657; the LaserWriter 16/600 PS controller board has the vendor number RG1-3395.



**LaserWriter Pro 630 I/O Board****661-0800**

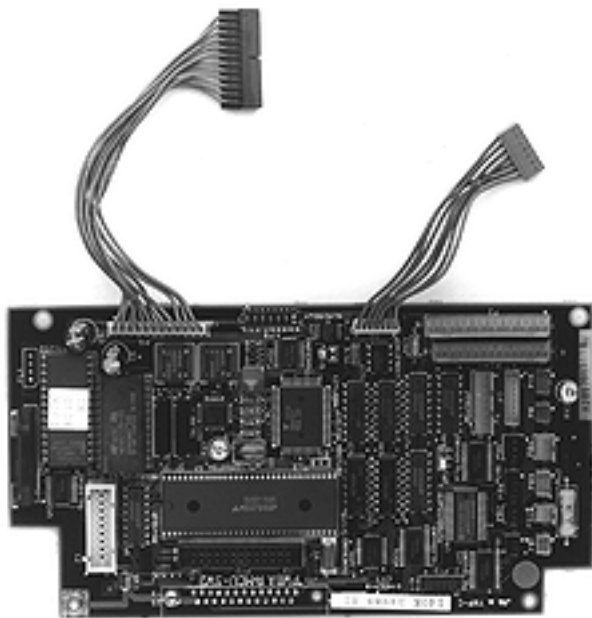
The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.





LaserWriter Pro 810 DC Controller Board

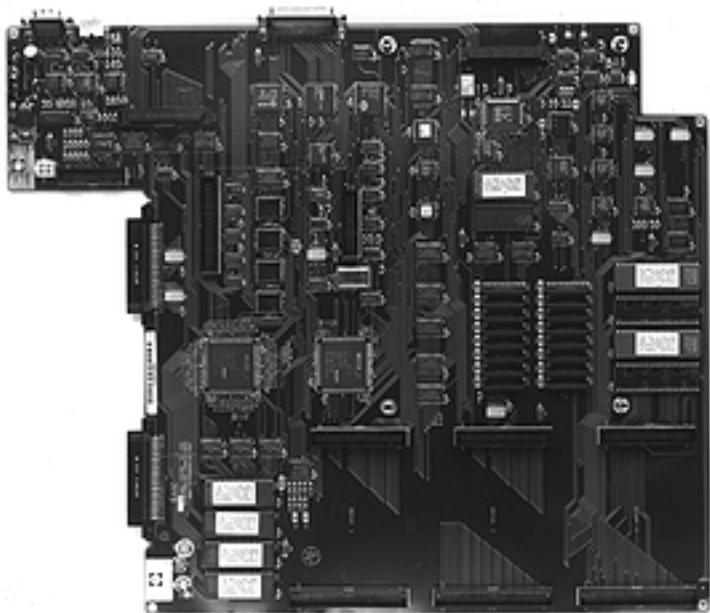
661-0833





**LaserWriter Pro 810 I/O Controller Board**

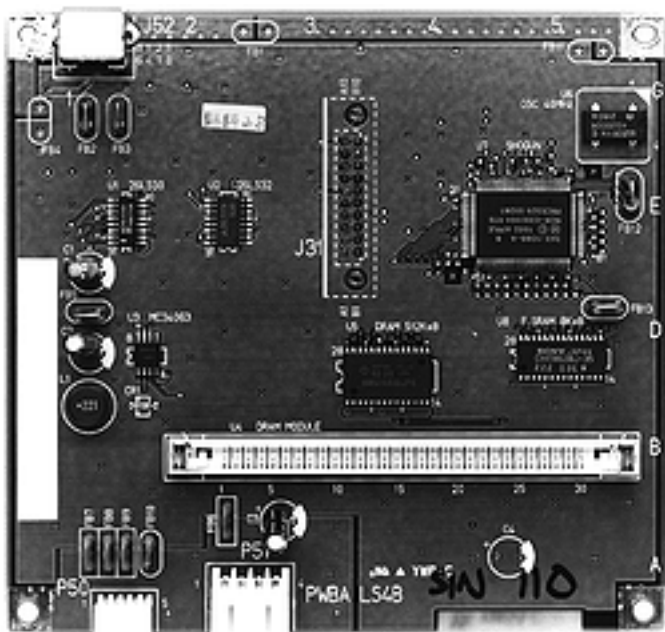
**661-0842**





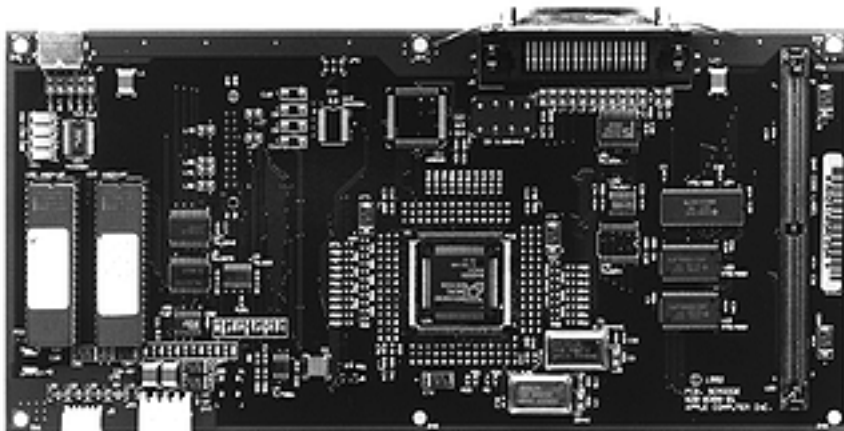
## LaserWriter Select 300 I/O Board

661-2000



The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.



**LaserWriter Select 310 I/O Board****661-2001**

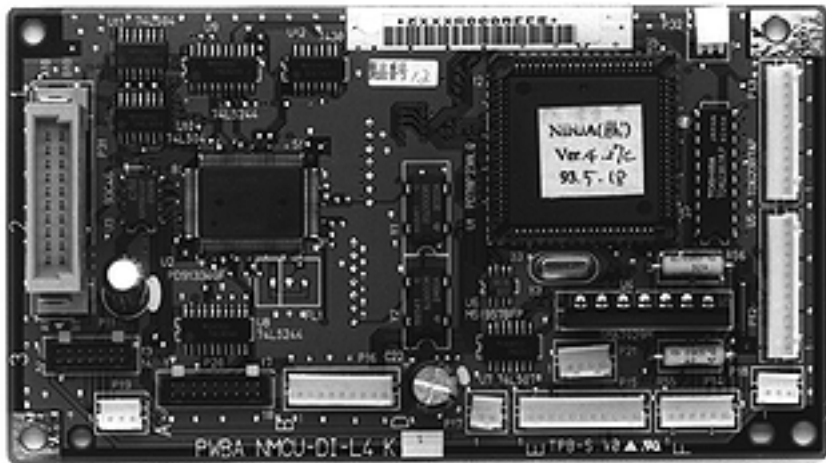
The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.





LaserWriter Select 360 DC Controller Board

661-0821

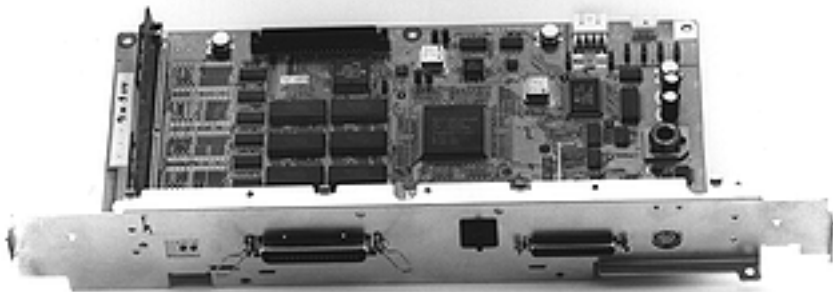




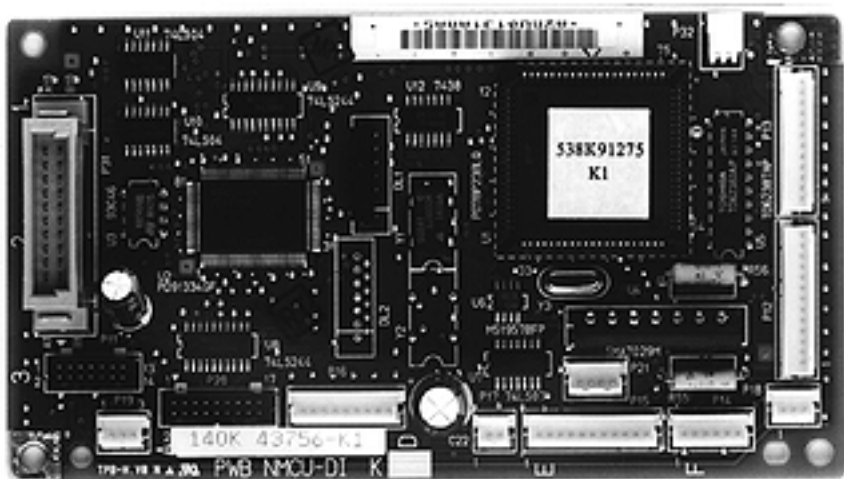
## LaserWriter Select 360 I/O Controller Board

661-0820

Return the I/O controller board with RAM SIMM installed.

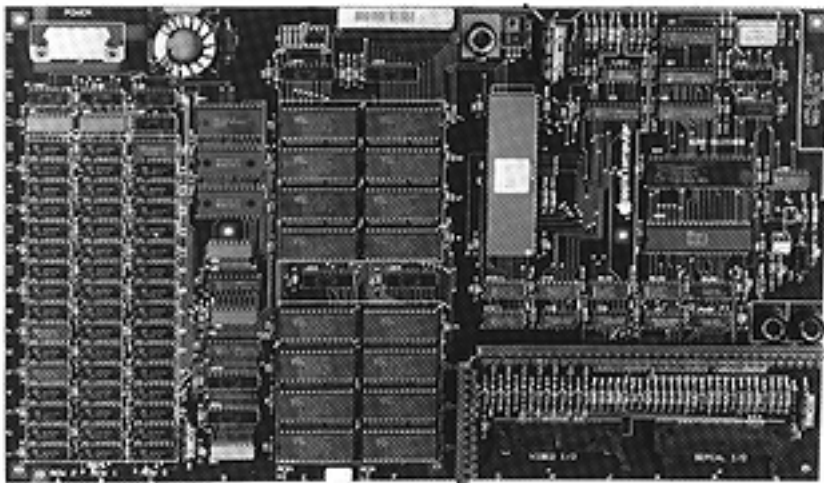




**LaserWriter Select DC Controller Board****661-2002**

This LaserWriter Select DC Controller Board and the LaserWriter Select 360 DC Controller Board (P/N 661-0821) are similar. This DC controller board has the vendor number PWB NMCU-DI. The LaserWriter Select 360 DC controller board has the vendor number PWBA NMCU-DI-L4K.



**LaserWriter/LaserWriter Plus I/O Board (4MB)****661-0270**

When you return P/N 661-0270, Apple ships you P/N 661-0436. The replacement board comes with eight 512K ROMs or four 1 MB ROMs.

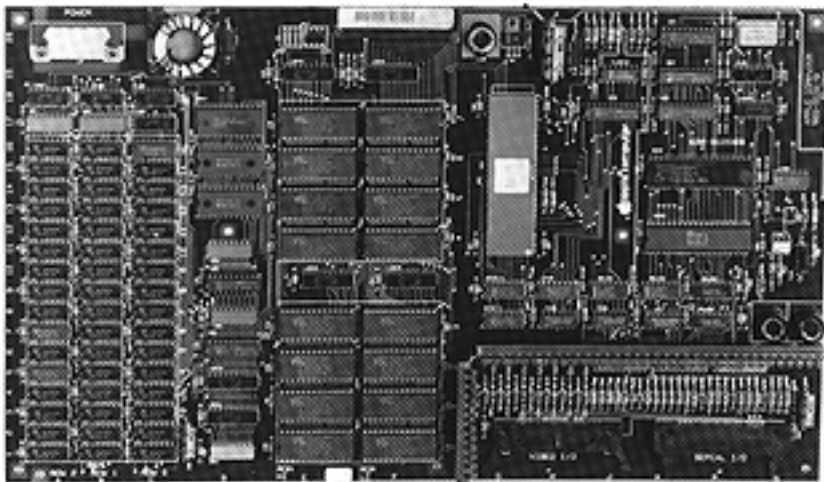
This board has sixteen 256K ROMs or eight 512K MB ROMs. The part numbers for the sixteen 256K ROMs are 34x-0297 and 34x-0309 through 34x-0323. The part





numbers for the eight 512K ROMs are 34x-0081 through 34x-0088. For all the above, x=1 or 2.



**LaserWriter/LaserWriter Plus I/O Board (8MB)****661-0324**

This board has sixteen 512K ROMs. The part numbers for the sixteen 512K ROMs are 34x-0089 through 34x-0104. For all the above, x=1 or 2.

When you return P/N 661-0324, Apple ships you P/N 661-0437. The replacement board comes with sixteen 512K ROMs or eight 1 MB ROMs.



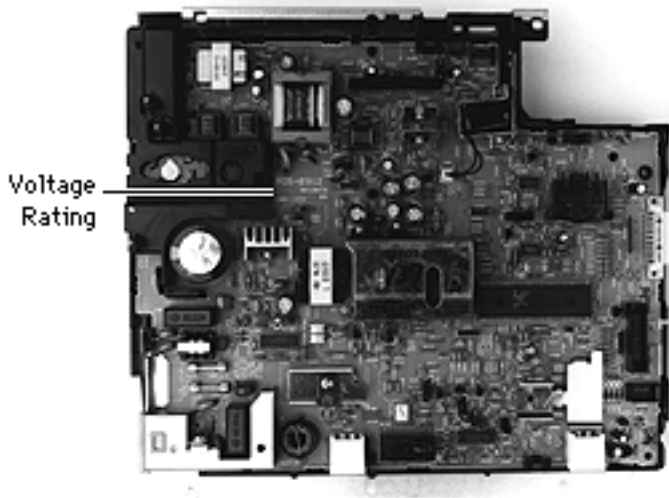
**Personal LaserWriter 300 Controller Assembly (240 V)****661-0028**

Voltage  
Rating



The 240 V Personal LaserWriter 300 controller assembly can be distinguished from the 120 V controller assembly by the voltage rating on the board.



**Personal LaserWriter 300 Controller Assembly, 120 V****661-0029**

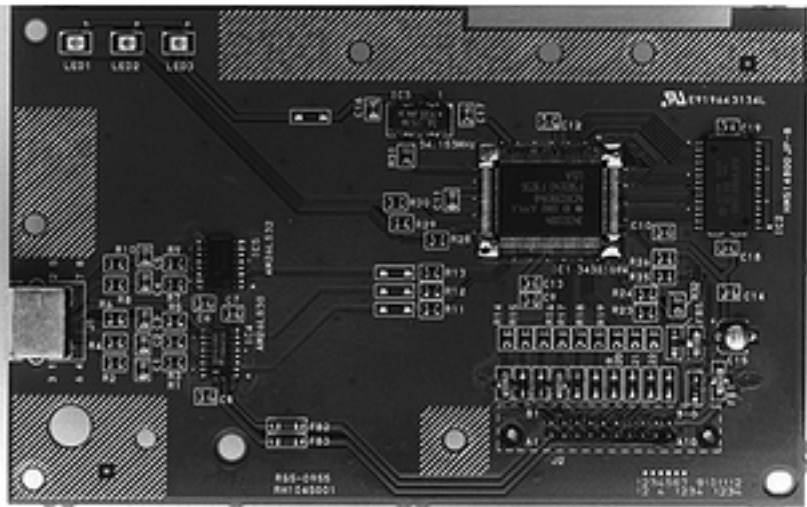
The 120 V Personal LaserWriter 300 controller assembly can be distinguished from the 240 V controller assembly by the voltage rating on the board.





Personal LaserWriter 300 I/O Board

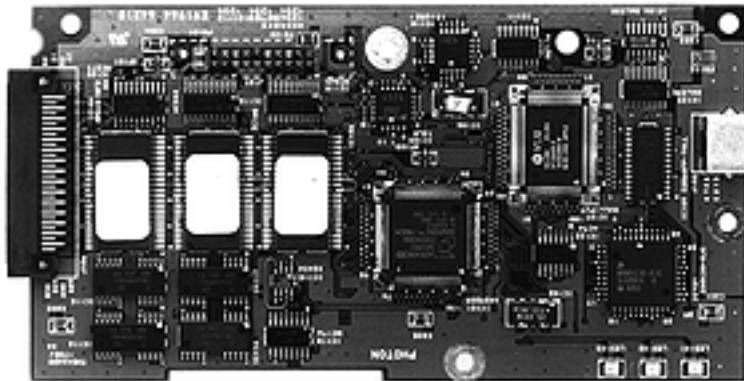
661-0030



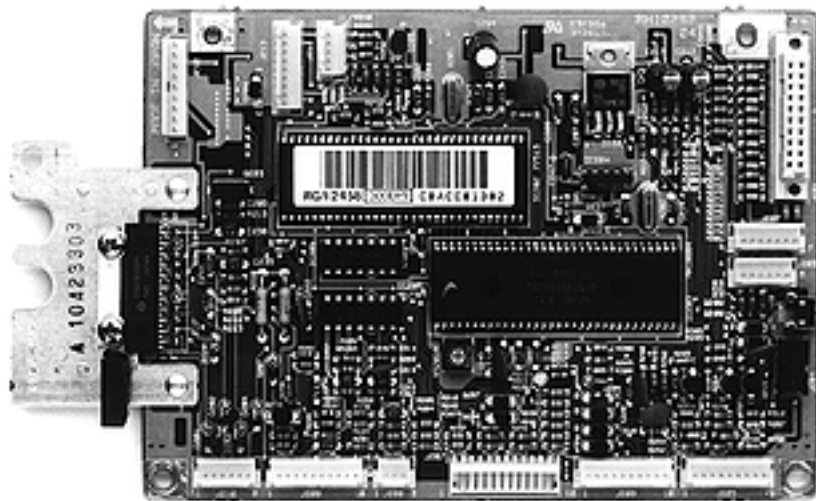


Personal LaserWriter 320 I/O Controller Board

661-0687





**Personal LaserWriter LS DC Controller Board****661-0650**

The Personal LaserWriter LS DC controller board is not approved for use on other Apple Personal LaserWriter printers.

Do not interchange DC controller boards between the Personal LaserWriter LS and other Personal LaserWriter printers.

The LS DC controller board has the part





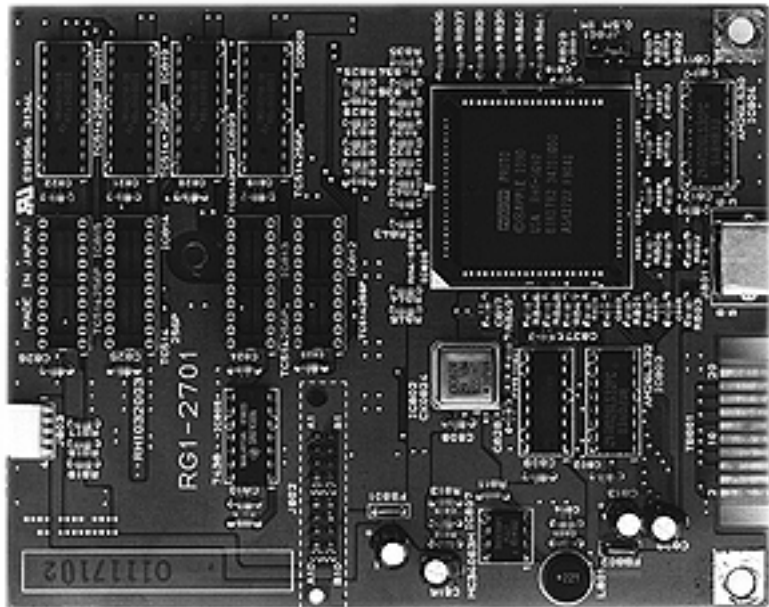
number RGI-2458 printed on the board.





## Personal LaserWriter LS Serial I/O Board

661-0631



Return the serial I/O board in its 512K configuration (that is, with sockets IC812 through IC815 empty).



**Personal LaserWriter LS/L Power Supply Board, 220/240 V****661-0667**

The Personal LaserWriter LS/L power supply unit is not compatible with the Personal LaserWriter LS, SC, NT, NTR.

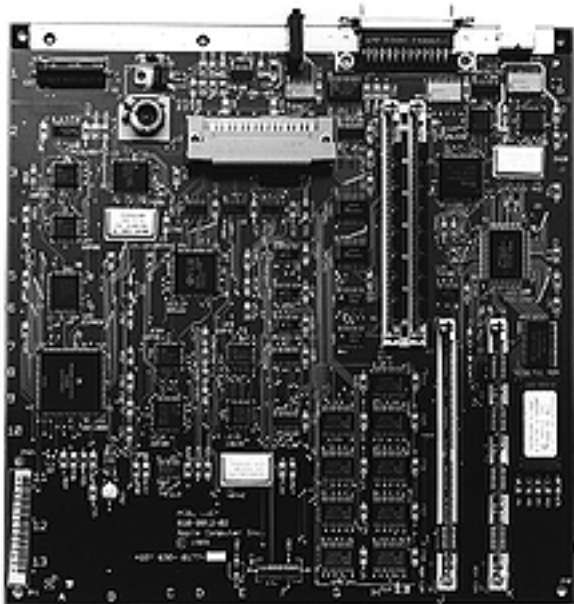
The Personal LaserWriter LS/L power supply unit has only one connector; the NT, SC, and NTR power supply units have two. Also, the power rating is lower on the Personal LaserWriter LS/L





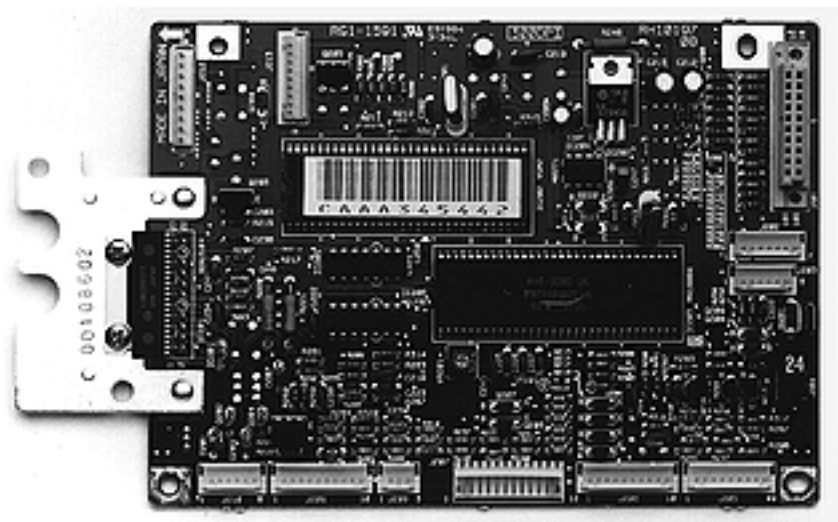
power supply unit. You can distinguish the LS/L power supply from the original LS power supply by the presence of a green 5-volt line on the Personal LaserWriter LS/L power supply.



**Personal LaserWriter NT I/O Board****661-0565**

Before you return the Personal LaserWriter NT I/O board, remove the bracket but do not remove the RAM SIMMs or the set of ROM SIMMs.

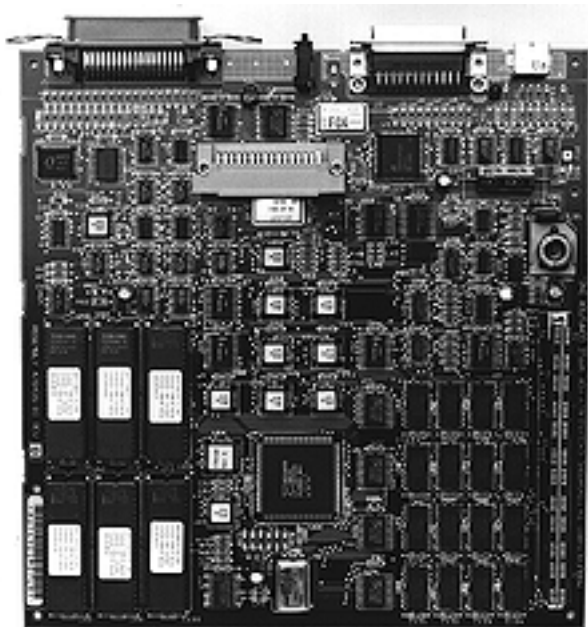


**Personal LaserWriter NT, SC, and NTR DC Controller Board****661-0567**

Remove the plastic cable and the interconnect PCB before you return the DC controller board to Apple.

This controller board is not approved for use on the Apple Personal LaserWriter LS or LS/L. This controller board has part number RGI-1591 printed on the board (near connector J213).

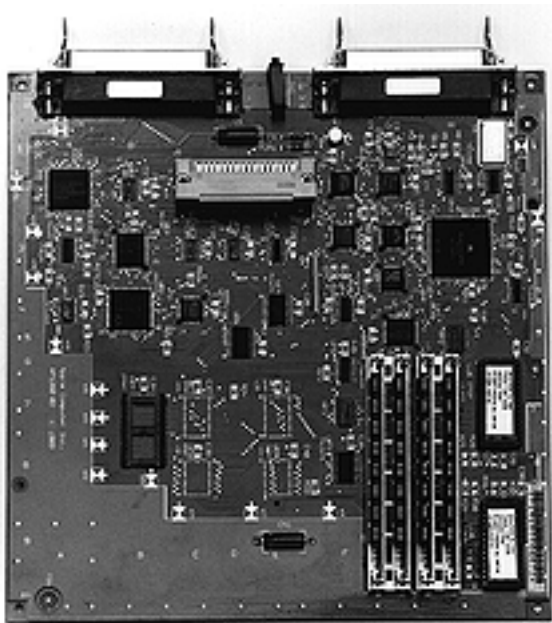


**Personal LaserWriter NTR I/O Board****661-0725**

Before you return the board, remove the bracket, but do not remove the 1 MB RAM SIMMs.





**Personal LaserWriter SC I/O Board****661-0566**

This is a SC I/O board.

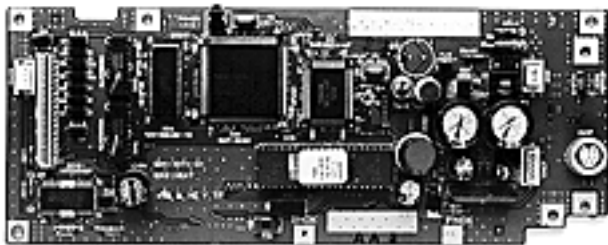
Before you return the Personal LaserWriter SC I/O board, remove the bracket but do not remove the four 256K RAM SIMMs.





**StyleWriter 1500 Logic Board**

**661-1111**

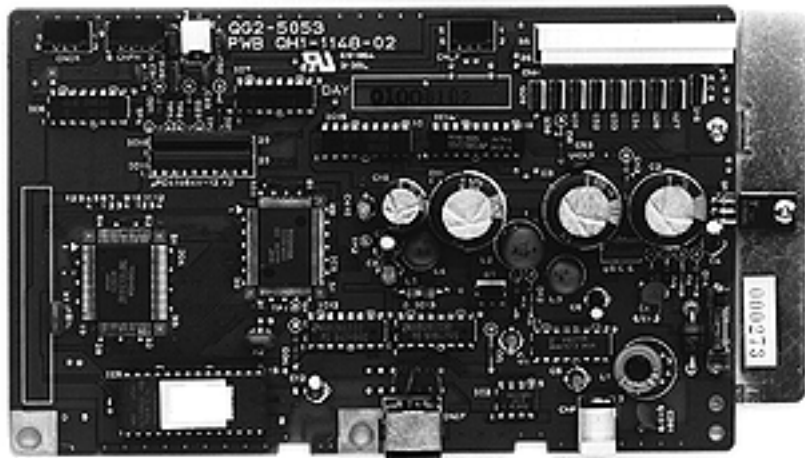




**StyleWriter 2500 Logic Board**

**661-1038**



**StyleWriter Main Logic Board (Rev. A)****661-0629**

This Rev. A main logic board and the Rev. B main logic board, although they appear identical, are not interchangeable.

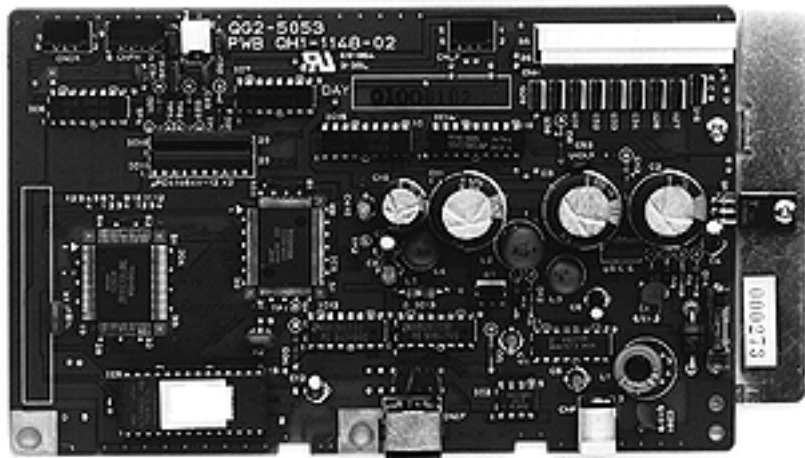
Identify them by the silkscreen part number located on the front of the board on this Rev. A board. The part number is QG2-5053. On the Rev. B board (P/N 661-0716) the silkscreen part number is QG2-2043.





For additional information refer to the StyleWriter manual on the Service Source CD.



**StyleWriter Main Logic Board (Rev. B)****661-0716**

This Rev. B main logic board and the Rev. A main logic board, although they appear identical, are not interchangeable.

Identify them by the silkscreen part number located on the front of the board. On the Rev. A board P/N (661-0629) the silkscreen part number is QG2-5053.

On this Rev. B board, the





silkscreen part number is QG2-2043. For additional information refer to the StyleWriter manual on the Service Source CD.





Printers

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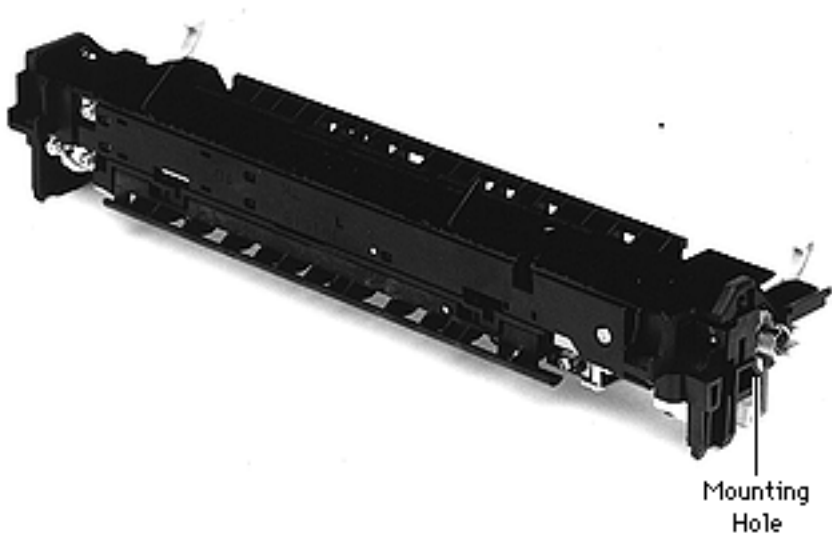
Fuser/Transfer Components

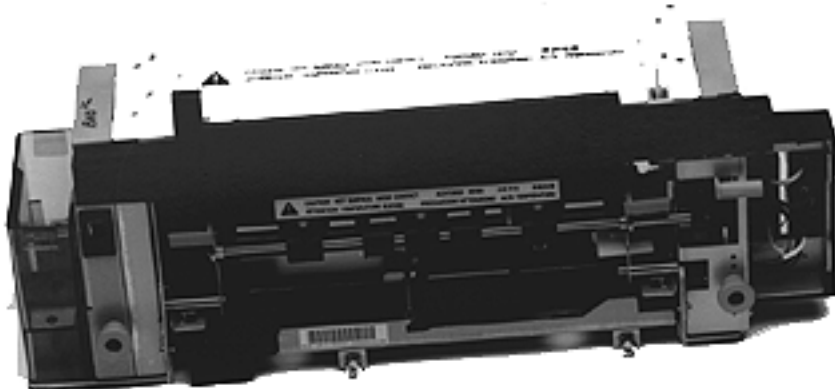




**Apple Personal LaserWriter Fuser (220/240 V)****661-0575**

The mounting hole must be in the position shown.



**Color LaserWriter 12/600 PS Fuser Assembly, 110 V****661-0900**

The voltage designation for the fuser assembly, 110 V, is located on the bar code label.

Before returning the fuser to Apple be sure to extract all the oil and insert foam stopper in oil well, as instructed in Service Source. Do NOT return the oil bottle.

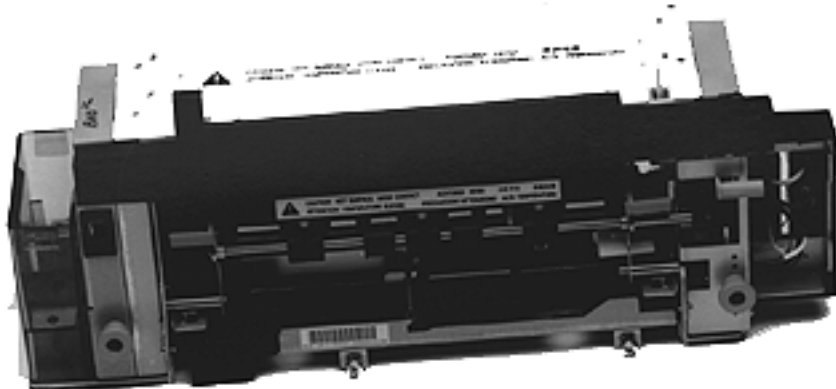
Use only the special packaging that comes with the exchange





module. Failure to use special packaging may result in a packaging noncompliance charge.



**Color LaserWriter 12/600 PS Fuser Assembly, 220 V****661-0901**

The voltage designation for the fuser assembly, 220 V, is located on the bar code label.

Before returning the fuser to Apple be sure to extract all the oil, and insert foam stopper in oil well, as instructed in Service Source. Do NOT return the oil bottle.

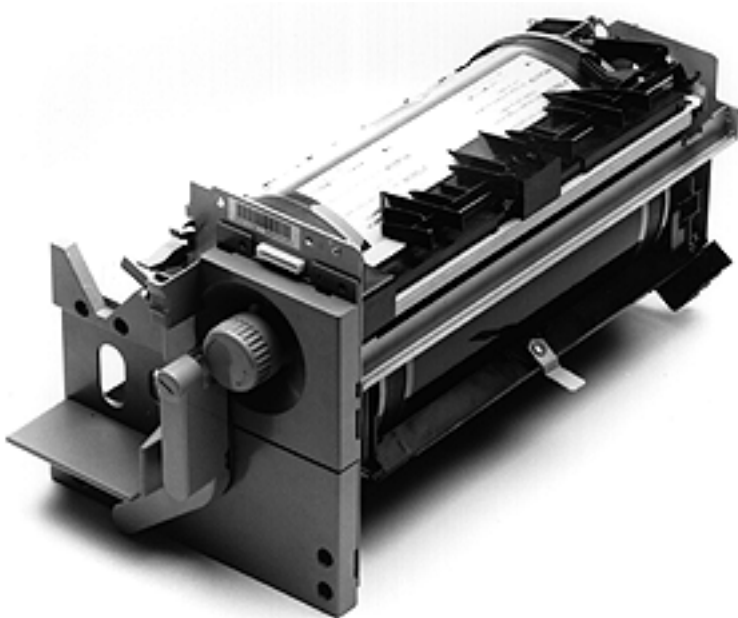
Use only the special packaging that comes with the exchange





module. Failure to use special packaging may result in a packaging noncompliance charge.

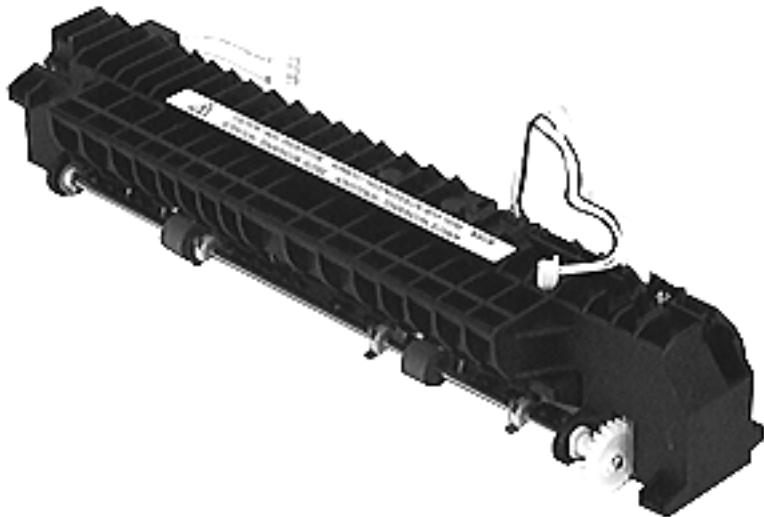


**Color LaserWriter 12/600 PS Transfer Drum Assembly****661-0906**

Use the cotton gloves provided with the exchange module when handling the assembly. Do NOT touch the transfer drum. Use only the special packaging that comes with the exchange module.

Failure to use special packaging may result in a packaging noncompliance charge.

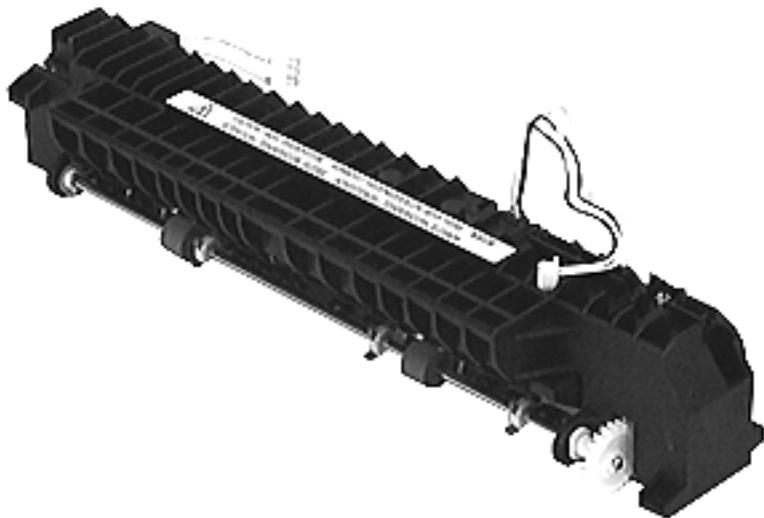


**LaserWriter 12/640 PS, Fuser Assembly (110V)****661-1098**

The fuser pressure roller is not included in the fuser assembly but is available separately as part of the fuser pressure roller kit (P/N 076-0537).

A label designating 110 or 220 voltage appears on the fuser assembly.



**LaserWriter 12/640 PS, Fuser Assembly (220V)****661-1099**

The fuser pressure roller is not included in the fuser assembly but is available separately as part of the fuser pressure roller kit (P/N 076-0537).

A label designating 110 or 220 voltage appears on the fuser assembly.



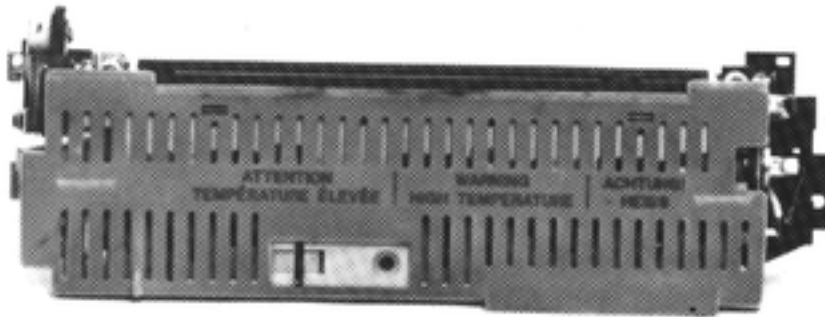




**LaserWriter Fuser Assembly, 115 V**

**661-0450**

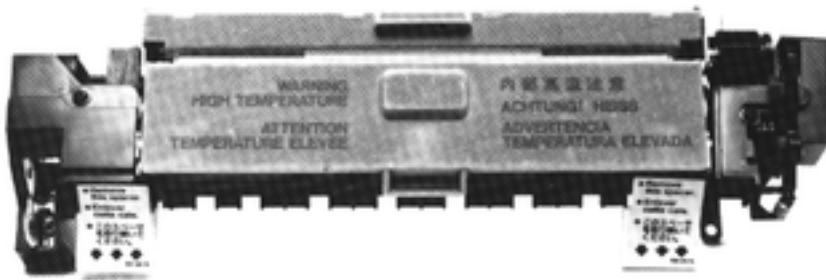
Remove the cleaning belt before returning the fuser assembly to Apple.





# LaserWriter II Fuser Assembly (220/240 V)

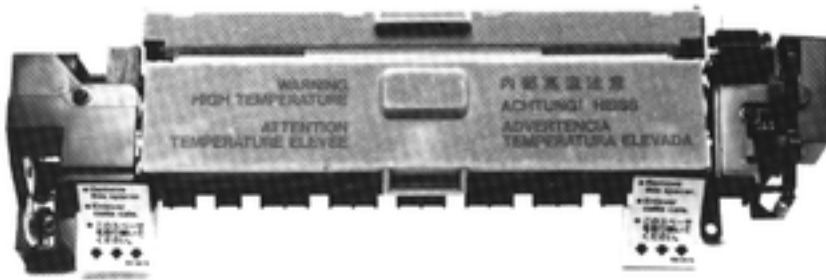
661-0444





LaserWriter II Fuser Assembly, 110 V

661-0440



**LaserWriter Pro 600/630 Fuser Assembly, 110/115 V****661-0805**

The LaserWriter Pro 600/630 fuser assemblies (P/Ns 661-0805 and 661-0806) and the LaserWriter 16/600 PS fuser assemblies (P/Ns 661-0091 and 661-0092) are similar.

The LaserWriter Pro 600/630 fuser assembly has two small metallic levers on each side of the fuser. The LaserWriter 16/600





PS fuser assembly has two large green plastic levers. Please return the fuser assembly with the pressure roller levers in the up position.





LaserWriter Pro 600/630 Fuser Assembly, 220/240 V

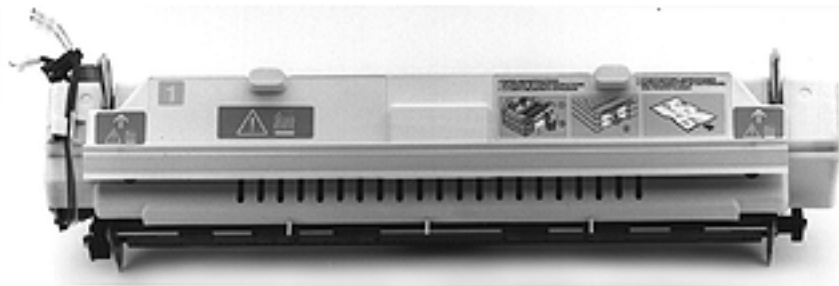
661-0806





**LaserWriter Pro 810 Fuser (110/115 V)**

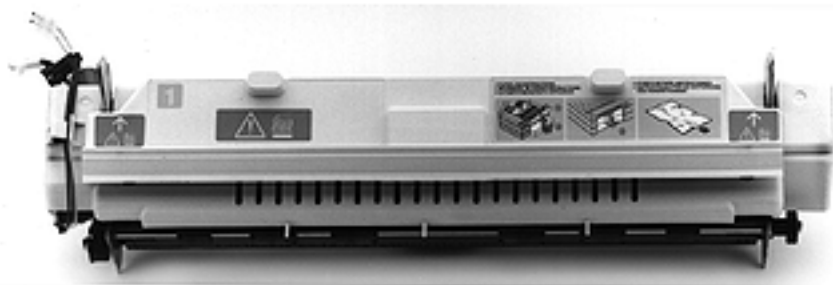
**661-0857**





**LaserWriter Pro 810 Fuser, 220 V**

**661-0858**

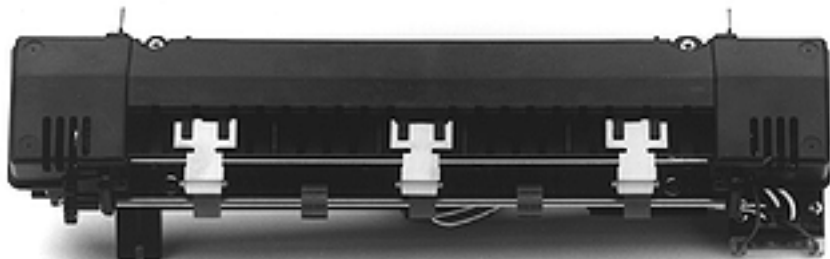






**LaserWriter Select 360 Fuser Assembly, 115 V**

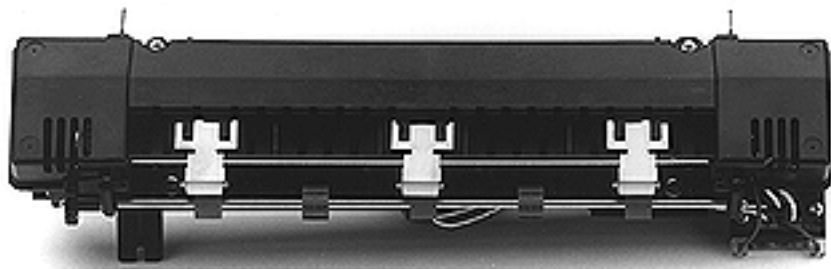
**661-0825**





**LaserWriter Select 360 Fuser, 220 V**

**661-0826**





**LaserWriter Select Fuser Assembly (110/115 V)**

**661-2008**





**LaserWriter Select Fuser Assembly (220/240 V)**

**661-2009**





**Personal LaserWriter 300/320, LaserWriter 4/600  
PS Fuser Assembly, 110V**

**661-0025**

The voltage designation, 110 V is located on the bar code label.



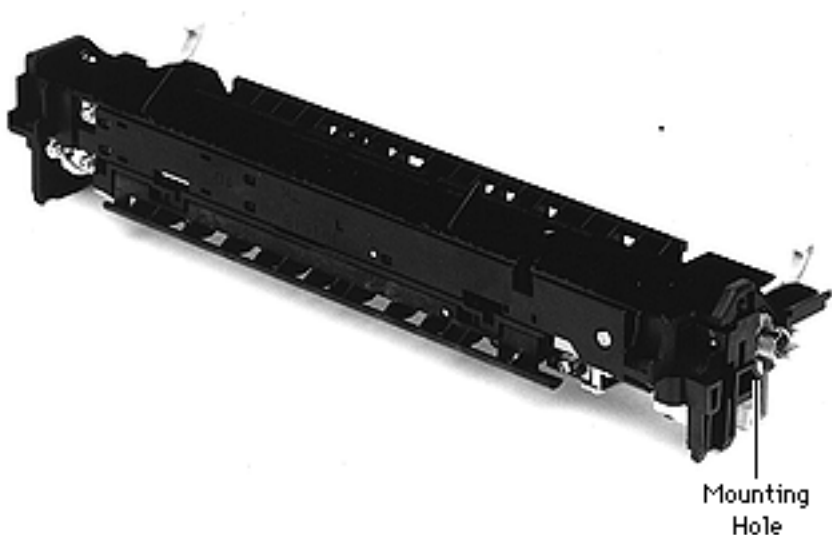


**Personal LaserWriter 300/320, LaserWriter 4/600  
PS Fuser Assembly, 220V**

**661-0026**

The voltage designation,  
220 V, is located on the  
bar code label.



**Personal LaserWriter Fuser (110/115 V)****661-0568**

The mounting hole must be in the position shown. The distance between the mounting holes should measure not more than 12" hole edge to hole edge.





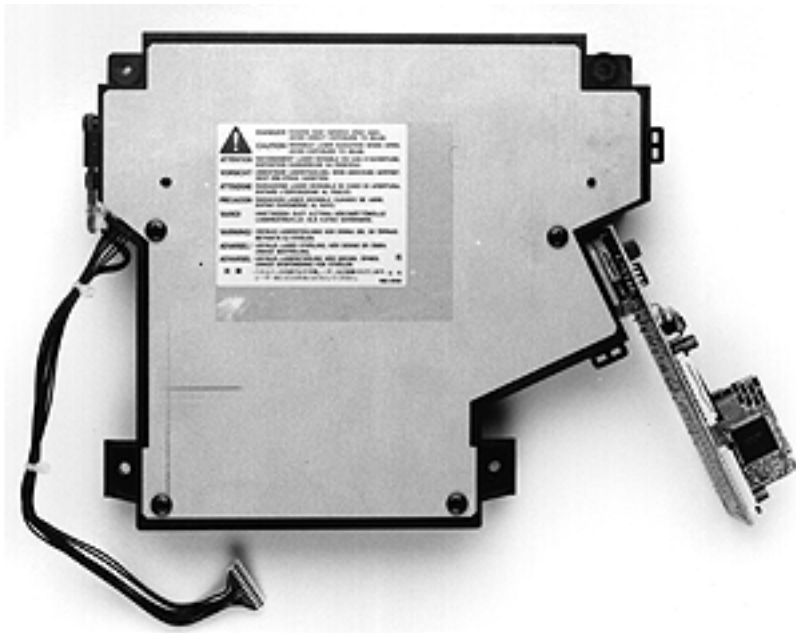
Printers

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Laser/Scanner Components





**Color LaserWriter 12/600 PS Laser/Scanner Assembly****661-0902**

Because of the delicate nature of the laser printed circuit board, use only the special packaging that comes with the exchange module. Failure to use special packaging may result in a packaging noncompliance charge.



**LaserWriter 16/600 PS Laser/Scanner Assembly****661-0093**

The LaserWriter 16/600 PS laser/scanner assembly and the LaserWriter Pro 600/630 laser/scanner assembly (P/N 661-0801) are similar.

On the LaserWriter 16/600 PS laser/scanner assembly, connector J151 is located in a square recessed area that is open on the side facing the laser circuit board.





On the LaserWriter Pro 600/630, connector J151 is located in a rectangular recessed area that is fully enclosed.



**LaserWriter 4/600 PS Laser/Scanner Assembly****661-0202**

The LaserWriter 4/600 PS laser/scanner assembly is similar to the Personal LaserWriter 300 laser/scanner assembly (P/N 661-0027). The LaserWriter 4/600 PS scanner assembly has part number RG5-0800 located on the bar code label.

The Personal LaserWriter 300 scanner assembly has



Bar Label





part number RG5-0662 located on the bar code label.

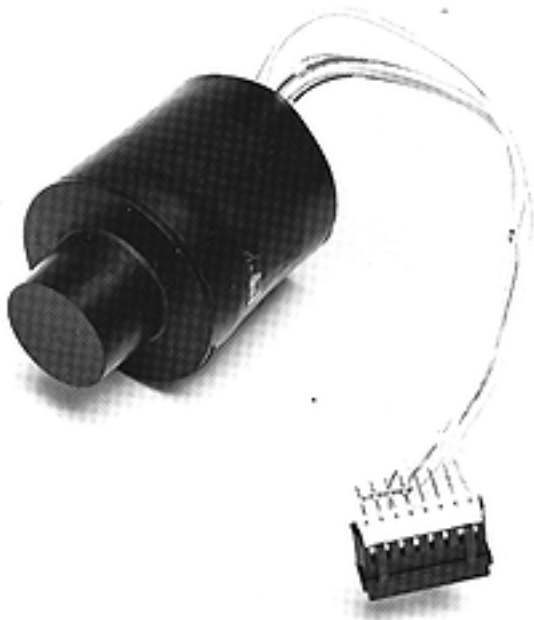




# LaserWriter II Laser/Scanner Unit

661-0423



**LaserWriter Laser Unit****661-0277**

To prevent ESD damage, use the shorting connector from the service module to short pin 4 to pin 6 before shipping the unit.



**LaserWriter Pro 600/630 Laser/Scanner Assembly****661-0801**

This LaserWriter Pro 600/630 assembly and the LaserWriter 16/600 PS laser/ scanner assembly (P/N 661-0093) are similar.

On this 600/630 laser/ scanner assembly, connector J151 is located in a rectangular recessed area that is fully enclosed.

On the Laserwriter 16/







600 PS laser/scanner assembly, connector J151 is located in a square recessed area that is open on the side facing the laser circuit board.





LaserWriter Pro 810 Laser/Scanner Unit

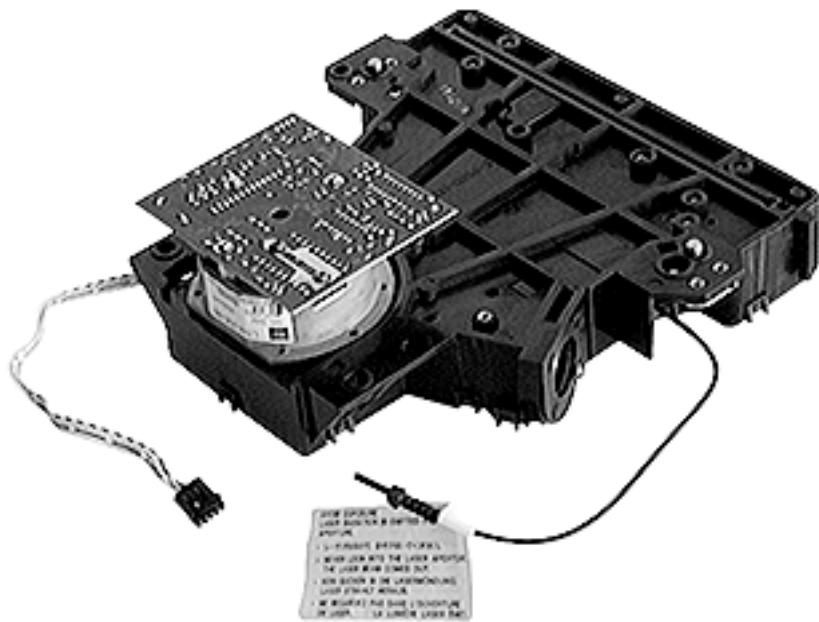
661-0865





## LaserWriter Scanner Unit, 300 dpi

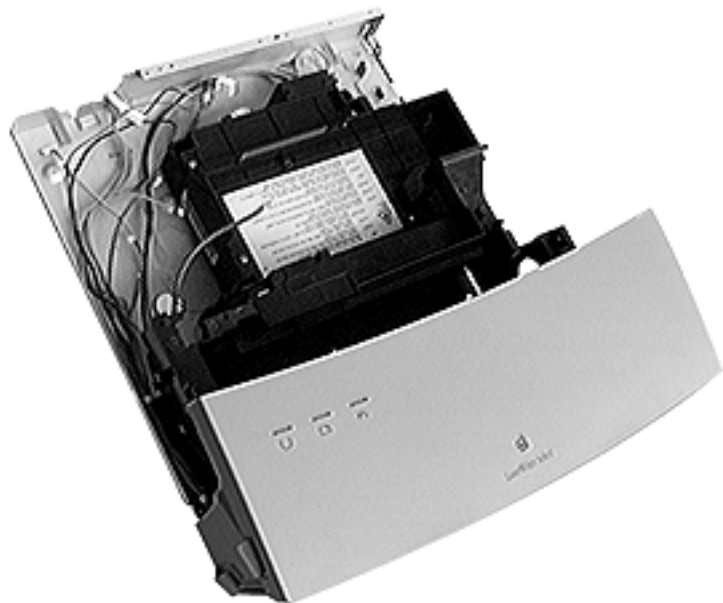
661-0278





**LaserWriter Select 360 Laser Optic Assembly**

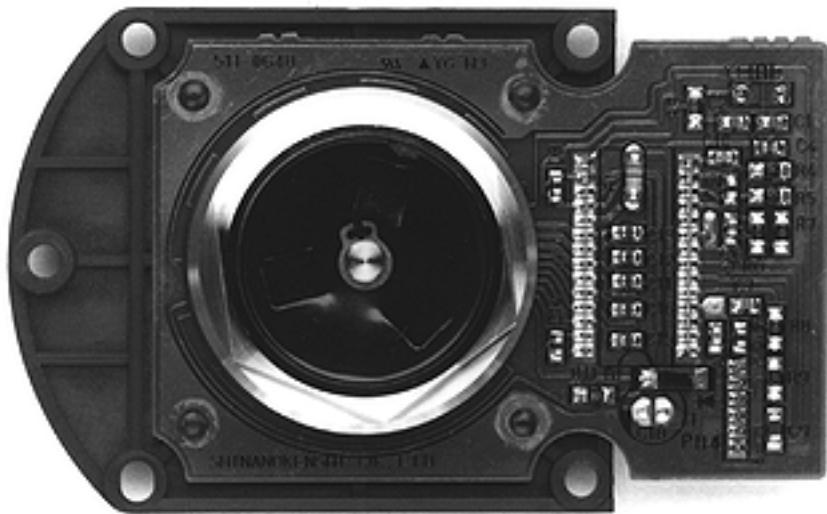
**661-0827**





# LaserWriter Select 360 Scanner Motor

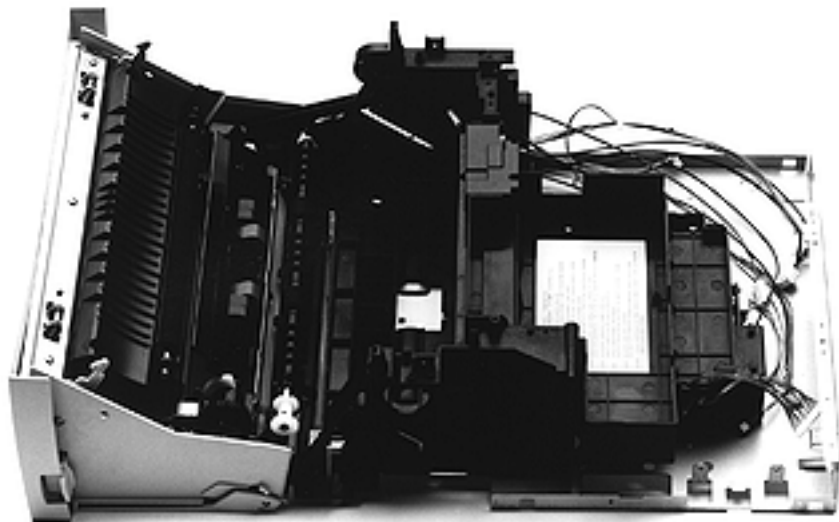
661-0828





**LaserWriter Select Laser Optic Assembly**

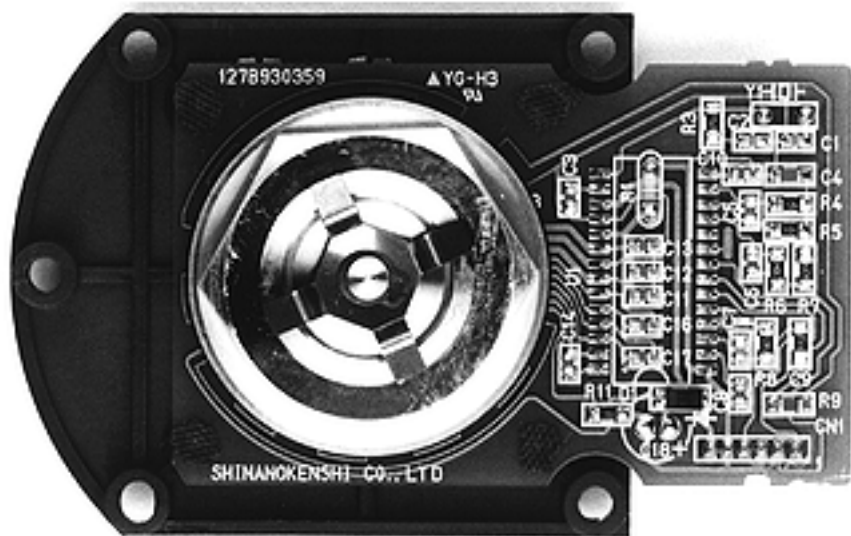
**661-2003**





LaserWriter Select Scanner Motor

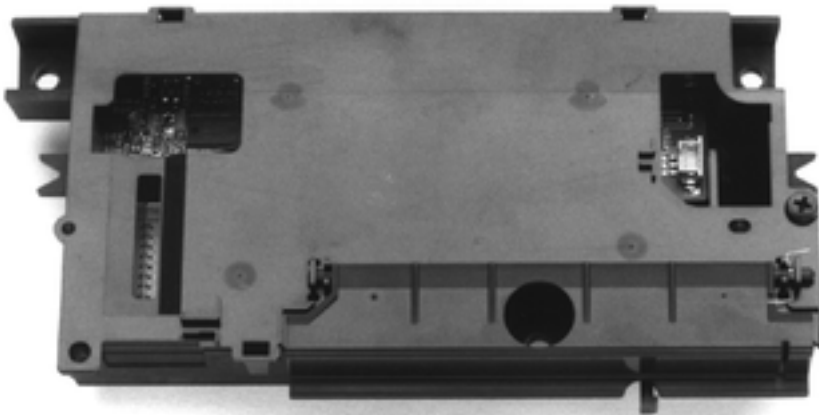
661-2004





**Personal LaserWriter 300 Laser/Scanner Assembly**

**661-0027**







Personal LaserWriter Laser Assembly

661-0571





Personal LaserWriter Scanner Assembly

661-0572





Printers

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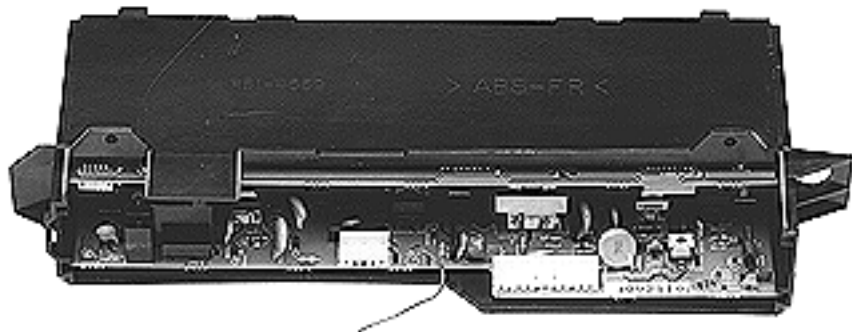
Printer Power Supplies

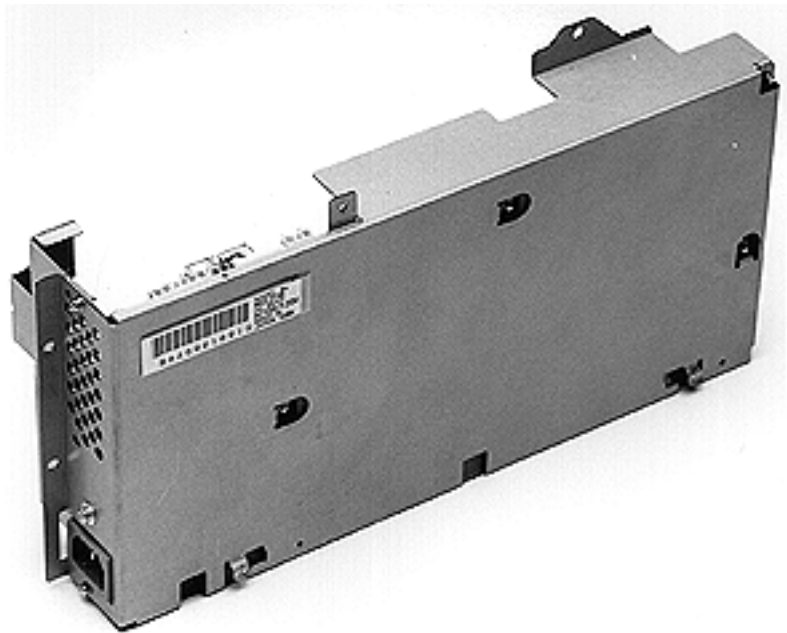




**Color LaserWriter 12/600 PS High-Voltage Power Supply**

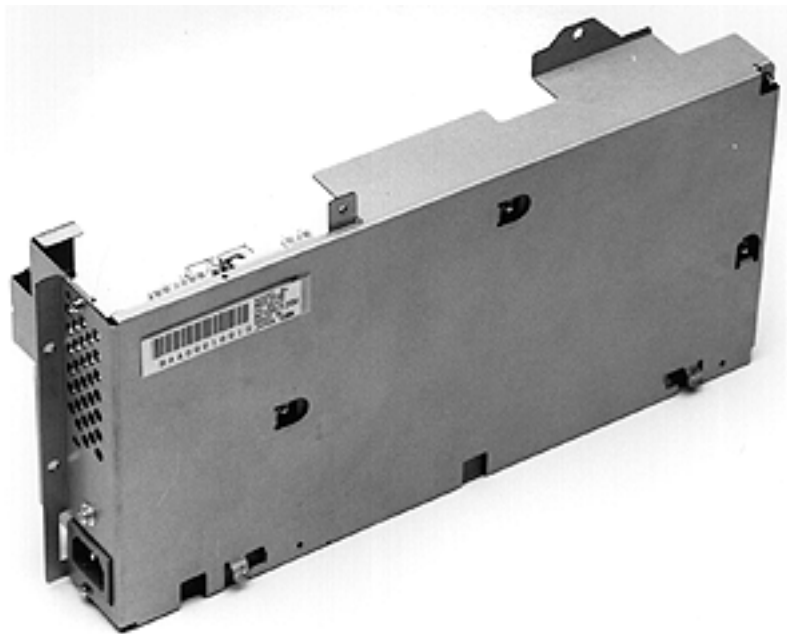
**661-0905**



**Color LaserWriter 12/600 PS Power Supply, 110 V****661-0903**

The voltage designation, 110 V, is located on the bar code label.



**Color LaserWriter 12/600 PS Power Supply, 220 V****661-0904**

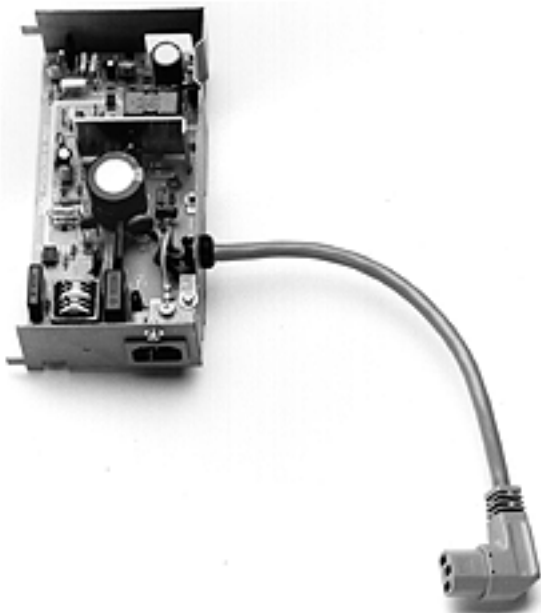
The voltage designation, 220 V, is located on the bar code label.

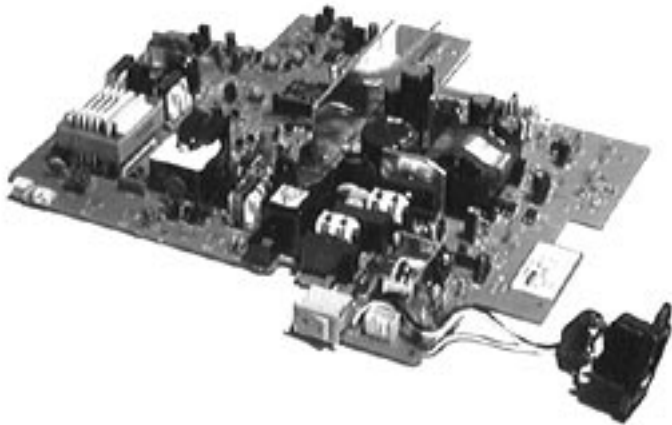




**Color LaserWriter 12/600 PS Power Supply, Sheet Feeder, Universal**

**661-0932**



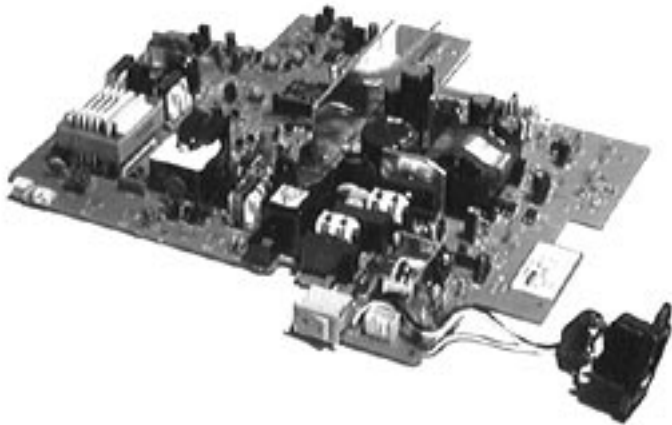
**LaserWriter 12/640 PS, Power Supply Assembly (110V)****661-1100**

The power supply assembly is a printed circuit board that contains the high-voltage power supply, top cover interlock switch, three paper sensors, the main power switch and power inlet, fan connector, and various other components.

The power supply mounting shield is not included in this part.





**LaserWriter 12/640 PS, Power Supply Assembly (220V)****661-1101**

The power supply assembly is a printed circuit board that contains the high-voltage power supply, top cover interlock switch, three paper sensors, the main power switch and power inlet, fan connector, and various other components.

The power supply mounting shield is not included in this part.



**Color StyleWriter 2400 Power Supply, 100/120 V****661-0162**

This Apple Color StyleWriter 2400 power supply has a voltage identification label on the metal side panel.



**Color StyleWriter 2400 Power Supply, 200/240 V****661-0163**

This Apple Color StyleWriter 2400 power supply has a voltage identification label on the metal side panel.





**Color StyleWriter Pro Power Supply, 110 V**

**661-0877**

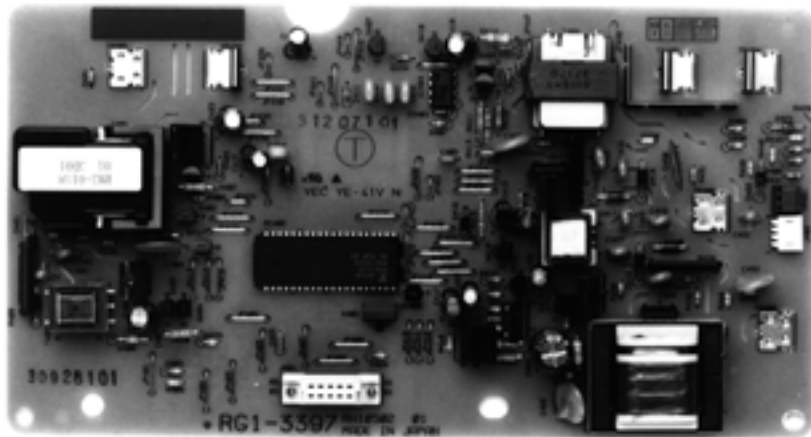




**Color StyleWriter Pro Power Supply, 220/240 V**

**661-0878**



**LaserWriter 16/600 PS High-Voltage Power Supply****661-0096**

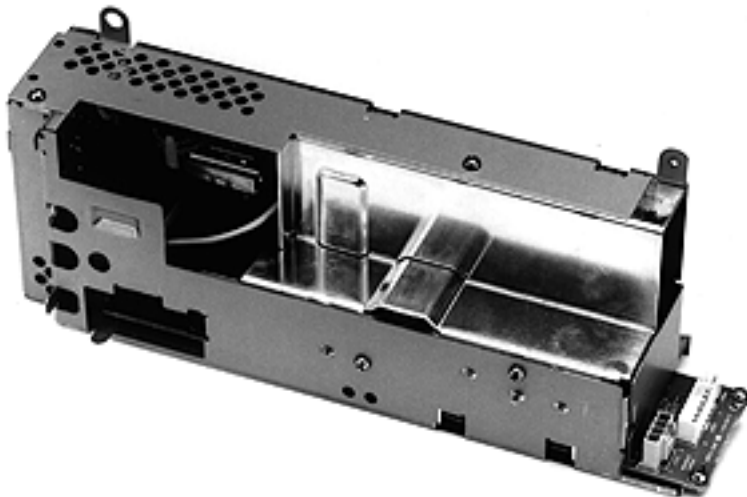
The LaserWriter 16/600 PS high-voltage power supply and the LaserWriter Pro 600/630 high-voltage power supply (P/N 661-0804) are similar. This power supply has the vendor number RGI-3397 on the bottom of the power supply. The LaserWriter Pro 600/630 high-voltage power supply has the vendor number RGI-0513.





Do not return the plastic tray to Apple.

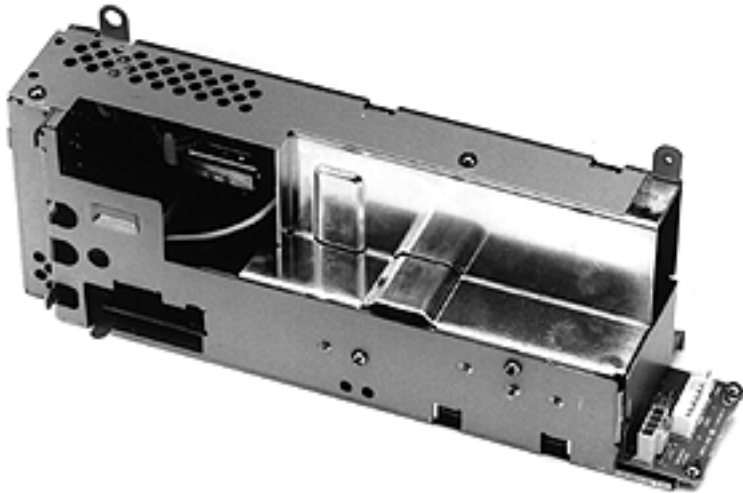


**LaserWriter 16/600 PS Power Supply, 110/115 V****661-0097**

The LaserWriter 16/600 PS power supply and the LaserWriter Pro 600/630 power supply (P/N 661-0802) are similar. This power supply has two flanges at the top edge. The LaserWriter Pro 600/630 power supply does not have flanges.





**LaserWriter 16/600 PS Power Supply, 220/240 V****661-0098**

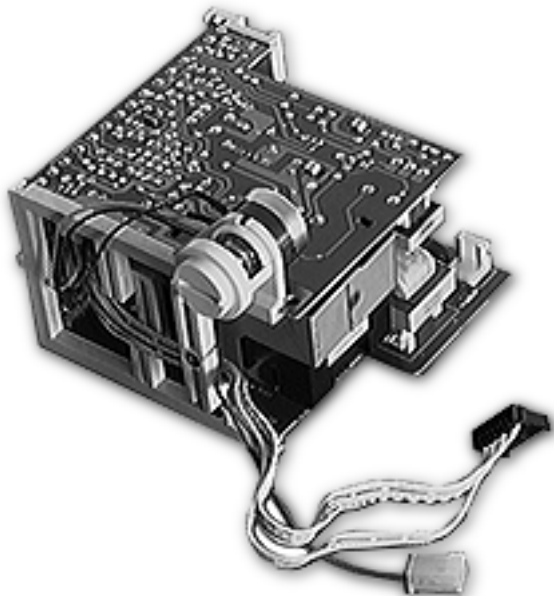
The LaserWriter 16/600 power supplies and the LaserWriter Pro 600/630 power supplies (P/N 661-0802 and 661-0803) are similar. The LaserWriter 16/600 PS power supplies have two flanges at the top edge. The LaserWriter Pro 600/630 power supplies do not have flanges.

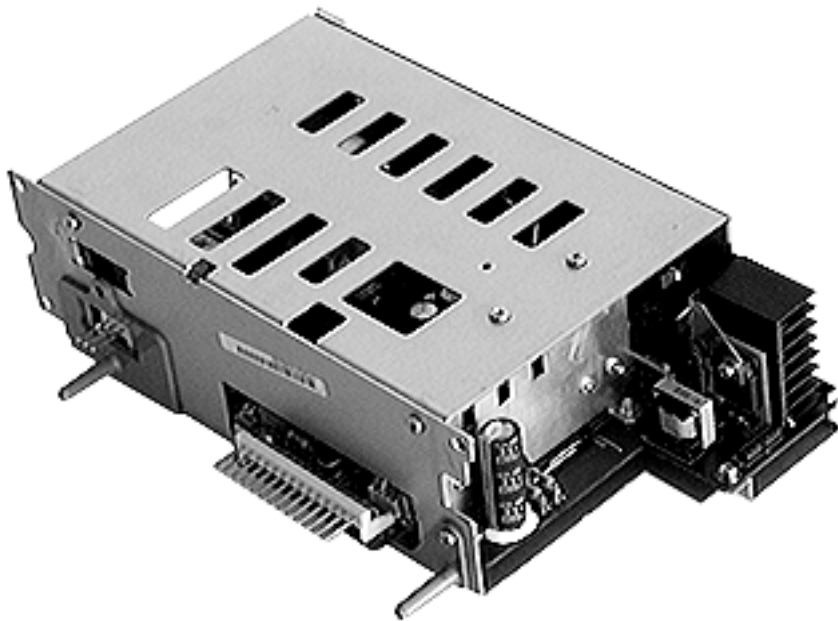




## LaserWriter High-Voltage Power Supply

661-0266



**LaserWriter II DC Power Supply****661-0424**

Remove the distribution PCB and cover (as shown) before you return this module to Apple.

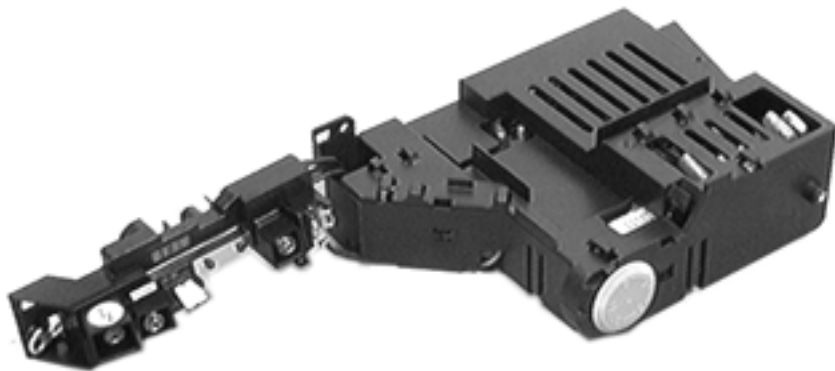
The sticker on top indicates the voltage.

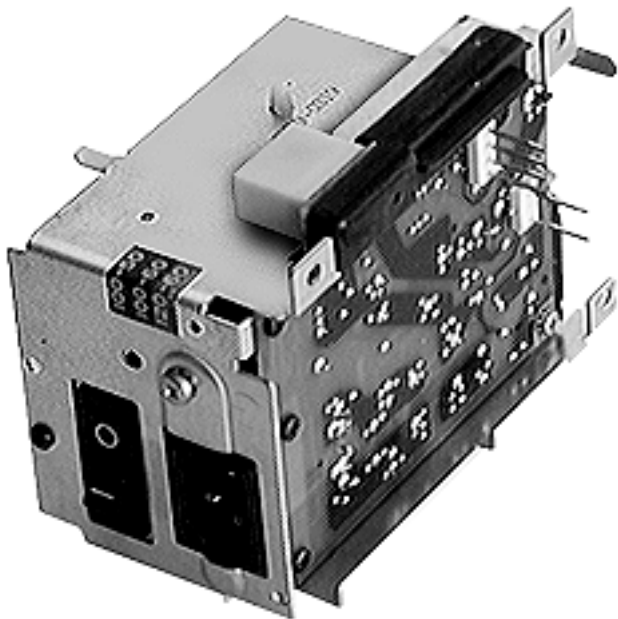




**LaserWriter II High-Voltage Power Supply**

**661-0425**



**LaserWriter II Power Supply Block, 110 V****661-0427**

The sticker indicates the voltage.

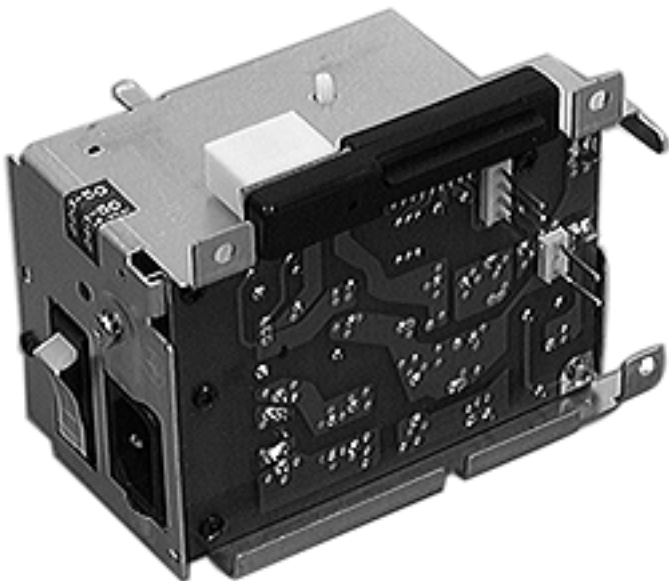


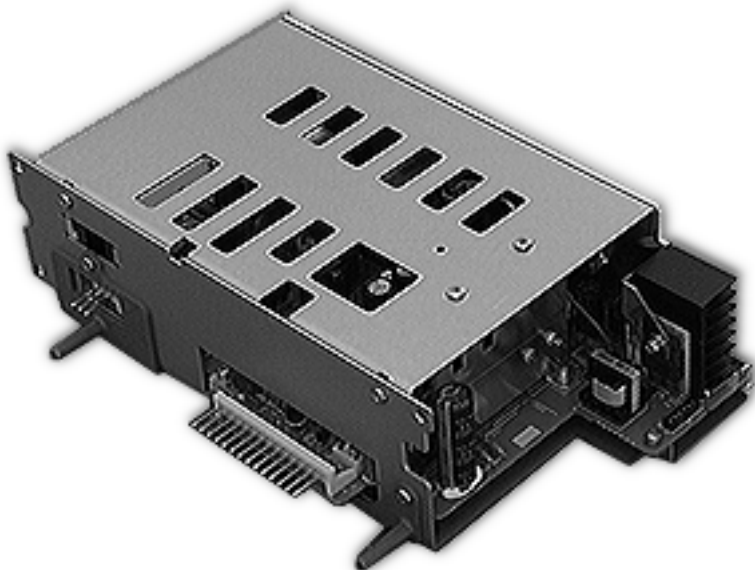


**LaserWriter II Power Supply Block, 220/240 V**

**661-0443**

The sticker indicates the voltage.



**LaserWriter II Power Supply, 220/240 V****661-0442**

Remove the distribution PCB and cover (as shown) before you return this module to Apple.

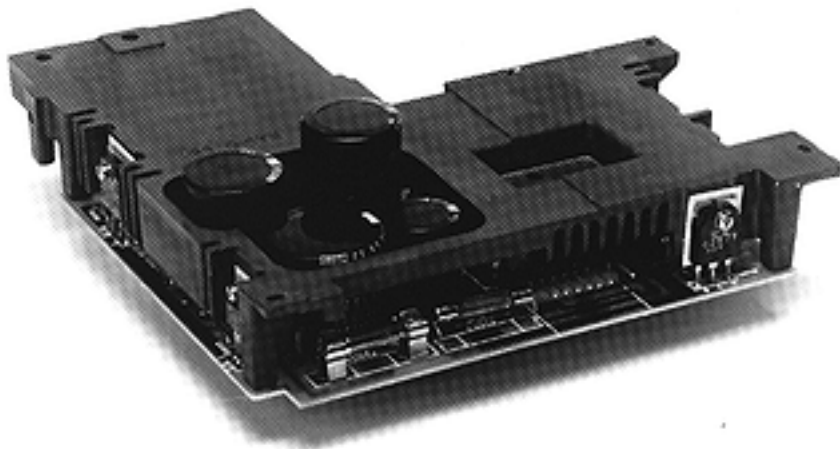
The sticker on top indicates the voltage.





**LaserWriter Power Supply/Motor Drive, 110 V**

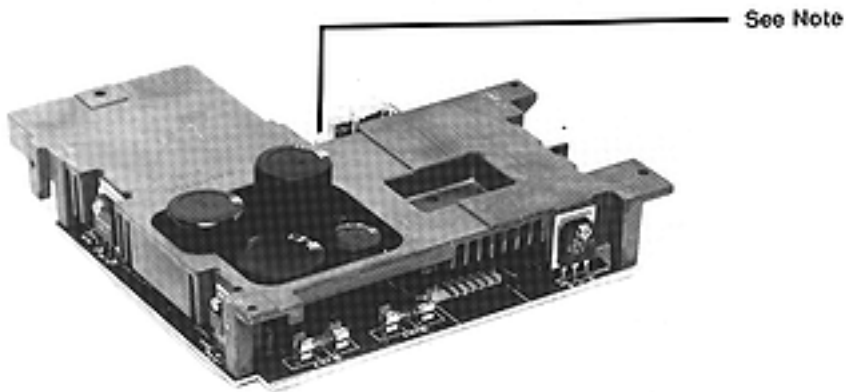
**661-0273**





**LaserWriter Power Supply/Motor Drive, 220 V****661-0274**

Presence of a relay in the above position indicates a 220/240 V power supply/motor drive.





LaserWriter Pro 600/630 High-Voltage Power Supply

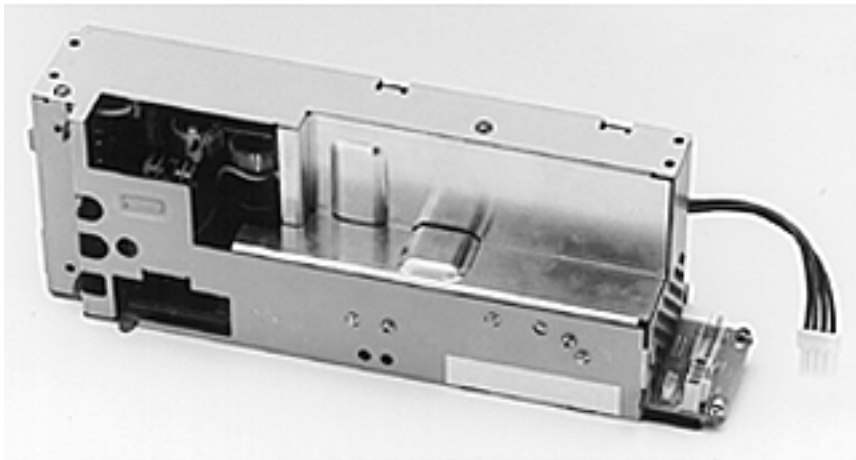
661-0804





**LaserWriter Pro 600/630 Power Supply, 110/115 V**

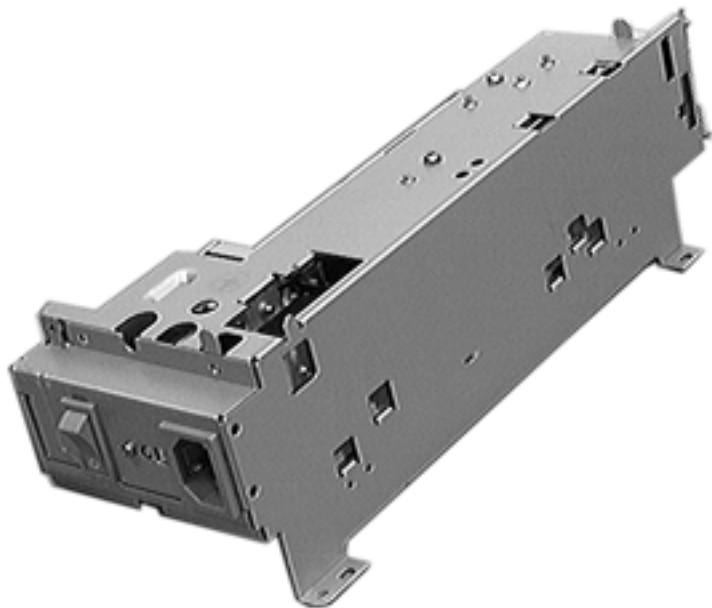
**661-0802**

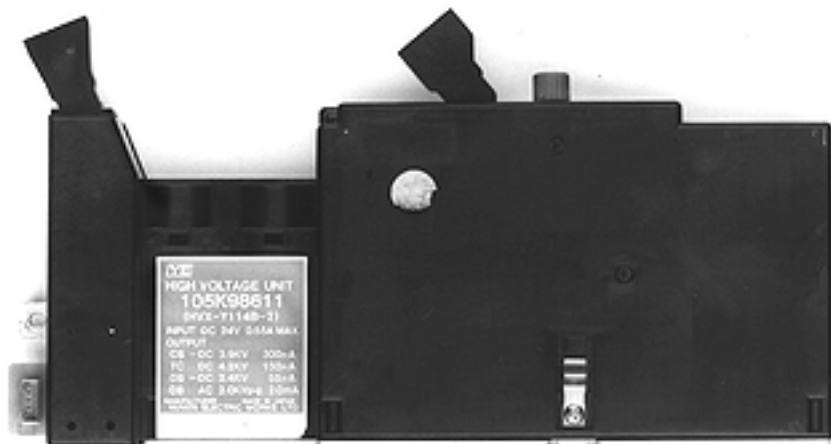




**LaserWriter Pro 600/630 Power Supply, 220/240 V**

**661-0803**

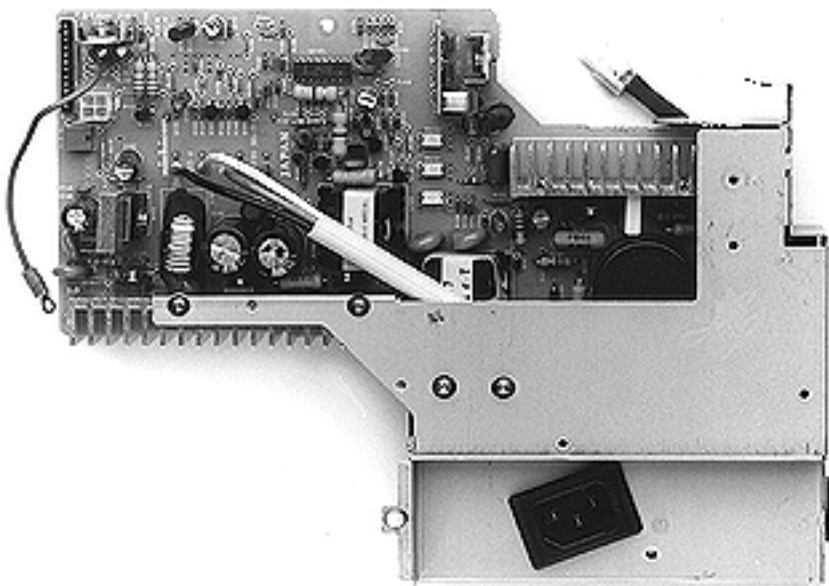


**LaserWriter Pro 810 High-Voltage Power Supply****661-0860**



LaserWriter Pro 810 Power Supply, 115 V

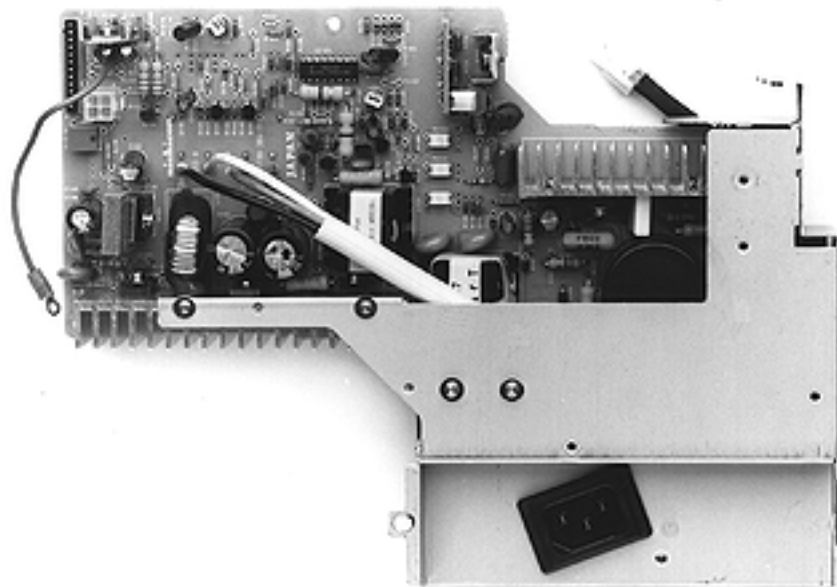
661-0836





**LaserWriter Pro 810 Power Supply, 220 V**

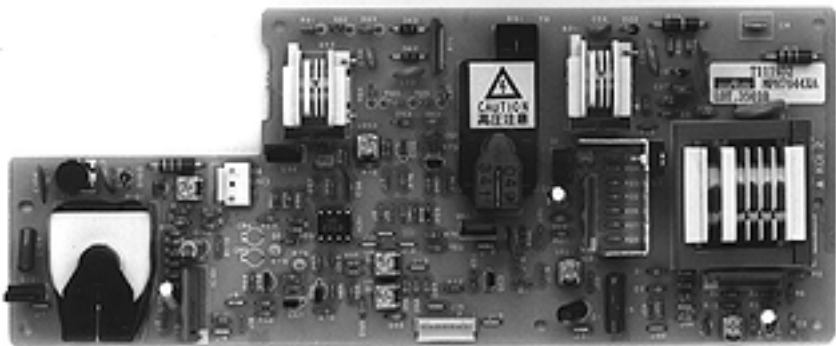
**661-0837**





**LaserWriter Select 360 High-Voltage Power Supply**

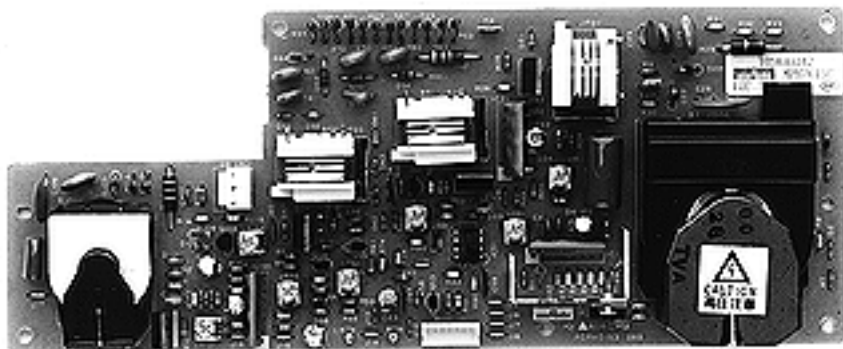
**661-0822**





**LaserWriter Select High-Voltage Power Supply****661-2005**

The high-voltage power supply does not ship with its plastic tray.





LaserWriter Select Power Supply, 110/115 V

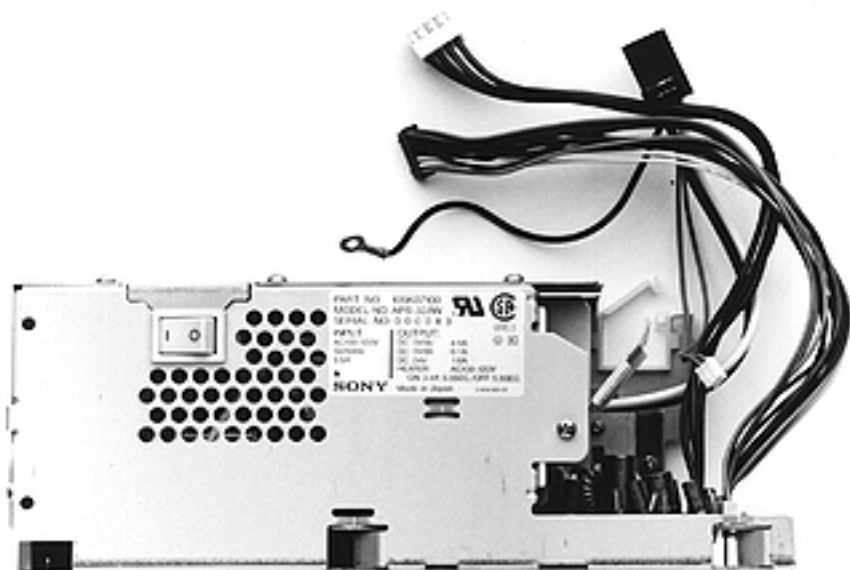
661-2006

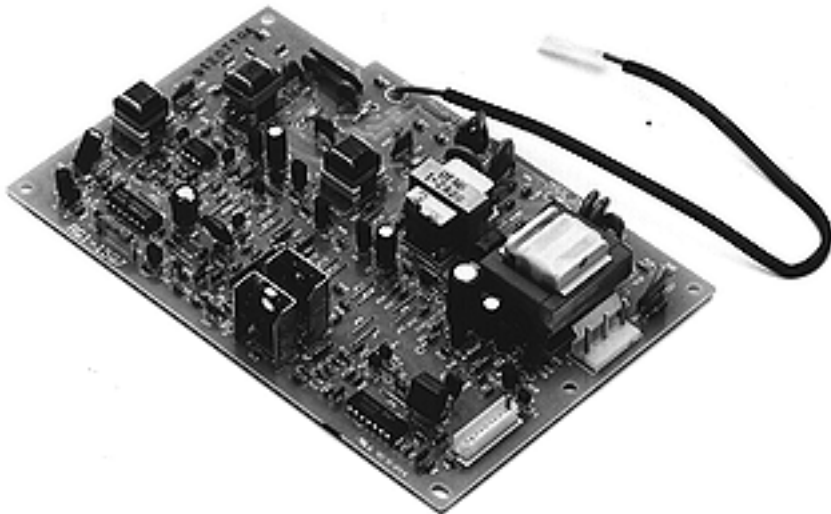




## LaserWriter Select Power Supply, 220/240 V

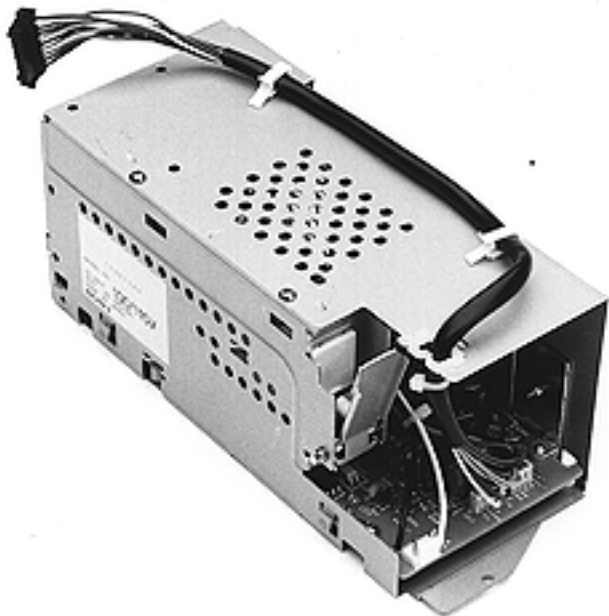
661-2007



**Personal LaserWriter High-Voltage Power Supply****661-0573**

The high-voltage power supply does not ship with the plastic tray or grounding plate. Retain these before returning the power supply.



**Personal LaserWriter LS/L Power Supply, 110/115 V****661-0668**

The Personal LaserWriter LS power supply unit is not compatible with the Personal LaserWriter LS/L, SC, NT, or NTR.

The LaserWriter LS power supply unit has only one connector; the NT, SC, and NTR power supply unit has two.

Also, the Personal LaserWriter LS/L power supply unit has a





lower power rating.

You can distinguish the LS/L power supply from the original LS power supply by the presence of a green 5-volt line on the Personal LaserWriter LS/L power supply.



**Personal LaserWriter NT, SC, & NTR Power Supply, 110/115 V****661-0569**

The Personal LaserWriter NT, SC, and NTR power supply unit is not compatible with the Personal LaserWriter LS or LS/L: this unit has two connectors; the LS and LS/L power supply units have only one.





**Personal LaserWriter NT, SC, and NTR Power Supply (220/240V)**

**661-0574**







Printers

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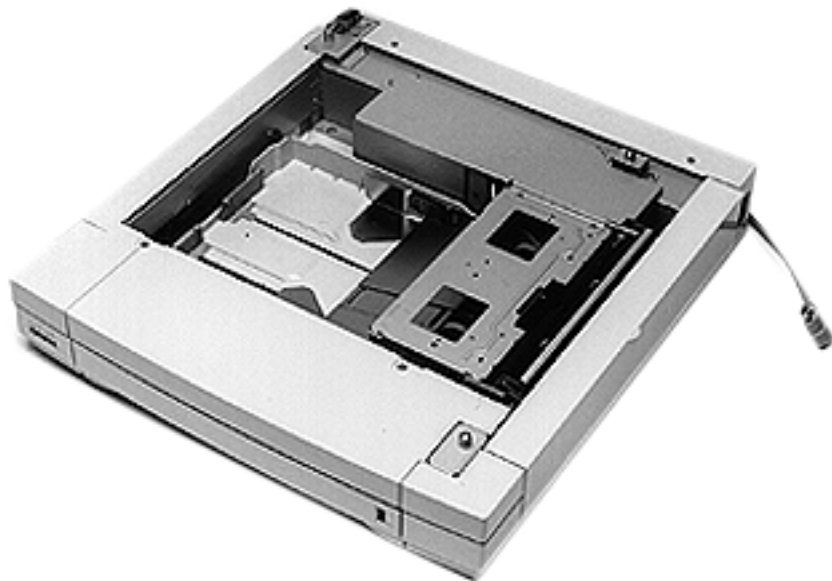
Sheet/Envelope Feeders





**Color LaserWriter 12/600 PS Sheet Feeder, Whole Unit**

**661-0908**



Return the sheet feeder with the universal cassette tray.





**ImageWriter II Automatic Sheet Feeder (White)**

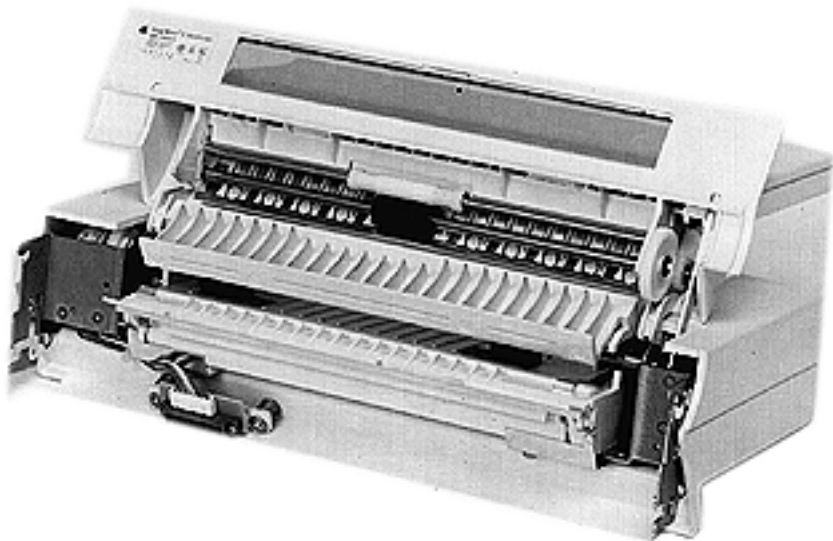
**661-0329**





**ImageWriter II/L Automatic Sheet Feeder (Platinum)**

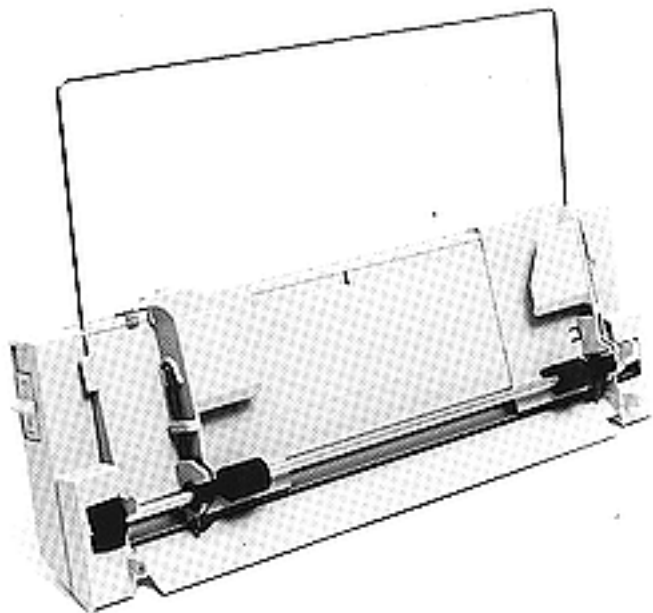
**661-0401**





**ImageWriter LQ Cut Sheet Feeder, Extension Bin**

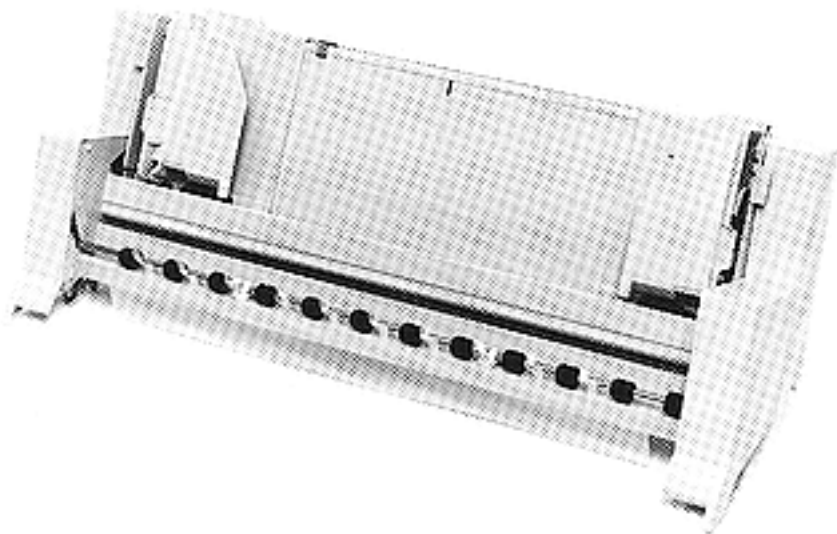
**661-0447**





**ImageWriter LQ Cut Sheet Feeder, Single Bin**

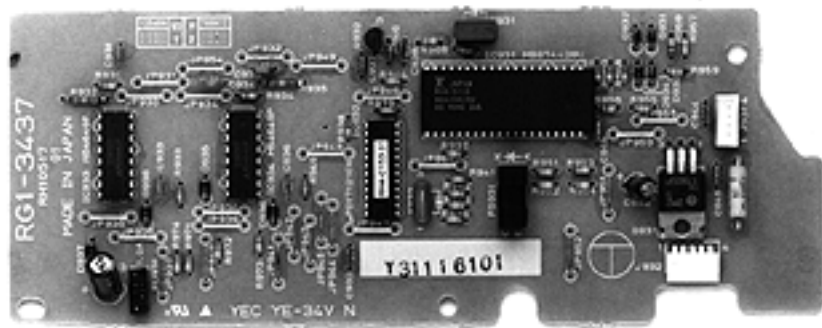
**661-0446**

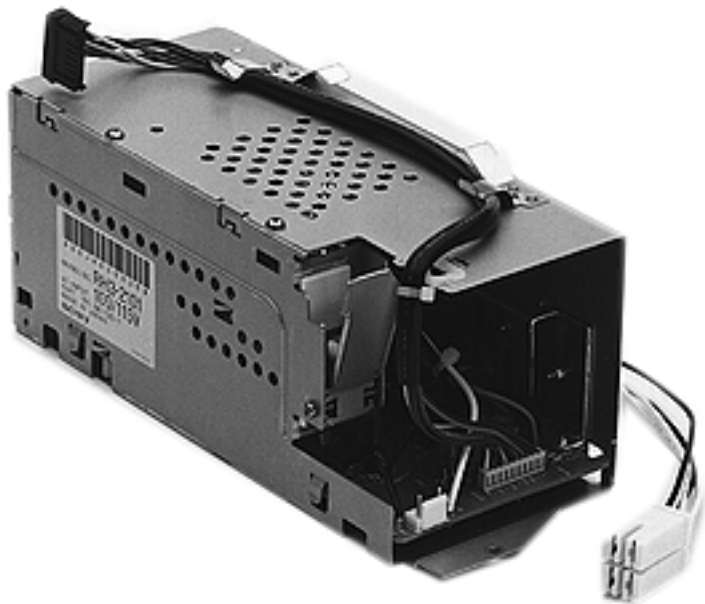




LaserWriter 16/600 PS Envelope Feeder Controller Board

661-0123



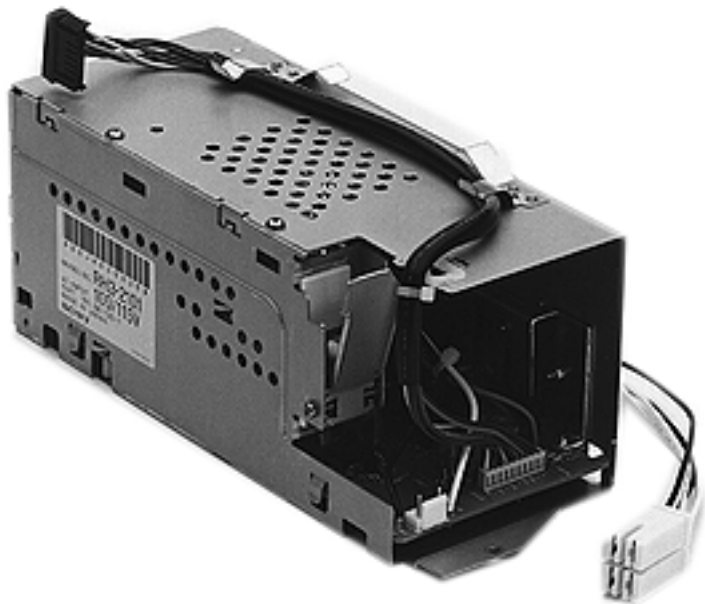
**LaserWriter 16/600 PS Envelope Feeder Power Supply, 110/115 V****661-0636**

The Personal LaserWriter LS power supply unit is not compatible with the Personal LaserWriter LS/L, SC, NT, or NTR.

The LaserWriter LS power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the Personal LaserWriter LS power supply unit has a lower power rating.





**LaserWriter 16/600 PS Envelope Feeder Power Supply, 220/240 V****661-0637**

The Personal LaserWriter LS power supply unit is not compatible with the Personal LaserWriter LS/L, SC, NT, or NTR.

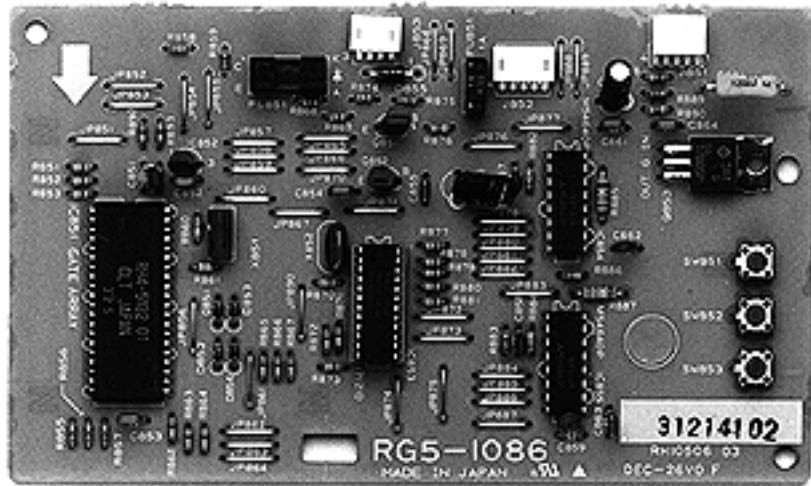
The LaserWriter LS power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the Personal LaserWriter LS power supply unit has a lower power rating.





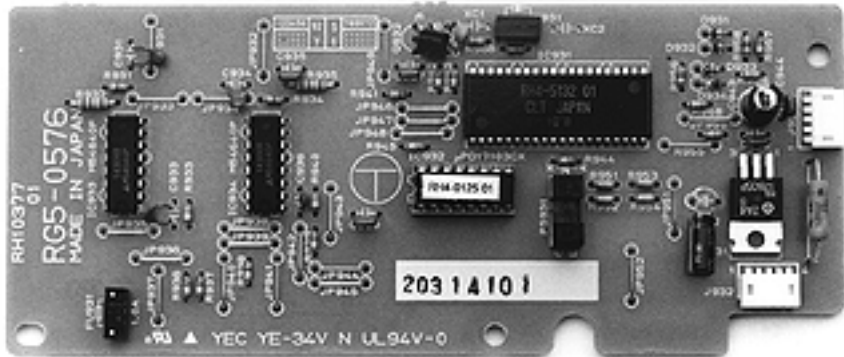
## LaserWriter 16/600 PS Sheet Feeder Controller Board

661-0124



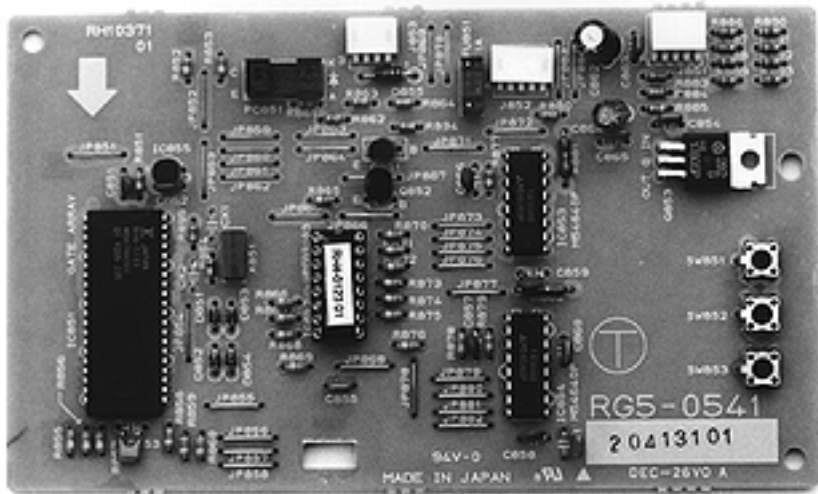
The LaserWriter 16/600 PS sheet feeder controller board and the LaserWriter Pro 600/630 sheet feeder controller board (P/N 661-0798) are similar. This board has the vendor number RG5-1086 on the bottom of the board. The LaserWriter Pro 600/630 board has the vendor number RG5-0541.



**LaserWriter Pro 600/630 Envelope Feeder Controller Board****661-0797**

The LaserWriter Pro 600/630 envelope feeder controller board and the LaserWriter 16/600 PS envelope feeder controller board (P/N 661-0123) are similar. The LaserWriter Pro 600/630 board has the vendor number RG5-0576. The LaserWriter 16/600 PS board has the vendor number RG1-3437.



**LaserWriter Pro 600/630 Sheet Feeder Controller Board****661-0798**

The LaserWriter Pro 600/630 envelope feeder controller board and the LaserWriter 16/600 PS envelope feeder controller board (P/N 661-0123) are similar. The LaserWriter Pro 600/630 board has the vendor number RG5-0576. The LaserWriter 16/600 PS board has the vendor number RG1-3437.

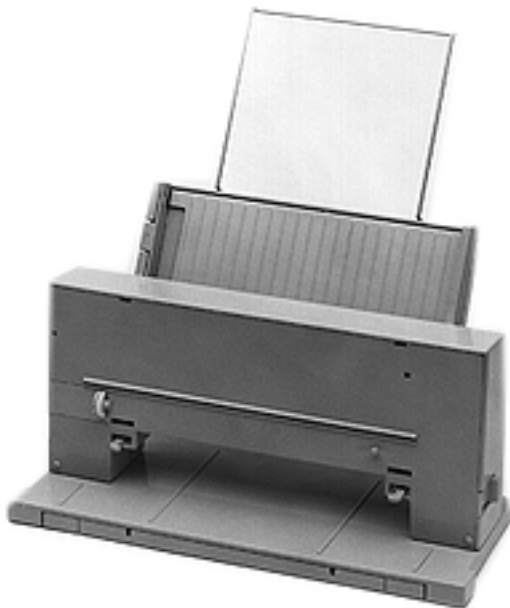




**Portable StyleWriter Automatic Sheet Feeder**

**661-0831**



**StyleWriter Cut Sheet Feeder****661-0628**

Remove the paper rod support from the cut sheet feeder, but be sure to include the paper rod support when you return the cut sheet feeder to Apple.

**SPECIAL PACKAGING IS REQUIRED;** failure to comply with these requirements may result in a packaging noncompliance charge. Please refer to the StyleWriter manual in





Service Source CD for information on special packaging and procedures.





Printers

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Whole Units



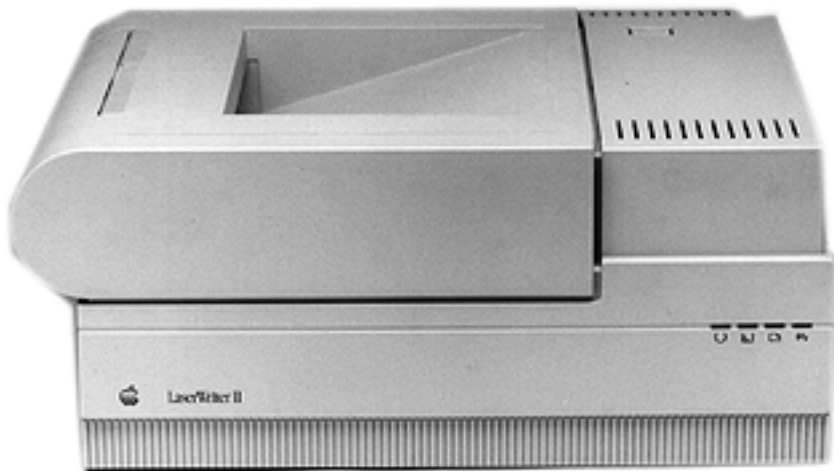




## LaserWriter II Engine (Whole Unit) (Discontinued)

**661-0894**

Remove the controller card before returning the LaserWriter II engine to Apple.



**Portable StyleWriter Whole Unit****661-0830**

Before you return the Portable StyleWriter, remove the NiCad battery (Apple P/N 661-0866).





**StyleWriter 1200 Whole Unit, 110 V**

**661-0242**





**StyleWriter 1200 Whole Unit, 220 V**

**661-0243**





**StyleWriter II Whole Unit, Ink Jet (120 V)**

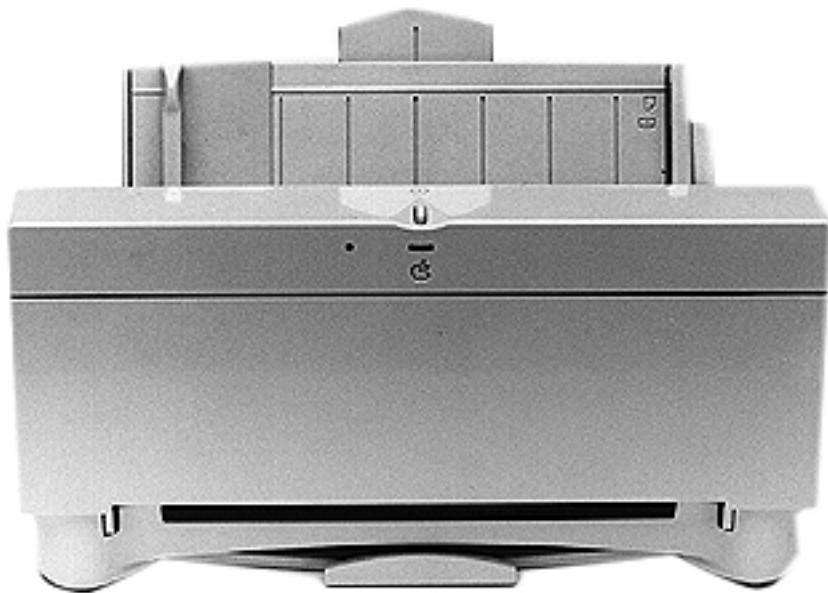
**661-0785**





**StyleWriter Whole Unit, Ink Jet (220 V)**

**661-1010**



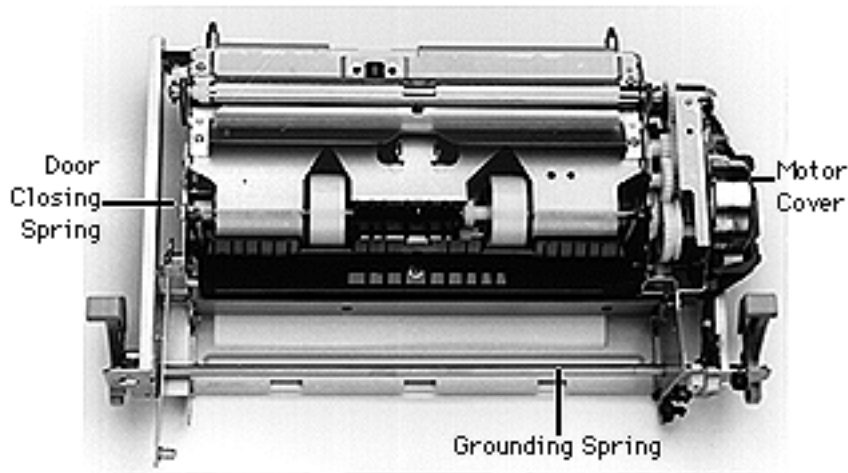


Printers

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Miscellaneous/Options



**Color LaserWriter 12/600 PS Cassette Pickup Assembly****661-0907**

Remove the motor cover, grounding spring and the large door-closing spring at the top of the assembly before returning the cassette pickup assembly to Apple.

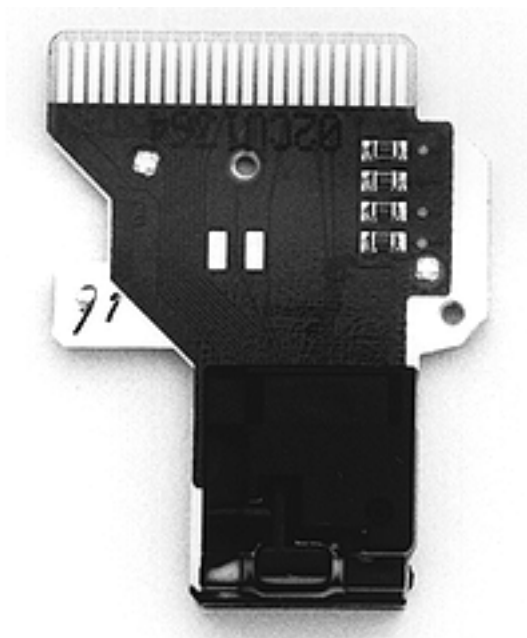






**Color Printer Bubble Jet Head Unit**

**661-1685**

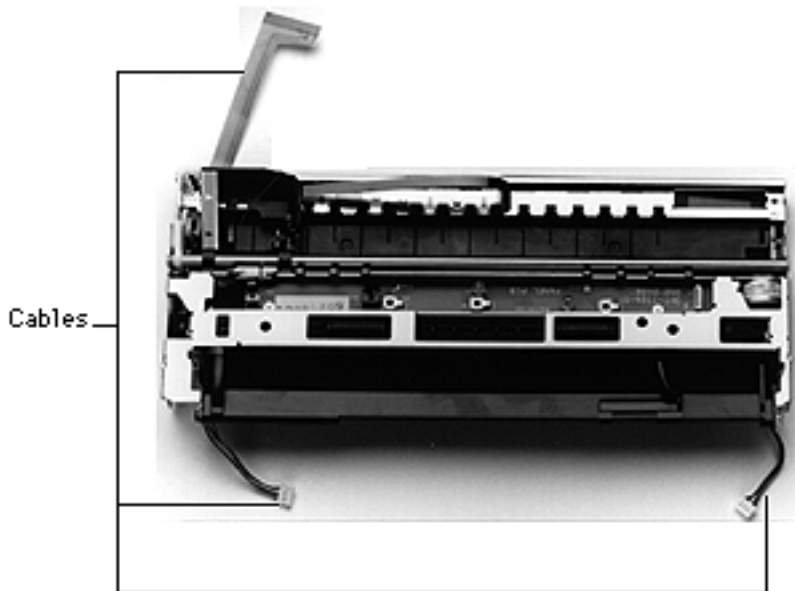




### Color StyleWriter 2200 Battery, NiMH

661-0697



**Color StyleWriter 2200 Print Unit Assembly****661-0240**

The replacement printer unit comes with the three cables shown. The ribbon cable (P/N 922-1481) is not included.

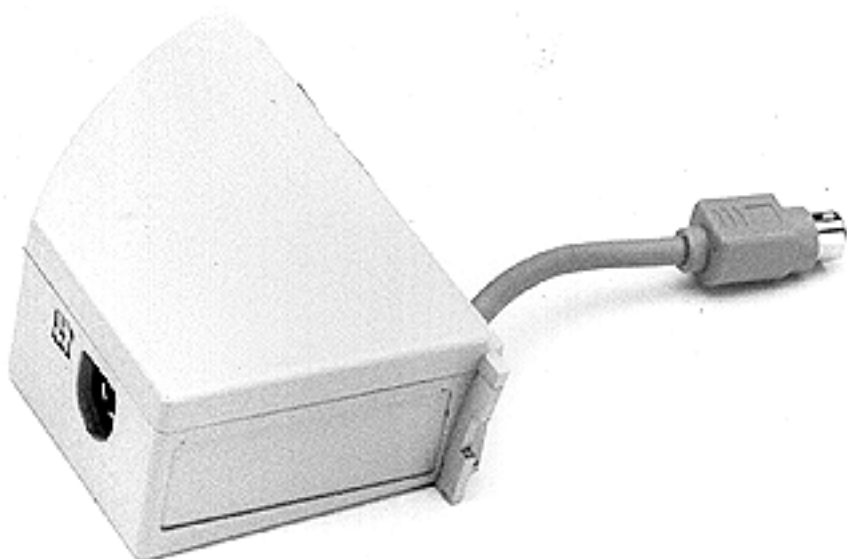
Transfer the ribbon cable from the customer's print unit to the replacement print unit. Do not return the ribbon cable to Apple.





**Color StyleWriter 2400 LocalTalk Option, Whole Unit**

**661-0197**





**ImageWriter II/IIL Print Head**

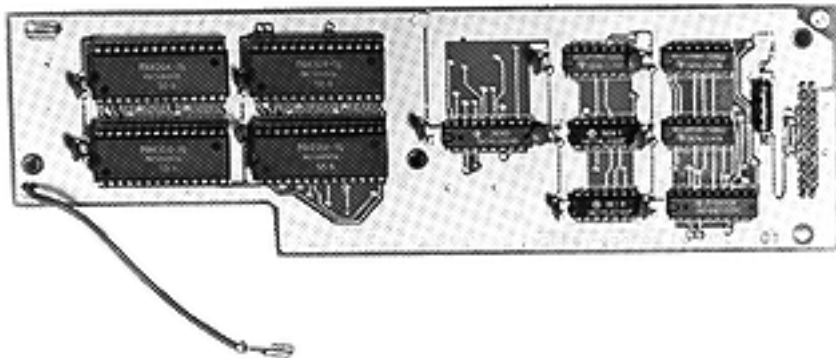
**661-0316**





ImageWriter II 32K Option Board

661-0319





## ImageWriter LQ Print Head

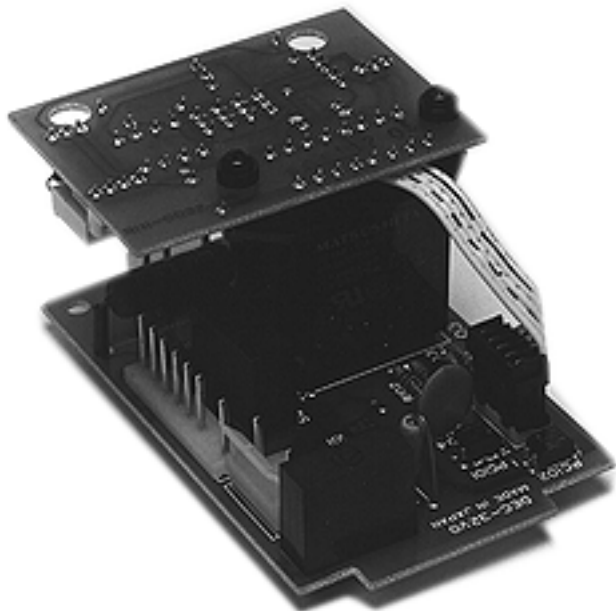
661-0405





LaserWriter Driver, 110 V

661-0268

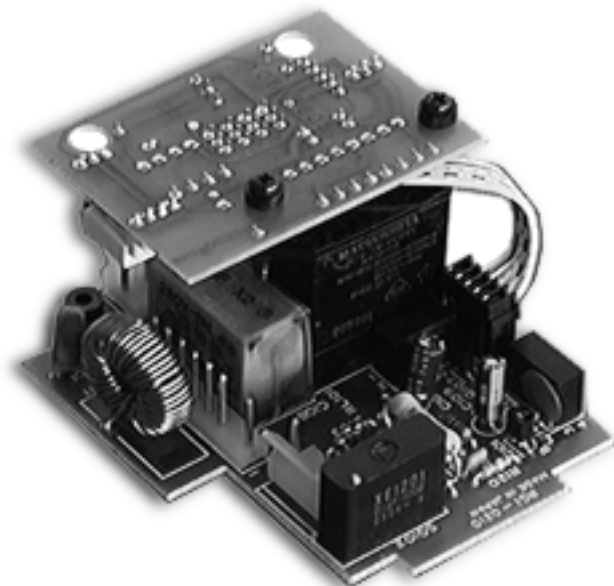






LaserWriter Driver, 220 V

661-0269





**Portable StyleWriter Battery, NiCAD**

**661-0866**





**StyleWriter Printer Frame Assembly (Rev. A)**

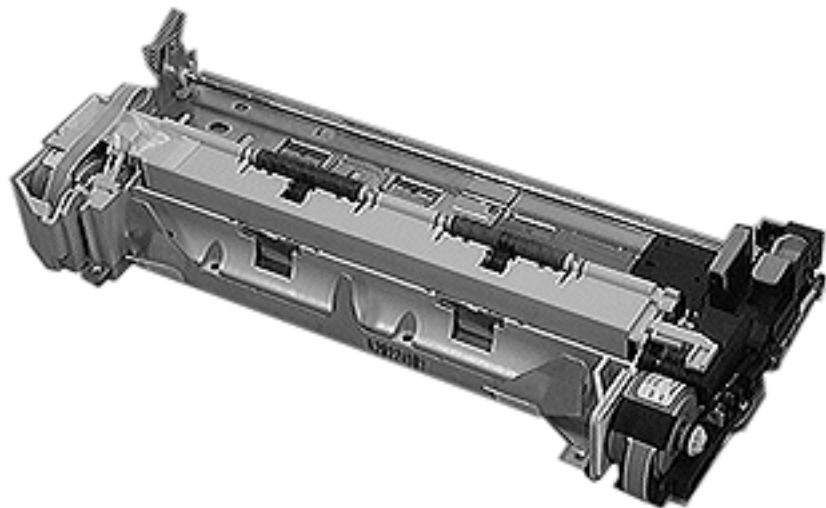
**661-0630**

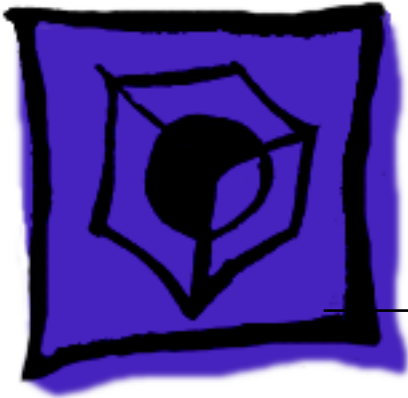




StyleWriter Printer Frame Assembly (Rev. B)

661-0718





## Scanners

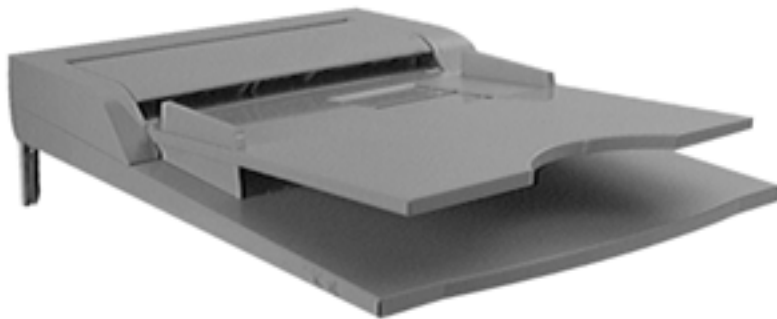
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**Apple Color OneScanner 1200/30 Document Feeder, Whole Unit**

**661-1119**





**Apple Color OneScanner 1200/30 Transparent Media Adapter,  
Whole Unit**

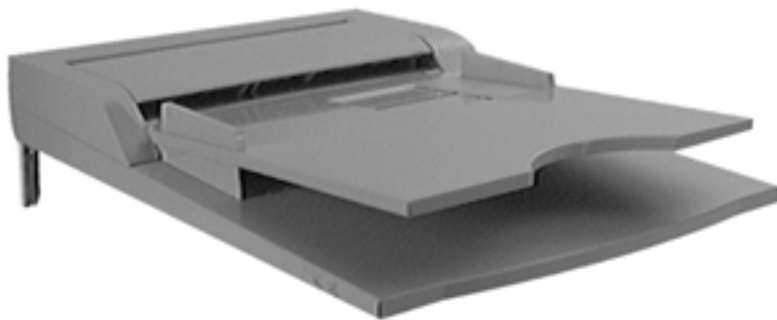
**661-1120**





**Apple Color OneScanner 600/27 Document Feeder, Whole Unit**

**661-1119**

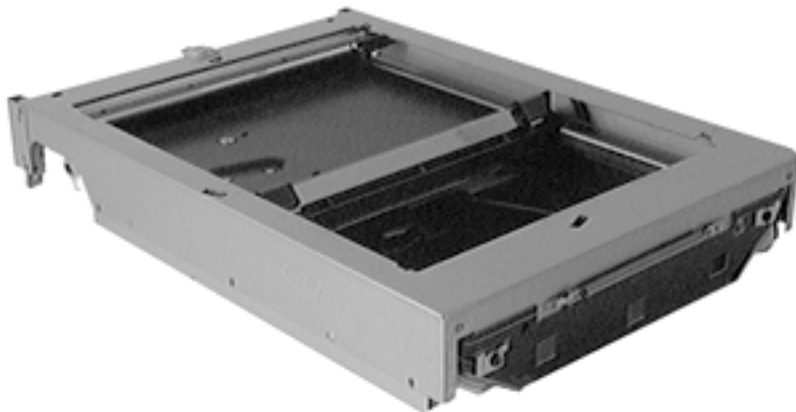


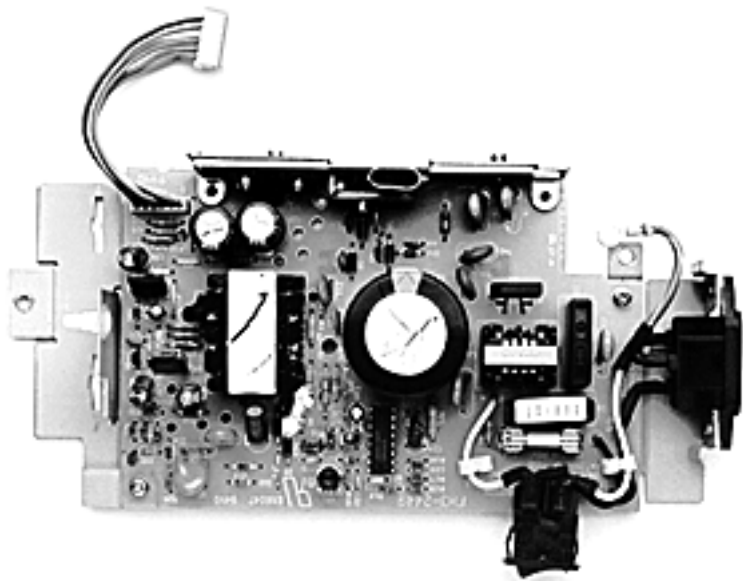




## Apple Color OneScanner 600/27 Optical Assembly

661-1084



**Apple Color OneScanner 600/27 Power Supply without Inverter Board****661-1085**

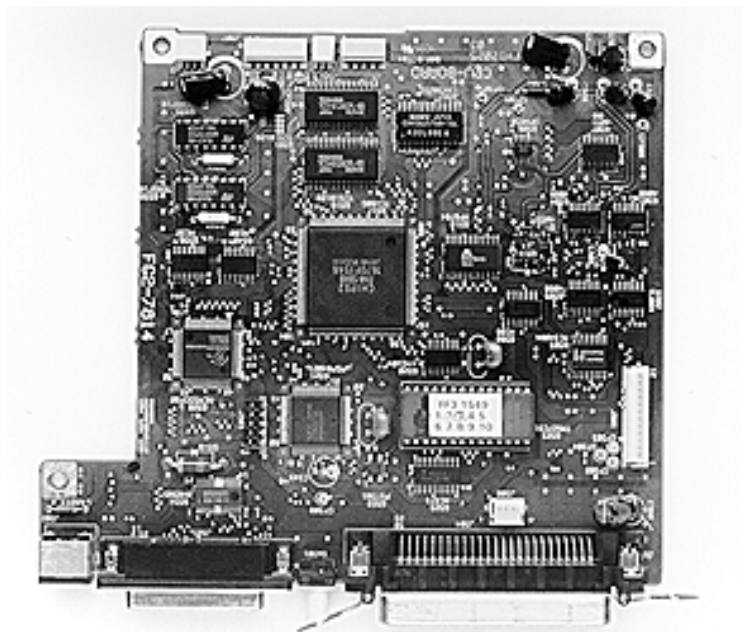
Remove the inverter board from the power supply before returning the power supply to Apple.





Apple Color OneScanner 600/27 Logic Board

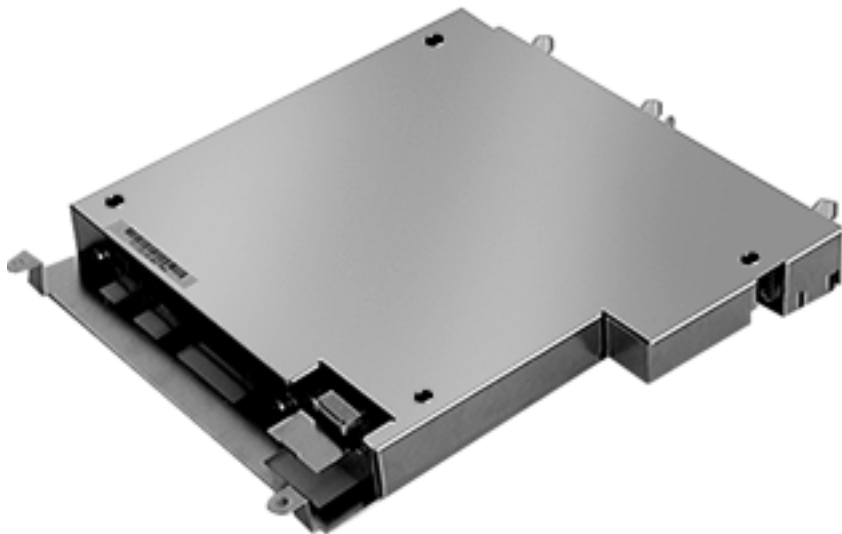
661-1083





**Apple Color OneScanner Main Logic Board, 24-Bit**

**661-0740**



**Apple Color OneScanner Optical Assembly, 24-Bit****661-0739**

Return the Apple Color OneScanner optical assembly with the lamp in place. The replacement comes with a lamp installed.





**Apple Color OneScanner Power Supply, PCB Assembly,  
24-Bit (240V)**

**661-0810**

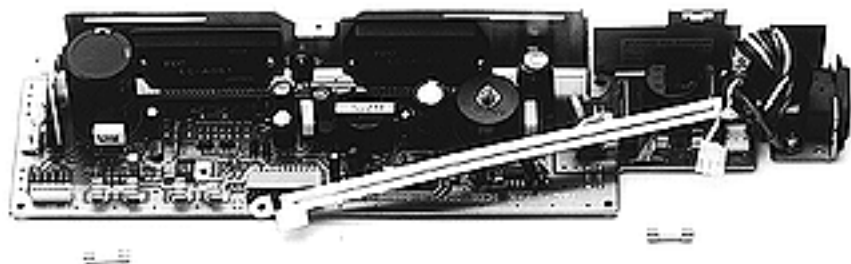
International only.





**Apple Color OneScanner Power Supply, PCB Assembly,  
24-Bit (240V)**

**661-0738**



**Apple Color OneScanner/B Assembly, Optical****661-0187**

Return the Apple Color One Scanner/B optical assembly with the lamp in place. The replacement comes with a lamp installed.

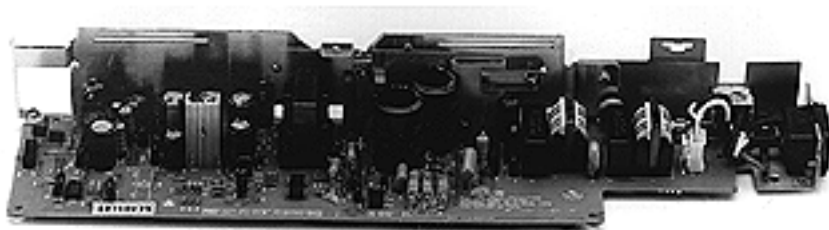






Apple Color OneScanner/B Board, Power Supply

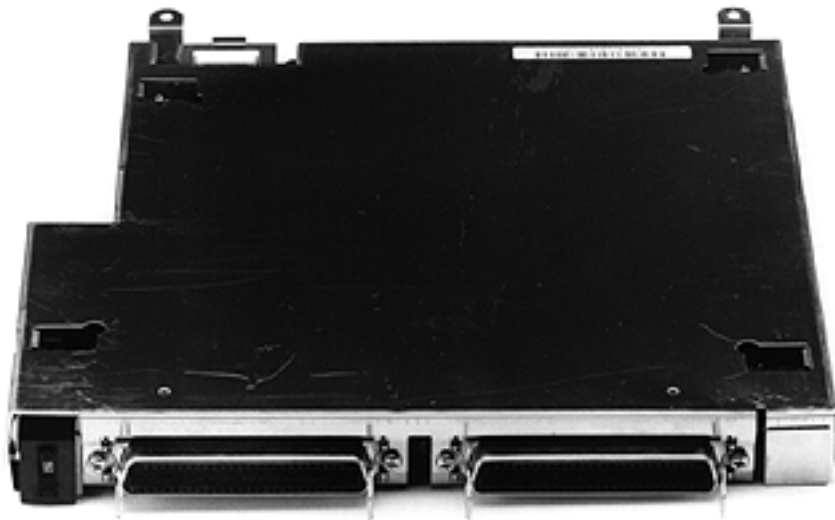
661-0186





**Apple Color OneScanner/B Main Logic Board, 24-Bit**

**661-0185**





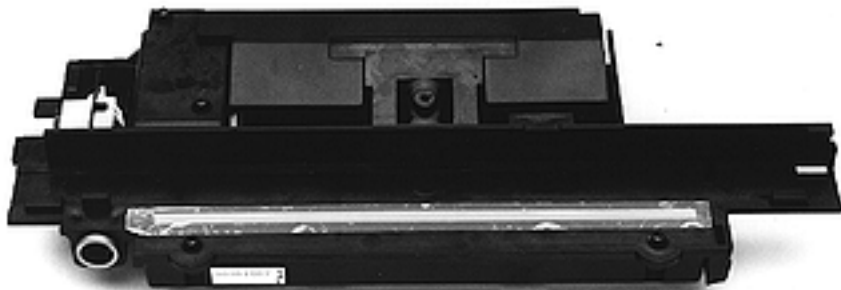
**Apple OneScanner Main Logic Board, 8-Bit**

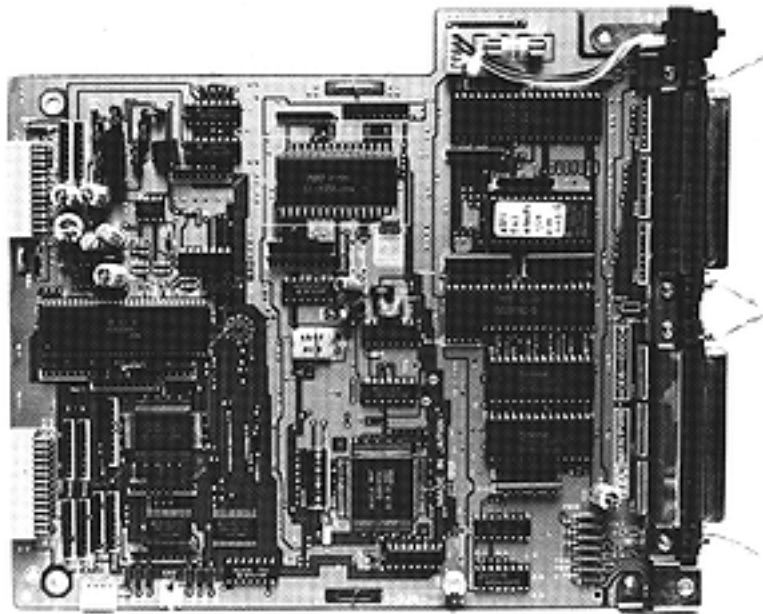
**661-0635**



**Apple OneScanner Optical Assembly, 8-Bit****661-0634**

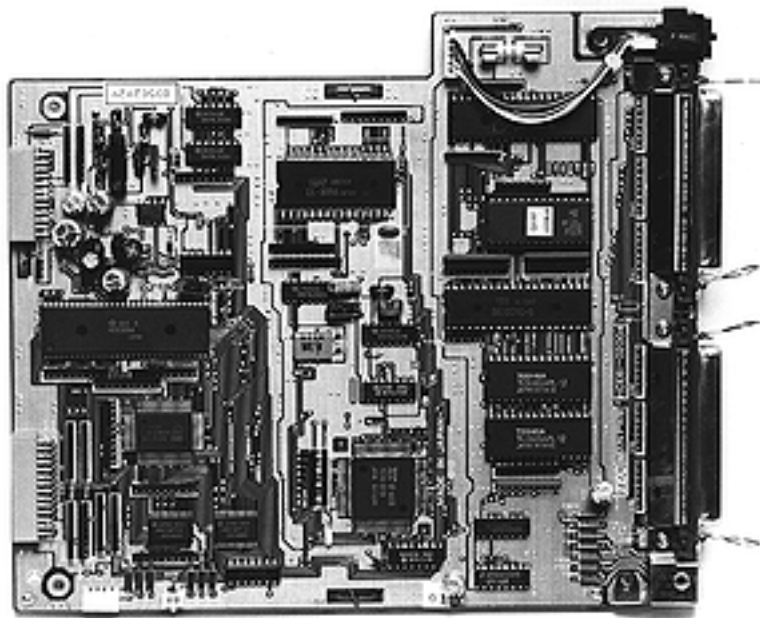
Remove and retain the inverter assembly and the lamp before you return the optical assembly to Apple.



**Apple Scanner Main Logic Board, 4-Bit (Rev. A)****661-0430**

When you return P/N 661-0430, Apple ships you P/N 661-0534.



**Apple Scanner Main Logic Board, 4-Bit (Rev. B)****661-0534**

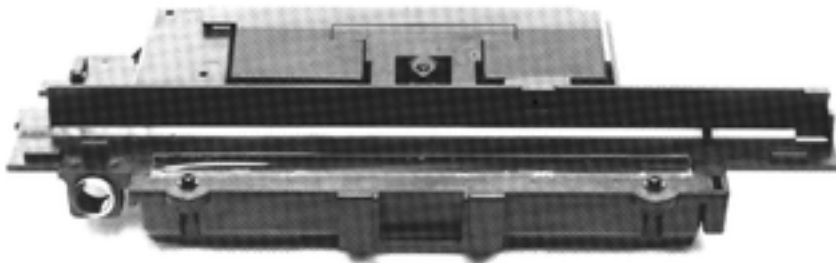
The absence of capacitors (CA 4, 5, 6) in these positions indicates that this is a revision B main logic board.





**Apple Scanner Optical Assembly, 4-Bit**

**661-0449**





**Apple Scanner Power Supply, PCB Assembly**

**661-0431**

