

# Apple Module Identification

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PN: 072-8124

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# Table of Contents

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Module Index by Page Number	ii
Cross Reference by Part Number	xv
CPU PCBs	1.1.1
Keyboards	2.1.1
Power Supplies	3.1.1
Interface Cards	4.1.1
Monitors	5.1.1
Drives	6.1.1
Data Communication	7.1.1
Printers	8.1.1
Input Devices	9.1.1
Miscellaneous	10.1.1

<b>Description</b>	<b>Page No.</b>
--------------------	-----------------

---

**CPU PCBs**

Macintosh Plus Logic Board	1.1.1
Macintosh Plus Logic Board	1.1.2
Macintosh II Logic Board	1.2.1
Macintosh II Logic Board	1.2.2
Macintosh IIx Logic Board	1.2.3
Macintosh IIx Logic Board	1.2.4
Macintosh IIcx Logic Board	1.2.5
Macintosh IIcx Logic Board	1.2.6
Apple 256K SIMM, 120 ns	1.3.1
Apple 256K SIMM, DIP, 120 ns	1.3.2
Apple 256K SIMM, SOJ, 80 ns	1.3.3
Apple 1 MB SIMM, 120 ns	1.3.4
Apple 1 MB SIMM, DIP, 120 ns	1.3.5
Apple 1 MB SIMM, SOJ, 80 ns	1.3.6
Apple 1 MB SIMM, SOJ, 80 ns	1.3.7
Apple 1 MB SIMM, SOJ, 80 ns, Parity	1.3.8
Apple 2 MB SIMM, SOJ, 80 ns	1.3.9
Apple 512K SIMM, SOJ, 80 ns	1.3.10
Apple 256K SIMM, VRAM, 100 ns	1.3.11
Apple 256K SIMM, VRAM, 80 ns	1.3.12
Apple 512K SIMM, VRAM	1.3.13
Macintosh/Macintosh Plus ROMs	1.3.14
Macintosh SE and SE/30 ROMs	1.3.15
Macintosh II ROMs	1.3.16
Apple 4 MB SIMM, 60 ns, 72-Pin	1.3.17
Apple 8 MB SIMM, 60 ns, 72-Pin	1.3.18
Apple 4 MB x 9 SIMM, 80 ns, Parity	1.3.19
Apple 128K SRAM SIMM, 17 ns	1.3.20
Apple 256K SRAM SIMM, 17 ns	1.3.21
Apple 48K Tag SRAM SIMM, 14 ns	1.3.22
Macintosh SE Logic Board	1.4.1
Macintosh SE Revised Logic Board	1.4.2
Macintosh SE 800K Logic Board	1.4.3
Macintosh SE Apple SuperDrive Logic Board	1.4.4
Macintosh SE/30 Logic Board	1.4.5
Macintosh SE/30 Logic Board	1.4.6
Macintosh SE Analog Board	1.4.7
Macintosh SE Video Board	1.4.8
Macintosh Classic Logic Board	1.5.1
Macintosh Classic Power Sweep Board (110 V) Rev. A	1.5.2
Macintosh Classic, Performa 200 Power Sweep Board (110 V) Rev. B	1.5.3
Macintosh Classic Memory Expansion Board	1.5.4

Description	Page No.
Macintosh Classic II, Performa 200 Logic Board	1.5.5
Macintosh Color Classic Logic Board	1.5.6
Macintosh Color Classic Analog Board	1.5.7
Macintosh Color Classic II, Performa 275/550 Logic Board	1.5.8
Performa 460/466/467 Logic Board	1.5.9
Performa 600 Logic Board	1.5.10
Macintosh Quadra 605, LC 475, Performa 475, 476 Logic Board	1.5.11
Macintosh Quadra 610 Logic Board (without FPU)	1.5.12
Macintosh Quadra 610 Logic Board	1.5.13
Macintosh Quadra 650 Logic Board, 8 MB	1.5.14
Macintosh IICI Logic Board	1.6.1
Macintosh IICI Logic Board (with Parity)	1.6.2
Macintosh Centris 610 Logic Board	1.7.1
Macintosh Centris 610 Logic Board (with Ethernet)	1.7.2
Macintosh Centris 650 Logic Board, 4 MB, FPU (with Ethernet)	1.7.3
Macintosh Centris 650 Logic Board	1.7.4
Macintosh Centris 650 Logic Board, 8 MB, FPU (with Ethernet)	1.7.5
Macintosh Centris 660AV Logic Board	1.7.6
Macintosh Centris 660AV NuBus Adapter	1.7.7
Macintosh Quadra 700 Logic Board	1.7.8
Macintosh Quadra 800 Logic Board, 8 MB, FPU (with Ethernet)	1.7.9
Macintosh Quadra 840AV Logic Board	1.7.10
Macintosh Quadra 900 Logic Board	1.7.11
Macintosh Quadra 950, Apple Workgroup Server 95 Logic Board	1.7.12
Macintosh IIx Logic Board	1.8.1
Macintosh IISI Logic Board	1.9.1
Macintosh IISI NuBus Expansion Adaptor	1.9.2
Macintosh IISI '030 Direct Slot Expansion Adaptor	1.9.3
Macintosh IIvx Logic Board	1.10.1
Macintosh LC Main Logic Board	1.11.1
Macintosh LC II Logic Board, 2 MB	1.11.2
Macintosh LC II Logic Board, Performa 400/405 410/430, 4 MB	1.11.3
Macintosh LC III Logic Board, Performa 450	1.11.4
Macintosh LC 520 Logic Board	1.11.5
Macintosh LC 520 Analog Board	1.11.6
Macintosh LC 575 Logic Board, 33 MHz	1.11.7
Macintosh Portable Logic Board	1.12.1
Macintosh Portable RAM Expansion Card, 1 MB	1.12.2

<b>Description</b>	<b>Page No.</b>
Macintosh Portable Logic Board, PSRAM	1.12.3
Macintosh Portable 3 MB PSRAM Expansion Card	1.12.4
Macintosh Portable 1 MB PSRAM Expansion Card	1.12.5
PowerBook 100 Motherboard	1.13.1
PowerBook 140/145/170 Motherboard	1.13.2
PowerBook 100 Daughterboard	1.13.3
PowerBook 140 Daughterboard	1.13.4
PowerBook 170 Daughterboard	1.13.5
PowerBook 100/140/145/145B/160/170 PSRAM Expansion Card, 2 MB	1.14.1
PowerBook 100, PSRAM Expansion Card, 4 MB, 100 ns	1.14.2
PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns	1.14.3
PowerBook 145B Daughterboard	1.14.4
PowerBook 145 Daughterboard	1.15.1
PowerBook 160 Daughterboard	1.16.1
PowerBook 165 Daughterboard	1.16.2
PowerBook 160/165/180 Motherboard	1.16.3
PowerBook 165c Daughterboard	1.16.4
PowerBook 165c /180c Motherboard	1.16.5
PowerBook 180 Daughterboard	1.16.6
PowerBook 140/145/145B/160/165c/170/180c PSRAM Expansion Card, 4 MB, 85 ns	1.16.7
PowerBook 165c/180c Cousin Card	1.16.8
PowerBook 180c Daughterboard	1.16.9
Macintosh Duo Dock Logic Board	1.17.1
Macintosh Duo Dock II Logic Board	1.17.2
PowerBook Duo 210 Logic Board, 25 MHz	1.17.3
PowerBook Duo 230 Logic Board, 33 MHz	1.17.4
Macintosh Duo 210/230 Floppy Adapter	1.17.5
PowerBook Duo 270c Logic Board	1.17.6
PowerBook Duo 280/280c Logic Board	1.17.7
PowerBook 520/520c Daughterboard, 25 MHz, Rev. A	1.17.8
PowerBook 520/520c Daughterboard, 25 MHz, Rev. B	1.17.9
PowerBook 520/540 Series Motherboard, Rev. A	1.17.10
PowerBook 520/540 Series Motherboard, Rev. B	1.17.11
PowerBook 520/540 Series RAM Expansion, 8 MB	1.17.12
PowerBook 540/540c Daughterboard, 33 MHz, Rev. A	1.17.13
PowerBook 540/540c Daughterboard, 33 MHz, Rev. B	1.17.14
Macintosh Expansion Bar, Mini Dock Logic Board with Flex Cable	1.17.15
Macintosh TV Logic Board	1.18.1
Macintosh TV Analog Board	1.18.2
Power Macintosh 6100/60 Logic Board	1.19.1
Power Macintosh 7100/66 Logic Board	1.19.2

Description	Page No.
-------------	----------

Power Macintosh 8100/80	1.19.3
Power Macintosh 256K, SIMM, Cache	1.19.4
Power Macintosh 512K, SIMM, Cache	1.19.5
Workgroup Server 9150 Logic Board	1.20.1

### KEYBOARDS

Macintosh Plus Keyboard with Cable	2.1.1
Apple Extended Keyboard	2.2.1
Apple Extended Keyboard II	2.2.2
Apple Adjustable Keyboard	2.2.3
Apple Keyboard	2.2.4
Apple Keyboard II	2.2.5
AppleDesigned Keyboard (with cable attached)	2.2.6
Macintosh Portable Keyboard	2.3.1
Macintosh Portable Lightweight Keyboard	2.3.2
PowerBook 100 Keyboard	2.4.1
PowerBook 140/145B/160/165/165c/170/180 Keyboard	2.4.2
PowerBook Duo 210/230/250/270c, Keyboard, US, Rev. C	2.4.3
PowerBook Duo 280/280c, Keyboard, US, Rev. D	2.4.4
Macintosh TV Keyboard	2.5.1

### POWER SUPPLIES

Macintosh Power Supply (110 V)	3.1.1
Macintosh Power Sweep Board (220 V)	3.1.2
Macintosh II Power Supply	3.2.1
Macintosh SE Power Supply	3.3.1
Macintosh IIcx/ci Power Supply	3.4.1
Macintosh Quadra 900 Power Supply	3.5.1
Macintosh IIsi Power Supply	3.6.1
Macintosh LC/LC II Power Supply	3.7.1
Macintosh LC III, Performa 400 Series Power Supply	3.7.2
Macintosh Power Supply, 86 Watt	3.8.1
Macintosh Power Supply, 112 Watt	3.8.2
Macintosh Power Supply, 200 Watt	3.8.3
PowerBook 100 Battery Assembly	3.9.1
PowerBook 100 Battery Assembly	3.9.2
PowerBook 140/170 Battery Assembly	3.9.3
PowerBook 140/145/170 Battery Assembly,2.5 Amp	3.9.4
PowerBook 140/145/145B/160/170/180 Battery Assembly, 2.8 Amp	3.9.5
PowerBook 140/145/145B160/165/165c/170/180/180c Battery Assembly,2.9 Amp	3.9.6
Macintosh Duo Dock Power Supply	3.10.1

<b>Description</b>	<b>Page No.</b>
Macintosh PowerBook Duo 210/230/250/270c Battery Assembly with Door	3.10.2
PowerBook Duo 210/230/250/270c NiMH Battery Assembly with Door	3.10.3
PowerBook 520/540 Series Battery	3.11.1
 <b>INTERFACE CARDS</b>	
Macintosh SE-Bus PC Drive Card	4.1.1
Macintosh II PC Drive Card	4.1.2
Macintosh II Video Card (4-Bit Soldered Version)	4.1.3
Macintosh II Video Card (8-Bit Soldered Version)	4.1.4
Macintosh II High-Resolution Display Video Card (4-Bit Soldered Version)	4.1.5
Macintosh II Extended High-Resolution Display Video Card (8-Bit Soldered Version)	4.1.6
Macintosh II Monochrome Video Card (1-Bit)	4.1.7
Macintosh II Display Card 8•24	4.1.8
Macintosh II Display Card 8•24	4.1.9
Macintosh II Display Card 4•8	4.1.10
Macintosh II Display Card 4•8	4.1.11
Macintosh II Display Card 8•24 GC	4.1.12
Macintosh II Two-Page Monochrome Video Card	4.1.13
Macintosh II Portrait Display Video Card	4.1.14
Macintosh II Portrait Display Video Card	4.1.15
Macintosh II Apple EtherTalk Card (Rev. A-K)	4.2.1
Macintosh II Apple EtherTalk NB Card	4.2.2
Macintosh II Apple Ethernet NB Card	4.2.3
Macintosh II TokenTalk NB Card	4.2.4
Macintosh II Token Ring 4/16 NB Card	4.2.5
Macintosh II Apple Coax/Twinax Card	4.2.6
Macintosh II Apple Serial NB Card	4.2.7
Macintosh II ISDN NuBus Card	4.2.8
Macintosh II Apple Ethernet NB Twisted Pair Card	4.2.9
Macintosh Apple Token Ring NB/c Card, 7"	4.2.10
Macintosh IIci Cache Card	4.3.1
Macintosh IIci Cache Card, Revised	4.3.2
Macintosh LC II Apple Ethernet LC/LC II Card	4.3.3
Macintosh LC/LC II Apple IIe Card	4.3.4
Macintosh LC 575 Ethernet Card, 10 Base-T, Comm Slot	4.3.5
Macintosh LC 575 Ethernet Card, 10 Base-T, Comm Slot	4.3.6
Macintosh LC 575 Ethernet Card, AAUI, Comm Slot	4.3.7
Macintosh LC 575 Ethernet Card, Thin-net, Comm Slot	4.3.8
Macintosh LC/LCII Apple Ethernet LC Twisted Pair Card	4.3.9
PowerBook Duo 210/230 4 MB DRAM Card	4.4.1
PowerBook Duo 210/230 8 MB DRAM Card	4.4.2

Description	Page No.
Apple Workgroup Server 95 PDS Card	4.5.1
Apple Macintosh Display Card 24AC 24-Bit NuBus Card	4.5.2
CD Multimedia Kit for PCs Pro Audio Spectrum 16/SCSI Card	4.6.1
Macintosh Quadra 610 DOS Compatibility Card	4.7.1
Power Macintosh NuBus Adapter Card	4.8.1
Power Macintosh 7100 Video Card, 2 MB	4.8.2
Power Macintosh 8100 Video Card, 4 MB	4.8.3
Power Macintosh AV Card	4.8.4
Macintosh Apple Media Vision Jazz 16 Sound Card	4.9.1
 <b>MONITORS</b>	
AppleColor RGB Monitor CRT Video Board	5.1.1
AppleColor RGB Monitor Power Supply Board	5.1.2
Apple High-Resolution Monochrome Monitor Main Board	5.2.1
Apple High-Resolution Monochrome Monitor Power Supply	5.2.2
AppleColor High-Resolution RGB Monitor Video Color Board (Rev. A)	5.3.1
AppleColor High-Resolution RGB Monitor Video Color Board (Rev. B)	5.3.2
AppleColor High-Resolution RGB Monitor Deflection Board "D" (Rev. A)	5.3.3
AppleColor High-Resolution RGB Monitor Main Board (Rev. B)	5.3.4
AppleColor High-Resolution RGB Monitor Power Supply	5.3.5
Apple Two-Page Monochrome Monitor Deflection Board	5.4.1
Apple Two-Page Monochrome Monitor Power Supply	5.4.2
Apple Two-Page Monochrome Monitor Video Board	5.4.3
Portrait Display Monitor Power Sweep Board	5.5.1
Portrait Display Monitor Video Board	5.5.2
Portrait Display Monitor CRT Video Board	5.5.3
Portrait Display "Series B" Video Board	5.5.4
Portrait Display "Series B" Dynamic Focus Board, VDE-B	5.5.5
Portrait Display "Series B" Main Deflection Board, VDE-B	5.5.6
Macintosh 12-Inch Monochrome Display Main Board	5.6.1
Macintosh Color Classic CRT Assembly	5.6.2
Macintosh 21-Inch Color Monitor Video/Color Assembly	5.7.1
Macintosh 21-Inch Color Monitor Main Board Assembly	5.7.2
Macintosh 21-Inch Color Monitor Magnetometer Degauss Board	5.7.3
Macintosh 21-Inch Color Monitor Power Supply Board	5.7.4
Macintosh 12-Inch RGB Display CRT Video Board	5.8.1
Macintosh 12-Inch RGB Display CRT Video Board	5.8.2
Macintosh 12-Inch RGB Display Main PCB (Domestic Rev. A)	5.8.3

Description	Page No.
Macintosh 12-Inch RGB Display Main Board (International Rev. A)	5.8.4
Macintosh 12-Inch RGB Display Main Board (Domestic Rev. B)	5.8.5
Macintosh 12-Inch RGB Display Main Board (International Rev. B)	5.8.6
Macintosh 16-Inch Color Display CRT Video Board	5.9.1
Macintosh 16-Inch Color Display Main Board (Rev. A)	5.9.2
Macintosh 16-Inch Color Display Main Deflection Board (Rev. B)	5.9.3
Macintosh Color Display Main Deflection Board	5.10.1
Apple Audio Vision 14 Display Main Deflection Board	5.10.2
Macintosh Portable LCD Display	5.11.1
Macintosh Portable LCD Backlit Display	5.11.2
PowerBook 100 FSTN Display	5.12.1
PowerBook 140/145 FSTN Display (Rev. A)	5.12.2
PowerBook 140 FSTN Display (Rev. B)	5.12.3
PowerBook 140/145/170 Interconnect Board	5.12.4
PowerBook 145/160/165 FSTN Display (Rev. C)	5.12.5
PowerBook 160 Kit, FSTN Display (Rev C)	5.12.6
PowerBook 160/165/180 Interconnect Board	5.12.7
PowerBook 165c Interconnect Board	5.12.8
PowerBook 165c FSTN Color Display	5.12.9
PowerBook 170 Active-Matrix Display	5.12.10
PowerBook 180 Active-Matrix Display	5.12.11
PowerBook 180c Active-Matrix Color Display	5.12.12
PowerBook 180c Interconnect Board	5.12.13
PowerBook Duo 210/230 FSTN Display	5.13.1
PowerBook 520c Display, Dual Scan Color	5.13.2
PowerBook 520 Display, Dual Scan Grayscale	5.13.3
PowerBook 540 Display, TFT Grayscale	5.13.4
PowerBook 540c Display, TFT Color	5.13.5
Apple Basic Color Monitor, 110 V, U.S./ Pacific	5.14.1
Apple Basic Color Monitor, 220 V, Australia	5.14.2
Apple Basic Color Monitor, 110 V, U.S./Pacific	5.14.3
Apple Basic Color Monitor, 220 V, Australia	5.14.4
Apple Basic Color Monitor, 220 V, European	5.14.5
Apple Color Plus 14-Inch Display	5.14.6
Macintosh TV Tuner PCB	5.15.1
Apple Multiple Scan 17 Display	5.16.1
Apple Multiple Scan 17 Display CRT Video Board	5.16.2
Apple Multiple Scan 20 Display Main Deflection Board	5.16.3
Apple Multiple Scan 20 Display CRT Video Board	5.16.4
Apple multiple Scan 20 Display Power Supply Assembly	5.16.5

Description	Page No.
<b>DRIVES</b>	
Apple SuperDrive 1.4 MB Drive Mechanism	6.1.1
Apple SuperDrive 1.4 MB Drive Mechanism (1.44 Floppy Disk Drive without Auto Insert)	6.1.2
Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm	6.1.3
Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm	6.1.4
Apple External Hard Drive Enclosure/ Power Supply	6.1.5
Hard Disk 20SC, 20 MB, External HDA	6.2.1
Hard Disk 20 HDA 20 MB, 2.5", 17 mm, HDI-30	6.2.2
Hard Disk 20SC Power Supply	6.2.3
Hard Disk 20MB, 3.5", SCSI HDA	6.3.1
Hard Disk 20SC, 20 MB, 3.5" SCSI	6.3.2
Hard Disk 40SC, 40 MB, 5.25" SCSI	6.4.1
Hard Disk 40SC, 40 MB, 5.25" SCSI	6.4.2
Apple Hard Disk 40SC, HDA, 3.5" SCSI	6.4.3
Apple Hard Disk 40SC, HDA ,40 MB, 3.5" SCSI	6.4.4
Apple Hard Disk 40SC, HDA, 40 MB, 2.5" SCSI	6.4.5
Apple Hard Disk 40SC HDA, 40 MB, 2.5" SCSI PowerBook 100	6.4.6
Apple Hard Disk 40, HDA, 40 MB, 2.5" SCSI PowerBook 100	6.4.7
Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI	6.4.8
Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI	6.4.9
Hard Disk 80SC, 80 MB, 5.25", SCSI HDA	6.5.1
Hard Disk 80, 80 MB, 3.5", SCSI HDA	6.5.2
Apple Hard Disk 80SC, HDA, 80 MB, 3.5" SCSI	6.5.3
Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI	6.5.4
Apple Hard Disk 80SC, HDA, 80 MB, 3.5" SCSI	6.5.5
Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI	6.5.6
Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI	6.5.7
Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI, Internal	6.5.9
Apple Hard Disk 120, HDA, 120 MB, 3.5" SCSI	6.6.1
Apple Hard Disk 120, HDA MB, 2.5" SCSI	6.6.2
Apple Hard Disk 160, HDA, 160 MB, 2.5" SCSI	6.7.1
Apple Hard Disk 160, HDA, 160 MB, 5.25" SCSI	6.7.2
Apple Hard Disk 160SC, HDA,160 MB, 3.5" SCSI, External	6.7.3
Apple Hard Disk 160SC, 160 MB, 3.5" SCSI, Internal	6.7.4
Apple Hard Disk 160, HDA,160 MB, 3.5" SCSI	6.7.5
Apple Hard Disk 160, HDA,160 MB, 3.5" SCSI	6.7.6
Apple Hard Disk 160, HDA, 160 MB, 3.5" SCSI, Internal	6.7.7
Apple Hard Disk 160, HDA, 160 MB, 2.5" SCSI	6.7.8
Apple Hard Disk 160, HDA, 160 MB, 2.5" SCSI	6.7.9
Apple Hard Disk 200, HDA, 200 MB, 2.5" SCSI	6.8.1
Apple Hard Disk 230, HDA 230 MB, 3.5" SCSI	6.8.2

<b>Description</b>	<b>Page No.</b>
Apple Hard Disk 240, HDA, 240 MB, 2.5" SCSI	6.8.3
Apple Hard Disk 240, HDA, 240 MB, 2.5" SCSI	6.8.4
Apple Hard Disk 250, HDA, 250 MB, 3.5" SCSI, Internal	6.8.5
Apple Hard Disk 320, HDA, 320 MB, 3.5" SCSI, Internal	6.8.6
Apple Hard Disk 320, HDA, 320 MB, 2.5" SCSI	6.8.7
Hard Disk 400, 400 MB, Internal SCSI HDA	6.9.1
Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI	6.10.1
Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI, Internal	6.10.2
Apple Hard Disk 1 GB, HDA, 1 GB, 3.5" SCSI	6.11.1
Apple Hard Disk 1 GB, HDA, 1 GB, 3.5" SCSI	6.11.2
Apple Hard Disk 2 GB, HDA, 2 GB, 3.5" SCSI	6.11.3
AppleCD SC, Drive Mechanism	6.12.1
AppleCD SC Plus	6.12.2
AppleCD 150 Drive	6.13.1
AppleCD 150 Drive Mechanism	6.13.2
AppleCD 150 Power Supply	6.13.3
AppleCD 300	6.14.1
AppleCD 300 Drive Mechanism, Internal	6.14.2
AppleCD 300 Power Supply	6.14.3
AppleCD 300 Plus Drive Mechanism, Internal, Trayload	6.14.4
AppleCD 300e Plus Drive Mechanism, External	6.14.5
Apple Tape Backup Mechanism 40 MB	6.15.1
Apple DDS-DC 4, 2 GB SCSI, Tape Drive	6.16.1
Apple DAT, DDS-2, 120M, Tape Drive	6.16.2
PowerBook 520/540 Series Floppy Drive Mechanism	6.17.1
<b>DATA COMMUNICATION</b>	
Macintosh Portable Domestic Modem, Internal	7.1.1
Macintosh Portable Int'l XP 2400 Card	7.1.2
PowerBook 100/140/145/145B/160/165c/170/180/180c Domestic Modem, Internal	7.2.1
PowerBook 160/165/165c/180/180c Express Modem	7.2.2
PowerBook Duo 210/230 Domestic Modem	7.3.1
PowerBook 520/540 Series Modem, International	7.4.1
PowerBook 520/540 Series Modem, US	7.4.2
GeoPort Telecom Adapter	7.5.1
<b>PRINTERS</b>	
ImageWriter II/II L Print Head	8.1.1
ImageWriter II Drive Board	8.1.2
ImageWriter II 32K Option Board	8.1.3
ImageWriter II Main Logic Board	8.1.4
ImageWriter II Main Logic Board	8.1.5

Description	Page No.
ImageWriter LQ Main Logic Board	8.1.6
ImageWriter LQ Main Logic Board	8.1.7
ImageWriter LQ Print Head	8.1.8
ImageWriter LQ Cut SheetFeeder Single Bin	8.1.9
ImageWriter LQ Cut SheetFeeder Extension Bin	8.1.10
ImageWriter II/L Main CPU PCB	8.1.11
ImageWriter II/L Power Supply Board (110/120 V)	8.1.12
ImageWriter II/L Power Supply Board (220/240 V)	8.1.13
LaserWriter/LaserWriter Plus I/O Board	8.2.1
LaserWriter DC Controller	8.2.2
LaserWriter Power Supply/Motor Drive (110 V)	8.2.3
LaserWriter Power Supply/Motor Drive (220 V)	8.2.4
LaserWriter High-Voltage Power Supply (110 V)	8.2.5
LaserWriter Driver (110 V)	8.2.6
LaserWriter Driver (220 V)	8.2.7
LaserWriter Scanner Unit, 300 dpi	8.2.8
LaserWriter Laser Unit	8.2.9
LaserWriter I/O PCB Power Supply	8.2.10
LaserWriter I/O Board	8.2.11
LaserWriter Fuser Assembly (115 V)	8.2.12
LaserWriter Plus I/O Board	8.2.13
ImageWriter II and II/L Sheet Feeder	8.3.1
ImageWriter II, II/L, and LQ LocalTalk Option Card	8.3.2
LaserWriter II SC Board	8.4.1
LaserWriter II NT Board	8.4.2
LaserWriter II NTX Board	8.4.3
LaserWriter II NTX I/O Board (Rev. 3.0)	8.4.4
LaserWriter II Power Supply Block	8.4.5
LaserWriter II High-Voltage Power Supply	8.4.6
LaserWriter DC Power Supply	8.4.7
LaserWriter II Laser/Scanner Unit	8.4.8
LaserWriter II Fuser Assembly	8.4.9
LaserWriter II DC Controller Board	8.4.10
LaserWriter II Engine (Whole Unit)	8.4.11
LaserWriter IIg I/O Board (SIMM-less)	8.4.12
LaserWriter IIlf I/O Board (SIMM-less)	8.4.13
Apple Personal LaserWriter SC I/O Board	8.5.1
Apple Personal LaserWriter NT I/O Board	8.5.2
Apple Personal LaserWriter NT, SC, & NTR DC Controller Board	8.5.3
Apple Personal LaserWriter Fuser	8.5.4
Apple Personal LaserWriter NT, SC and NTR Power Supply Unit	8.5.5
Apple Personal LaserWriter High-Voltage Power Supply	8.5.6

Description	Page No.
Apple Personal LaserWriter Laser Assembly	8.5.7
Apple Personal LaserWriter Scanner Assembly	8.5.8
Apple Personal LaserWriter ROM SIMM, 256K	8.5.9
Apple Personal LaserWriter ROM SIMM, 1 MB	8.5.10
Personal LaserWriter NTR I/O Board	8.5.11
Personal LaserWriter NTR SIMM, 1 MB, 80 ns, 72-Pin	8.5.12
Apple Personal LaserWriter LS Serial I/O Board	8.6.1
Apple Personal LaserWriter LS Power Supply Unit	8.6.2
Apple Personal LaserWriter LS DC Controller Board	8.6.3
Apple Personal LaserWriter LS/L Power Supply Unit	8.6.4
Apple Personal LaserWriter LS/L Serial Controller	8.6.5
LaserWriter Pro Power Supply	8.7.1
LaserWriter Pro High-Voltage Power Supply	8.7.2
LaserWriter Pro DC Controller Board	8.7.3
LaserWriter Pro Fuser Assembly	8.7.4
LaserWriter Pro Laser/Scanner Assembly	8.7.5
LaserWriter Pro SIMM, 4 MB, 80 ns, 72-Pin	8.7.6
LaserWriter Pro SIMM, 8 MB, 80 ns, 72-Pin	8.7.7
LaserWriter Pro 600 I/O Board	8.7.8
LaserWriter Pro 630 I/O Board	8.7.9
LaserWriter Pro Envelope Feeder Controller Board	8.7.10
LaserWriter Pro 500 Sheet Feeder Controller Board	8.7.11
Apple Personal LaserWriter 300 Fuser Assembly (110 V)	8.7.12
Apple Personal LaserWriter 300 Fuser Assembly (220 V)	8.7.13
Apple Personal LaserWriter 300 Laser/Assembly	8.7.14
Apple Personal LaserWriter 300 Controller Assembly (240 V)	8.7.15
Apple Personal LaserWriter 300 Controller Assembly (120 V)	8.7.16
Apple Personal LaserWriter 320 I/O Controller Board	8.7.17
Apple Personal LaserWriter RAM Expansion Card, 2 MB	8.7.18
Apple Personal LaserWriter 320 RAM Expansion Card, 2 MB	8.7.19
Apple Personal LaserWriter 320, RAM Expansion Card, 6 MB	8.7.20
LaserWriter Select 360 I/O Controller Board	8.7.21
LaserWriter Select 360 DC Controller Board	8.7.22
LaserWriter Select 360 High-Voltage Power Supply	8.7.23
LaserWriter Select 360 Fuser Assembly, 115 V	8.7.24
LaserWriter Select 360 Fuser Assembly, 220 V	8.7.25
LaserWriter Pro 360 Laser Optic Assembly	8.7.26
LaserWriter Pro 360 Scanner Motor	8.7.27
LaserWriter Pro 360 Fax Card	8.7.28
LaserWriter Pro 810 DC Controller Board	8.7.29
LaserWriter Pro 810 Power Supply, 115 V	8.7.30
LaserWriter Pro 810 Power Supply, 220 V	8.7.31

<b>Description</b>	<b>Page No.</b>
LaserWriter Pro 810 I/O Controller Board	8.7.32
LaserWriter Pro 810 4 MB Memory Card	8.7.33
LaserWriter Pro 810 8 MB Memory Card	8.7.34
LaserWriter Pro 810 High Resolution Card	8.7.35
LaserWriter Pro 810 Communications Card	8.7.36
LaserWriter Pro 810 Fax Card	8.7.37
LaserWriter Pro 810 Ethernet Card	8.7.38
LaserWriter Pro 810 Ethernet Card, 10 Base T	8.7.39
LaserWriter Pro 810 Ethernet Card, 10 Base 2	8.7.40
LaserWriter Pro 810 Fuser, 110 V	8.7.41
LaserWriter Pro 810 Fuser, 220 V	8.7.42
LaserWriter Pro 810 High-Voltage Power Supply	8.7.43
LaserWriter Pro 810 Laser/Scanner Unit	8.7.44
LaserWriter Select DC Controller Board	8.8.1
LaserWriter Select Laser Optic Assembly	8.8.2
LaserWriter Select Scanner Motor	8.8.3
LaserWriter Select High-Voltage Power Supply	8.8.4
LaserWriter Select Power Supply	8.8.5
LaserWriter Select Fuser Assembly	8.8.6
LaserWriter Select 300 I/O Board	8.8.7
LaserWriter Select 310 I/O Board	8.8.8
StyleWriter Cut Sheet Feeder	8.9.1
StyleWriter Printer Frame Assembly	8.9.2
StyleWriter Main Logic Board	8.9.3
StyleWriter Whole Unit, Ink Jet	8.9.4
Apple Portable StyleWriter Whole Unit	8.9.5
Apple Portable StyleWriter Automatic Sheet Feeder	8.9.6
Apple Portable StyleWriter Battery, NiCad	8.9.7
Apple Color StyleWriter Pro Controller Board	8.9.8
Apple Color StyleWriter Pro Power Supply 110 V	8.9.9
Apple Color StyleWriter Pro Power Supply 220/240 V	8.9.9
Apple Scanner Main Logic Board, 4-Bit	8.10.1
Apple Scanner Main Logic Board, 4-Bit	8.10.2
Apple Scanner Optical Assembly, 4-Bit	8.10.3
Apple Scanner Power Supply, PCB Assembly	8.10.4
Apple OneScanner Main Logic Board, 8-Bit	8.11.1
Apple OneScanner Optical Assembly, 8-Bit	8.11.2
Apple Color OneScanner Power Supply, PCB Assembly, 24-Bit	8.12.1
Apple Color OneScanner Power Supply, PCB Assembly, 240 V, 24-Bit (International Only)	8.12.2
Apple Color OneScanner Main Logic Board, 24-Bit	8.12.3
Apple Color OneScanner Optical Assembly, 24-Bit	8.12.4

<b>Description</b>	<b>Page No.</b>
--------------------	-----------------

---

One Scanner for Windows SCSI Card	8.12.5
Apple Color Printer SCSI Card Assembly	8.13.1
Apple Color Printer Bubble-Jet Head Unit	8.13.2

**INPUT DEVICES**

Apple Desktop Bus Mouse	9.1.1
Apple Adjustable Keypad	9.1.2
Apple Desktop Bus Mouse II	9.1.3
Macintosh Portable Numeric Keypad	9.2.1
Macintosh Portable Lightweight Numeric Keypad	9.2.2
Macintosh Portable Trackball Assembly	9.2.3
PowerBook 100 Trackball Assembly	9.3.1
PowerBook 140/145/160/170/180 Trackball Assembly	9.3.2
PowerBook 140/145/145B/160/165c/170/180/180c Trackball Assembly	9.3.3
PowerBook Duo 210/230/250/270c Trackball Assembly	9.3.4
PowerBook 520/540 Series TrackPad	9.3.5
Macintosh TV Desktop Bus Mouse II	9.4.1

**MISCELLANEOUS**

Apple TechStep Assembly	10.1.1
AppleDesign Powered Speakers	
Main Speaker	10.2.1
AppleDesign Powered Speakers	
Main Speaker with Subwoofer Jack	10.2.2
AppleDesign Powered Speakers Main Speakers	10.2.3
AppleDesign Powered Speakers II	
Speaker Assembly (Platinum)	10.2.4
PowerCD Player	10.3.1
PowerCD Base, Battery Pack/SCSI	10.3.2
PowerBook 520/540 Series PCMCIA Expansion Module	10.4.1

Module Cross Reference by Part Number

**Part No. Page No. Description**

---

661-0004	5.6.2	Macintosh Color Classic CRT Assembly, 9-inch RGB, U.S.
661-0008	5.14.1	Apple Basic Color Monitor, 110 V, U.S./ Pacific
x661-0008	5.14.2	Apple Basic Color Monitor, 220 V, Australia
661-0009	5.14.3	Apple Basic Color Monitor, 110 V, U.S./ Pacific
x661-0009	5.14.4	Apple Basic Color Monitor, 220 V, Australia
Z661-0010	5.14.5	Apple Basic Color Monitor, 220 V, European
661-0013	3.9.6	PowerBook 140/145/145B/160/165c/170/180/180c Battery Assembly, 2.9 Amp
661-0014	6.8.3	Apple Hard Disk 240, HDA, 240 MB, 2.5" SCSI
661-0015	6.7.8	Apple Hard Disk 160, HDA, 160 MB, 2.5" SCSI
661-0021	6.6.1	Apple Hard Disk 120, HDA, 120 MB, 3.5" SCSI
661-0023	6.14.2	AppleCD 300 Drive Mechanism, Internal
661-0025	8.7.12	Personal LaserWriter 300 Fuser Assembly (110 V)
661-0026	8.7.13	Personal LaserWriter 300 Fuser Assembly (220 V)
661-0027	8.7.14	Personal LaserWriter 300 Laser/Scanner Assembly
661-0028	8.7.15	Personal LaserWriter 300 Controller Assembly (240 V)
661-0029	8.7.16	Personal LaserWriter 300 Controller Assembly (120 V)
661-0030	8.7.17	Personal LaserWriter 300 I/O Board
661-0032	6.1.5	Apple External Hard Drive Enclosure/ Power Supply
661-0036	4.3.8	Macintosh LC 575 Ethernet Card, Thin-net, Comm Slot
661-0037	2.4.5	PowerBook 520/540 Series Keyboard, US
661-0038	9.3.5	PowerBook 520/540 Series TrackPad
661-0039	6.16.2	Apple Tape Drive, DAT, DDS-2, 120M
661-0042	1.5.12	Macintosh Quadra 610 Logic Board (without FPU)
661-0043	1.5.13	Macintosh Quadra 610 Logic Board
661-0044	1.5.14	Macintosh Quadra 650 Logic Board, 8 MB
661-0048	10.2.4	AppleDesign Powered Speakers II Speaker Assembly (Platinum)

Module Cross Reference by Part Number

**Part No. Page No. Description**

---

661-0049	4.8.1	Power Macintosh NuBus Adapter Card
661-0051	1.17.7	PowerBook Duo 280/280c Logic Board
661-0054	1.17.10	PowerBook 520/540 Series Motherboard, Rev. A
661-0055	3.11.1	PowerBook 520/540 Series Battery
661-0056	5.13.5	PowerBook 540c Display, TFT Color
661-0057	1.17.13	PowerBook 540/540c Daughterboard, 33 MHz, Rev. A
661-0058	1.17.12	PowerBook 520/540 Series RAM Expansion, 8MB
661-0059	1.17.8	PowerBook 520/520c Daughterboard, 25 MHz, Rev. A
661-0060	6.7.1	Apple Hard Disk 160, HDA, 160 MB, 2.5" SCSI
661-0061	6.17.1	PowerBook 520/540 Series Floppy Drive Mechanism
661-0062	5.13.2	PowerBook 520c Display, Dual Scan Color
661-0063	5.13.4	PowerBook 540 Display, TFT Grayscale
661-0064	5.13.3	PowerBook 520 Display, Dual Scan Grayscale
661-0065	6.11.2	Apple Hard Disk 1 GB, HDA, 1 GB, 3.5" SCSI
661-0100	4.9.1	Macintosh Apple Media Vision Jazz 16 Sound Card
661-0106	7.4.1	PowerBook 520/540 Series Modem, International
661-0107	7.4.2	PowerBook 520/540 Series Modem, US
661-0108	1.17.11	PowerBook 520/540 Series MotherBoard, Rev. B
661-0109	1.17.4	PowerBook 540/540c Daughterboard, 33 MHz, Rev.B
661-0110	6.12.1	AppleCD SC Drive Mechanism
661-0111	6.5.8	Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI
661-0112	6.4.8	Apple Hard Disk 40, HDA, 40 MB, 3.5" SCSI
661-0117	5.5.1	Portrait Display Monitor Power Sweep Board
661-0118	5.5.2	Portrait Display Monitor Video Board
661-0119	5.5.3	Portrait Display Monitor CRT Video Board
661-0121	6.1.2	Apple SuperDrive 1.4 MB Drive Mechanism
661-0122	1.17.9	PowerBook 520/520c Daughterboard, 25 MHz, Rev. B
661-0131	1.19.5	Power Macintosh 512K, SIMM, Cache
661-0132	1.20.1	Workgroup Server 9150 Logic Board

**Part No. Page No. Description**


---

661-0136	4.2.10	Apple Token Ring NB/c Card, 7"
661-0137	10.4.1	PowerBook 520/540 Series PCMCIA Expansion Module
661-0220	1.3.14	Macintosh/Macintosh Plus ROMs
661-0221	1.3.14	Macintosh/Macintosh Plus ROMs
661-0222	6.14.4	AppleCD 300 Plus Drive Mechanism, Internal, Trayload
661-0225	6.14.5	AppleCD 300e Plus Drive Mechanism, External
661-0226	4.3.9	Macintosh LC/LC II
661-0266	8.2.5	LaserWriter High-Voltage Power Supply (110 V)
661-0267	8.2.2	LaserWriter DC Controller
661-0268	8.2.6	LaserWriter Driver (110 V)
661-0269	8.2.7	LaserWriter Driver (220 V)
661-0270	8.2.1	LaserWriter/LaserWriter Plus I/O Board
661-0273	8.2.3	LaserWriter Power Supply/Motor Drive (110 V)
661-0274	8.2.4	LaserWriter Power Supply/Motor Drive (220 V)
661-0277	8.2.9	LaserWriter Laser Unit
661-0278	8.2.8	LaserWriter Scanner Unit, 300 dpi
661-0303	8.1.2	ImageWriter II Drive Board
661-0304	8.1.4	ImageWriter II Main Logic Board
661-0310	2.2.6	AppleDesigned Keyboard (with cable attached)
661-0316	8.1.1	ImageWriter II, II/L Print Head
661-0319	8.1.3	ImageWriter II 32K Option Board
661-0321	1.1.1	Macintosh Plus Logic Board
661-0322	2.1.1	Macintosh Plus Keyboard with Cable
661-0323	8.2.10	LaserWriter I/O PCB Power Supply
661-0324	8.2.1	LaserWriter/LaserWriter Plus I/O Board
661-0325	8.3.2	ImageWriter II, and II L and LQ LocalTalk Option Card
661-0329	8.3.1	ImageWriter II, and II L Sheet Feeder (White)
661-0338	9.1.1	Apple Desktop Bus Mouse
661-0342	6.2.1	Hard Disk 20SC, 20 MB, External HDA
661-0343	6.2.3	Hard Disk 20SC Power Supply
661-0347	5.1.1	AppleColor RGB Monitor CRT Video Board
661-0348	5.1.2	AppleColor RGB Monitor Power Supply Board (110 V)
661-0358	5.1.2	AppleColor RGB Monitor Power Supply Board (220/240 V)
661-0369	1.4.1	Macintosh SE Logic Board
661-0370	3.3.1	Macintosh SE Power Supply

**Part No. Page No. Description**


---

661-0371	1.4.7	Macintosh SE Analog Board
661-0372	1.4.8	Macintosh SE Video Board
661-0373	6.3.1	Hard Disk 20MB, 3.5" SCSI HDA
661-0374	1.2.1	Macintosh II Logic Board
661-0375	3.2.1	Macintosh II Power Supply
661-0376	4.1.3	Macintosh II Video Card
661-0383	2.2.4	Apple Keyboard
661-0384	2.2.1	Apple Extended Keyboard
661-0391	6.4.1	Hard Disk 40,HDA, 40 MB, 5.25" SCSI
661-0392	6.15.1	Apple Tape Backup Mechanism 40MB
661-0395	5.2.2	Apple High-Resolution Monochrome Monitor Power Supply
661-0396	5.2.1	Apple High-Resolution Monochrome Monitor Main Board
661-0397	5.3.5	AppleColor High-Resolution RGB Monitor Power Supply (Rev. A)
661-0398	5.3.1	AppleColor High-Resolution RGB Monitor Video Color Board (Rev. A)
661-0399	5.3.3	AppleColor High-Resolution RGB Monitor Deflection Board "D" (Rev. A)
661-0401	8.3.1	ImageWriter I, and II L Sheet Feeder (Platinum)
661-0402	1.3.1	Apple 256K SIMM, 120 ns
661-0403	1.3.4	Apple 1 MB SIMM, 120 ns
661-0404	8.1.6	ImageWriter LQ Main Logic Board
661-0405	8.1.8	ImageWriter LQ Print Head
661-0406	4.1.1	Macintosh SE-Bus PC Drive Card
661-0407	4.1.2	Macintosh II PC Drive Card
661-0410	1.3.5	Apple 1 MB SIMM, DIP, 120 ns
661-0411	6.5.1	Hard Disk 80SC, 80 MB, 5.25" SCSI HDA
661-0413	8.1.5	ImageWriter II Main Logic Board
661-0414	4.2.1	Macintosh II Apple EtherTalk Card
661-0416	2.1.1	Macintosh Plus Keyboard with Cable
661-0423	8.4.8	LaserWriter II Laser/Scanner Unit
661-0424	8.4.7	LaserWriter DC Power Supply (110 V)
661-0425	8.4.6	LaserWriter II High-Voltage Power Supply
661-0426	8.4.10	LaserWriter II DC Controller Board
661-0427	8.4.5	LaserWriter II Power Supply Block (110 V)
661-0428	8.4.1	LaserWriter II SC Board
661-0429	8.4.3	LaserWriter II NTX Board
661-0430	8.10.1	Apple Scanner Main Logic Board, 4-Bit
661-0431	8.10.4	Apple Scanner Power Supply, PCB Assembly
661-0432	4.5.2	Apple Macintosh Display Card 24 AC 24-Bit NuBus Card

Module Cross Reference by Part Number

**Part No. Page No. Description**

---

661-0436	8.2.11	LaserWriter I/O Board
661-0437	8.2.13	LaserWriter Plus I/O Board
661-0438	8.4.2	LaserWriter II NT Board
661-0440	8.4.9	LaserWriter II Fuser Assembly (110 V)
661-0442	8.4.7	LaserWriter DC Power Supply (220/240 V)
661-0443	8.4.5	LaserWriter II Power Supply Block (220/240 V)
661-0444	8.4.9	LaserWriter II Fuser Assembly (220/240 V)
661-0446	8.1.9	ImageWriter LQ Cut SheetFeeder Single Bin
661-0447	8.1.10	ImageWriter LQ Cut SheetFeeder Extension Bin
661-0449	8.10.3	Apple Scanner Optical Assembly, 4-Bit
661-0450	8.2.12	LaserWriter Fuser Assembly (115 V)
661-0451	5.4.1	Apple Two-Page Monochrome Monitor Deflection Board
661-0452	5.4.3	Apple Two-Page Monochrome Monitor Video Board
661-0453	5.4.2	Apple Two-Page Monochrome Monitor Power Supply
661-0456	4.1.13	Macintosh II Two-Page Monochrome Video Card
661-0457	6.5.1	Hard Disk 80SC, 80 MB, 5.25", SCSI HDA with A/UX
661-0458	4.2.6	Macintosh II Apple Coax/Twinax Card
661-0459	1.2.5	Macintosh IIcx Logic Board
661-0460	4.2.4	Macintosh II TokenTalk NB Card
661-0461	3.1.1	Macintosh Power Supply (110 V) Beige Switch
661-0462	3.1.1	Macintosh Power Supply (110 V) Platinum Switch
661-0463	1.2.3	Macintosh IIx Logic Board
661-0465	7.1.2	Macintosh Portable Int'l XP 2400 Card
661-0467	3.4.1	Macintosh IIcx/ci Power Supply
661-0468	7.1.1	Macintosh Portable Domestic Modem, Internal
661-0469	6.5.9	Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI, Internal
661-0470	1.12.1	Macintosh Portable Logic Board
661-0473	5.11.1	Macintosh Portable LCD Display
661-0474	6.1.1	Apple SuperDrive 1.4 MB Drive Mechanism
661-0475	9.2.3	Macintosh Portable Trackball Assembly
661-0476	2.3.1	Macintosh Portable Keyboard

**Part No. Page No. Description**

---

661-0477	9.2.1	Macintosh Portable Numeric Keypad
661-0479	9.1.1	Apple Desktop Bus Mouse
661-0480	1.12.2	Macintosh Portable RAM Expansion Card, 1 MB
661-0490	1.4.2	Macintosh SE Revised Logic Board
661-0492	4.1.4	Macintosh II Video Card
661-0493	4.1.5	Macintosh II High-Resolution Display Video Card (4-Bit Soldered Version)
661-0494	1.3.2	Apple 256K SIMM, DIP, 120 ns
661-0496	4.2.2	Macintosh II Apple EtherTalk NB Card
661-0503	6.7.7	Apple Hard Disk 160, HDA 160 MB, 3.5" SCSI, Internal
661-0505	6.8.6	Apple Hard Disk 320, HDA, 320 MB, 3.5" SCSI
661-0506	5.16.3	Apple Multiple Scan 20 Display Main Deflection Board
661-0507	5.16.4	Apple Multiple Scan 20 Display CRT/Video Board
661-0508	5.16.5	Apple Multiple Scan 20 Display Power Supply Assembly
661-0510	1.4.5	Macintosh SE/30 Logic Board
661-0517	4.2.7	Macintosh II Apple Serial NB Card
661-0518	4.1.7	Macintosh II Monochrome Video Card (1-Bit)
661-0519	1.3.3	Apple 256K SIMM, SOJ, 80 ns
661-0520	1.3.6	Apple 1 MB SIMM, SOJ, 80 ns
661-0522	1.8.1	Macintosh IIcx Logic Board
661-0525	1.1.2	Macintosh Plus Logic Board
661-0526	1.4.3	Macintosh SE 800K Logic Board
661-0527	1.4.6	Macintosh SE/30 Logic Board
661-0528	1.2.2	Macintosh II Logic Board
661-0529	1.2.4	Macintosh IIx Logic Board
661-0532	1.6.1	Macintosh IIci Logic Board
661-0533	4.1.6	Macintosh II Extended High-Resolution Display Video Card
661-0534	8.10.2	Apple Scanner Main Logic Board, 4-Bit
661-0536	1.4.4	Macintosh SE Apple SuperDrive Logic Board
661-0537	1.2.6	Macintosh IIcx Logic Board
661-0539	5.5.4	Portrait Display "Series B" Video Board
661-0540	6.4.3	Apple Hard Disk 40, HDA, 40 MB, 3.5" SCSI
661-0543	2.2.2	Apple Extended Keyboard II
661-0546	1.3.8	Apple 1 MB SIMM, SOJ, 80 ns, Parity
661-0561	6.5.2	Hard Disk 80, 80 MB, 3.5", SCSI HDA with A/UX 1.1
661-0563	8.1.7	ImageWriter LQ Main Logic Board

Module Cross Reference by Part Number

**Part No. Page No. Description**

---

661-0565	8.5.2	Apple Personal LaserWriter NT I/O Board
661-0566	8.5.1	Apple Personal LaserWriter SC I/O Board
661-0567	8.5.3	Apple Personal LaserWriter NT, SC, & NTR DC Controller Board
661-0568	8.5.4	Apple Personal LaserWriter Fuser (110/115 V)
661-0569	8.5.5	Apple Personal LaserWriter NT, SC and NTR Power Supply Unit (110/115 V)
661-0570	8.5.10	Apple Personal LaserWriter ROM SIMM, 1 MB
661-0571	8.5.7	Apple Personal LaserWriter Laser Assembly
661-0572	8.5.8	Apple Personal LaserWriter Scanner Assembly
661-0573	8.5.6	Apple Personal LaserWriter High-Voltage Power Supply
661-0574	8.5.5	Apple Personal LaserWriter NT, SC and NTR Power Supply Unit (220/240 V)
661-0575	8.5.4	Apple Personal LaserWriter Fuser (220/240 V)
661-0580	5.5.6	Portrait Display "Series B" Main Deflection Board, VDE-B
661-0581	8.1.11	ImageWriter II, II/L Main CPU PCB
661-0582	8.1.12	ImageWriter II/L Power Supply Board (110/120 V)
661-0583	1.6.2	Macintosh IIci Logic Board (with Parity)
661-0584	6.7.3	Apple Hard Disk 160SC, HDA, 160 MB, 5.25" External SCSI
661-0585	9.1.1	Apple Desktop Bus Mouse
661-0586	4.1.15	Apple Macintosh II Portrait Display Video Card w/o cable
661-0587	4.1.15	Apple Macintosh II Portrait Display Video Card w/ cable
661-0593	1.11.1	Macintosh LC Main Logic Board
661-0594	3.7.1	Macintosh LC/LC II Power Supply
661-0595	4.3.4	Macintosh LC/LC II Apple IIe Card
661-0596	1.5.1	Macintosh Classic Logic Board
661-0597	1.5.2	Macintosh Classic Power Sweep Board (110 V) Rev. A
661-0598	1.5.4	Macintosh Classic Memory Expansion Board
661-0600	6.5.3	Apple Hard Disk 80, HDA, 80 MB, 3.5" SCSI
661-0601	6.7.2	Apple Hard Disk 160, HDA, 160 MB, 5.25" SCSI

**Part No. Page No. Description**

---

661-0602	8.5.9	Apple Personal LaserWriter ROM SIMM, 256K
661-0603	2.2.5	Apple Keyboard II
661-0604	4.1.14	Macintosh II Portrait Display Video Card
661-0606	4.1.12	Macintosh II Display Card 8•24 GC
661-0607	4.1.10	Macintosh II Display Card 4•8
661-0608	4.1.8	Macintosh II Display Card 8•24
661-0609	1.3.11	Apple 256K SIMM, VRAM, 100 ns
661-0612	6.3.2	Hard Disk 20SC, 20 MB, 3.5" SCSI HDA
661-0613	6.5.2	Hard Disk 80, 80 MB, 3.5" SCSI HDA with A/UX 2.0
661-0614	6.4.4	Apple Hard Disk 40, HDA, 40 MB, 3.5" SCSI
661-0615	5.6.1	Macintosh 12-Inch Monochrome Display Main Board
661-0616	5.8.3	Macintosh 12-Inch RGB Display Main PCB (Domestic Rev. A)
661-0617	5.8.4	Macintosh 12-Inch RGB Display Main Board (International Rev. A)
661-0618	5.8.1	Macintosh 12-Inch RGB Display CRT Video Board
661-0619	4.2.3	Macintosh II Apple Ethernet NB Card
661-0620	4.2.8	Macintosh II ISDN NuBus Card
661-0621	4.3.3	Macintosh LC Apple Ethernet LC/LC II Card
661-0624	6.5.4	Apple Hard Disk 80, HDA, 80 MB 3.5" SCSI
661-0625	6.7.4	Apple Hard Disk 160SC, HDA, 160 MB, 3.5" SCSI
661-0628	8.9.1	StyleWriter Cut Sheet Feeder
661-0629	8.9.3	StyleWriter Main Logic Board (Rev. A)
661-0630	8.9.2	StyleWriter Printer Frame Assembly (Rev. A)
661-0631	8.6.1	Apple Personal LaserWriter LS Serial I/O Board
661-0632	1.3.14	Macintosh/Macintosh Plus ROMs
661-0633	1.3.14	Macintosh/Macintosh Plus ROMs
661-0634	8.11.2	Apple OneScanner Optical Assembly, 8-Bit
661-0635	8.11.1	Apple OneScanner Main Logic Board, 8-Bit
661-0636	8.6.2	Apple Personal LaserWriter LS Power Supply Unit (110/115 V)
661-0637	8.6.2	Apple Personal LaserWriter LS Power Supply Unit (220/240 V)
661-0639	1.3.16	Macintosh II ROMs
661-0640	1.3.16	Macintosh II ROMs

**Part No. Page No. Description**

661-0641	1.3.16	Macintosh II ROMs
661-0642	1.3.16	Macintosh II ROMs
661-0643	1.3.9	Apple 2 MB SIMM, SOJ, 80 ns
661-0644	1.9.3	Macintosh IIsi '030 Direct Slot Expansion Adaptor
661-0645	1.9.2	Macintosh IIsi NuBus Expansion Adaptor
661-0646	1.3.10	Apple 512K SIMM, SOJ, 80 ns
661-0647	5.11.2	Macintosh Portable LCD Backlit Display
661-0649	1.3.13	Apple 512K SIMM, VRAM
661-0650	8.6.3	Apple Personal LaserWriter LS DC Controller Board
661-0651	1.5.3	Macintosh Classic, Performa 200 Power Sweep Board (110 V) Rev. B
661-0653	5.3.2	AppleColor High-Resolution RGB Monitor Video Color Board (Rev. B)
661-0654	5.3.4	AppleColor High-Resolution RGB Monitor Main Board (Rev. B)
661-0655	5.7.1	Macintosh 21-Inch Color Monitor Video/ Color Assembly
661-0656	5.7.2	Macintosh 21-Inch Color Monitor Main Board Assembly
661-0657	5.7.3	Macintosh 21-Inch Color Monitor Magnetometer Degauss Board
661-0658	5.7.4	Macintosh 21-Inch Color Monitor Power Supply Board
661-0659	5.8.5	Macintosh 12-Inch RGB Display Main Board (Domestic Rev. B)
661-0660	5.8.6	Macintosh 12-Inch RGB Display Main Board (International Rev. B)
661-0664	3.5.1	Macintosh Quadra 900 Power Supply
661-0665	1.7.1.1	Macintosh Quadra 900 Logic Board
661-0666	1.7.8	Macintosh Quadra 700 Logic Board
661-0667	8.6.4	Apple Personal LaserWriter LS/L Power Supply Unit (220/240 V)
661-0668	8.6.4	Apple Personal LaserWriter LS/L Power Supply Unit (110/115 V)
661-0669	8.6.5	Apple Personal LaserWriter LS/L Serial Controller
661-0671	6.12.2	AppleCD SC Plus Drive Mechanism
661-0672	1.5.5	Macintosh ClassicII, Performa 200 Logic Board
661-0673	1.13.1	PowerBook 100 Motherboard
661-0674	1.13.3	PowerBook 100 Daughterboard
661-0675	5.12.1	PowerBook 100 FSTN Display
661-0676	9.3.1	PowerBook 100 Trackball Assembly
661-0677	4.1.1.1	Macintosh II Display Card 4•8

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-0678	4.1.9	Macintosh II Display Card 8*24
661-0681	5.12.3	PowerBook 140 FSTN Display (Rev. B)
661-0684	1.16.9	PowerBook 180c Daughterboard
661-0685	5.12.13	PowerBook 180c Interconnect Board
661-0686	5.12.12	PowerBook 180c Active-Matrix Color Display
661-0687	8.7.18	Apple Personal LaserWriter 320 I/O Controller Board
661-0688	8.7.19	Apple Personal LaserWriter 320 RAM Expansion Card, 2 MB
661-0689	8.7.20	Apple Personal LaserWriter 320 RAM Expansion Card, 6 MB
661-0701	1.3.15	Macintosh SE and SE/30 ROMs
661-0702	1.3.15	Macintosh SE and SE/30 ROMs
661-0703	10.1.1	Apple TechStep Assembly
661-0705	5.3.5	AppleColor High-Resolution RGB Monitor Power Supply (Rev. B)
661-0706	5.12.2	PowerBook 140/145 FSTN Display (Rev. A)
661-0707	1.13.4	PowerBook 140 Daughterboard
661-0708	1.13.2	PowerBook 140/145/170 Motherboard
661-0709	1.13.5	PowerBook 170 Daughterboard
661-0710	9.3.2	PowerBook 140/145/160/170/180 Trackball Assembly
661-0711	5.12.10	PowerBook 170 Active-Matrix Display
661-0712	2.4.2	PowerBook 140/145/160/165/165c/170/ 180 Keyboard
661-0713	2.4.1	PowerBook 100 Keyboard
661-0714	1.14.2	PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns
661-0715	1.14.1	PowerBook 100/140/145/145B/160/170 PSRAM Expansion Card, 2 MB
661-0716	8.9.3	StyleWriter Main Logic Board (Rev. B)
661-0718	8.9.2	StyleWriter Printer Frame Assembly (Rev. B)
661-0719	1.3.7	Apple 1 MB SIMM, SOJ, 80 ns
661-0720	1.11.4	Macintosh LC III , Performa 450 Logic Board
661-0721	3.9.3	PowerBook 140/170 Battery Assembly
661-0722	1.3.12	Apple 256K SIMM, VRAM, 80 ns
661-0723	3.9.1	PowerBook 100 Battery Assembly
661-0724	5.12.4	PowerBook 140/145/170 Interconnect Board
661-0725	8.5.11	Personal LaserWriter NTR I/O Board
661-0727	1.7.12	Macintosh Quadra 950, Apple Workgroup Server 95 Logic Board

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-0728	1.11.2	Macintosh LC II Logic Board, 2 MB
661-0729	1.11.3	Macintosh LC II Logic Board, 4 MB
661-0730	9.3.3	PowerBook 140/145/145B/160/165/165c/ 170/180/180c Trackball Assembly
661-0731	2.2.3	Apple Adjustable Keyboard
661-0732	1.5.7	Macintosh Color Classic Analog Board
661-0733	1.5.6	Macintosh Color Classic Logic Board
661-0734	8.5.12	Personal LaserWriter NTR SIMM, 1 MB, 80 ns, 72-Pin
661-0737	8.12.5	OneScanner for Windows
661-0738	8.12.1	Apple OneScanner Power Supply, PCB Assembly, 24-Bit
661-0739	8.12.4	Apple Color OneScanner Optical Assembly, 24-Bit
661-0740	8.12.3	Apple OneScanner Main Logic Board, 24-Bit
661-0744	1.16.1	PowerBook 160 Daughterboard
661-0745	5.12.5	PowerBook 145/160 FSTN Display (Rev. C)
661-0746	1.16.3	PowerBook 160/165/180 Motherboard
661-0747	1.16.6	PowerBook 180 Daughterboard
661-0748	5.12.11	PowerBook 180 Active-Matrix Display
661-0750	5.12.7	PowerBook 160/165/180 Interconnect Board
661-0751	1.16.4	PowerBook 165c Daughterboard
661-0752	5.12.9	PowerBook 165c FSTN Color Display
661-0754	3.9.4	PowerBook 140/145/170 Battery Assembly
661-0755	1.16.8	PowerBook 165c/180c Cousin Card
661-0758	3.8.2	Macintosh Power Supply, 112 Watt
661-0759	1.10.1	Macintosh IIvx Logic Board
661-0761	1.5.10	Performa 600 Logic Board
661-0762	9.1.2	Apple Adjustable Keypad
661-0763	9.1.3	Apple Desktop Bus Mouse II
661-0764	5.12.8	PowerBook 165c Interconnect Board
661-0765	1.16.5	PowerBook 165c/180c Motherboard
661-0772	6.6.2	AppleHard Disk 120, HDA, 120 MB, 2.5" SCSI
661-0773	6.4.9 SCSI	Apple Hard Disk 40, HDA, 40 MB, 3.5"
661-0774	6.5.5	Apple Hard Disk 80SC, HDA, 80 MB, 3.5" SCSI
661-0775	8.4.12	LaserWriter IIg I/O Board (SIMM-less)
661-0776	8.4.13	LaserWriter IIx I/O Board (SIMM-less)
661-0778	6.7.9	Apple Hard Disk 160, HDA, 160 MB, 2.5", SCSI
661-0779	6.8.1	Apple Hard Disk 200, HDA, 200 MB 2.5" SCSI

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-0780	6.11.1	Apple Hard Disk 1 GB, HDA, 1 GB, 3.5" SCSI
661-0781	6.10.1	Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI
661-0782	3.9.2	PowerBook 160/165/165c/180/180c Battery Assembly
661-0785	8.9.4	StyleWriter II Whole Unit, Ink Jet, 120 V
661-0786	7.2.2	PowerBook 160/165/165c/180/180c Express Modem, 14.4 Baud
661-0787	3.7.2	Macintosh LC III, Performa 400 Series Power Supply
661-0788	1.15.1	PowerBook 145 Daughterboard
661-0789	3.9.5	PowerBook 140/145/145B/160/170/180 Battery Assembly, 2.8 Amp
661-0790	1.16.7	PowerBook 140/145/145B/165/165c/170/180/180c PSRAM Expansion Card, 4 MB, 85 ns
661-0791	1.3.20	Apple Expansion 128K SRAM SIMM, 17 ns
661-0792	1.3.21	Apple 256K SRAM SIMM, 17 ns
661-0793	1.3.22	Apple 48K Tag SRAM SIMM, 14 ns
661-0794	4.5.1	Apple Workgroup Server 95 PDS Card
661-0795	6.16.1	Apple DDS-DC 4mm, 2 GB SCSI Tape Drive
661-0796	6.5.7	Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI
661-0797	8.7.10	LaserWriter Pro Envelope Feeder Controller Board
661-0798	8.7.11	LaserWriter Pro 500 Sheet Feeder Controller Board
661-0799	8.7.8	LaserWriter Pro 600 I/O Board
661-0800	8.7.9	LaserWriter Pro 630 I/O Board
661-0801	8.7.5	LaserWriter Pro Laser/Scanner Assembly
661-0802	8.7.1	LaserWriter Pro Power Supply, 110/115 V
661-0803	8.7.1	LaserWriter Pro Power Supply, 220/240 V
661-0804	8.7.2	LaserWriter Pro High-Voltage Power Supply
661-0805	8.7.4	LaserWriter Pro Fuser Assembly, 110/115 V
661-0806	8.7.4	LaserWriter Pro Fuser Assembly, 220/240 V
661-0807	8.7.3	LaserWriter Pro DC Controller Board
661-0808	8.7.6	LaserWriter Pro SIMM 4 MB, 80 ns, 72-Pin
661-0809	8.7.7	LaserWriter Pro SIMM, 8 MB, 80 ns 72-Pin

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-0810	8.12.2	Apple Color OneScanner Power Supply, PCB Assembly, 240 V, 24-Bit (International Only)
661-0811	1.3.19	Apple 4 MB x 9 SIMM, 80 ns, Parity
661-0812	1.11.5	Macintosh LC 520 Logic Board
661-0813	1.11.6	Macintosh LC 520 Analog Board
661-0820	8.7.21	LaserWriter Select 360 I/O Controller Board
661-0821	8.7.22	LaserWriter Select 360 DC Controller Board
661-0822	8.7.23	LaserWriter Select 360 High- Voltage Power Supply
661-0825	8.7.24	LaserWriter Select 360 Fuser Assembly, 115 V
661-0826	8.7.25	LaserWriter Select 360 Fuser Assembly, 220 V
661-0827	8.7.26	LaserWriter Select 360 Laser Optic Assembly
661-0828	8.7.27	LaserWriter Select 360 Scanner Motor
661-0830	8.9.5	Apple Portable StyleWriter Whole Unit
661-0831	8.9.6	Apple Portable StyleWriter Automatic Sheet Feeder
661-0832	6.11.2	Apple Hard Disk 2 GB HDA, 2 GB, 3.5" SCSI
661-0833	8.7.29	LaserWriter Pro 810 DC Controller Board
661-0836	8.7.30	LaserWriter Pro 810 Power Supply, 115 V
661-0837	8.7.31	LaserWriter Pro 810 Power Supply, 220 V
661-0842	8.7.32	LaserWriter Pro 810 I/O Controller Board
661-0846	8.7.33	LaserWriter Pro 810 4 MB Memory Card
661-0847	8.7.34	LaserWriter Pro 810 8 MB memory Card
661-0849	8.7.35	LaserWriter Pro 810 High Resolution Card
661-0850	8.7.36	LaserWriter Pro 810 Communications Card
661-0851	8.7.37	LaserWriter Pro 810 Fax Card
661-0852	8.7.38	LaserWriter Pro 810 Ethernet Card
661-0853	8.7.39	LaserWriter Pro 810 Ethernet Card, 10 Base T
661-0854	8.7.40	LaserWriter Pro 810 Ethernet Card, 10 Base 2
661-0857	8.7.41	LaserWriter Pro 810 Fuser, 110 V
661-0858	8.7.42	LaserWriter Pro 810 Fuser, 220 V
661-0860	8.7.43	LaserWriter Pro 810 High-Voltage Power Supply
661-0865	8.7.44	LaserWriter Pro 810 Laser/Scanner Unit
661-0866	8.9.7	Apple Portable StyleWriter Battery, NiCad
661-0867	1.11.7	Macintosh LC 575 Logic Board, 33 MHz
661-0868	8.7.28	LaserWriter Select 360 Fax Card
661-0869	4.2.9	Macintosh II Apple Ethernet NB Twisted Pair Card

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-0870	5.14.6	Apple Color Plus 14-Inch Display
661-0872	1.18.2	Macintosh TV Analog Board
661-0876	8.9.8	Apple Color StyleWriter Pro Controller Board
661-0877	8.9.9	Apple Color StyleWriter Pro Power Supply, 110 V
661-0878	8.9.9	Apple Color StyleWriter Pro Power Supply, 220/240V
661-0881	5.16.1	Apple Multiple Scan 17 Display Main Deflection Board
661-0882	5.16.2	Apple Multiple Scan 17 Display Main Deflection Board
661-0887	4.3.5	Macintosh LC 575 Express Modem, 14.4 Baud, Comm Slot
661-0888	4.3.6	Macintosh LC 575 Ethernet Card, 10 Base-T Comm Slot
661-0889	4.3.7	Macintosh LC 575 Ethernet Card, AAUI, Comm Slot
661-0890	6.8.5	Apple Hard Disk 250, HDA, 250 MB, 3.5" SCSI, Internal
661-0891	6.10.2	Apple Hard Disk 500, HDA, 500 MB, 3.5" SCSI, Internal
661-0894	8.4.11	LaserWriter II Engine (Whole Unit)
661-0895	6.8.4	Apple Hard Disk 240, HDA, 240 MB, 2.5" SCSI
661-0896	6.8.7	Apple Hard Disk 320, HDA, 320 MB, 2.5" SCSI
661-0897	1.19.2	Power Macintosh 7100/66 Logic Board
661-1010	8.9.4	StyleWriter II Whole Unit, Ink Jet, 220 V
661-1016	1.16.2	PowerBook 165 Daughterboard
661-1017	4.7.1	Macintosh Quadra 610 DOS Compatibility Card
661-1022	1.19.1	Power Macintosh 6100/60 Logic Board
661-1023	4.8.4	Power Macintosh AV Card
661-1024	1.19.4	Power Macintosh 256K, SIMM, Cache
661-1026	1.19.3	Power Macintosh 8100/80 Logic Board
661-1027	4.8.3	Power Macintosh 8100 Video Card, 4 MB
661-1103	1.14.3	PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns
661-1602	4.3.1	Macintosh IIci Cache Card
661-1603	5.5.5	Portrait Display "Series B" Dynamic Focus Board, VDE-B
661-1605	8.4.4	LaserWriter II NTX I/O Board (Rev. 3.0)
661-1606	8.1.13	ImageWriter II L Power Supply Board (220/240 V)
661-1610	1.12.3	Macintosh Portable Logic Board, PSRAM
661-1611	9.2.2	Macintosh Portable Lightweight Numeric Keypad

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-1612	2.3.2	Macintosh Portable Lightweight Keyboard
661-1613	1.12.4	Macintosh Portable 3 MB PSRAM Expansion Card
661-1614	1.12.5	Macintosh Portable 1 MB PSRAM Expansion Card
661-1615	1.9.1	Macintosh IIsi Logic Board
661-1616	3.6.1	Macintosh IIsi Power Supply
661-1617	4.2.5	Macintosh II Token Ring 4/16 NB Card
661-1618	5.8.2	Macintosh 12-Inch RGB Display CRT Video Board
661-1619	4.3.2	Macintosh IIci Cache Card, Revised
661-1621	7.2.1	PowerBook 100/140/145/160/165c/170/180c Domestic Modem, 2400 Baud, Internal
661-1622	6.2.2	Hard Disk 20 HDA, 20 MB, 2.5", 17 mm, HDI-30
661-1623	6.1.3	Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm
661-1629	6.4.2	Apple Hard Disk 40 HDA, 40 MB, 5.25" SCSI
661-1630	6.4.5	Apple Hard Disk 40SC, HDA, 40 MB, 2.5" SCSI
661-1632	6.4.7	Apple Hard Disk 40, HDA, 40 MB, 2.5" SCSI
661-1634	5.9.2	Macintosh 16-Inch Color Display Main Board (Rev. A)
661-1635	5.9.1	Macintosh 16-Inch Color Display CRT Video Board
661-1636	6.9.1	Hard Disk 400, 400 MB, Internal SCSI HDA
661-1637	6.8.2	Hard Disk 230, 230 MB, 3.5" SCSI HDA
661-1638	6.7.2	Apple Hard Disk 160, HDA with A/UX 2.0.1 SCSI
661-1639	6.7.4	Apple Hard Disk 160SC, HDA, 160 MB, 5.25" SCSI with A/UX 2.0.1
661-1640	6.7.2	Apple Hard Disk 160, HDA, 160 MB, 5.25" SCSI
661-1641	6.7.4	Apple Hard Disk 160SC, HDA, 160 MB, 3.5" SCSI
661-1642	4.1.12	Macintosh II Display Card 8•24 GC
661-1643	6.5.6	Apple Hard Disk 80, HDA, 80 MB, 2.5" SCSI
661-1644	6.4.6	Apple Hard Disk 40SC, HDA, 40 MB, 2.5" SCSI, PowerBook 100
661-1645	6.13.1	AppleCD 150, Drive
661-1646	6.14.1	AppleCD 300, Drive Mechanism

Module Cross Reference by Part Number

**Part No. Page No. Description**

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661-1647	6.7.5	Apple Hard Disk 160, HDA, 160 MB, 3.5" SCSI
661-1648	6.13.3	AppleCD 150 Power Supply
661-1649	6.7.6	Apple Hard Disk 160, HDA, 160 MB, 3.5" SCSI
661-1650	5.10.1	Macintosh Color Display Main Deflection Board
661-1651	6.1.4	Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm
661-1652	2.4.3	PowerBook Duo 210/230/250/270c Keyboard, Domestic
661-1653	1.17.3	PowerBook Duo 210 Logic Board, 25 MHz
661-1654	9.3.4	PowerBook Duo 210/230/250/270c Trackball Assembly
661-1655	5.13.1	PowerBook Duo 210/230 FSTN Display
661-1656	3.10.2	Macintosh PowerBook Duo 210/230/250/270c Battery Assembly with Door
661-1657	1.17.1	Macintosh Duo Dock Logic Board
661-1658	4.4.2	PowerBook Duo 210/230 8 MB DRAM Card
661-1659	4.4.1	PowerBook Duo 210/230 4 MB DRAM Card
661-1660	3.10.1	Macintosh Duo Dock Power Supply
661-1661	1.17.4	Macintosh Duo Dock Release Mechanism
661-1662	7.3.1	Macintosh Duo 210/230 International Modem, 14.4 Baud
661-1663	1.17.5	PowerBook Duo 210/230 Floppy Adapter
661-1664	1.17.15	Macintosh Expansion Bar, Mini Dock Logic Board with Flex Cable
661-1665	7.3.1	PowerBook Duo 210/230 Domestic Modem, 14.4 Baud
661-1671	5.9.3	Macintosh 16-Inch Color Display Main Board (Rev. B)
661-1672	1.17.4	PowerBook Duo 230 Logic Board, 33 MHz
661-1673	5.13.1	PowerBook Duo 210/230 FSTN Display
661-1674	8.13.1	Apple Color Printer SCSI Card Assembly
661-1675	1.7.4	Macintosh Centris 650 Logic Board, 4 MB
661-1676	1.7.9	Macintosh Quadra 800 Logic Board, 8 MB, FPU (with Ethernet)
661-1677	1.7.3	Macintosh Centris 650 Logic Board, 4 MB, FPU (with Ethernet)
661-1678	1.7.5	Macintosh Centris 650 Logic Board, 8 MB, FPU (with Ethernet)
661-1679	1.7.4	Macintosh Centris 650 Logic Board, 4 MB, FPU

**Part No. Page No. Description**

661-1681	1.7.1	Macintosh Centris 610 Logic Board
661-1682	1.7.2	Macintosh Centris 610 Logic Board (with Ethernet)
661-1685	8.13.2	Apple Color Printer Bubble-Jet Head Unit
661-1687	3.8.3	Macintosh Power Supply, 200 Watt
661-1688	3.8.1	Macintosh Power Supply, 86 Watt
661-1689	10.2.1	AppleDesign Powered Speakers Main Speaker
661-1697	10.3.1	Power CD Player, NTSC, Blue
661-1699	5.10.2	Apple Audio Vision 14 Display Main Deflection Board
661-1700	1.7.10	Macintosh Quadra 840AV Logic Board
661-1701	1.3.17	Apple 4 MB SIMM, 60 ns, 72-pin
661-1702	1.3.18	Apple 8 MB SIMM, 60 ns, 72-pin
661-1703	7.5.1	GeoPort Telecom Adapter
661-1704	1.7.6	Macintosh Centris 660AV Logic Board
661-1705	6.13.2	AppleCD 150 Drive Mechanism
661-1706	6.14.3	AppleCD 300 Power Supply
661-1707	1.17.2	Macintosh Duo Dock II Logic Board
661-1715	1.14.3	PowerBook 145B Daughterboard
661-1717	1.17.5	PowerBook Duo 270c Logic Board
661-1737	10.2.2	AppleDesign Powered Speakers Main Speaker with Subwoofer Jack
661-1716	10.2.3	AppleDesign Powered Speakers Main Speakers
661-1717	1.17.6	Macintosh Duo 270c Logic Board
661-1719	1.7.7	Macintosh 660AV NuBus Adapter
661-1722	2.5.1	Macintosh TV Keyboard
661-1723	9.4.1	Macintosh TV Desktop Bus Mouse II
661-1724	1.18.1	Macintosh TV Logic Board
661-1726	10.3.1	Power CD Player, NTSC, Gray
661-1727	10.3.1	Power CD Player, PAL, Gray
661-1728	10.3.1	Power CD Player, PAL, Blue
661-1729	10.3.2	Power CD Base, Battery Pack/SCSI,Blue
661-1730	10.3.2	Power CD Base, Battery Pack/SCSI,Gray
661-1731	5.15.1	Macintosh TV Tuner PCB
661-1732	1.5.11	Macintosh Quadra 605, LC 475, Performa 475, 476 Logic Board
661-1735	3.10.3	PowerBook Duo 210/230/250/270c NiMH Battery Assembly with Door
661-1736	1.5.9	Performa 460/466/467 Logic Board
661-1741	4.6.1	CD Multimedia Kit for PCs Pro Audio Spectrum 16/SCSI Card
661-1748	4.8.2	Power Macintosh 7100 Video Card, 2 MB
661-1830	1.5.8	Macintosh Color Classic II, Performa 275/ 550 Logic Board
661-2000	8.8.7	LaserWriter Select 300 I/O Board

**Part No. Page No. Description**

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661-2001	8.8.8	LaserWriter Select 310 I/O Board
661-2002	8.8.1	LaserWriter Select DC Controller Board
661-2003	8.8.2	LaserWriter Select Laser Optic Board
661-2004	8.8.3	LaserWriter Select Scanner Motor
661-2005	8.8.4	LaserWriter Select High-Voltage Power Supply
661-2006	8.8.5	LaserWriter Select Power Supply, 110/115 V
661-2007	8.8.5	LaserWriter Select Power Supply, 220/240 V
661-2008	8.8.6	LaserWriter Select Fuser Assembly, 110/115 V
661-2009	8.8.6	LaserWriter Select Fuser Assembly, 220/240 V
661-8745	5.12.6	PowerBook 160 Kit, FSTN Display (Rev. C)
661-76214	3.1.2	Macintosh Power Sweep Board (220 V)

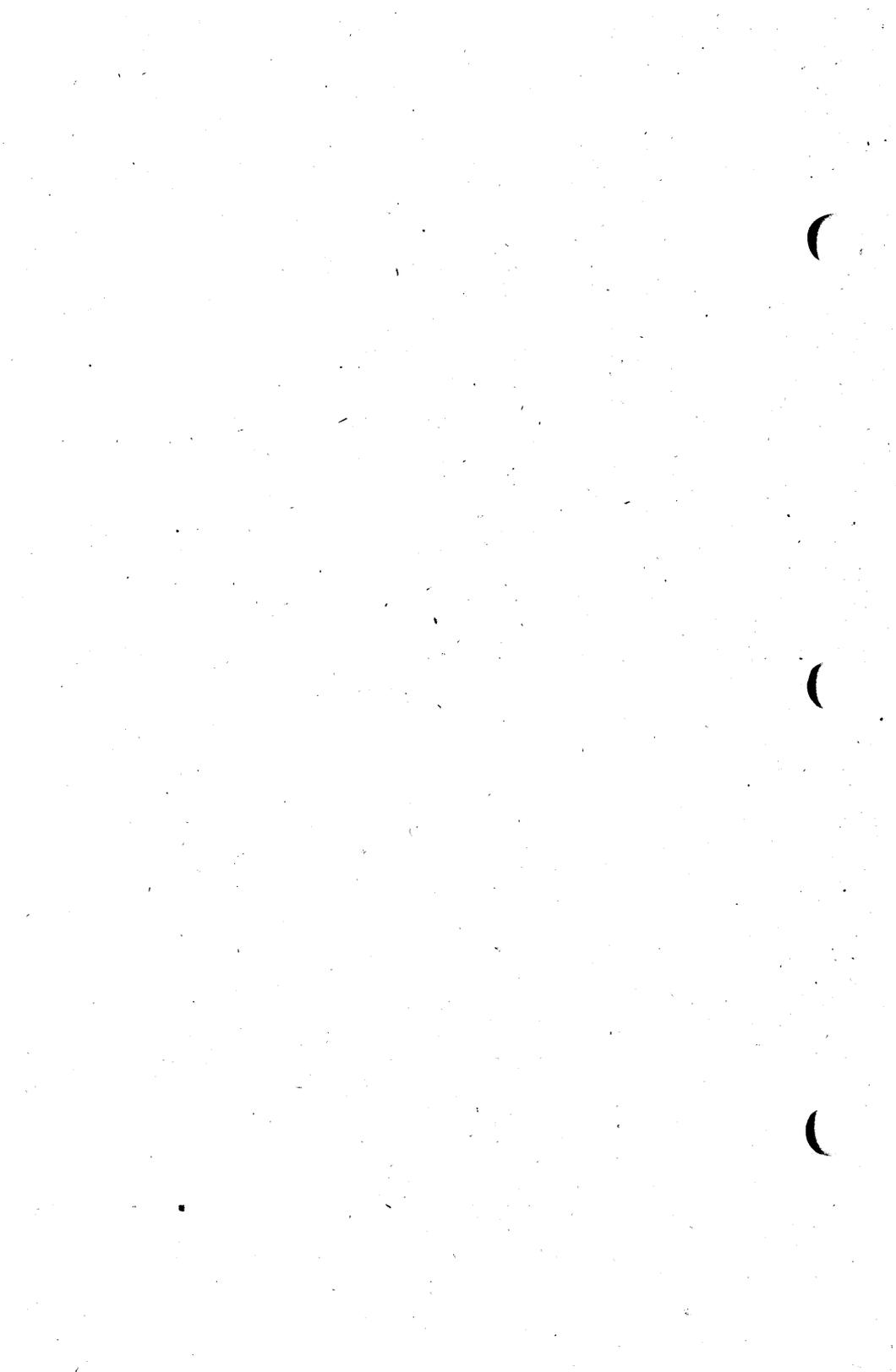
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NuBus is a trademark at Texas Instruments.

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# CPU PCBs



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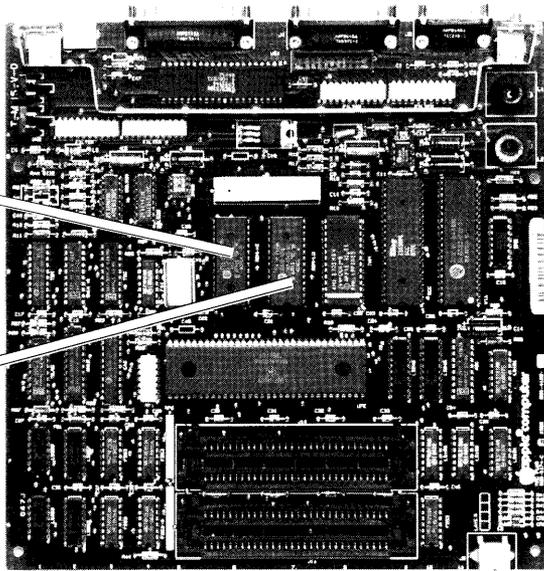
## Macintosh Plus Logic Board

### Apple P/N 661-0321

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

ROM HI  
342-0341

ROM HI  
342-0342



**NOTE:** 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

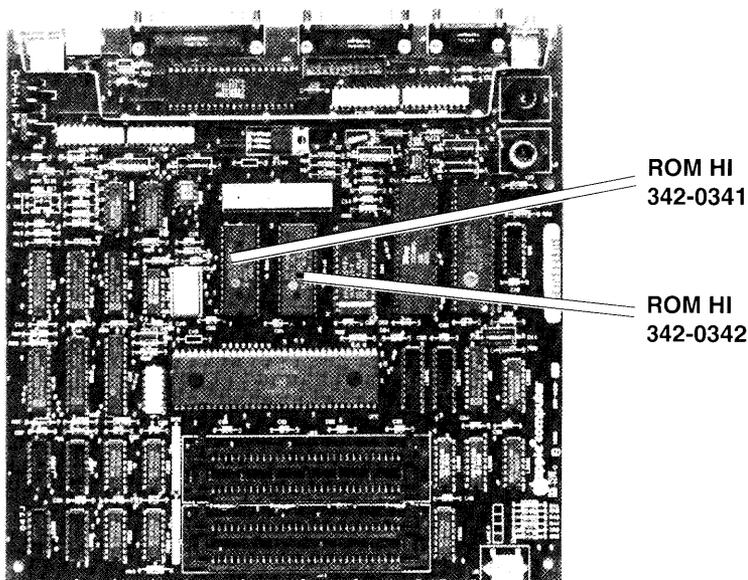
If either or both boot ROMs are missing, or if you install the ROMs with incorrect version combinations, the logic board is not acceptable.

Return the Macintosh Plus logic board without RAM SIMMs.

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## Macintosh Plus Logic Board

Apple P/N 661-0525



**NOTE:** 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.

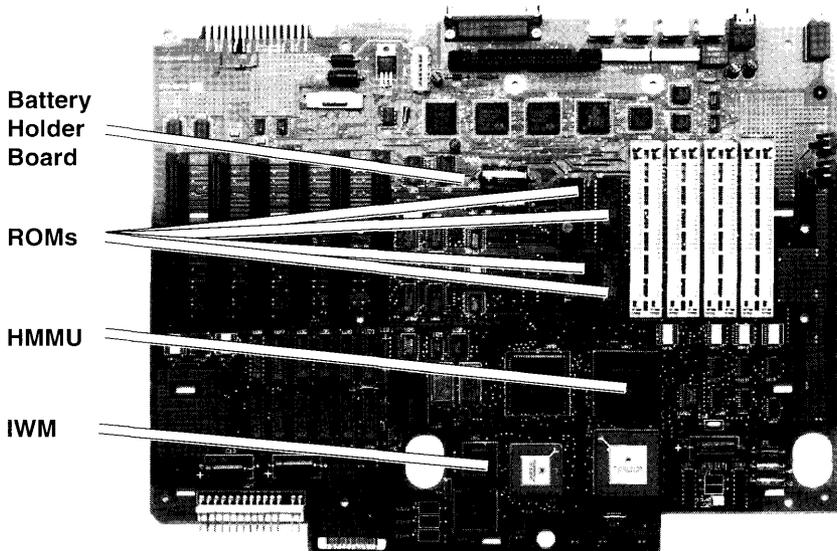
Return the Macintosh Plus logic board without RAM SIMMs.

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## Macintosh II Logic Board

### Apple P/N 661-0374

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



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

Return the Macintosh II logic board without RAM SIMMs.

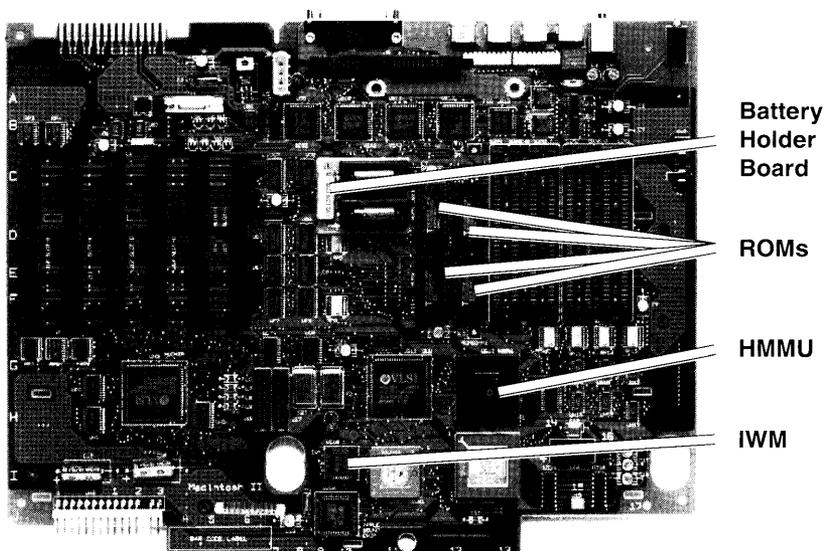
For upgrades: If the Macintosh II logic board contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade (P/N 344S0062) for the SWIM chip and the four ROM chips (P/Ns 342-0639, 342-0640, 342-0641, and 342-0642), transfer the upgraded components onto the customer's new logic board. Install 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 batteries.

---

## Macintosh II Logic Board

Apple P/N 661-0528



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

Return the Macintosh II logic board without RAM SIMMs installed.

For upgrades: If the Macintosh II logic board contains a PMMU upgrade (P/N 630-8221) or an Apple SuperDrive upgrade (P/N 344S0062) for the 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 batteries.

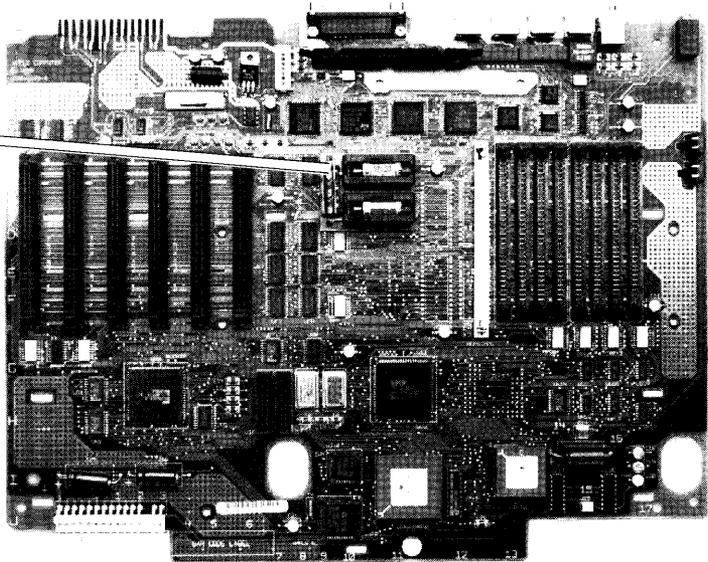
---

## Macintosh IIx Logic Board

### Apple P/N 661-0463

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

Battery  
Holder  
Board



**NOTE:** Remove the on-off switch and EMI shield before returning the board to Apple.

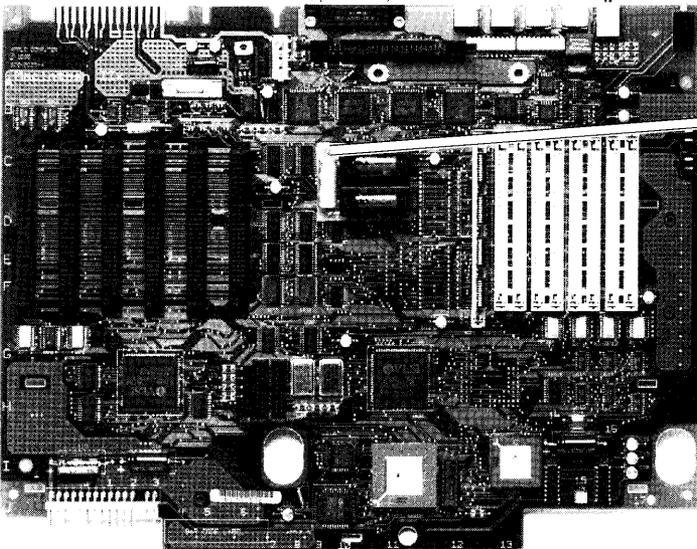
Return the Macintosh IIx logic board without RAM SIMMs.

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

---

## Macintosh IIx Logic Board

Apple P/N 661-0529



Battery  
Holder  
Board

**NOTE:** Remove the on-off switch and EMI shield before returning the board to Apple.

Return the Macintosh IIx logic board without RAM SIMMs.

Return the Macintosh IIx logic board with the ROM SIMM.

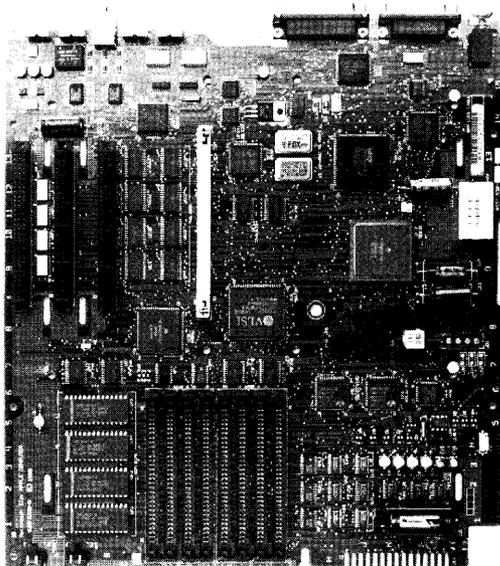
You can return the logic board with a battery holder board (as shown above) or with soldered batteries.

---

## Macintosh IIcx Logic Board

### Apple P/N 661-0459

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

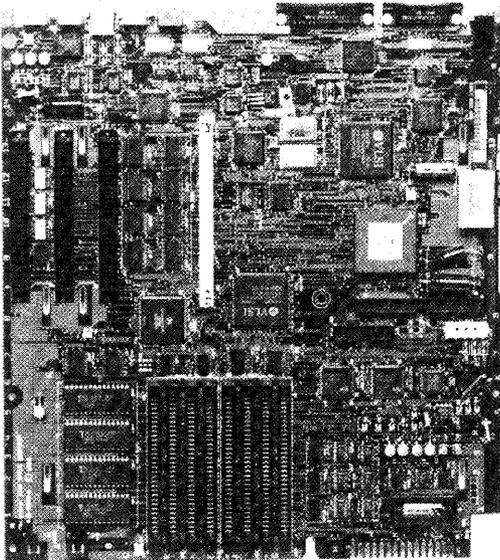


**NOTE:** Return the Macintosh IIcx logic board without RAM SIMMs.

---

Macintosh IIcx  
**Logic Board**

**Apple P/N 661-0537**



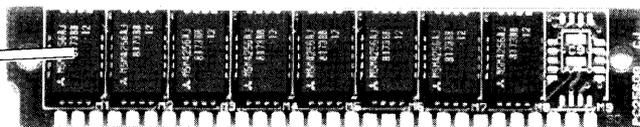
**NOTE:** Return the Macintosh IIcx logic board without RAM SIMMs.

---

Apple  
256K SIMM, 120 ns

Apple P/N 661-0402

See Note



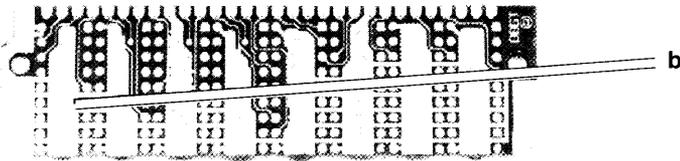
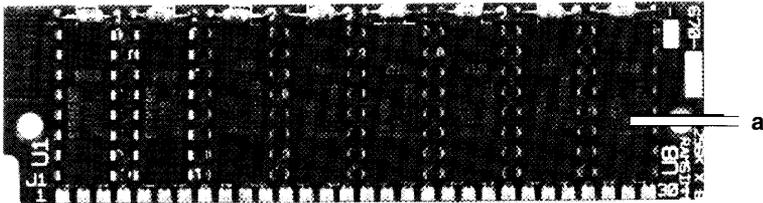
**NOTE:** The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Although 150 ns RAM SIMMs are acceptable for return, Apple ships 120 ns (or faster) RAM SIMM exchange modules.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
256K SIMM, DIP, 120 ns

Apple P/N 661-0494



**NOTE:**

- a) These DIP (Dual In-line Package) SIMMs have eight ICs soldered through the PCB.
- b) Please note that this SIMM is for the Macintosh Plus and Macintosh SE only. The back side of this SIMM is marked "For use only in Mac Plus SIMM positions (1, 2, 3, 4) and Mac SE SIMM positions (3, 4)."

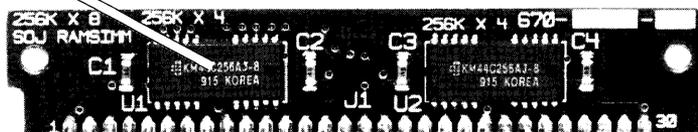
For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
256K SIMM, SOJ, 80 ns

Apple P/N 661-0519

See Note



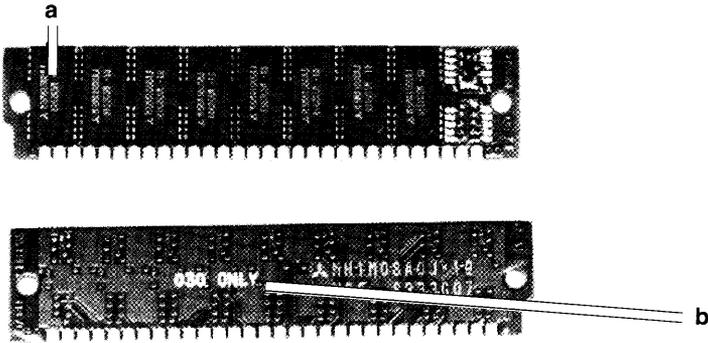
**NOTE:** The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 256K variety for return.

For additional SIMM information, refer to the SIMMs manual in Service Source.

---

Apple  
1 MB SIMM, 120 ns

Apple P/N 661-0403



**NOTE:**

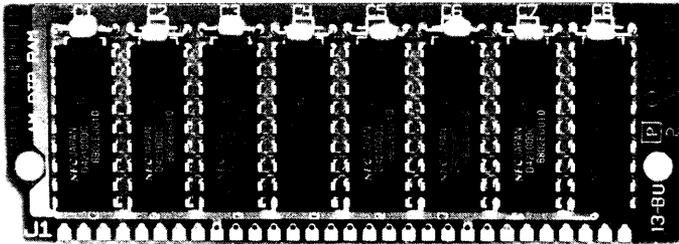
- a) The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -10 indicates 100 ns, -12 indicates 120 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 120 ns or faster RAM SIMMs of this 1 MB variety for return.
- 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."

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**1 MB SIMM, DIP, 120 ns**

**Apple P/N 661-0410**



**NOTE:**

- 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. Apple accepts only 120 ns or faster RAM SIMMs of this 1 MB variety for return.

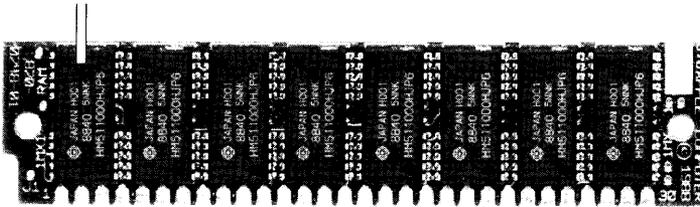
For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

# Apple 1 MB SIMM, SOJ, 80 ns

## Apple P/N 661-0520

See Note



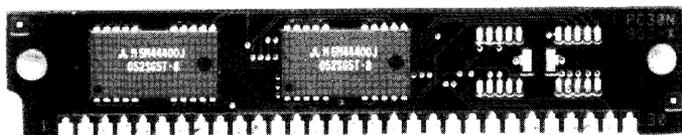
**NOTE:** The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**1 MB SIMM, SOJ, 80 ns**

**Apple P/N 661-0719**



**NOTE:** 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.

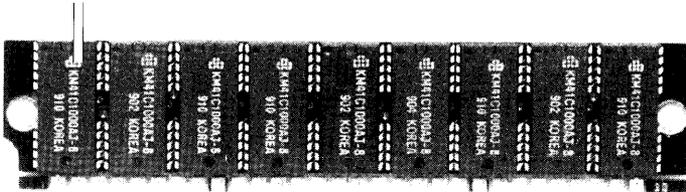
For additional SIMM information, refer to the SIMM manual in *Service Source*.

---

Apple  
1 MB SIMM, SOJ, 80 ns, Parity

Apple P/N 661-0546

See Note



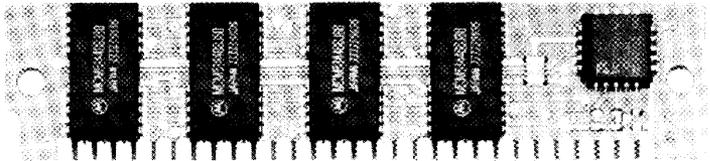
**NOTE:** The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**2 MB SIMM, SOJ, 80 ns**

**Apple P/N 661-0643**



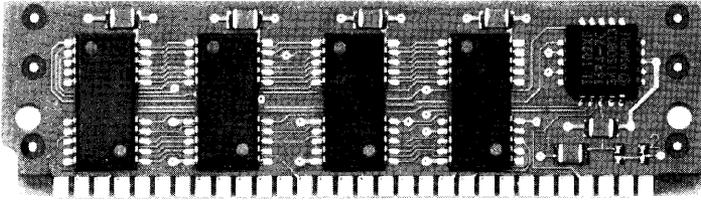
**NOTE:** The RAM speed is usually indicated by the -XX after the manufacturer's part number (e.g., -8 indicates 80 ns, -6 indicates 60 ns, etc.). This number is located on the surface of the chip or on the back of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 2 MB variety for return.

For additional SIMM information, refer to the Memory manual in *Service Source*.

---

Apple  
**512K SIMM, SOJ, 80 ns**

**Apple P/N 661-0646**



**NOTE:** 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 variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**256K SIMM, VRAM, 100 ns**

**Apple P/N 661-0609**

**Please refer to the note below when  
identifying this module**

**NOTE:** 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.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**256K SIMM, VRAM, 80 ns**

**Apple P/N 661-0722**

**Please refer to the note below when  
identifying this module**

**NOTE:** Return the VRAM SIMM as:

661-0609 if it is to be installed on a Macintosh Display 4•8 card.

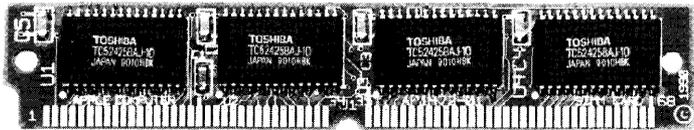
661-0722 if it is to be installed on a Macintosh Quadra or a  
Macintosh LC family logic board.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**512K SIMM, VRAM**

**Apple P/N 661-0649**



**NOTE:** For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

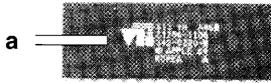
## Macintosh/Macintosh Plus ROMs

**Apple P/N 661-0220**

**Apple P/N 661-0221**

**Apple P/N 661-0632**

**Apple P/N 661-0633**



### NOTE:

- a) ROM, High, Macintosh with 400K floppy drive, (P/N 661-0220)
- b) ROM, Low, Macintosh with 400K floppy drive, (P/N 661-0221)
- c) ROM, High, Macintosh with 800K floppy drive, (P/N 661-0632)
- d) ROM, Low, Macintosh with 800K floppy drive, (P/N 661-0633)

Apple P/N on ROMs must be 34x-0220 through 34x-0221  
(where x = 1 or 2) for a Macintosh with a 400K floppy drive.

Apple P/N on ROMs must be 34x-0341 through 34x-0342  
(where x = 1 or 2) for a Macintosh with an 800K floppy drive.

---

Macintosh SE and SE/30  
ROMs

Apple P/N 661-0701  
Apple P/N 661-0702



**NOTE:**

- a) ROM, High, Macintosh SE Apple SuperDrive Upgrade, (P/N 661-0701)
- b) ROM, High, Macintosh SE Apple SuperDrive Upgrade, (P/N 661-0702)

Apple P/N on ROMs must be 34x-0701 through 34x-0702 (where x = 1 or 2).

---

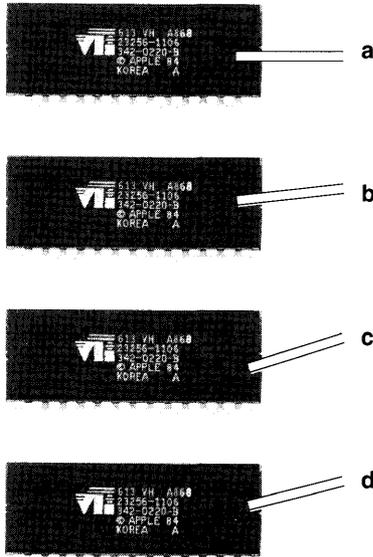
## Macintosh II ROMs

**Apple P/N 661-0639**

**Apple P/N 661-0640**

**Apple P/N 661-0641**

**Apple P/N 661-0642**



**NOTE:**

- a) ROM, High, Mac II Apple SuperDrive Upgrade, (P/N 661-0639)
- b) ROM, Med High, Mac II Apple SuperDrive Upgrade, (P/N 661-0640)
- c) ROM, Med Low, Mac II Apple SuperDrive Upgrade, (P/N 661-0641)
- d) ROM, Low, Mac II Apple SuperDrive Upgrade, (P/N 661-0642)

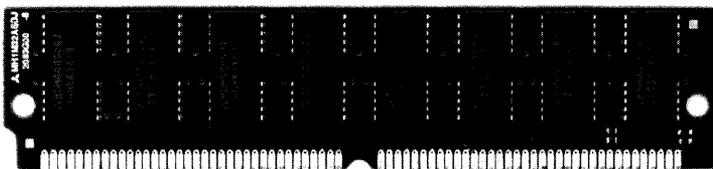
Apple P/N on ROMs must be 34x-0639 through 34x-0642 (where x = 1 or 2).

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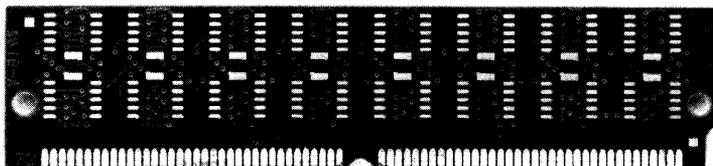
Apple  
4 MB SIMM, 60ns, 72-Pin

Apple P/N 661-1701

Front



Back



**NOTE:** 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 side of the SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 4-MB variety for return.

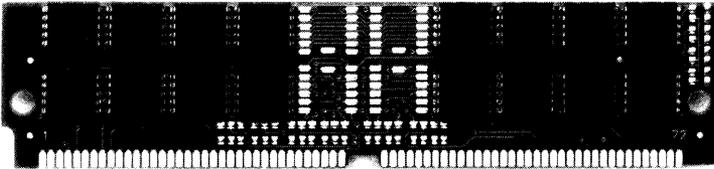
For additional SIMM information, refer to the SIMMs manual in *Service Source*.

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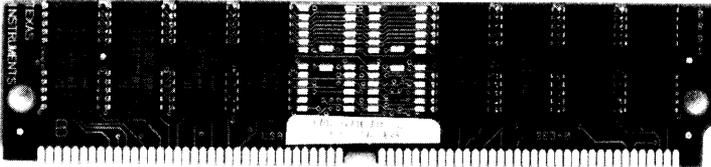
Apple  
8 MB SIMM, 60 ns, 72-Pin

Apple P/N 661-1702

Front



Back



**NOTE:** 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 where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 60 ns or faster RAM SIMMs of this 8-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
4 MB x 9 SIMM, 80 ns, Parity

Apple P/N 661-0811

Front



Back



**NOTE:** 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; -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM. Apple accepts only 80 ns or faster parity DRAM SIMMs of this 4 MB variety for return.

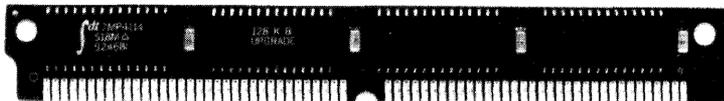
For additional SIMM information, refer to the SIMMs manual in *Service Source*.

---

Apple  
**128K SRAM SIMM, 17 ns**

**Apple P/N 661-0791**

**Front**



**Back**



**NOTE:** This board has RAM ICs on one side only.

This SIMM is labeled "128KB Upgrade" on one of the ICs.

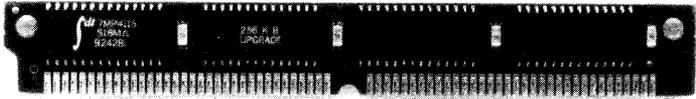
For additional SIMM information, refer to the SIMMs manual in *Service Source*.

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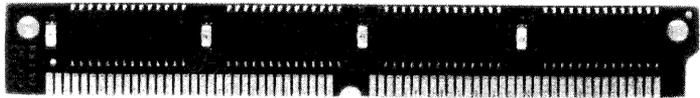
Apple  
**256K SRAM SIMM, 17 ns**

**Apple P/N 661-0792**

**Front**



**Back**



**NOTE:** This board has ICs on both sides.

This SIMM is labeled "256KB Upgrade" on one of the ICs.

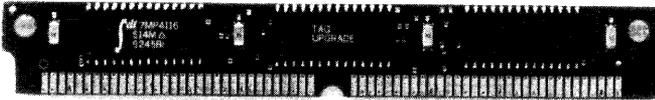
For additional SIMM information, refer to the Memory manual in *Service Source*.

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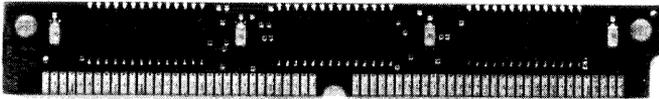
Apple  
48K Tag SRAM SIMM, 14 ns

Apple P/N 661-0793

Front



Back



**NOTE:** This board has ICs on both sides.

This SIMM is labeled "Tag Upgrade" on one of the ICs.

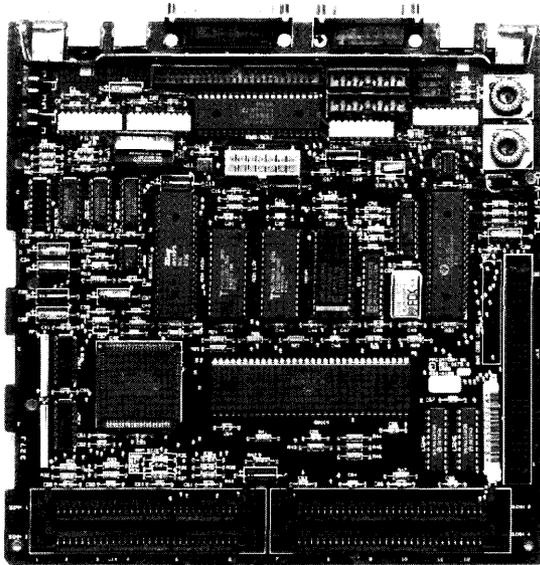
For additional SIMM information, refer to the Memory manual in *Service Source*.

---

## Macintosh SE Logic Board

### Apple P/N 661-0369

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



**NOTE:** 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.

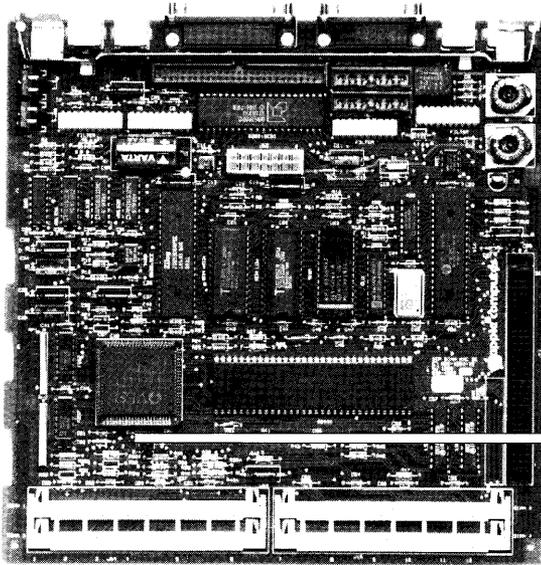
Remove the RAM SIMMs before you return the Macintosh SE logic board to Apple.

---

## Macintosh SE Revised Logic Board

### Apple P/N 661-0490

(When you ship P/N 661-0490, Apple ships you P/N 661-0526.)



See Note

**NOTE:** You can identify the revised logic board by the presence of a jumper block. You can use the jumper block to configure RAM to 1, 2, 2.5, and 4 megabytes. The jumper is located in the area noted.

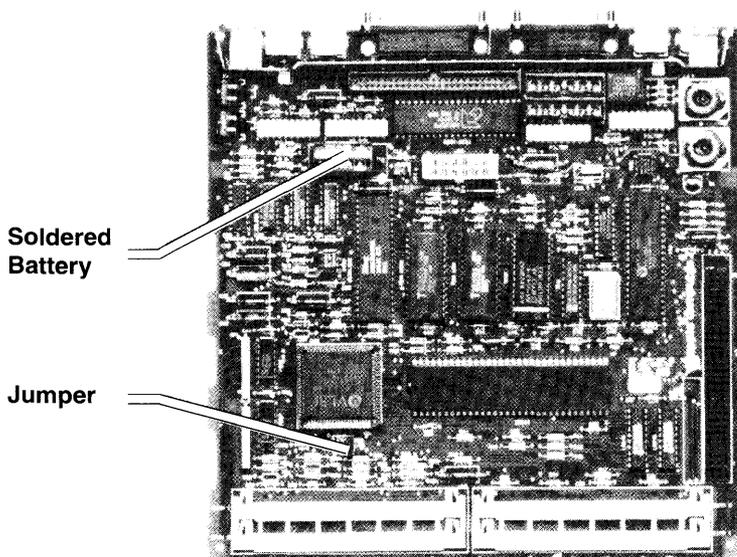
If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.

Return the Macintosh SE logic board without RAM SIMMs.

---

## Macintosh SE 800K Logic Board

Apple P/N 661-0526



**NOTE:** You can identify the 800K logic board by the presence of a jumper block and a soldered-on battery. The jumper block, used to configure RAM to 1, 2, 2.5, and 4 megabytes, is located in this area.

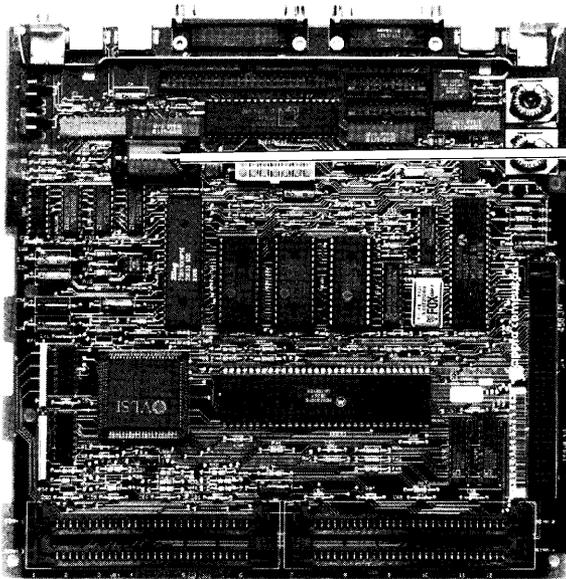
If the logic board contains the SWIM chip (P/N 344-0062) and new ROMs (P/Ns 342-0701 and 342-0702) for the Apple SuperDrive upgrade, remove these components from the failed logic board and install them on the replacement logic board.

Return the Macintosh SE logic board without RAM SIMMs.

---

Macintosh SE  
**Apple SuperDrive Logic Board**

**Apple P/N 661-0536**



Battery Holder

**NOTE:** 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.**

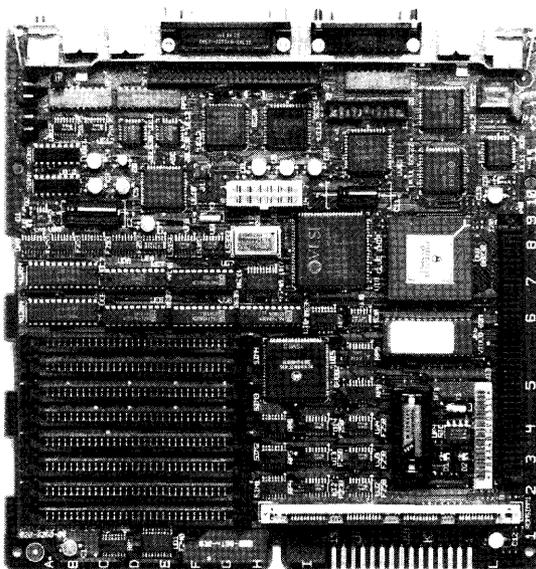
Return the logic board without RAM SIMMs.

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## Macintosh SE/30 Logic Board

### Apple P/N 661-0510

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

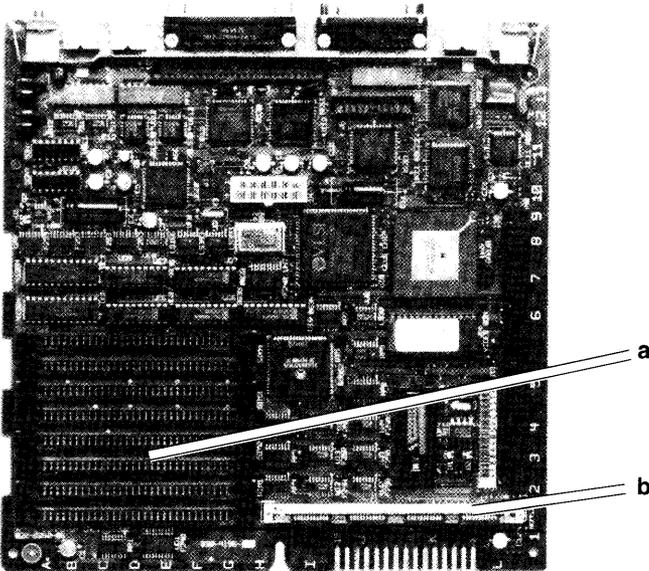


**NOTE:** Return the Macintosh SE/30 logic board without RAM SIMMs.

---

Macintosh SE/30  
Logic Board

Apple P/N 661-0527



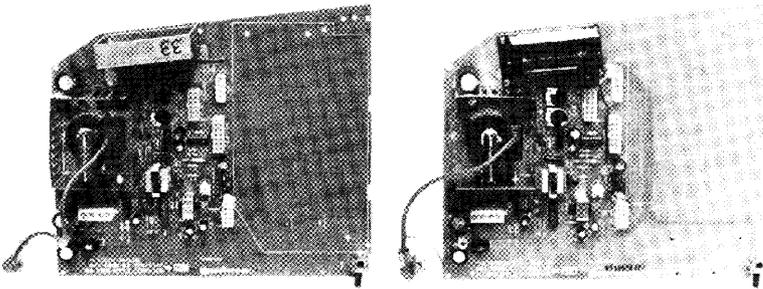
**NOTE:**

- a) Return the Macintosh SE/30 logic board **without** RAM SIMMs.
- b) Return the Macintosh SE/30 logic board **with** the ROM SIMM.

---

Macintosh SE  
Analog Board

Apple P/N 661-0371



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

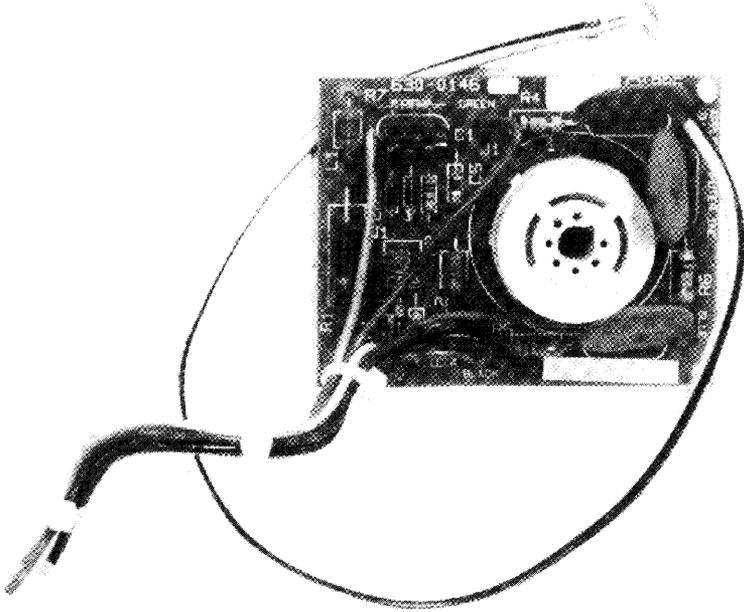
Both versions of this board, shown above, are acceptable for return.

---

## Macintosh SE Video Board

### Apple P/N 661-0372

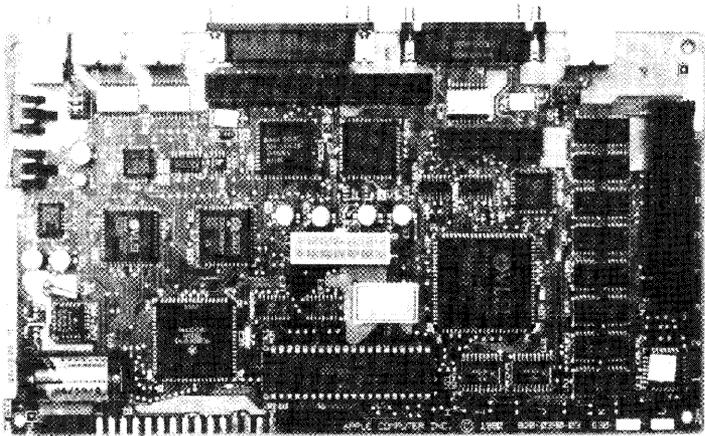
(When you return P/N 661-0372, Apple ships you P/N 982-0024.)



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**Macintosh Classic  
Logic Board**

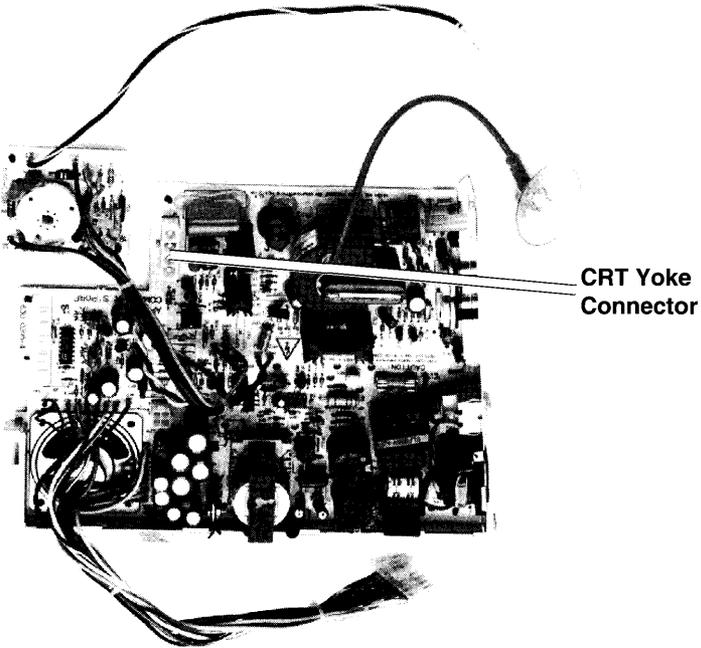
**Apple P/N 661-0596**



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Macintosh Classic  
**Power Sweep Board (110 V) Rev. A**

**Apple P/N 661-0597**

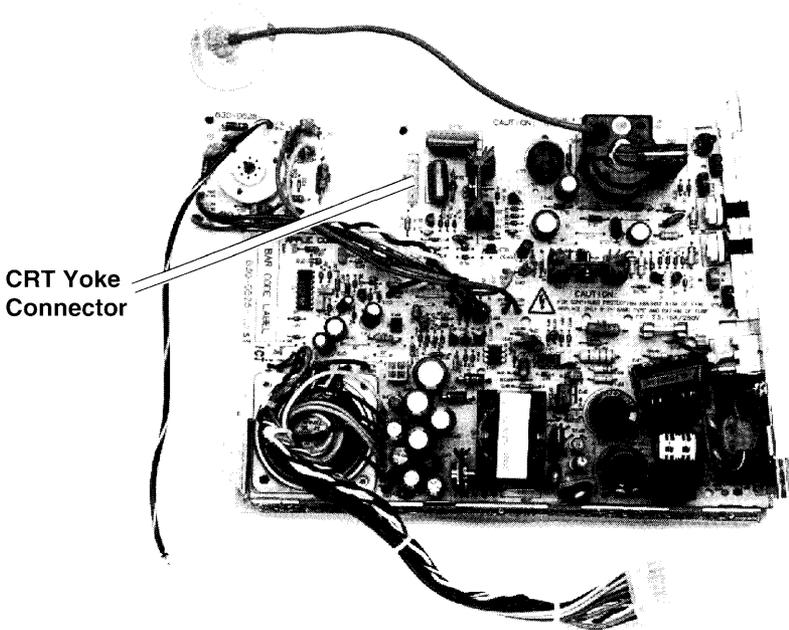


**NOTE:** The two versions of the power/sweep board, Rev. A and Rev. B, are functionally equivalent, but not interchangeable. The CRT yoke connector on power/sweep board Rev. A has plastic sleeves surrounding the prongs.

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Macintosh Classic, Performa 200  
**Power Sweep Board (110 V) Rev. B**

**Apple P/N 661-0651**

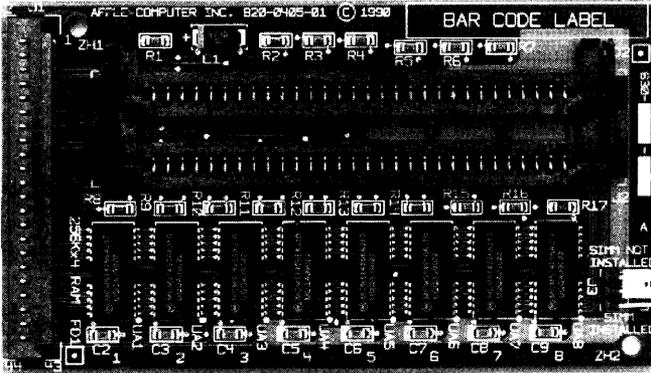


**NOTE:** The two versions of the power/sweep board, Rev. A and Rev. B, are functionally equivalent, but not interchangeable. The CRT yoke connector on power/sweep board Rev. B is a series of four exposed prongs.

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# Macintosh Classic Memory Expansion Board

Apple P/N 661-0598

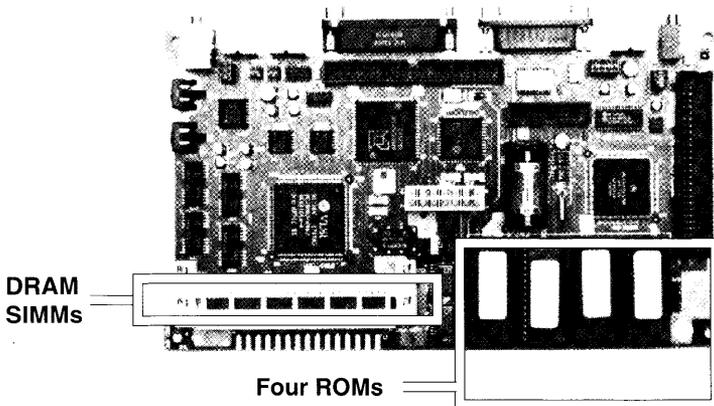
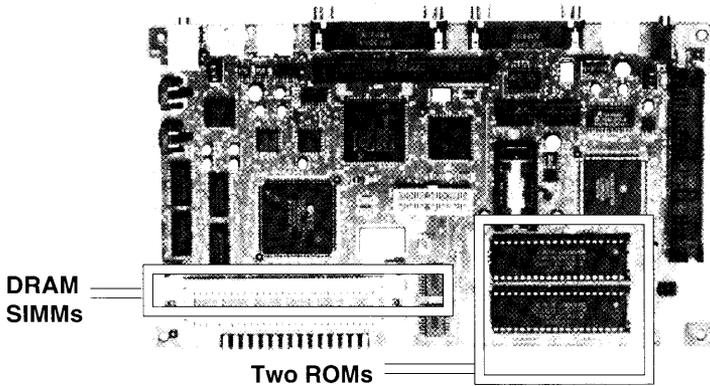


**NOTE:** Return the Macintosh Classic memory expansion board without RAM SIMMs.

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Macintosh Classic II, Performa 200  
**Logic Board**

Apple P/N 661-0672

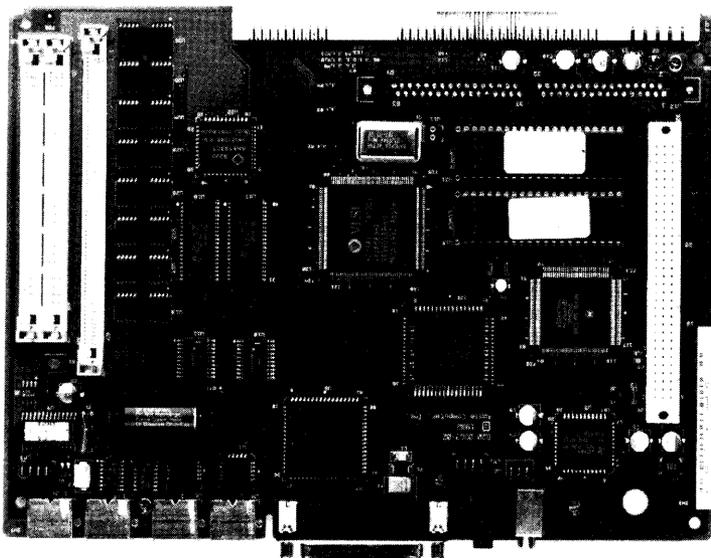


**NOTE:** Return the logic board without DRAM SIMMs.

---

## Macintosh Color Classic Logic Board

Apple P/N 661-0733

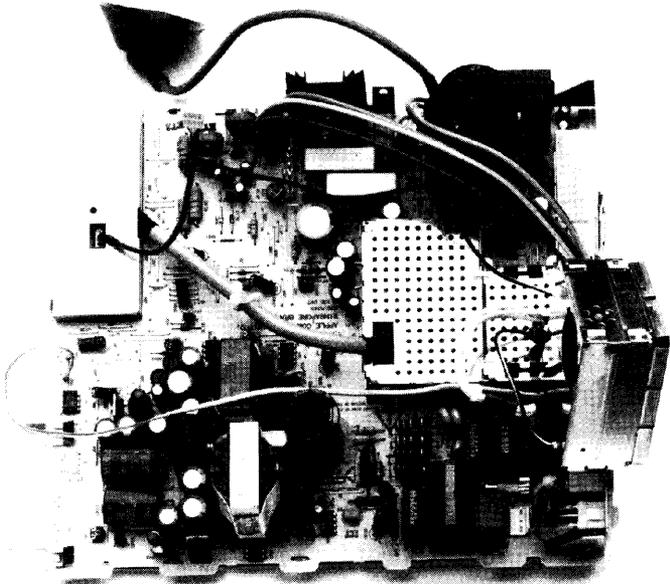


**NOTE:** Return the Macintosh Color Classic logic board without RAM or VRAM SIMMs.

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**Macintosh Color Classic  
Analog Board**

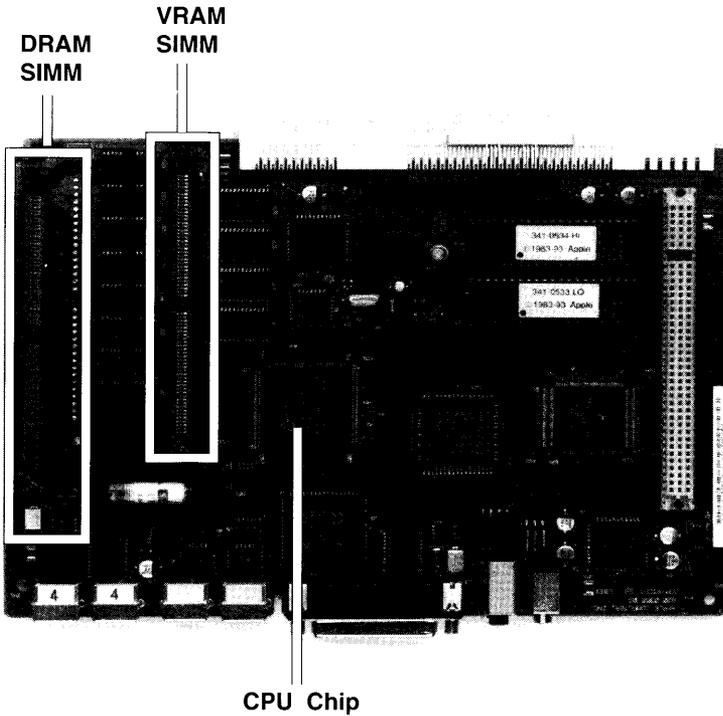
**Apple P/N 661-0732**



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# Macintosh Color Classic II, Performa 275/550 Logic Board

## Apple P/N 661-1830



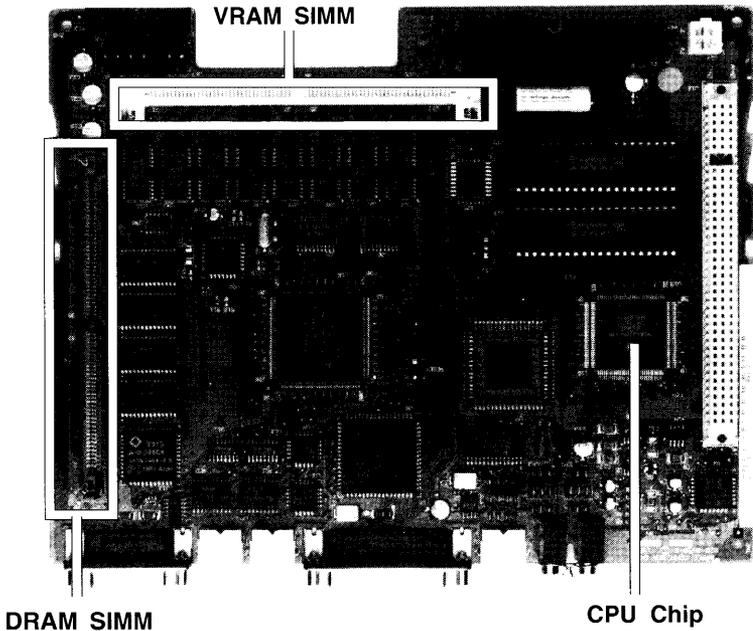
**NOTE:** Return the logic board without DRAM or VRAM SIMMs.

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

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Performa 460/466/467  
**Logic Board**

**Apple P/N 661-1736**



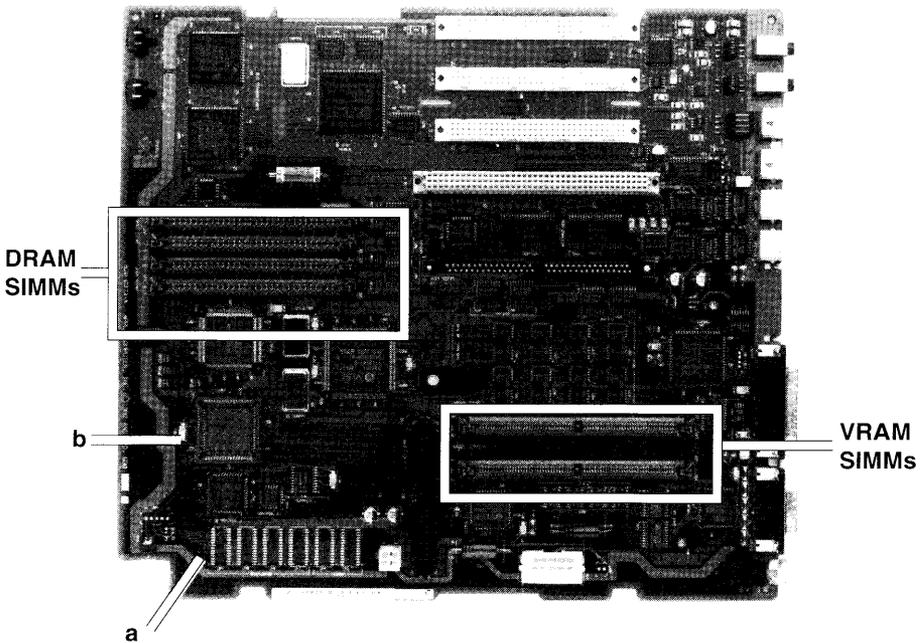
**NOTE:** Return the logic board without DRAM or VRAM SIMMs.

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

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Performa 600  
**Logic Board**

**Apple P/N 661-0761**



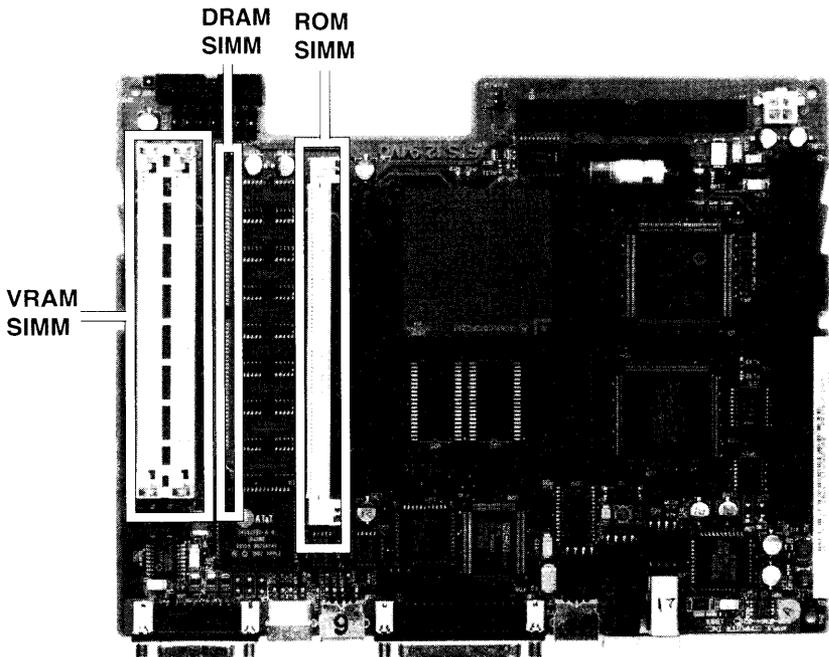
**NOTE:** Return the logic board without DRAM or VRAM SIMMs.

- a) The Performa 600 logic board does not have components in this area.
- b) If the Performa 600 logic board has an FPU chip, move it to the replacement board.

---

Macintosh Quadra 605, LC 475,  
Performa 475, 476  
**Logic Board**

**Apple P/N 661-1732**



**NOTE:** Return the logic board without DRAM or VRAM SIMMs.

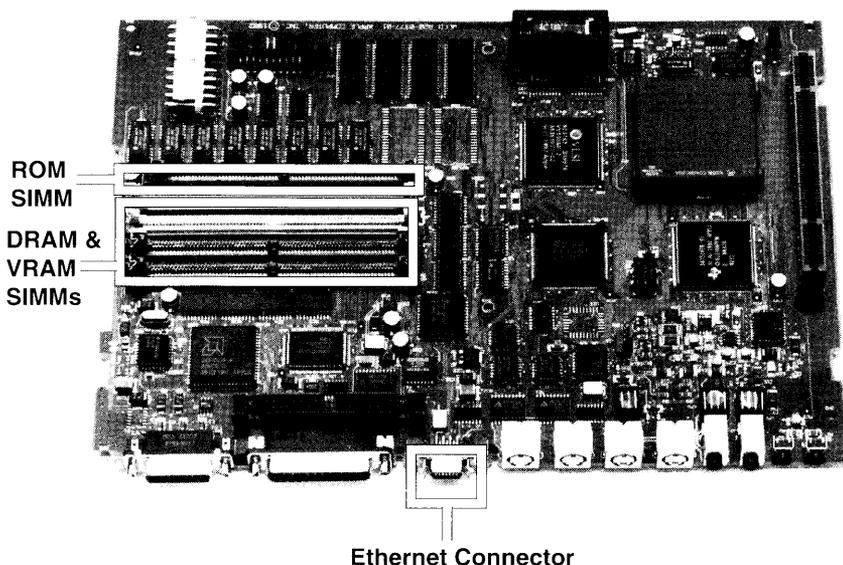
Retain the jumper cable (P/N 517-0546) on the Macintosh Quadra 605 logic board.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

---

## Macintosh Quadra 610 Logic Board (without FPU)

Apple P/N 661-0042



**NOTE:** This logic board has the part number "PC68LC040RC25" on the CPU chip.

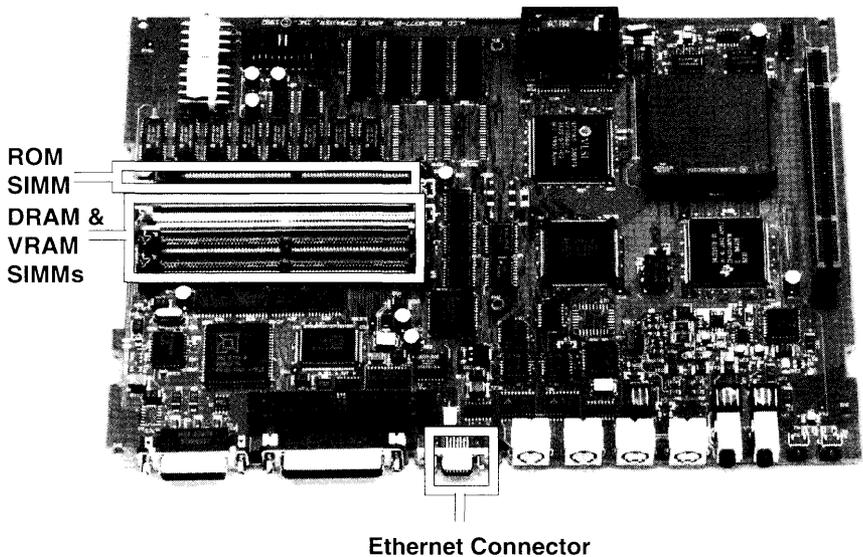
Return the logic board without DRAM or VRAM SIMMs.

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

---

## Macintosh Quadra 610 Logic Board

Apple P/N 661-0043



**NOTE:** This logic board has the part number "PC680C040RC25" on the CPU chip.

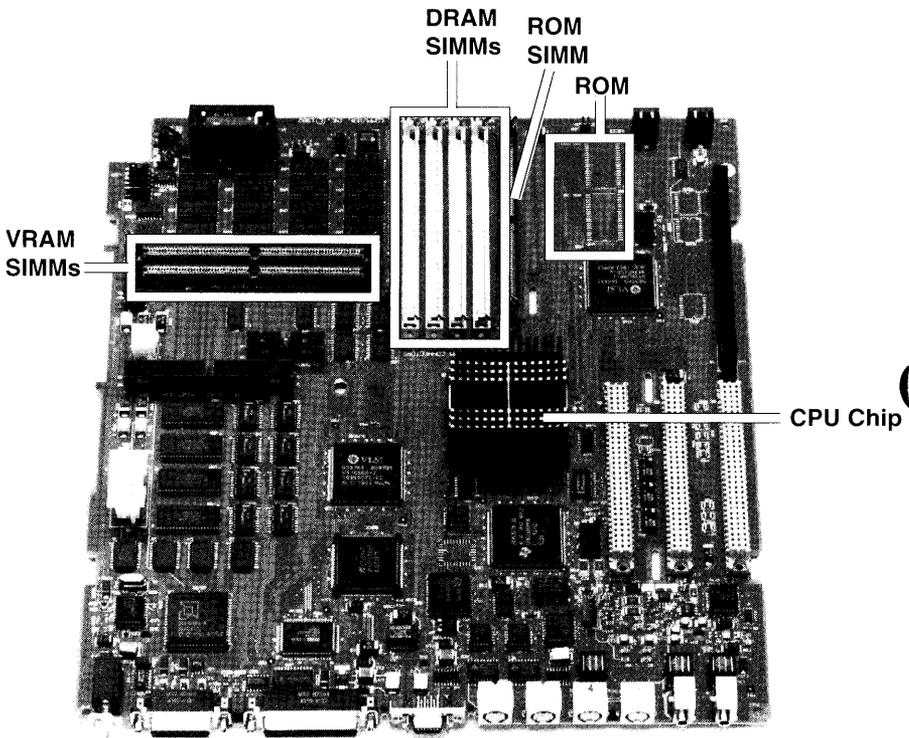
Return the logic board without DRAM or VRAM SIMMs.

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

---

## Macintosh Quadra 650 Logic Board, 8 MB

Apple P/N 661-0044



**NOTE:** This logic board has 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.

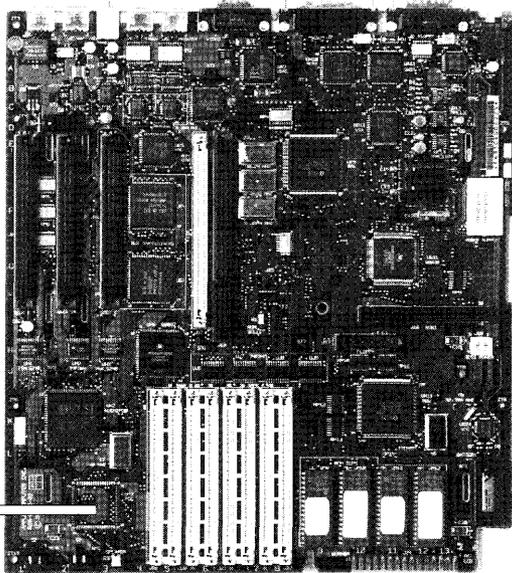
The Macintosh Quadra 650 logic board has part numbers 341S1074 and 341S1075 on the ROM chip.

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

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## Macintosh IIci Logic Board

Apple P/N 661-0532



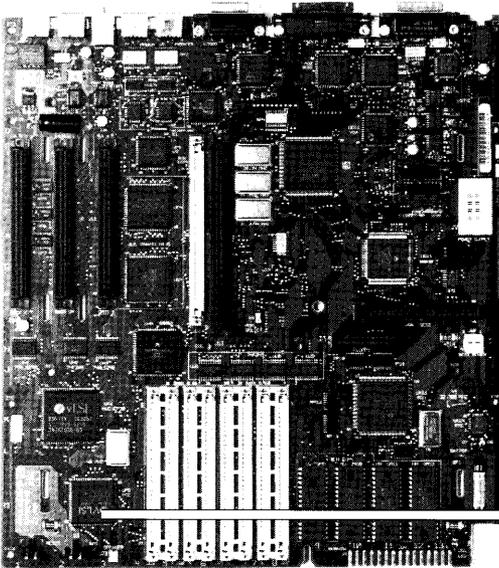
See Note

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

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Macintosh IIci  
**Logic Board (with Parity)**

**Apple P/N 661-0583**



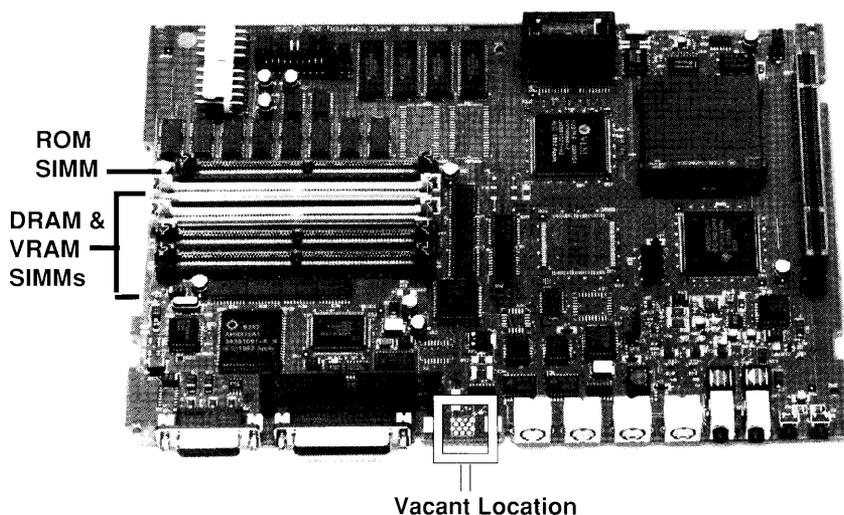
**See Note**

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

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## Macintosh Centris 610 Logic Board

Apple P/N 661-1681



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

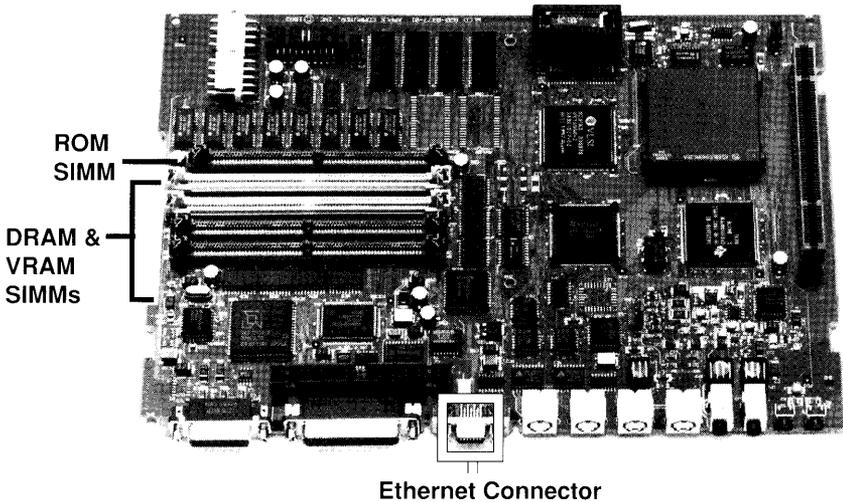
This logic board does not support Ethernet and can be identified by the vacant connector location as indicated.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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# Macintosh Centris 610 Logic Board (with Ethernet)

Apple P/N 661-1682



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

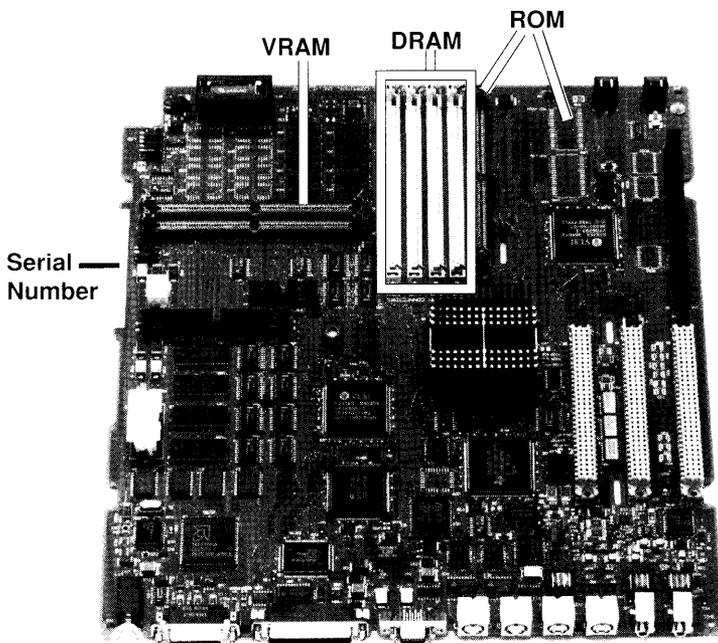
This logic board support Ethernet and can be identified by the Ethernet connector as indicated.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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Macintosh Centris 650  
Logic Board, 4 MB, FPU (with Ethernet)

Apple P/N 661-1677



**NOTE:** To identify the logic board, refer to the module serial number. For P/N 661-1677, the last five characters contain the code ZO2.

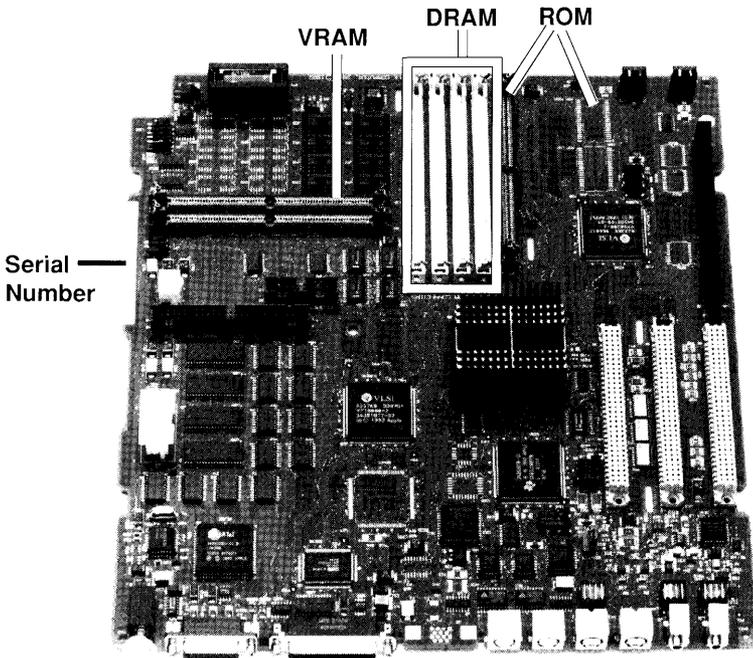
Return the Macintosh Centris 650 logic board without DRAM or VRAM SIMMs.

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

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## Macintosh Centris 650 Logic Board

Apple P/N 661-1675, 4 MB  
Apple P/N 661-1679, 4 MB, FPU



**NOTE:** To identify the logic board, refer to the module serial number:

P/N 661-1675: Last five characters contain the code ZO1.

P/N 661-1679: Last five characters contain the code ZO3.

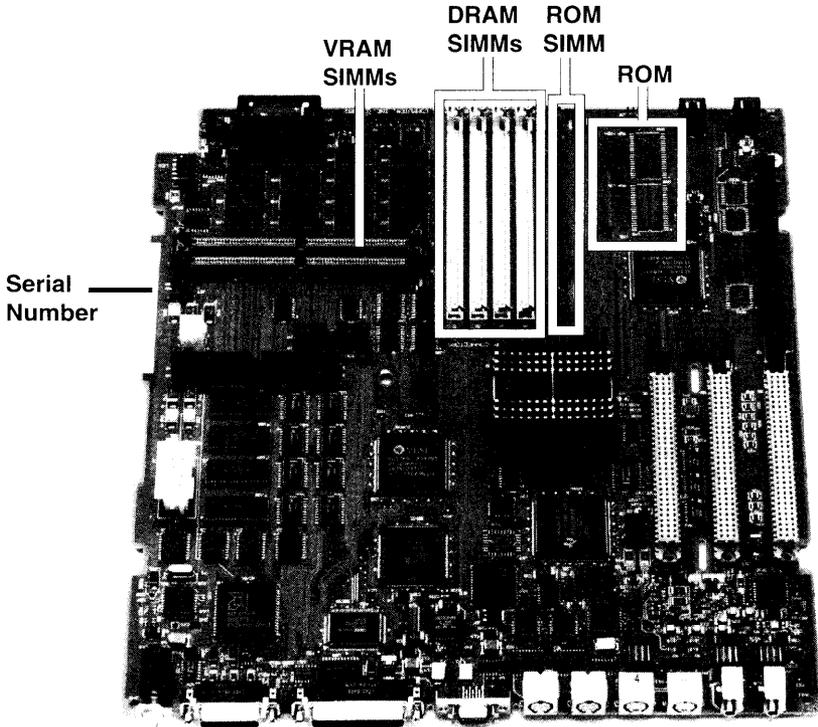
Return the Macintosh Centris 650 logic board without DRAM or VRAM SIMMs.

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

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Macintosh Centris 650  
Logic Board, 8 MB, FPU (with Ethernet)

Apple P/N 661-1678



**NOTE:** To identify the logic board, refer to the module serial number. For P/N 661-1678, the last five characters contain the code ZO4.

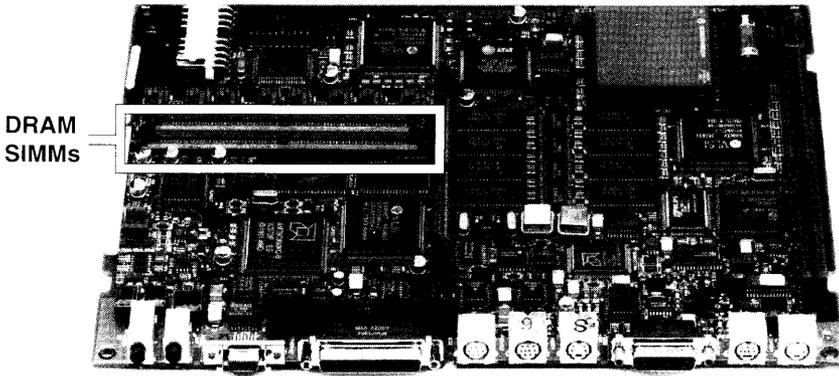
Return the Centris 650 logic board without DRAM or VRAM SIMMs.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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## Macintosh Centris 660Av Logic Board

Apple P/N 661-1704



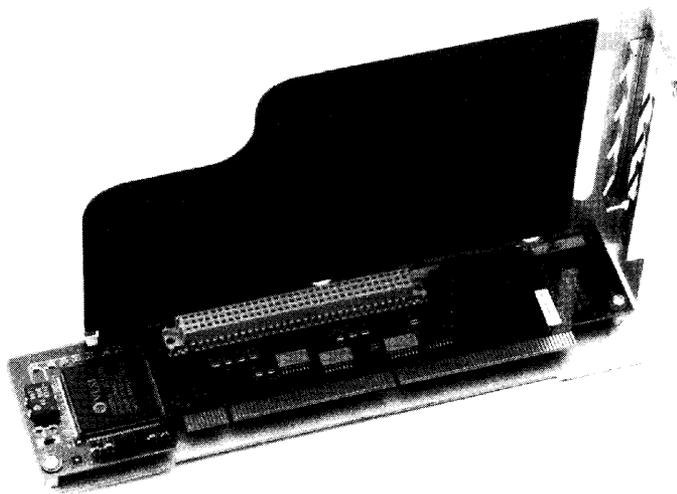
**NOTE:** Return the Macintosh Centris 660Av logic board without the DRAM SIMMs installed.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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**Macintosh Centris 660AV  
NuBus Adapter**

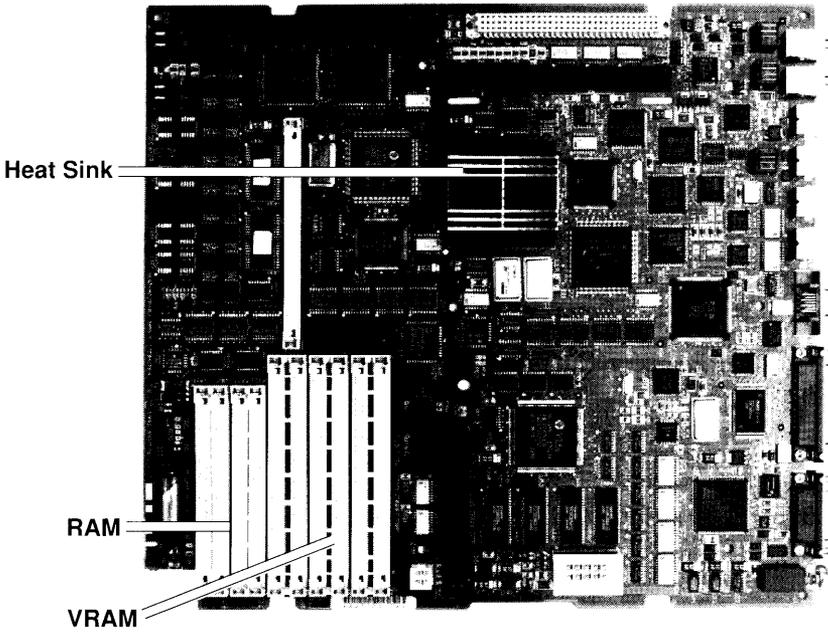
**Apple P/N 661-1719**



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# Macintosh Quadra 700 Logic Board

Apple P/N 661-0666



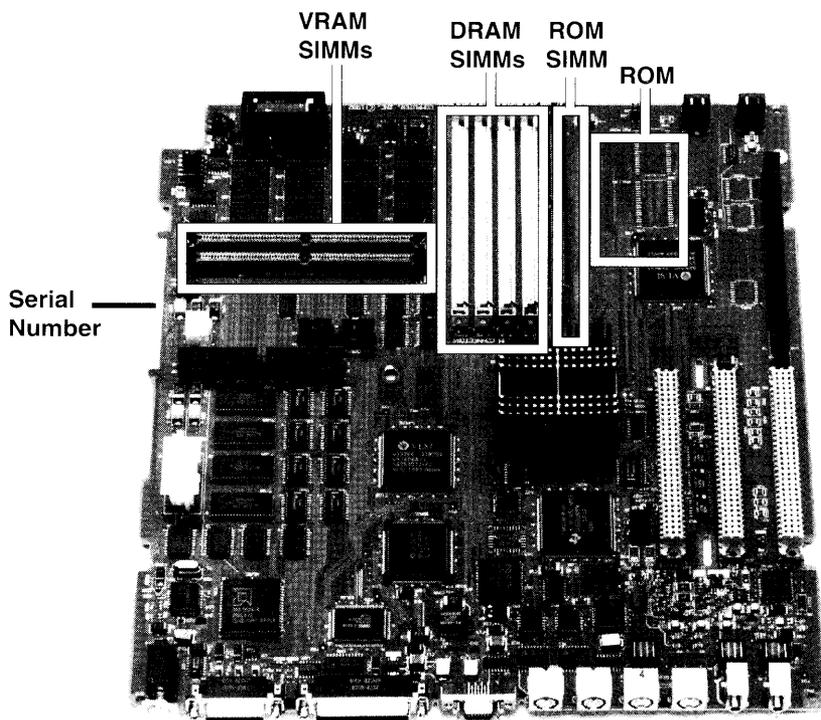
**NOTE:** The heat sink must remain on the board when you return the board to Apple.

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

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Macintosh Quadra 800  
Logic Board, 8 MB, FPU (with Ethernet)

Apple P/N 661-1676



**NOTE:** To identify the logic board, refer to the module serial number. For P/N 661-1676, the last five characters contain the code ZO5.

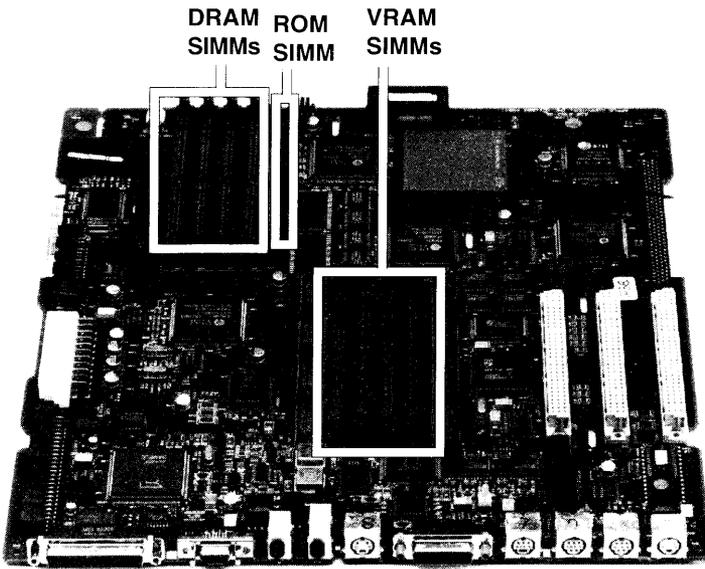
Return the Macintosh Quadra 800 logic board without VRAM or DRAM SIMMs.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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# Macintosh Quadra 840Av Logic Board

Apple P/N 661-1700



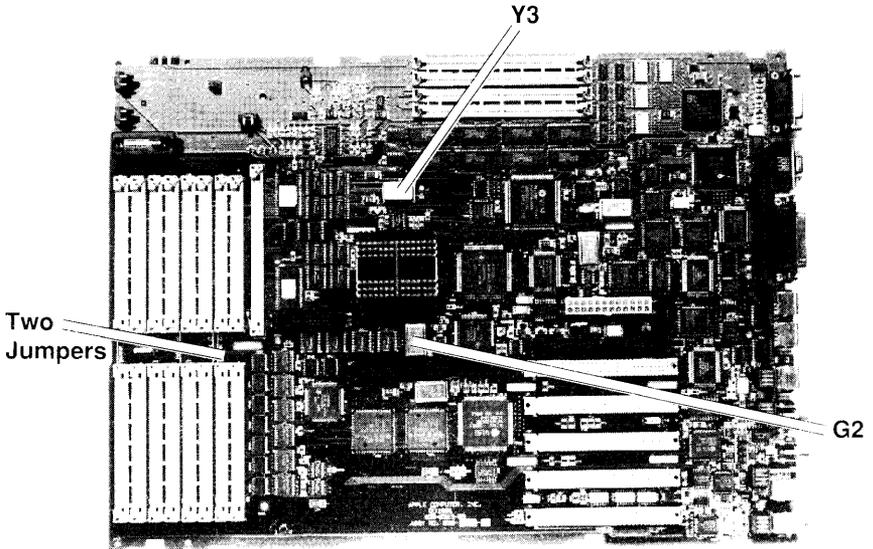
**NOTE:** Return the Macintosh Quadra 840Av logic board without DRAM or VRAM SIMMs.

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

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## Macintosh Quadra 900 Logic Board

Apple P/N 661-0665



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

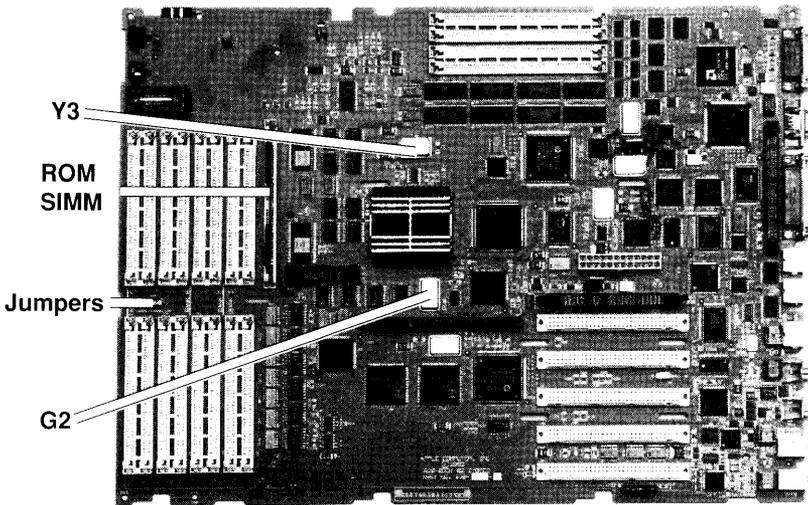
Return the logic board without RAM SIMMs.

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.

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# Macintosh Quadra 950 Apple Workgroup Server 95 Logic Board

Apple P/N 661-0727



**NOTE:** Return the 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 ROM SIMMs. 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 ROM SIMMs.

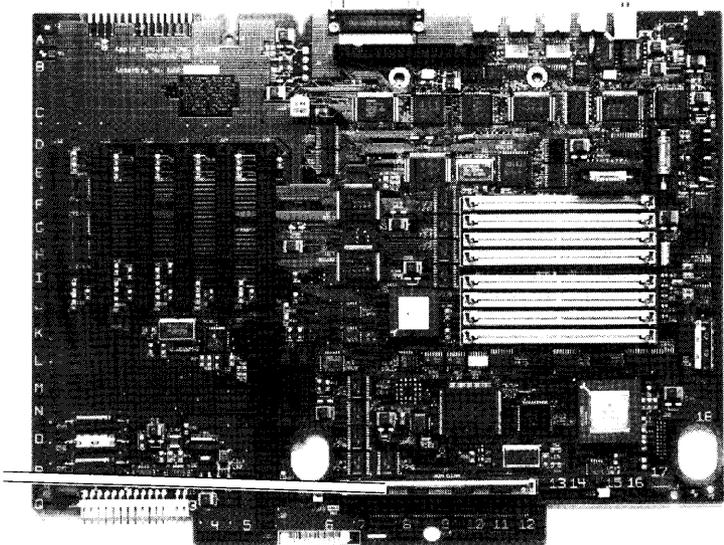
Return the logic board without RAM SIMMs.

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.

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Macintosh IIx  
**Logic Board**

**Apple P/N 661-0522**



ROM  
SIMM

**NOTE:** Remove the on-off switch, EMI shield, and RAM SIMMs before you return the logic board.

Return the Macintosh IIx logic board with the ROM SIMM.

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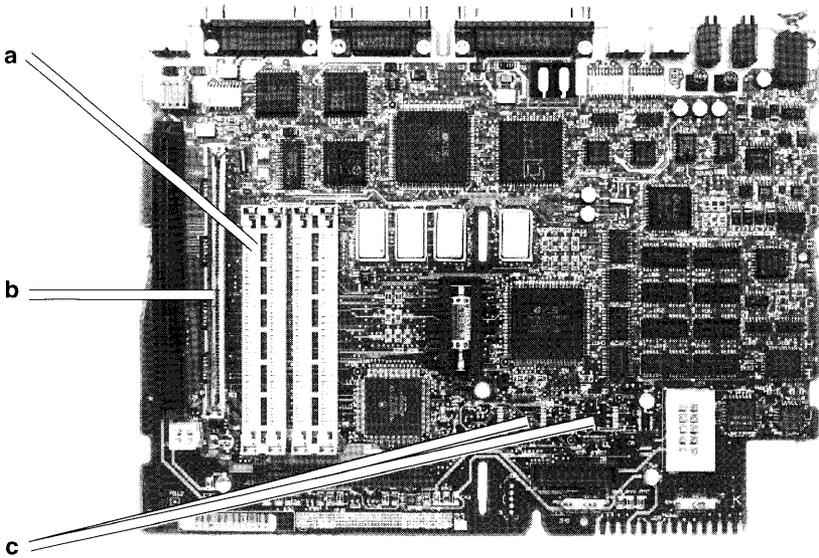
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## Macintosh IIsi Logic Board

Apple P/N 661-1615



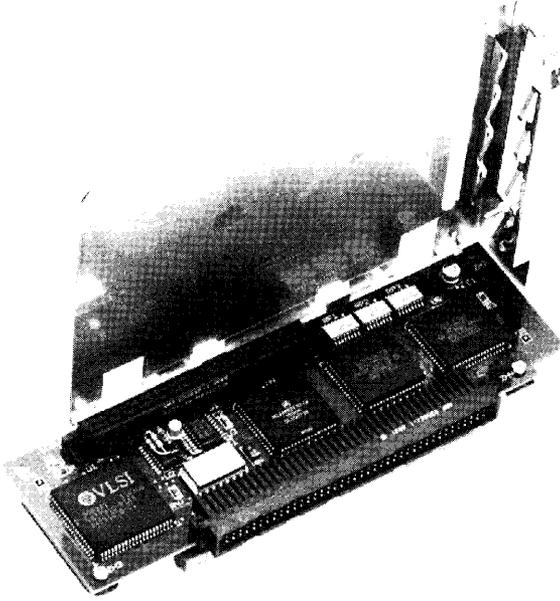
**NOTE:**

- a) Return the Macintosh IIsi without RAM SIMMs.
- b and c) The logic board includes either a 64-pin ROM SIMM located at position (b) or two ROM chips located at position (c). 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.

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Macintosh IIsi  
**NuBus Expansion Adaptor**

**Apple P/N 661-0645**

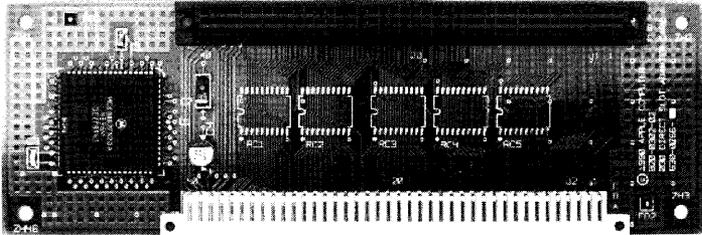


**NOTE:** Retain the thumbscrews that mount the adaptor for use with the customer's replacement adaptor.

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Macintosh IIsi  
'030 Direct Slot Expansion Adaptor

Apple P/N 661-0644



**NOTE:** Retain the '030 card-mounting bracket for use with the customer's replacement adaptor.

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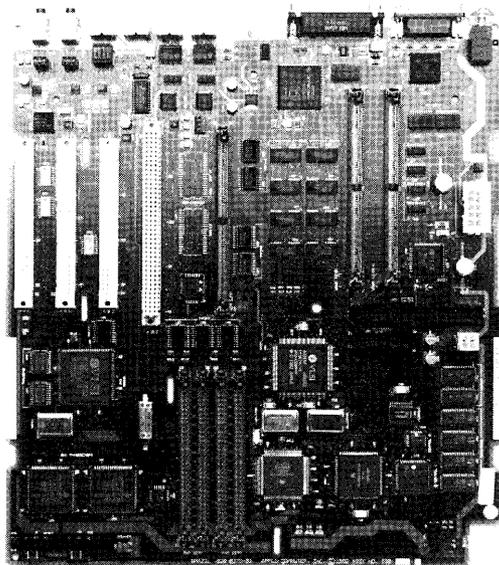
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Macintosh IIvx  
**Logic Board**

**Apple P/N 661-0759**



**NOTE:** Return the Macintosh IIvx logic board without RAM or VRAM SIMMs.

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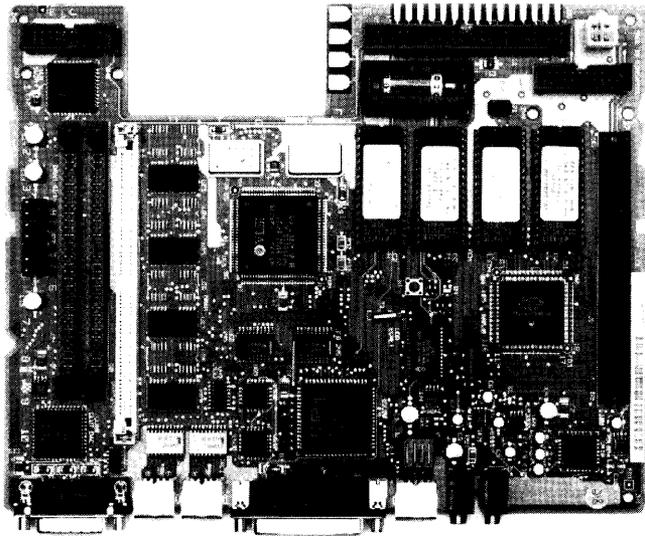
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Macintosh LC  
**Main Logic Board**

**Apple P/N 661-0593**



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Macintosh LC II  
**Logic Board, 2 MB**

**Apple P/N 661-0728**

**Photograph not available  
at the time of printing**

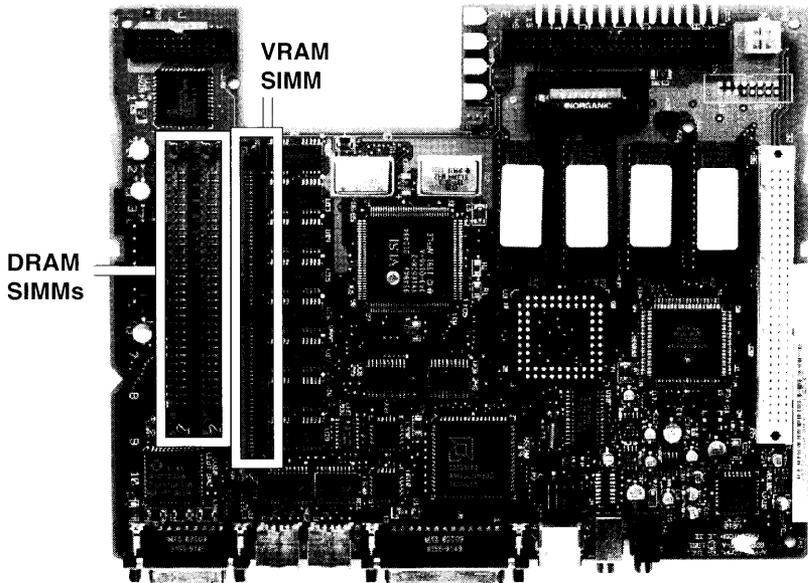
**NOTE:** The 2 MB version of the Macintosh LC II logic board looks the same as the 4 MB version except that the 2 MB version has four DRAM ICs soldered in locations UI2-UI9 rather than eight DRAM ICs.

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

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Macintosh LC II, Performa 400/405/410/430  
**Logic Board, 4 MB**

**Apple P/N 661-0729**



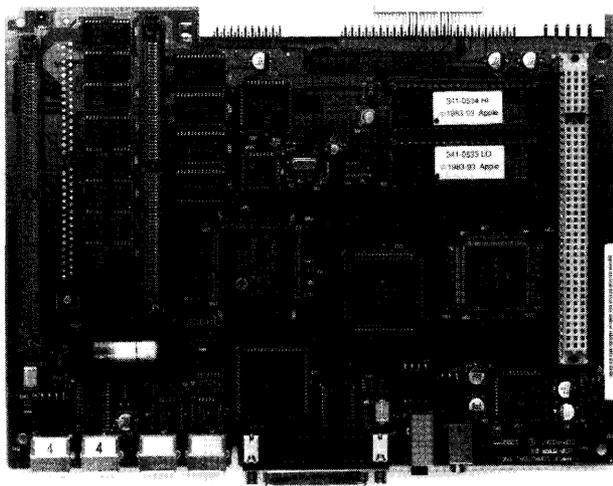
**NOTE:** Return the logic board without DRAM or VRAM SIMMs.



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Macintosh LC 520  
**Logic Board**

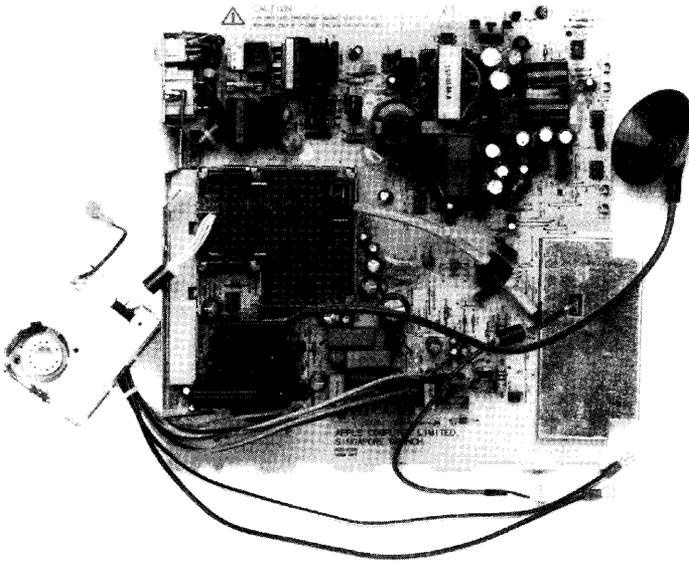
**Apple P/N 661-0812**



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Macintosh LC 520  
Analog Board

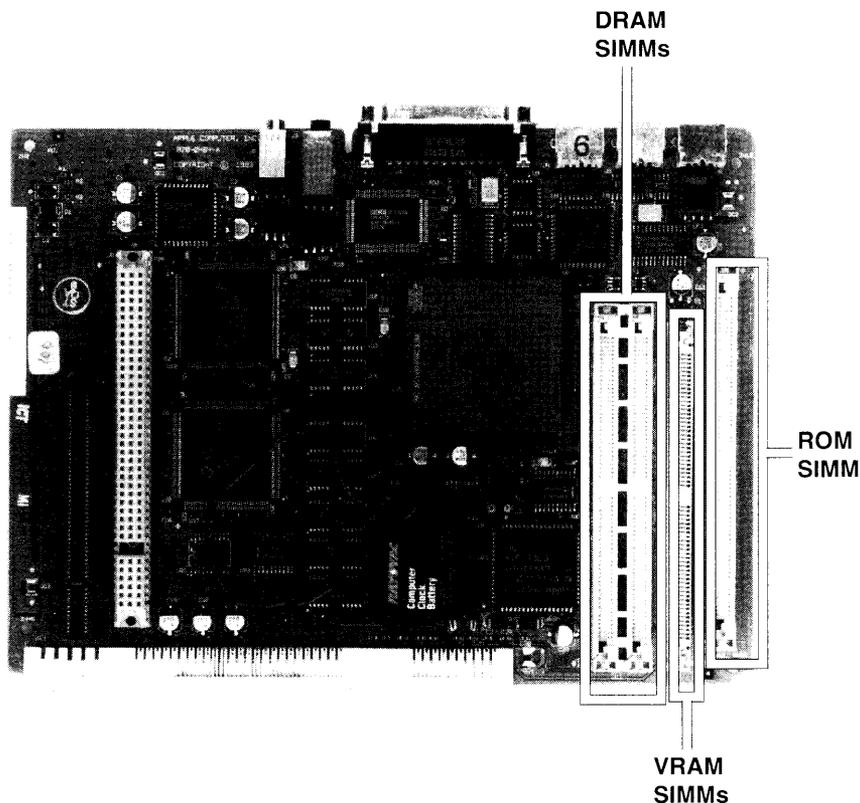
Apple P/N 661-0813



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Macintosh LC 575  
Logic Board, 33 MHz

Apple P/N 661-0867



**NOTE:** Return the Macintosh LC575 logic board without VRAM or DRAM SIMMs.

**IMPORTANT:** Some logic boards have a ROM SIMM rather than ROMs soldered directly to 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.

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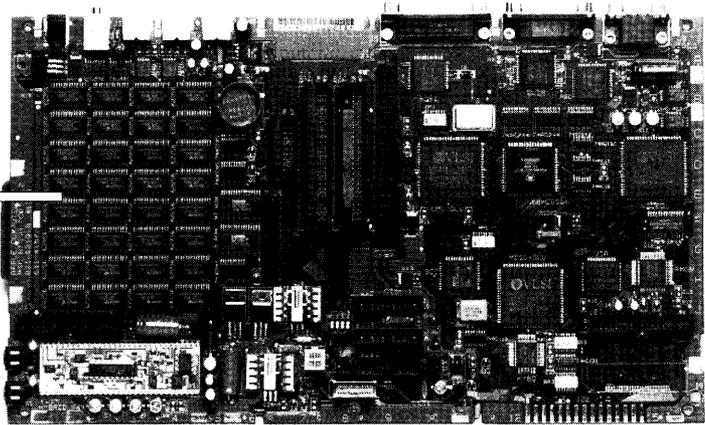
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Macintosh Portable  
**Logic Board**

**Apple P/N 661-0470**

See Note

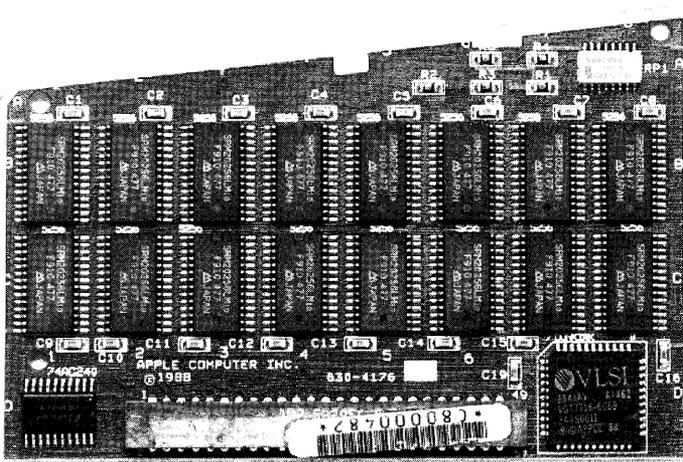


**NOTE:** This board has 32 RAM chips.

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Macintosh Portable  
RAM Expansion Card, 1 MB

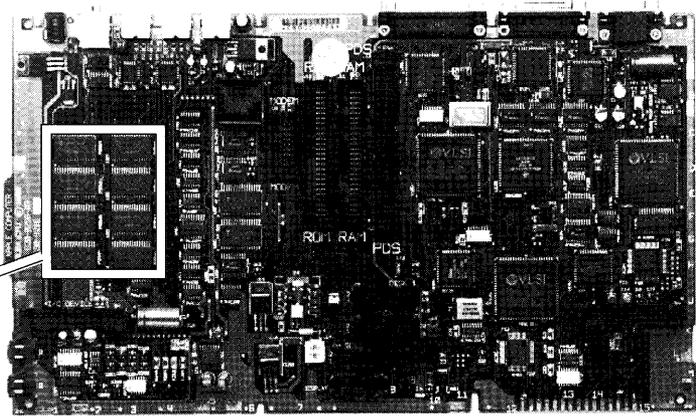
Apple P/N 661-0480



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Macintosh Portable  
**Logic Board, PSRAM**

**Apple P/N 661-1610**



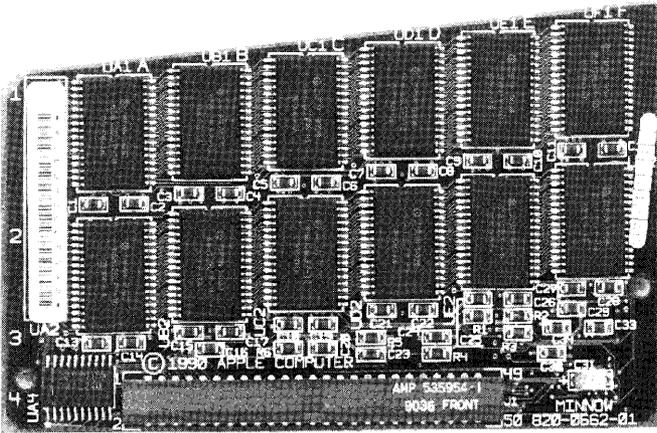
See Note

**NOTE:** This logic board has eight RAM chips.

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Macintosh Portable  
**3 MB PSRAM Expansion Card**

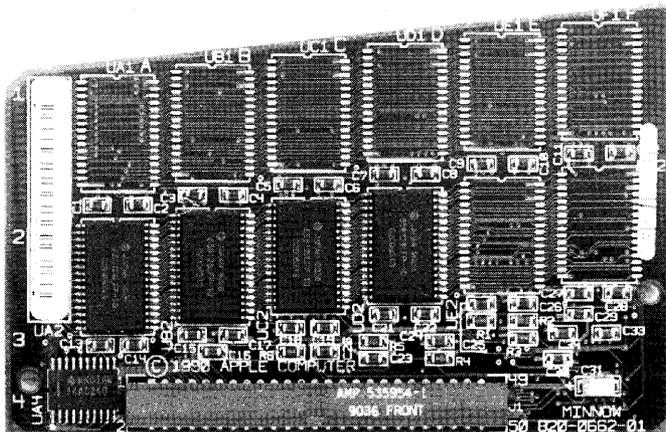
**Apple P/N 661-1613**



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Macintosh Portable  
1 MB PSRAM Expansion Card

Apple P/N 661-1614



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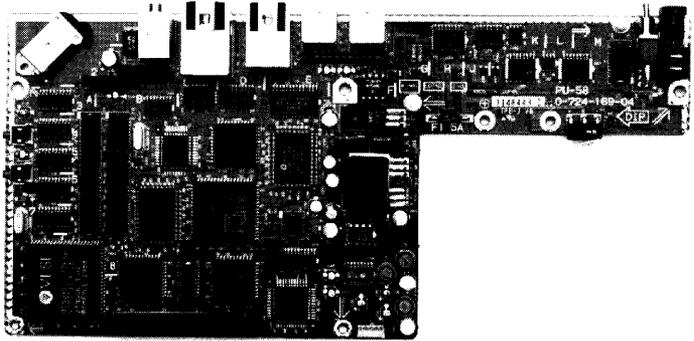
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**PowerBook 100  
Motherboard**

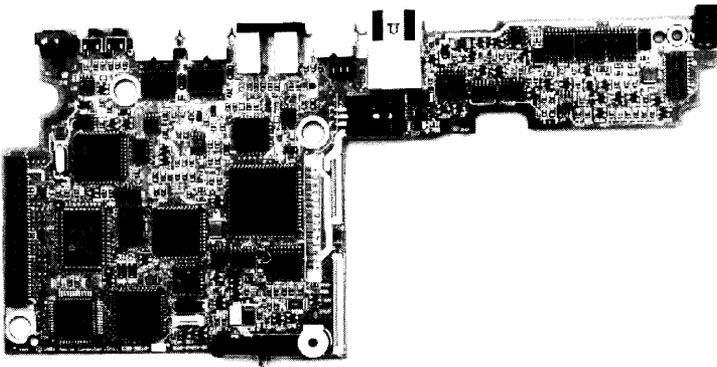
**Apple P/N 661-0673**



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PowerBook 140/145/170  
**Motherboard**

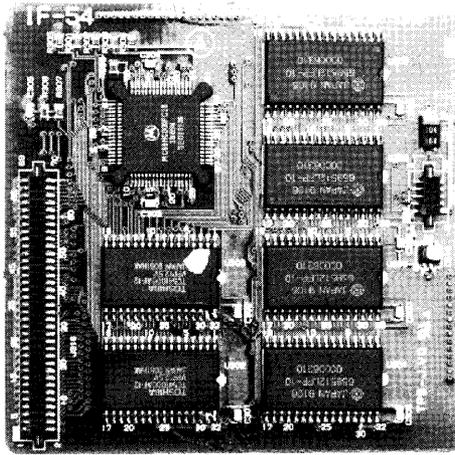
**Apple P/N 661-0708**



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**PowerBook 100  
Daughterboard**

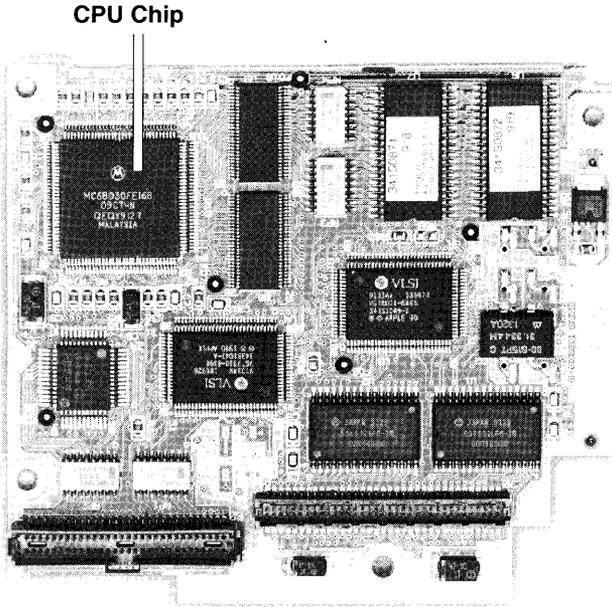
**Apple P/N 661-0674**



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## PowerBook 140 Daughterboard

Apple P/N 661-0707

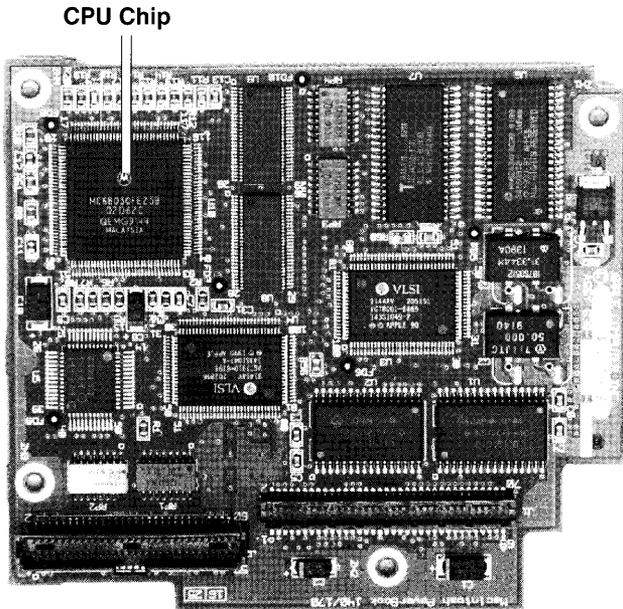


**NOTE:** The PowerBook 140, 145, and 170 daughterboards are similar. You can identify the PowerBook 140 daughterboard by the number *16* in the CPU chip part number and by the absence of a 68882 chip on the underside.

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## PowerBook 170 Daughterboard

Apple P/N 661-0709



**NOTE:** 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.

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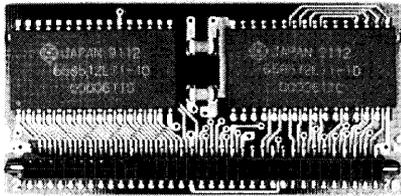
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**PowerBook 100/140/145/145B/160/170  
PSRAM Expansion Card, 2 MB**

**Apple P/N 661-0715**



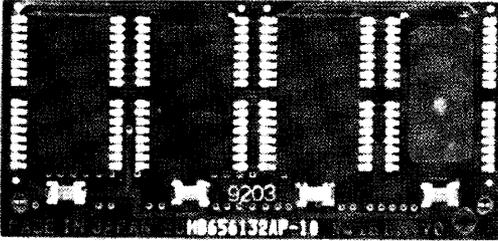
---

PowerBook 100

**PSRAM Expansion Card, 4 MB, 100 ns**

**Apple P/N 661-0714**

(When you return the PSRAM Expansion Card for the PowerBook 100, Apple ships you P/N 661-1103.)



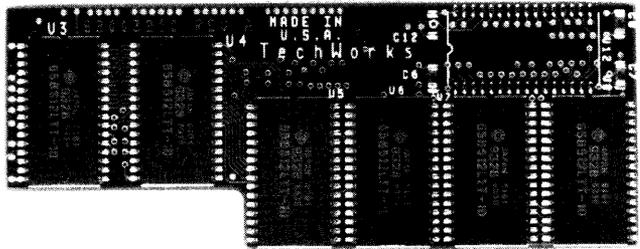
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# PowerBook 100 PSRAM Expansion Card, 4 MB, 100 ns

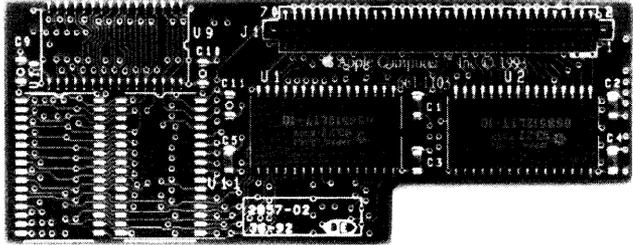
## Apple P/N 661-1103

(When you return the PSRAM Expansion Card for the PowerBook 140/145/145B/160/165c/170/180c, Apple ships you P/N 661-0790.)

Top



Bottom

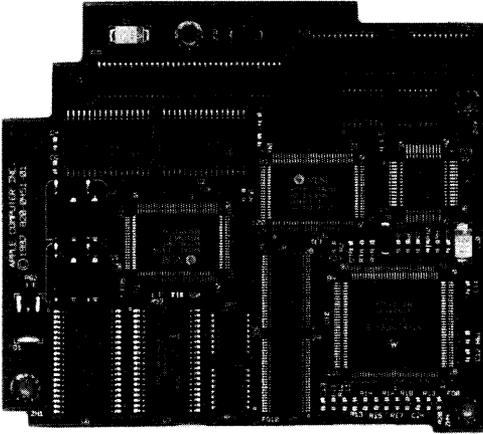


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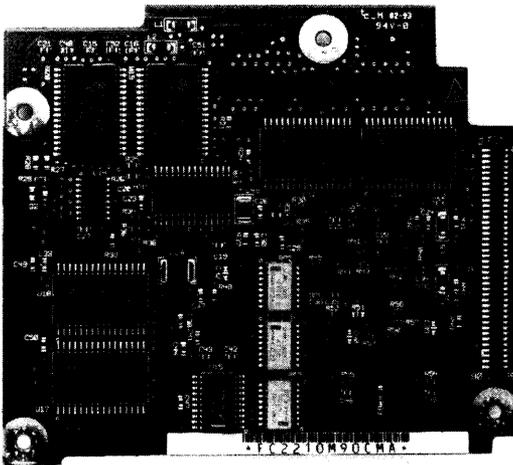
# PowerBook 145B Daughterboard

Apple P/N 661-1715

Front



Back



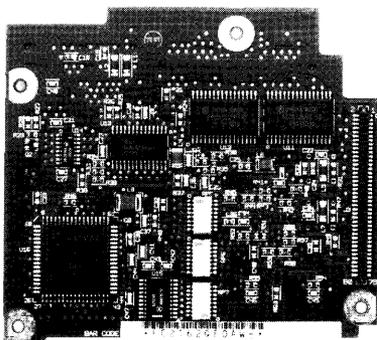
**NOTE:** The PowerBook 145B daughterboard has RAM chips at locations U17, U18, U18, and U20.

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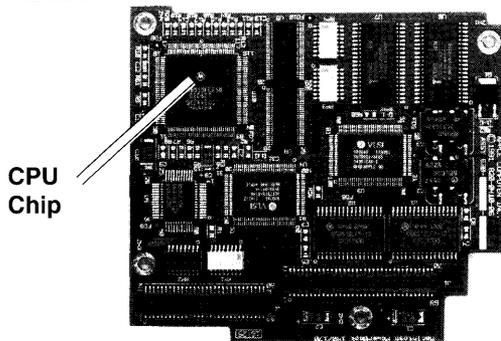
## PowerBook 145 Daughterboard

Apple P/N 661-0788

Front



Back



**NOTE:** 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.

(

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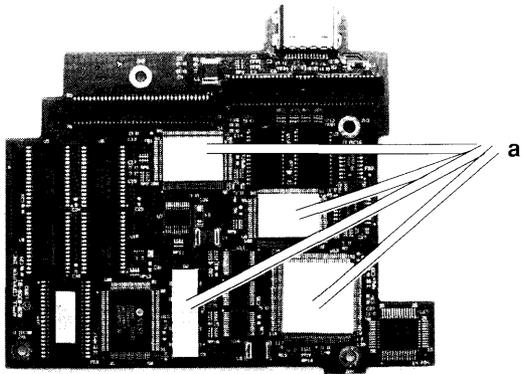
(

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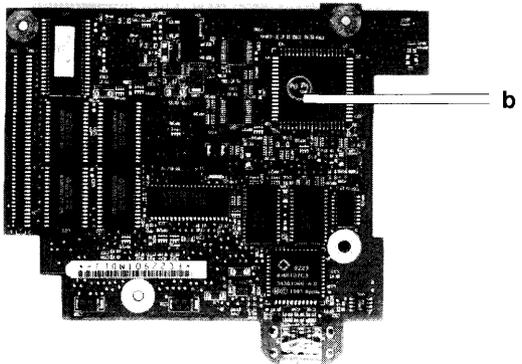
## PowerBook 160 Daughterboard

Apple P/N 661-0744

Top



Bottom



**NOTE:**

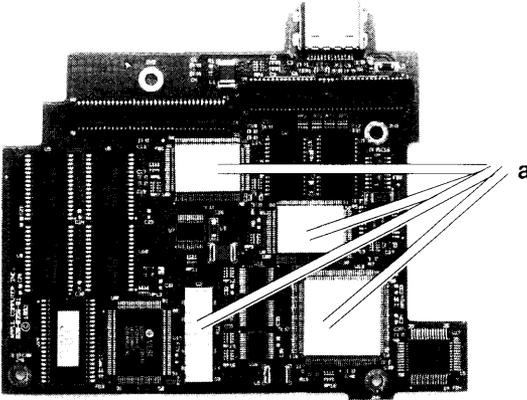
- a) If any of the chromeric heat sinks is missing, return module to Apple for exchange.
- b) The PowerBook 160 and 180 daughterboards look similar. You can identify the PowerBook 160 daughterboard by the absence of a 68882 chip on the underside.

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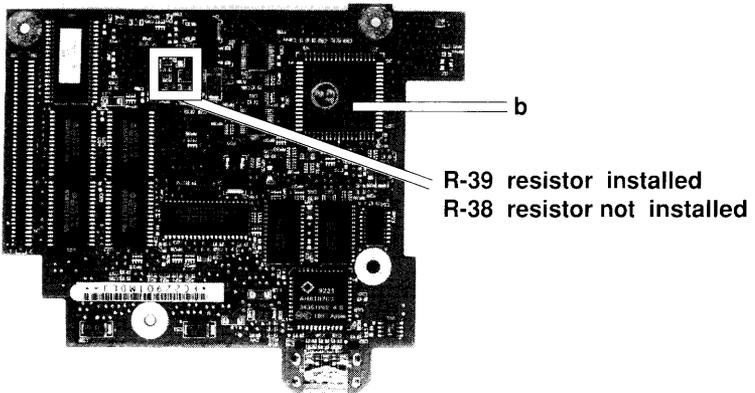
# PowerBook 165 Daughterboard

## Apple P/N 661-1016

Top



Bottom



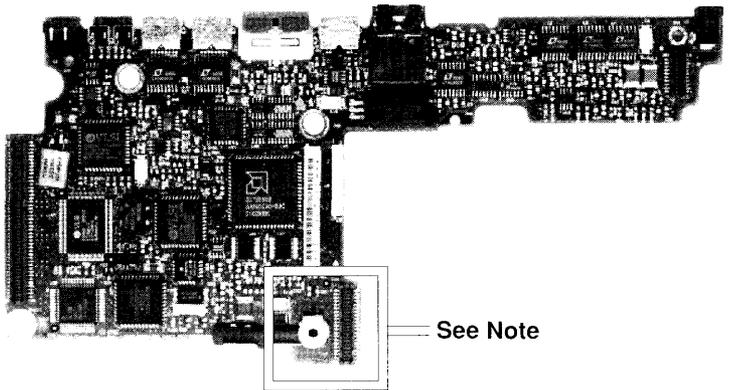
### NOTE:

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

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PowerBook 160/165/180  
**Motherboard**

**Apple P/N 661-0746**

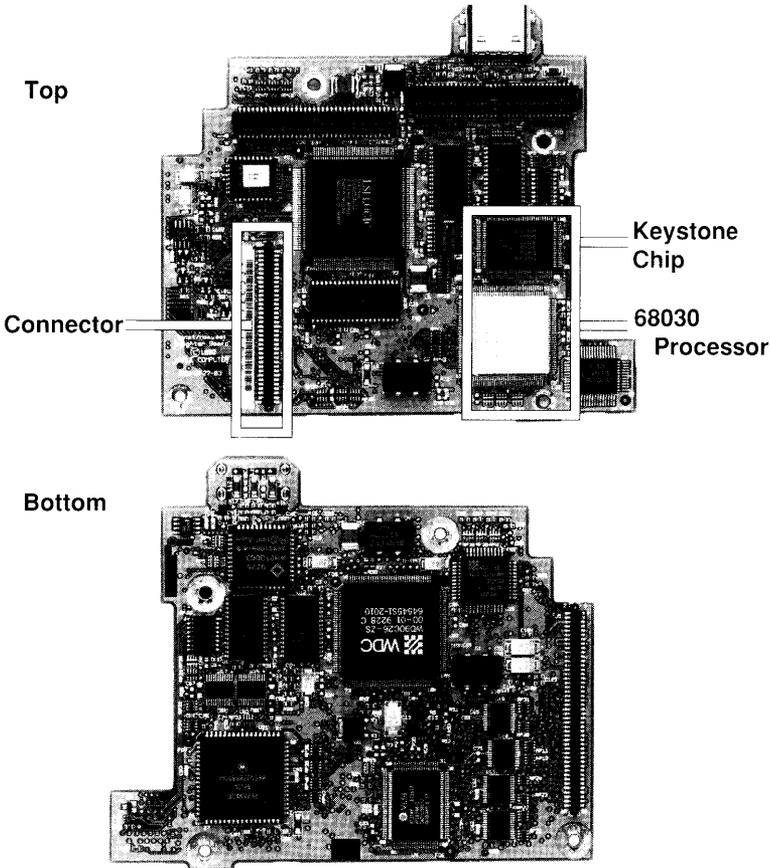


**NOTE:** The PowerBook 160/165/180 motherboard and the PowerBook 140/145/170 motherboard are similar. The PowerBook 160/165/180 motherboard is extended at the hard drive cable connector.

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# PowerBook 165c Daughterboard

## Apple P/N 661-0751



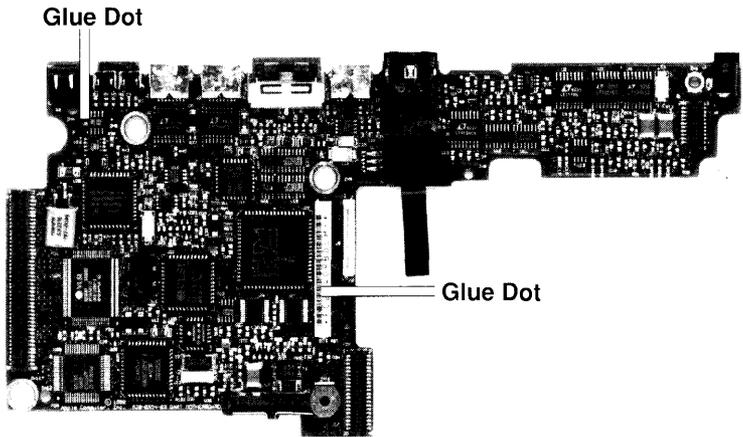
**NOTE:** The PowerBook 165c daughterboard has heat sinks over the keystone chip and the 68030 processor. Missing or damaged heat sinks must be replaced. Use the heat sink kit listed in the PowerBook *Service Price Pages*.

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.

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**PowerBook 165c/180c  
Motherboard**

**Apple P/N 661-0765**



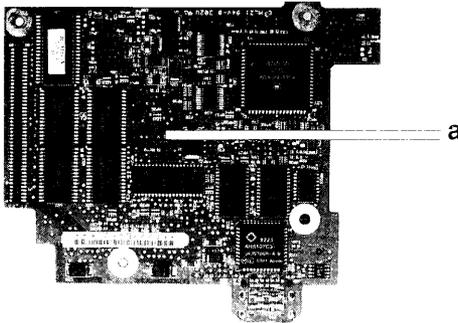
**NOTE:** The PowerBook 165c/180c and 160/180 motherboards are similar. You can identify the PowerBook 165c/180c motherboard by two glue dots.

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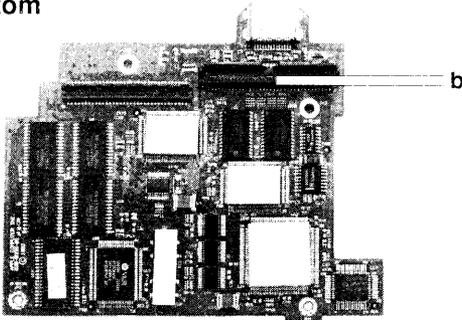
# PowerBook 180 Daughterboard

Apple P/N 661-0747

Top



Bottom



**NOTE:**

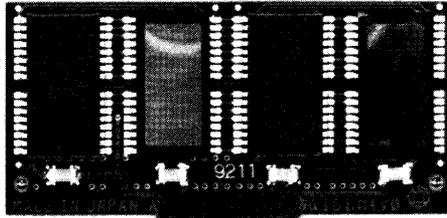
- a) Missing or damaged heat sinks must be replaced.  
Use the heat sink kit listed in the *PowerBook Service Price Pages*.
- b) The PowerBook 180 and 160 daughterboards are similar. You can identify the PowerBook 180 daughterboard by a 68882 chip on the underside.

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PowerBook 140/145/145B/160/165/165c/  
170/180c

**PSRAM Expansion Card, 4 MB, 85 ns**

**Apple P/N 661-0790**

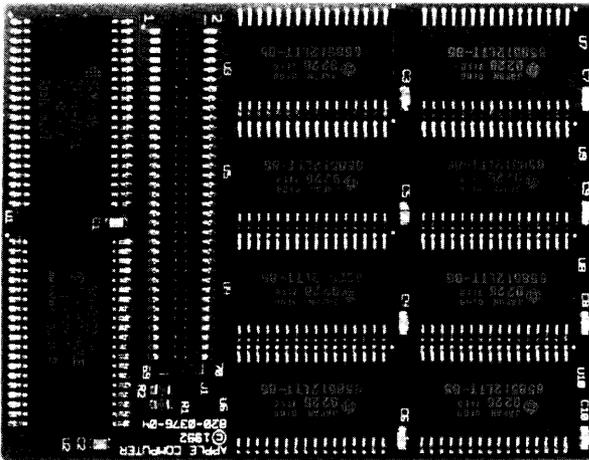


**NOTE:** The code HB656132AP-85 appears on the top side of the PSRAM card.

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# PowerBook 165c/180c Cousin Card

## Apple P/N 661-0755

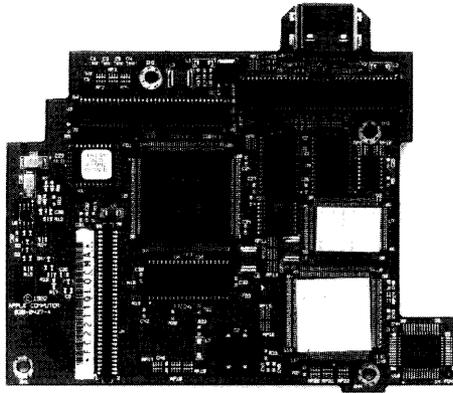


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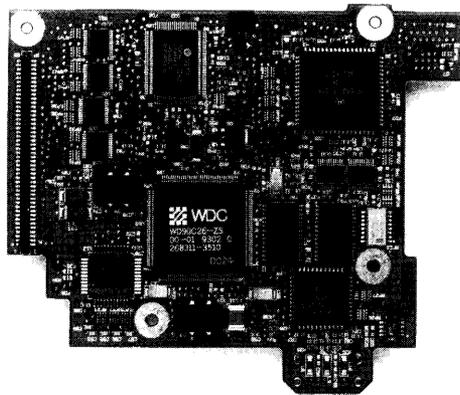
## PowerBook 180c Daughterboard

Apple P/N 661-0684

Top



Bottom



**NOTE:** 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.

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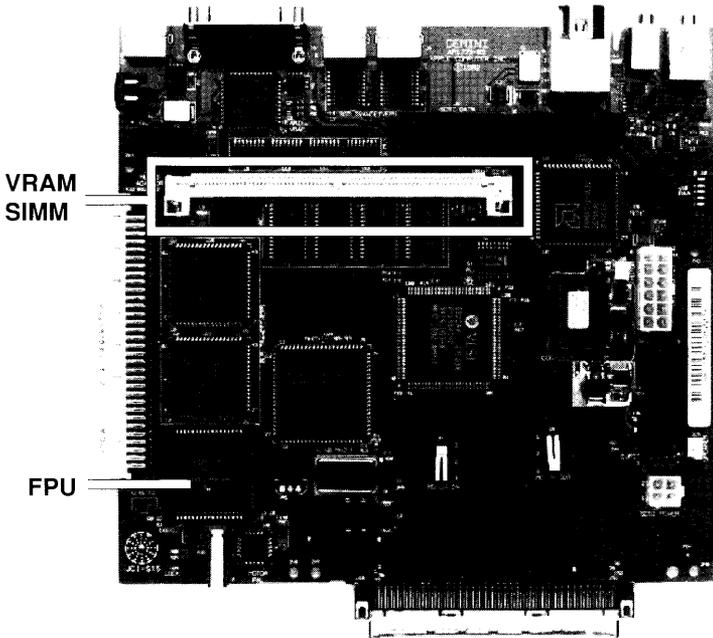
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## Macintosh Duo Dock Logic Board

Apple P/N 661-1657



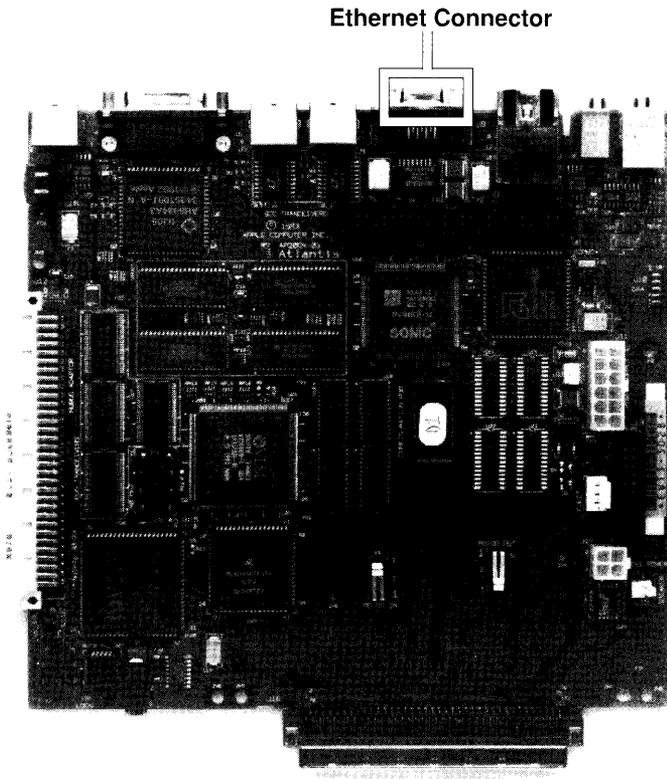
**NOTE:** Return the Macintosh Duo Dock logic board without the VRAM SIMM.

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

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# Macintosh Duo Dock II Logic Board

Apple P/N 661-1707

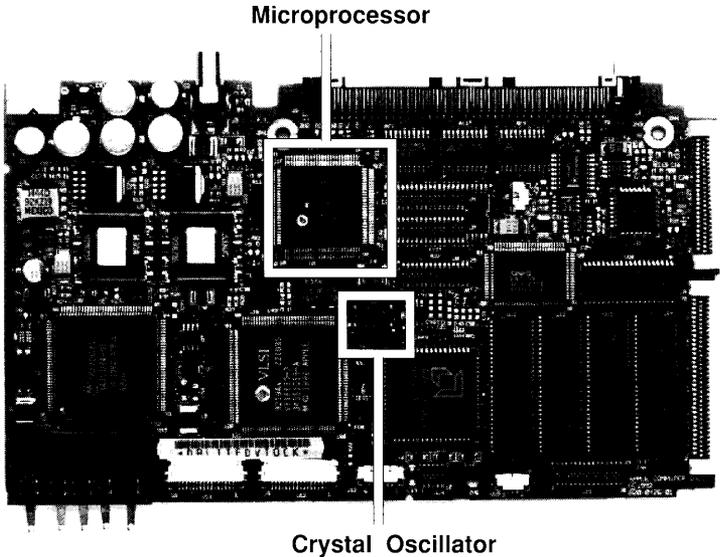


**NOTE:** The Macintosh Duo Dock II logic board has an Ethernet connector.  
The Macintosh Duo Dock logic board does not.

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PowerBook Duo 210  
Logic Board, 25 MHz

Apple P/N 661-1653



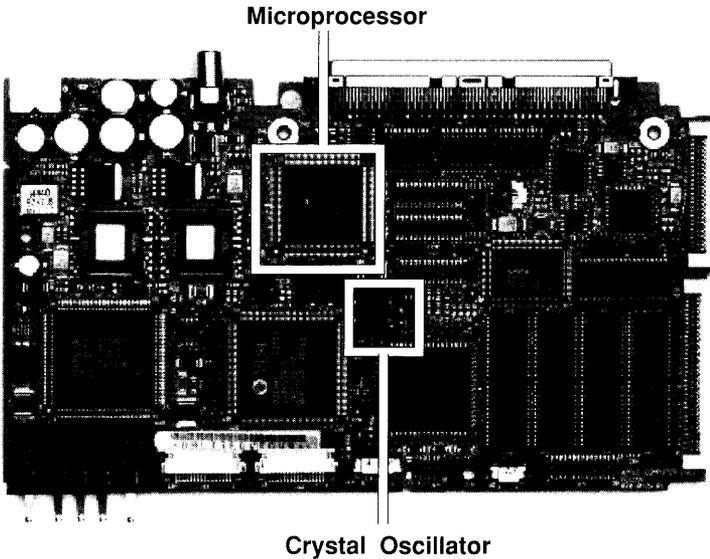
**NOTE:** In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

The crystal oscillator at location G1 is 50.000 MHz. The microprocessor at location U5 is 25 MHz.

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PowerBook Duo 230  
Logic Board, 33 MHz

Apple P/N 661-1672



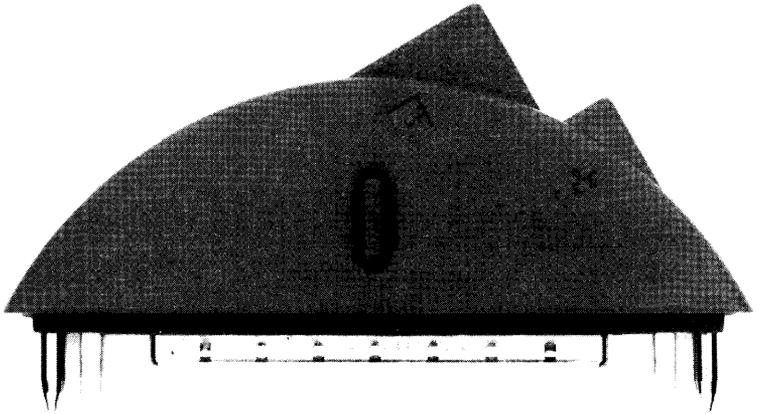
**NOTE:** In the U.S., this module is available only to service providers who attend the Macintosh PowerBook Service Course. All other U.S. service providers should contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

The crystal oscillator at location G1 is 66.6677 MHz. The microprocessor at location U5 is 33 MHz.

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Macintosh Duo 210/230  
**Floppy Adapter**

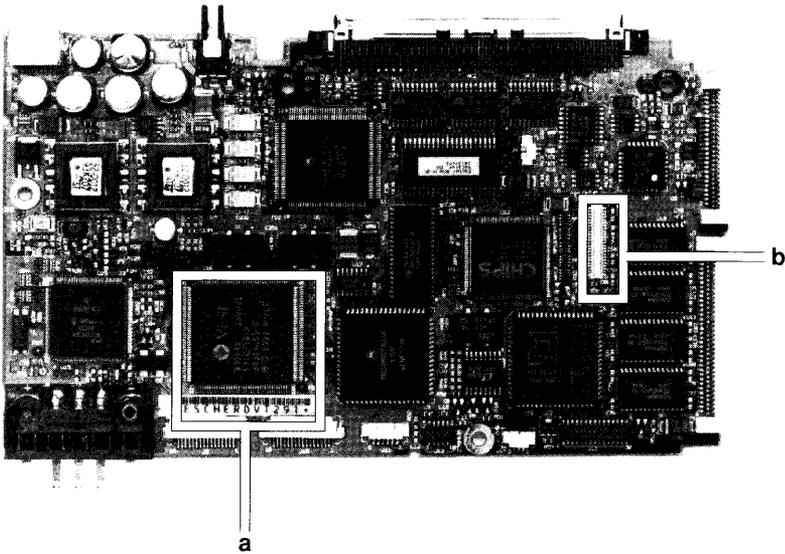
**Apple P/N 661-1663**



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# Macintosh Duo 270c Logic Board

Apple P/N 661-1717



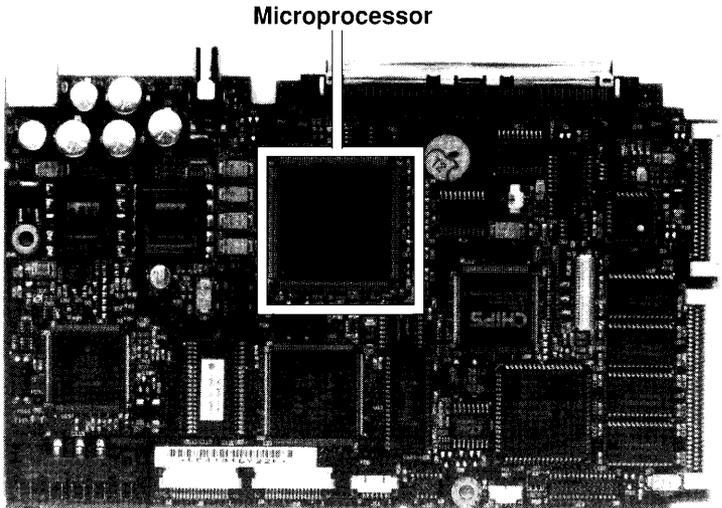
**NOTE:**

- a) The PowerBook Duo 270c has a 68882 math coprocessor on the logic board. The PowerBook 210/230/250 logic board does not.
- b) The PowerBook Duo 270c display connector is mounted vertically. The PowerBook Duo 210/230/250 display connector is mounted horizontally.

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PowerBook Duo 280/280c  
Logic Board

Apple P/N 661-0051



**NOTE:** This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

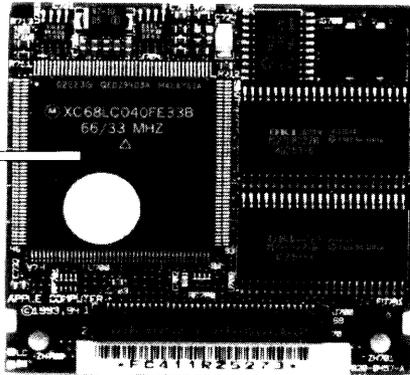
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# PowerBook 520/520c Daughterboard, 25 MHz, Rev. A

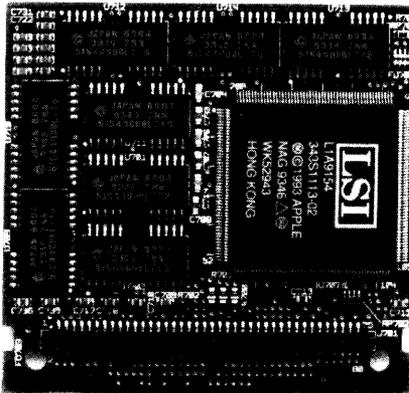
Apple P/N 661-0059

Top

Microprocessor



Bottom



**NOTE:** This logic board has the part number "XC68LC040FE25B" printed on the microprocessor.

The PowerBook 520/520c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 520/520c Rev. A daughterboard by the part number "Japan B004" printed on the 8 RAM IC located on the bottom side of the board.

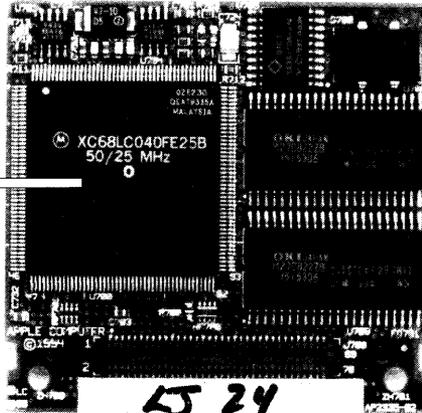
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PowerBook 520/520c  
Daughterboard, 25 MHz, Rev. B

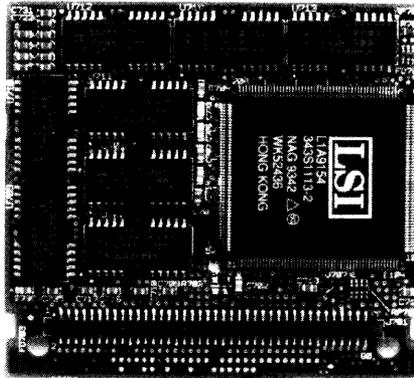
Apple P/N 661-0122

Top

Microprocessor



Bottom



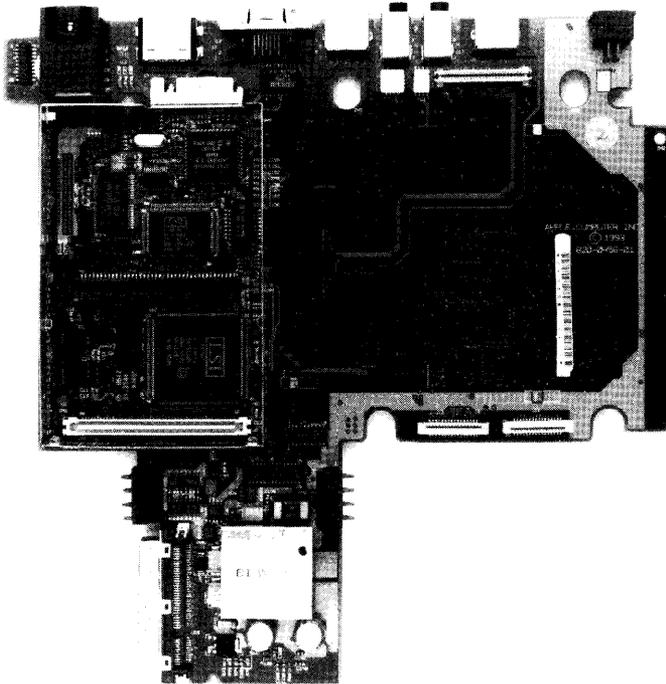
**NOTE:** This logic board has the part number "XC68LC040FE25B" printed on the microprocessor.

The PowerBook 520/520c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 520/520c Rev. B daughterboard by the part number "Japan B002" printed on the 8 RAM IC located on the bottomsides of the board.

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PowerBook 520/540 Series  
Motherboard, Rev. A

Apple P/N 661-0054

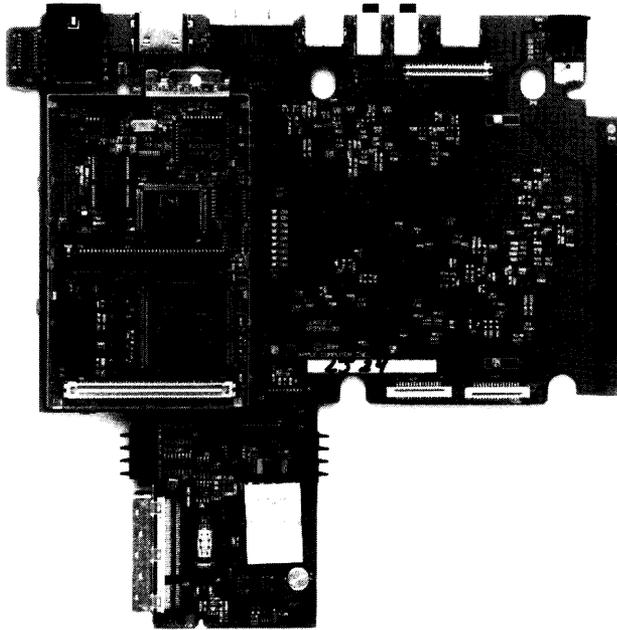


**NOTE:** The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The PowerBook 520/540 Series Rev. A motherboard does not have any components mounted in the area under the floppy drive. The PowerBook 520/540 Series Rev. B motherboard has multiple components mounted under the floppy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

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PowerBook 520/540 Series  
**Motherboard, Rev. B**

**Apple P/N 661-0108**

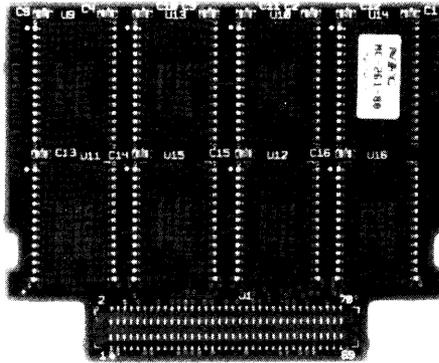


**NOTE:** The PowerBook 520/540 Series Rev. A and Rev. B motherboards are similar. The PowerBook 520/540 Series Rev. B motherboard has multiple components mounted in the area under the floppy drive. The PowerBook 520/540 Series Rev. A motherboard does not have any components mounted under the floppy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

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**PowerBook 520/540 Series  
RAM Expansion, 8 MB**

**Apple P/N 661-0058**



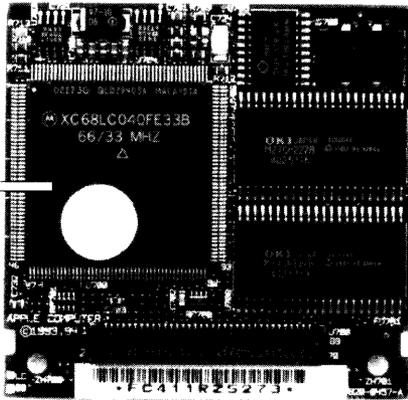
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PowerBook 540/540c  
Daughterboard, 33 MHz, Rev. A

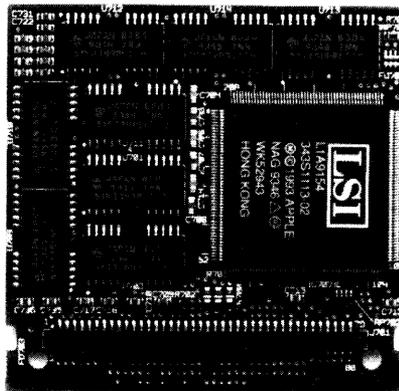
Apple P/N 661-0057

Top

Microprocessor



Bottom



**NOTE:** This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

The PowerBook 540/540c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 540/540c Rev. A daughterboard by the part number "Japan B004" printed on the 8 RAM IC located on the bottom side of the board.

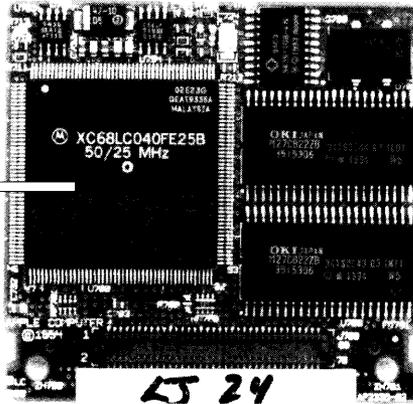
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# PowerBook 540/540c Daughterboard, 33 MHz, Rev. B

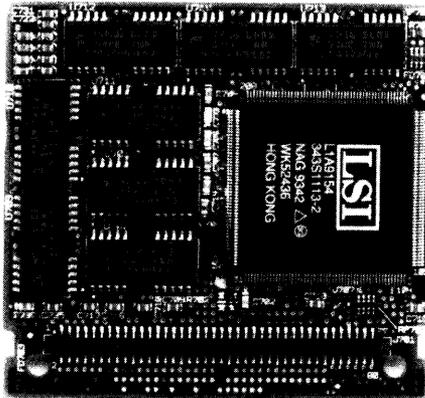
## Apple P/N 661-0109

Top

Microprocessor



Bottom



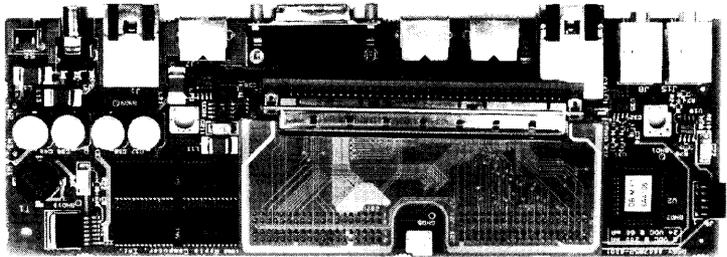
**NOTE:** This logic board has the part number "XC68LC040FE33B" printed on the microprocessor.

The PowerBook 540/540c Rev. A and Rev. B daughterboards are similar. You can identify the PowerBook 540/540c Rev. B daughterboard by the part number "Japan B002" printed on the 8 RAM IC located on the bottom side of the board.

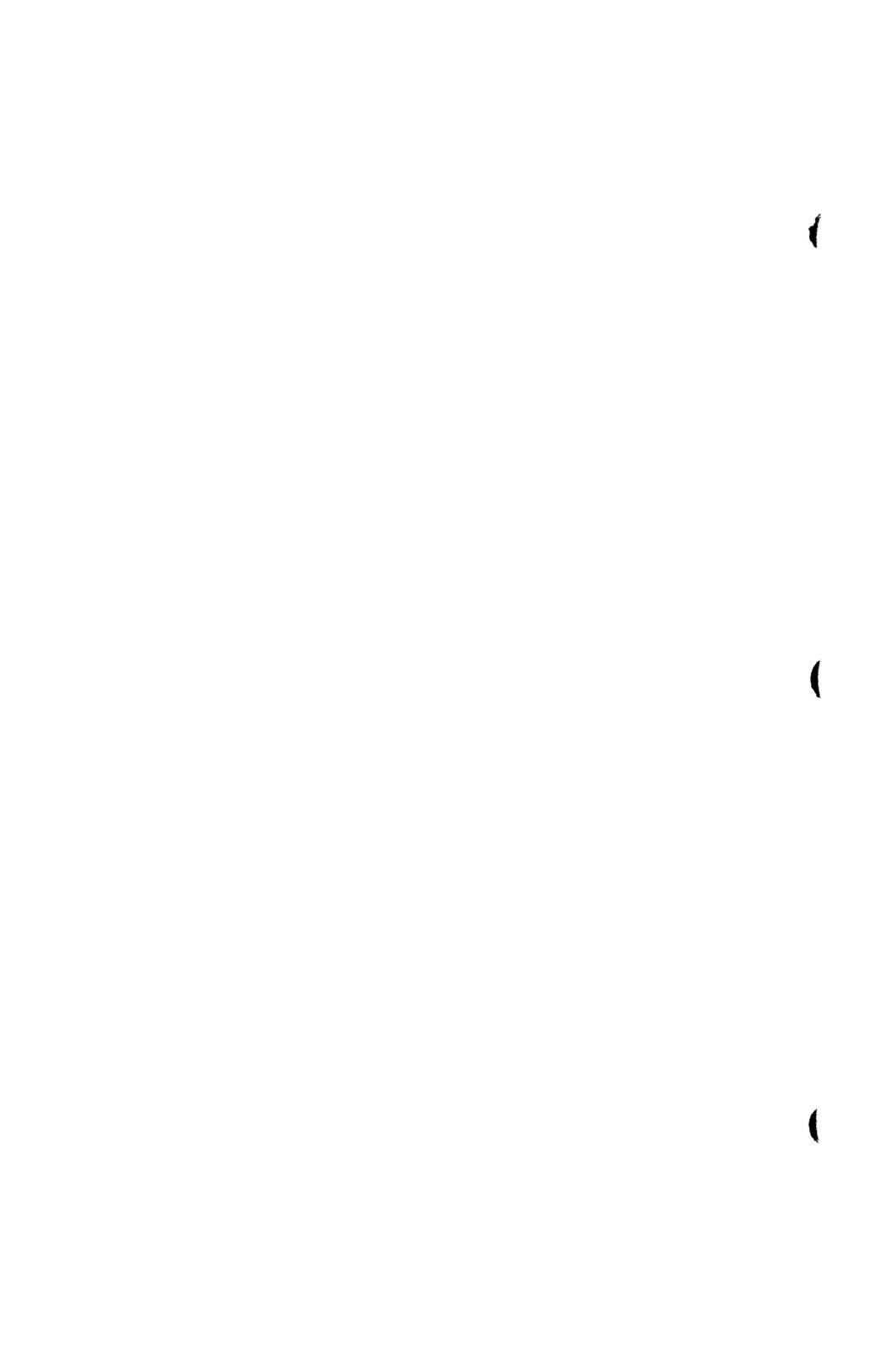
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## Macintosh Expansion Bar, Mini Dock Logic Board with Flex Cable

Apple P/N 661-1664



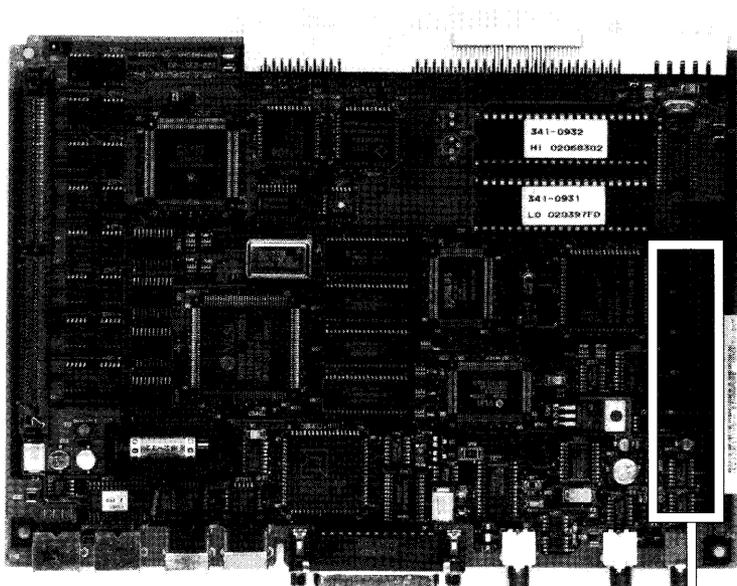
**NOTE:** Return the logic board with the flex cable assembly.



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## Macintosh TV Logic Board

Apple P/N 661-1724



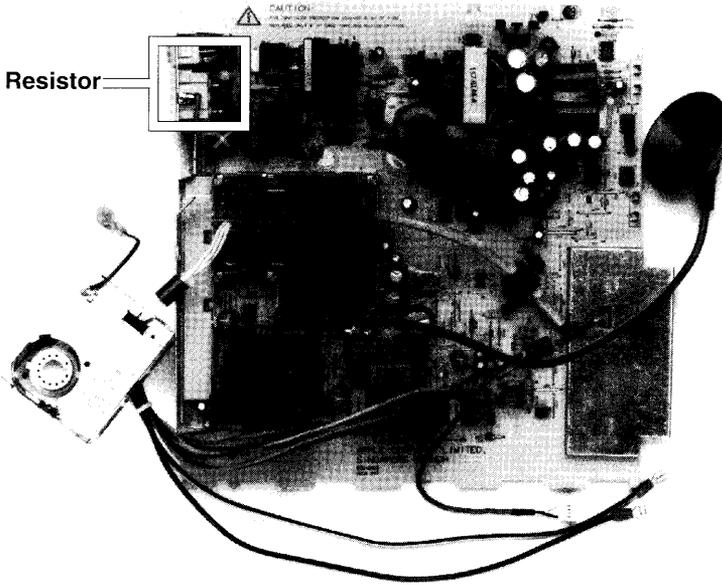
Tuner  
PCB  
Slot

**NOTE:** Return the Macintosh TV logic board without DRAM or VRAM SIMMs.  
Remove the tuner printed circuit board before returning the logic board.

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# Macintosh TV Analog Board

Apple P/N 661-0872

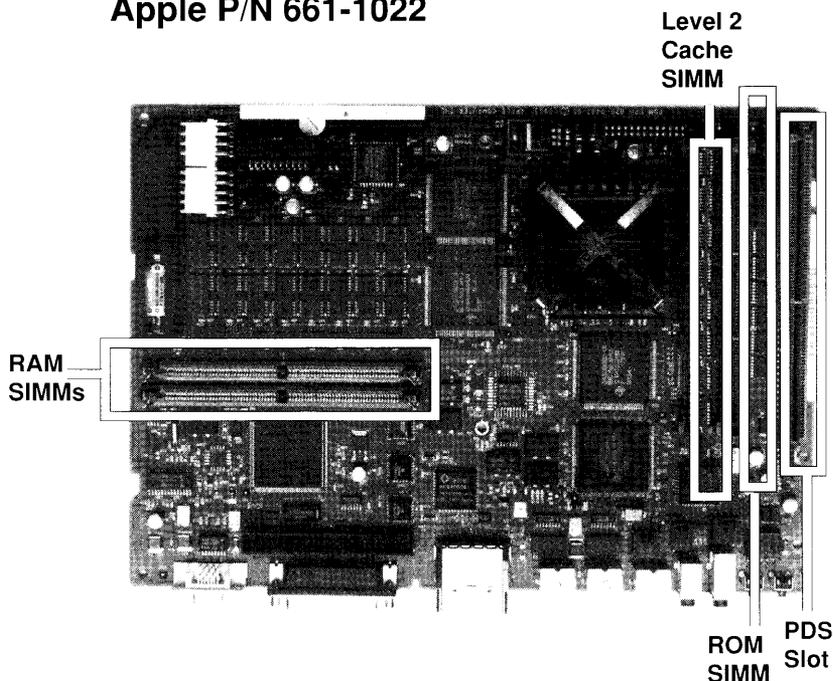


**NOTE:** The Macintosh LC 520 and the Macintosh TV analog boards look similar. The Macintosh TV analog board has a resistor soldered on the backside of the AC connector. The Macintosh LC 520 does not.

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Power Macintosh 6100/60,  
Workgroup Server 6150  
**Logic Board**

**Apple P/N 661-1022**



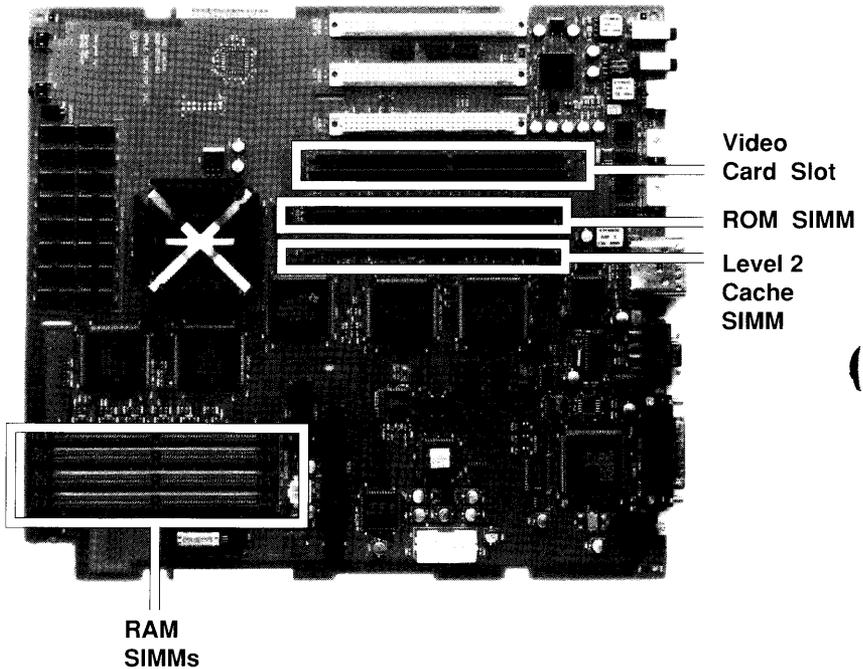
**NOTE:** Return the logic board without RAM SIMMS or a 256K Level 2 cache SIMM.

**IMPORTANT:** This logic board has 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. The ROM SIMM may be located in the Level 2 cache connector. If both SIMMs sockets are occupied make sure to remove the 256K Level 2 cache SIMM.

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Power Macintosh 7100/66  
**Logic Board**

**Apple P/N 661-0897**



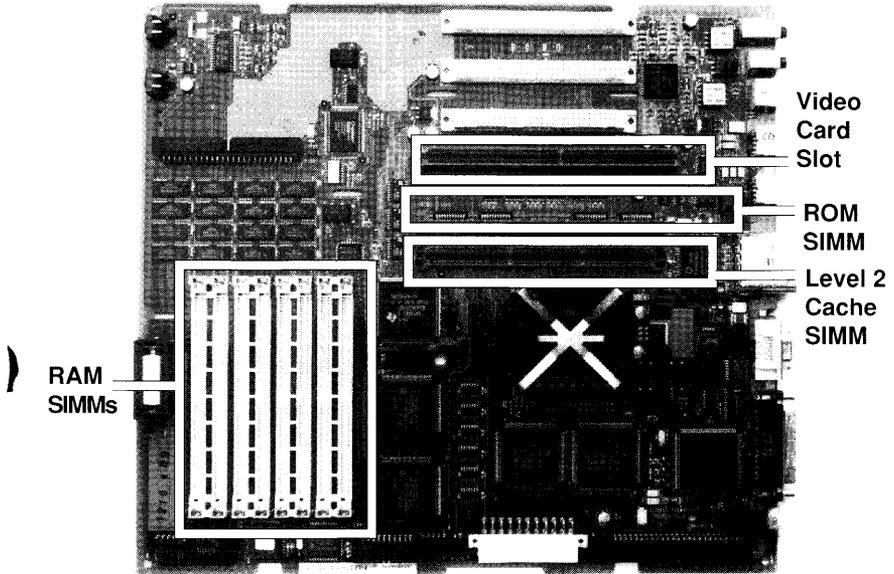
**NOTE:** Return the logic board without the following: 256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

**IMPORTANT:** The Power Macintosh 7100/66 logic board has 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.

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Power Macintosh 8100/80,  
Workgroup Server 8150  
**Logic Board**

**Apple P/N 661-1026**



**NOTE:** Return the logic board without the following: 256K Level 2 cache SIMM, RAM SIMMs, and the PDS terminator board in the video card slot.

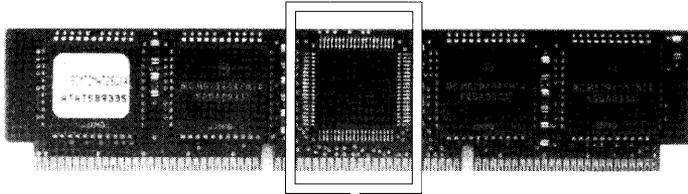
**IMPORTANT:** This logic board has a ROM SIMM rather than ROMs soldered directly to the logic board. Return the defective board with the ROM SIMM in place. DO NOT REMOVE the ROM SIMM from the logic board.

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Power Macintosh  
256K, SIMM, Cache

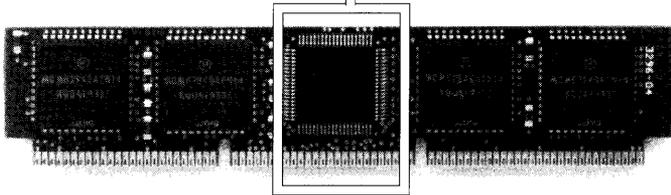
Apple P/N 661-1024

Top



This chip is not on the 512K cache SIMM.

Bottom



**NOTE:** The Power Macintosh 256K and 512K SIMM are similar. The 256K cache SIMM has five chips on each side that are approximately the same size. The 512K cache SIMM has four main chips on each side.

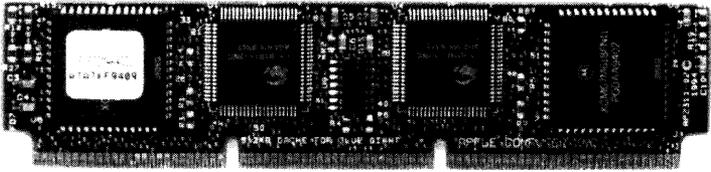
For additional SIMM information, refer to the Memory manual in *Service Source*.

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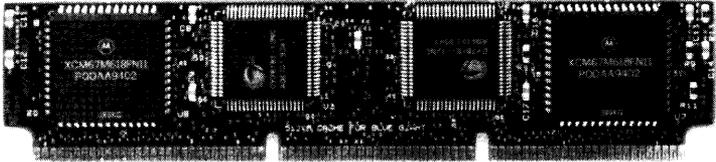
Power Macintosh  
512K, SIMM, Cache

Apple P/N 661-0131

Top



Bottom



**NOTE:** The Power Macintosh 512K and 256K cache SIMMs are similar. The 256K cache has five chips on each side. The 512K cache SIMM has four main chips on each side.

For additional SIMM information, refer to the Memory manual in *Service Source*.

1

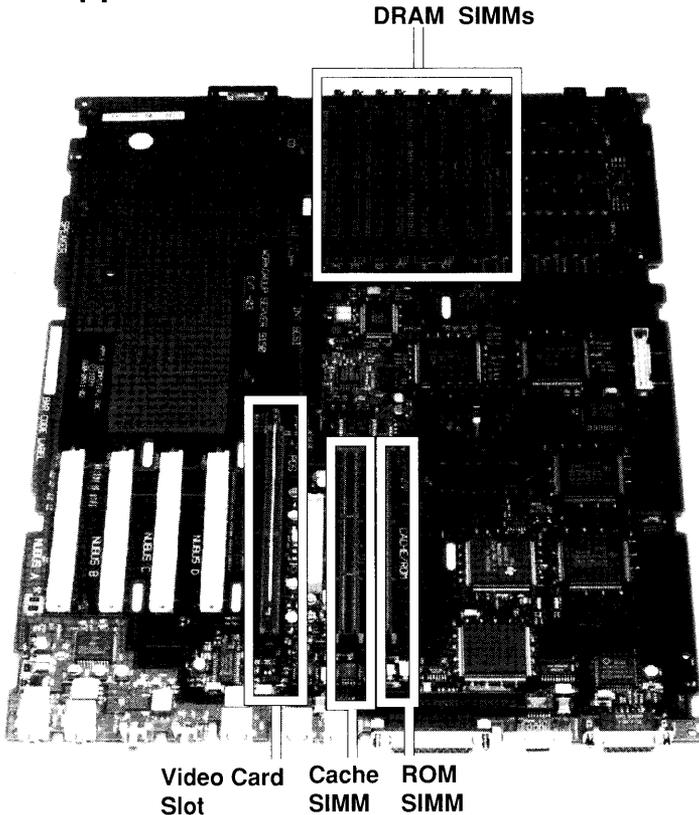
2

3

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## Workgroup Server 9150 Logic Board

Apple P/N 661-0132



**NOTE:** 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:

- RAM SIMMs
- Cache SIMM

**IMPORTANT:** The Workgroup Server 9150 logic board has 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.

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# Keyboards



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**Macintosh Plus  
Keyboard with Cable**

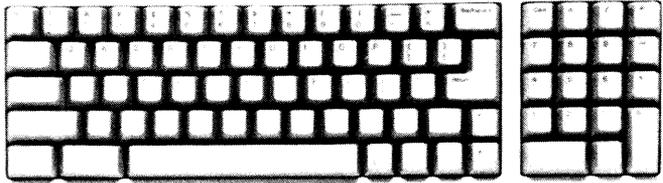
**Apple P/N 661-0322 (Beige)**

**Apple P/N 661-0322 B/C/D/F/E/J/S/T**

(When you return P/N 661-0322, Apple ships you P/N 661-0416.)

**Apple P/N 661-0416 (Platinum)**

**Apple P/N 661-0416 B/C/D/F/E/S/T/C**



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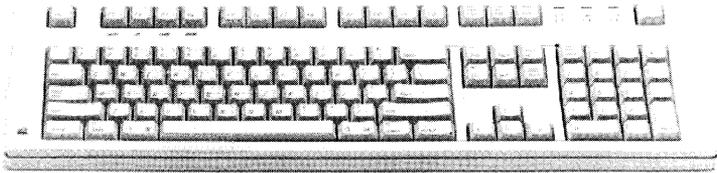
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Apple  
**Extended Keyboard**

**Apple P/N 661-0384**

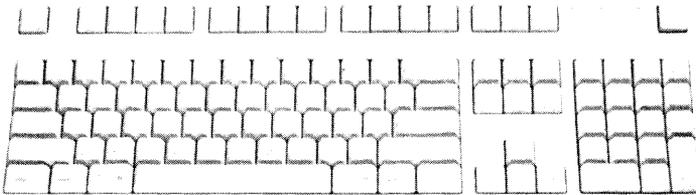
**Apple P/N 661-0384 B/D/F/E/S/T**



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Apple  
**Extended Keyboard II**

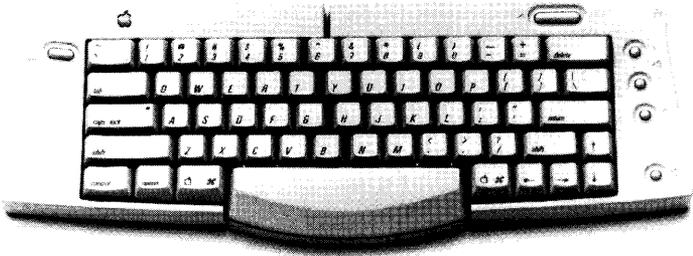
**Apple P/N 661-0543**  
**Apple P/N 661-0544 D/F/E/T/C**



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Apple  
**Adjustable Keyboard**

**Apple P/N 661-0731**



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Apple  
**Keyboard**

**Apple P/N 661-0383**

**Apple P/N 661-0383 B/D/E/F/S/T**

(When you return P/N 661-0383, Apple ships you P/N 661-0603.)

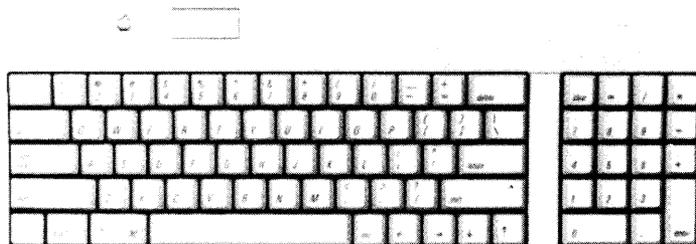


**NOTE:** Remove the cable before returning the keyboard to Apple.

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Apple  
**Keyboard II**

**Apple P/N 661-0603**

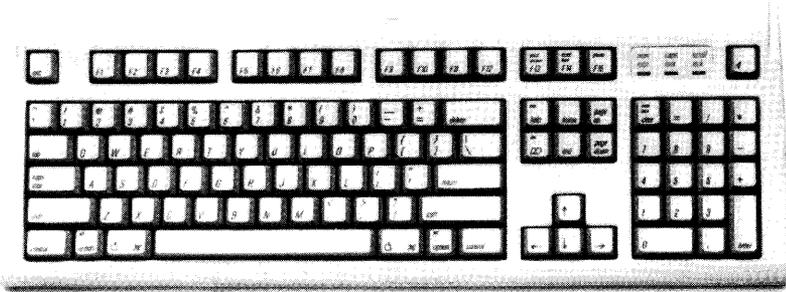
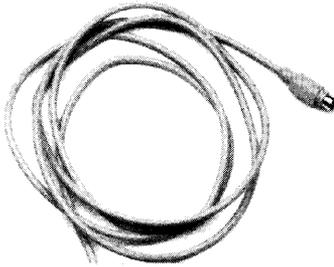


**NOTE:** Remove the cable before returning the keyboard to Apple.

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Apple  
**AppleDesigned Keyboard (with cable attached)**

**Apple P/N 661-0310**  
**Apple P/N 661-0310 B/D/F/E/S/T**



**NOTE:** Return the AppleDesigned keyboard WITH the cable attached.

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## Macintosh Portable Keyboard

**Apple P/N 661-0476**

**Apple P/N 661-0476 B/C/D/E/F/S/T**

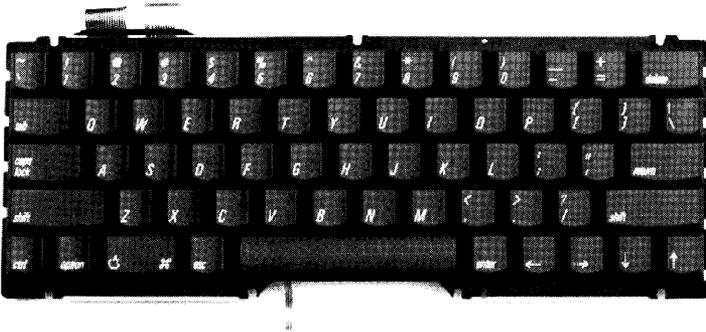


**NOTE:** The Macintosh Portable keyboard comes in two versions: the original keyboard (661-0476) has a steel mounting plate with a silver finish. The new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswtches are different and have a different feel. When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.

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## Macintosh Portable Lightweight Keyboard

Apple P/N 661-1612

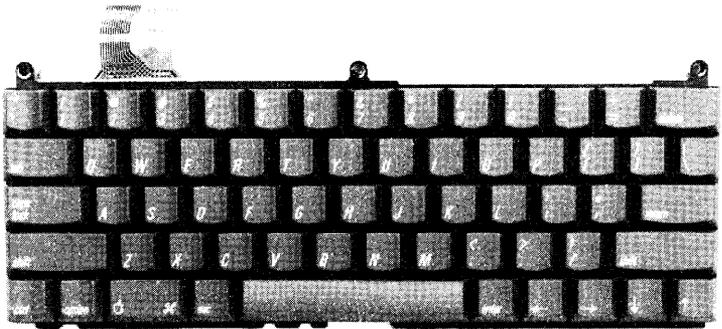


**NOTE:** The Macintosh Portable keyboard comes in two versions: the original keyboard (661-0476) has a steel mounting plate with a silver finish. The new keyboard (661-1612) has an aluminum mounting plate with a black finish. Also, the keyswitches are different and have a different feel. When replacing a keyboard, order the replacement module with the same mounting plate as the defective keyboard.

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PowerBook 100  
**Keyboard**

**Apple P/N 661-0713**  
**Apple P/N 661-0713 C/E/J/Z**

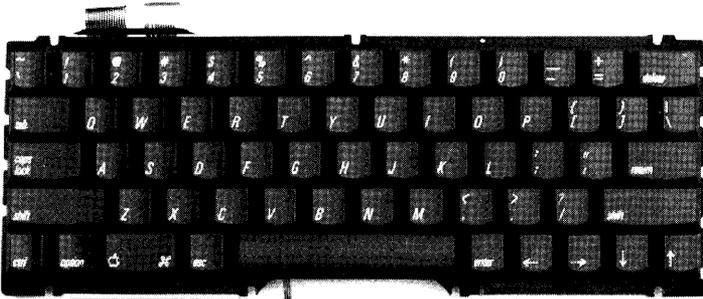


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**PowerBook 140/145/160/165/165c/170/180  
Keyboard**

**Apple P/N 661-0712**

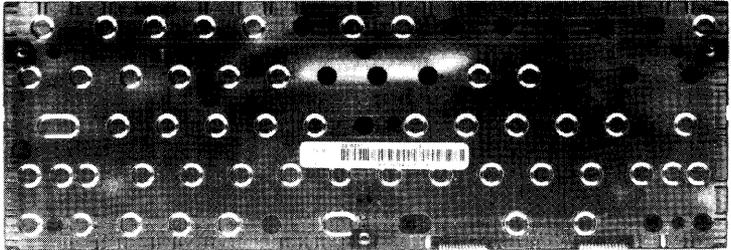
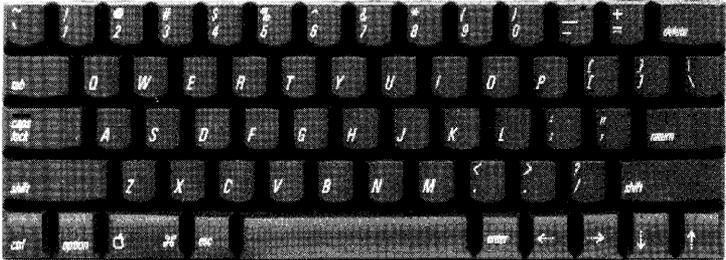
**Apple P/N 661-0712 B/C/D/E/F/S/T**



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PowerBook Duo 210/230/250/270c  
Keyboard, US, Rev. C

Apple P/N 661-1652

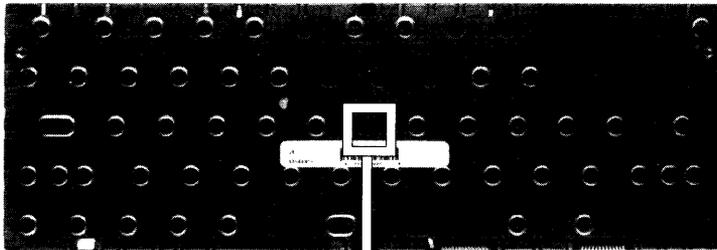


**NOTE:** The PowerBook Duo US keyboard, Rev. C (661-1652) and the PowerBook Duo US keyboard, Rev. D (661-1608) are similar. The Rev. D keyboard has a support pin in the center of the back of the keyboard; P/N 661-1652 does not have a pin.

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PowerBook Duo 280/280c  
Keyboard, US, Rev. D

Apple P/N 661-1608



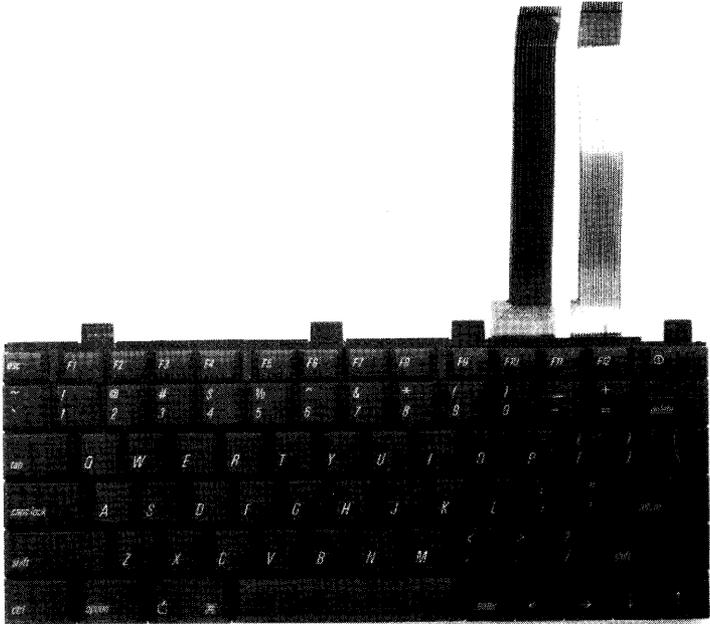
support pin

**NOTE:** The PowerBook Duo US keyboard (661-1652) and the PowerBook Duo US Rev. D keyboard (661-1608) are similar. The Rev. D keyboard has a support pin in the center of the back of the keyboard; P/N 661-1652 does not have a pin.

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PowerBook 520/540 Series  
**Keyboard, US**

**Apple P/N 661-0037**



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**Macintosh TV  
Keyboard II**

**Apple P/N 661-1722**



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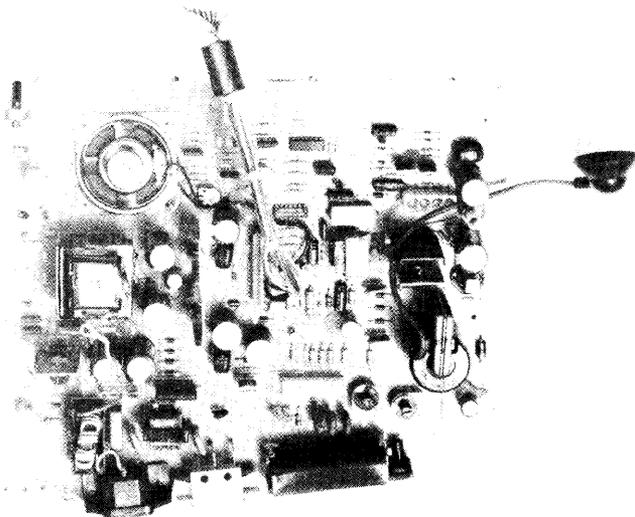
# Power Supplies



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Macintosh  
**Power Supply (110 V)**

**Apple P/N 661-0461 (Beige Switch)**  
**Apple P/N 661-0462 (Platinum Switch)**



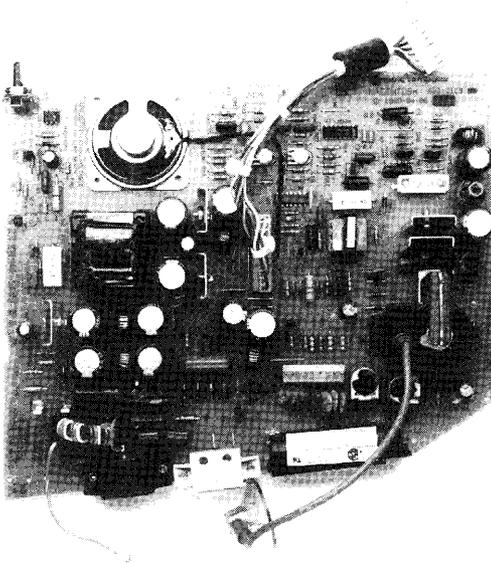
**NOTE:** Return the power-supply-to-logic-board cable to Apple with defective board. Keep the brightness knob and battery with the customer's replacement board.

The previous service module P/N 661-76153 contained a beige or a platinum switch. P/Ns 661-0461 and 661-04 62, which specify switch color, replace P/N 661-76153.

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Macintosh  
**Power Sweep Board (220 V)**

**Apple P/N 661-76214**

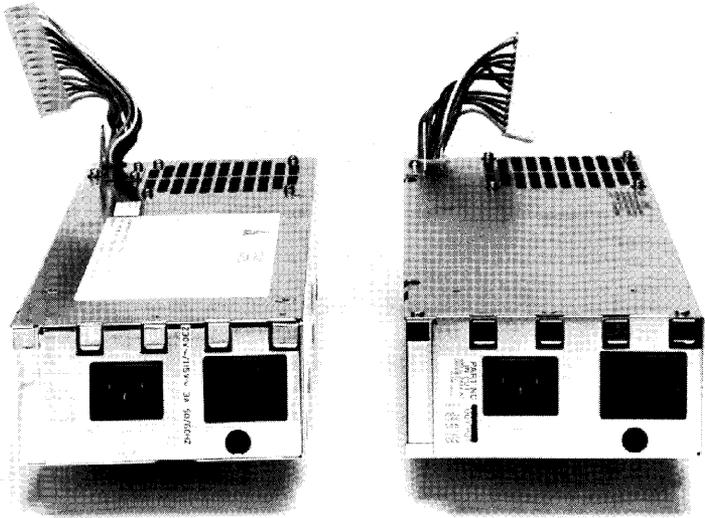


**NOTE:** Return the power-supply-to-logic-board cable to Apple with the defective board. Keep the brightness knob and battery with the customer's replacement board.

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## Macintosh II/IIx Power Supply

Apple P/N 661-0375  
Apple P/N 661-0542



**NOTE:** 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

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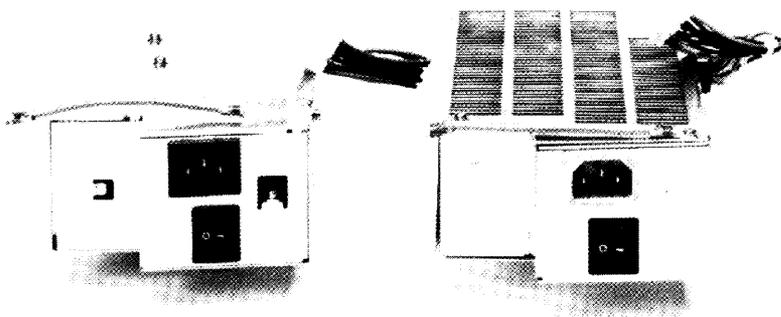
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**Macintosh SE and SE/30  
Power Supply**

**Apple P/N 661-0370**



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

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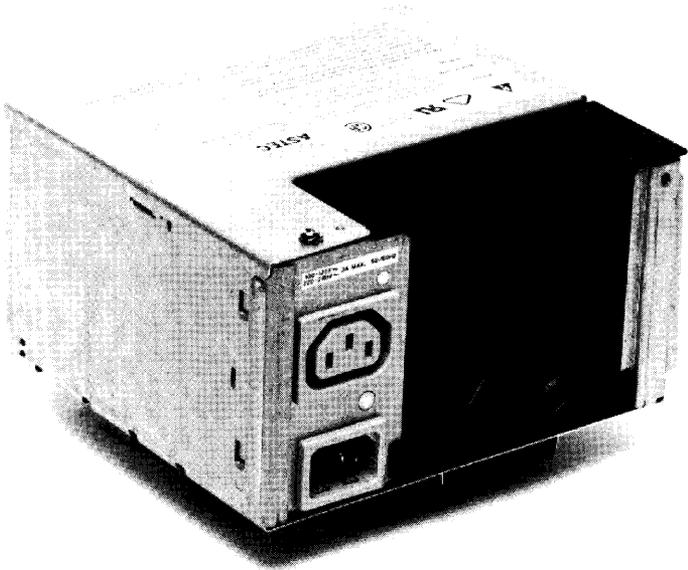
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**Macintosh Ilcx/Ilci  
Power Supply**

**Apple P/N 661-0467**



**NOTE:** Return power supply module with the fan installed.

The Macintosh Ilcx/Ilci power supply has assembly part numbers 699-0392 or 614-0004 on the module label.

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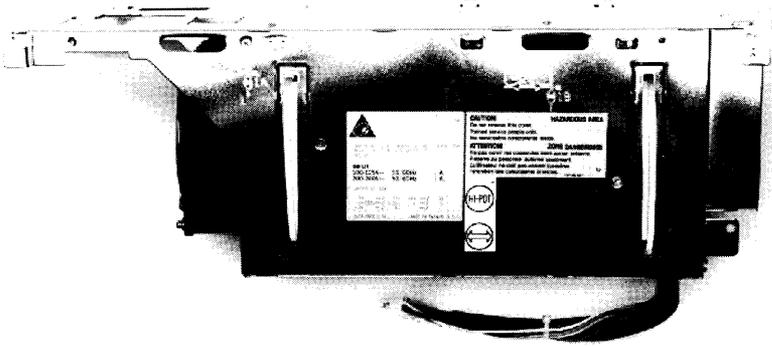
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# Macintosh Quadra 900/950 Power Supply

**Apple P/N 661-0664**



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

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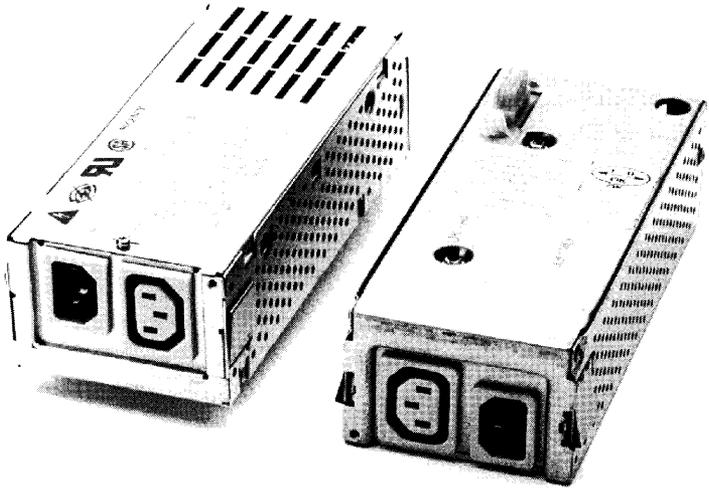
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**Macintosh IIsi  
Power Supply**

**Apple P/N 661-1616**



**NOTE:** The Macintosh IIsi power supply has the assembly part number 699-0567 on the module label.

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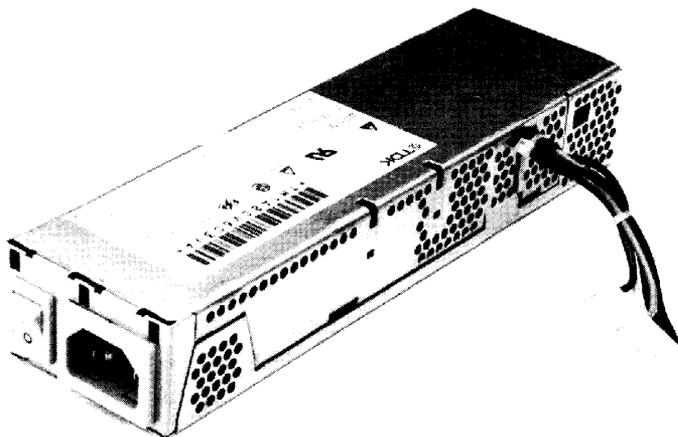
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Macintosh LC/LC II  
**Power Supply**

**Apple P/N 661-0594**

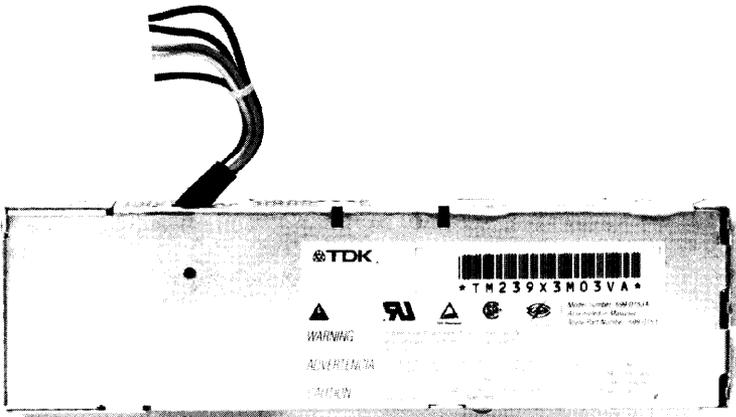


**NOTE:** The Macintosh LC/LC II power supply has the assembly part number 699-0153 on the module label.

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# Macintosh LC III, Performa 400 Series Power Supply

Apple P/N 661-0787

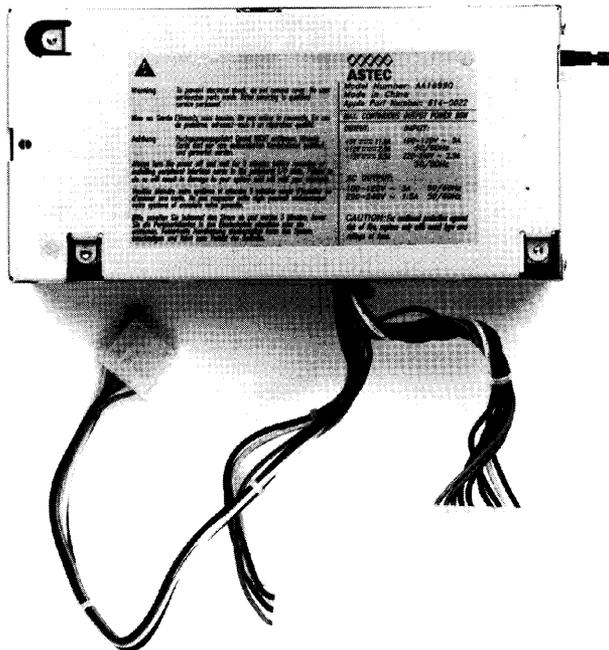


**NOTE:** This power supply has the assembly part number 614-0003 on the module label.

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Macintosh  
Power Supply, 86 Watt

Apple P/N 661-1688

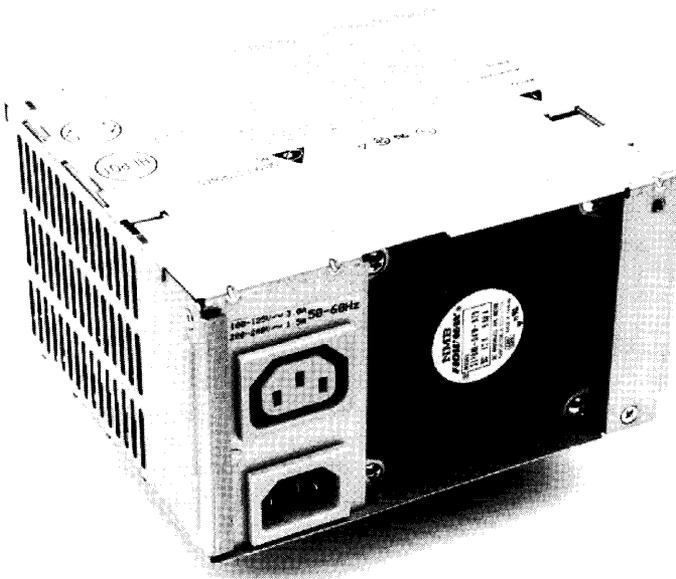


**NOTE:** The Macintosh 86 watt power supply has the assembly part number 614-0022 on the module label.

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Macintosh  
**Power Supply, 112 Watt**

**Apple P/N 661-0758**

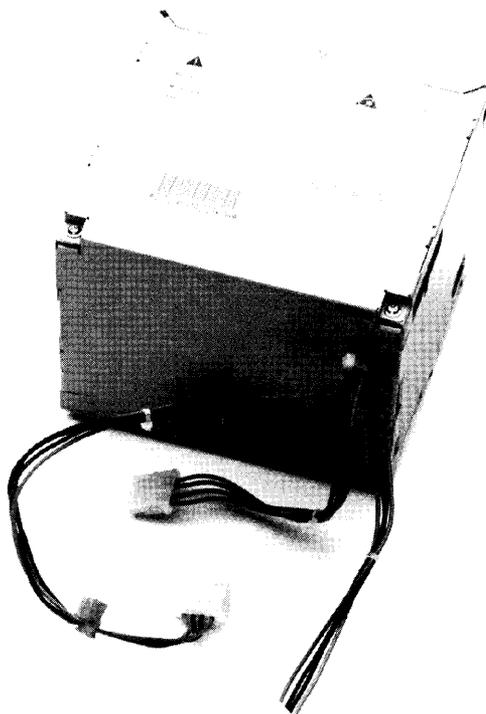


**NOTE:** The Macintosh 112 watt power supply has the assembly part number 614-0009 on the module label.

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Macintosh  
**Power Supply, 200 Watt**

**Apple P/N 661-1687**



**NOTE:** The Macintosh 200 watt power supply has the assembly part number 614-0012 on the module label.

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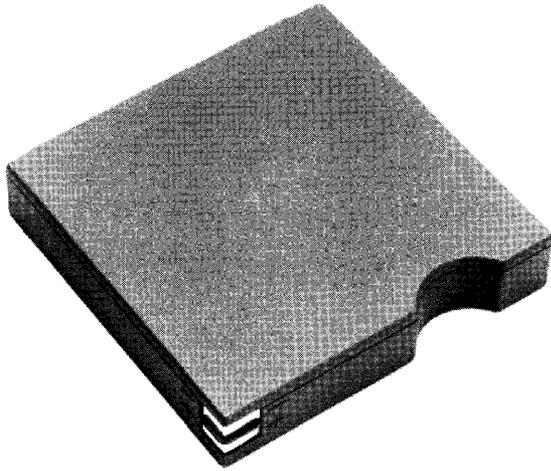
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PowerBook 140/170  
**Battery Assembly**

**Apple P/N 661-0721**

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

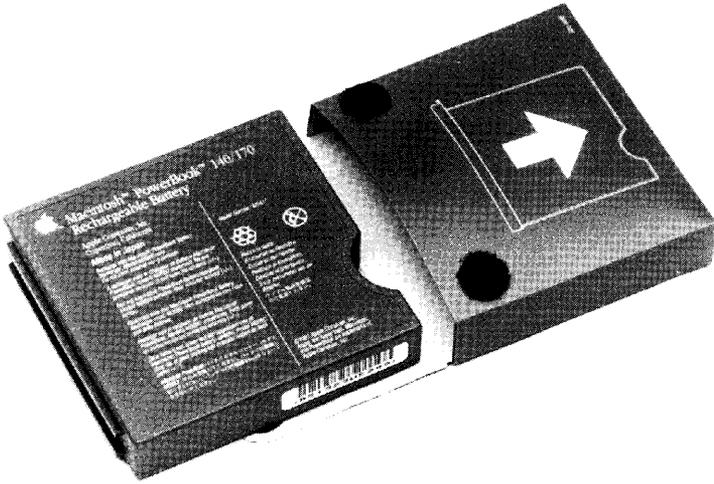


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## PowerBook 140/145/170 Battery Assembly, 2.5 Amp

### Apple P/N 661-0754

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



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

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

**Apple P/N 661-0789**



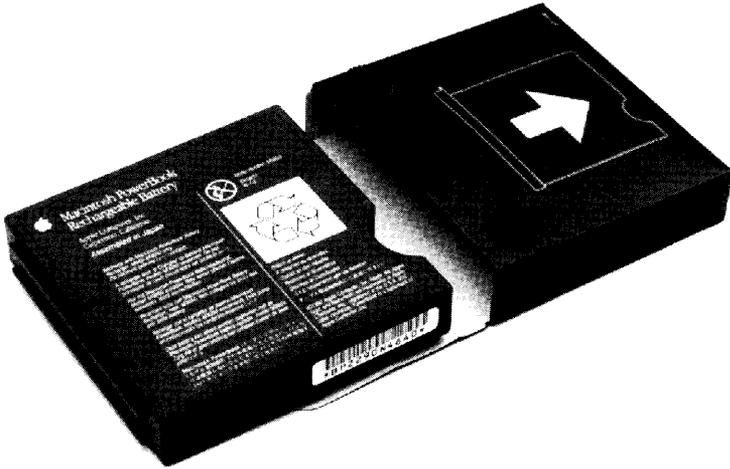
**NOTE:** Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.

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PowerBook 140/145/145B/160/165/165c/170/  
180/180c

**Battery Assembly, 2.9 Amp**

**Apple P/N 661-0013**

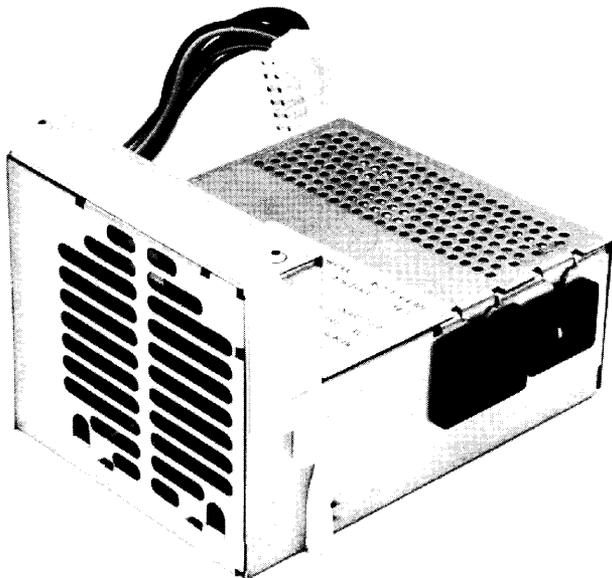


**NOTE:** Apple ships the battery in a protective case; you can return the battery to Apple without its protective case.

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**Macintosh Duo Dock  
Power Supply**

**Apple P/N 661-1660**



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



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

Apple P/N 661-1735



**NOTE:** 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.

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PowerBook 520/540 Series  
**Battery**

**Apple P/N 661-0055**



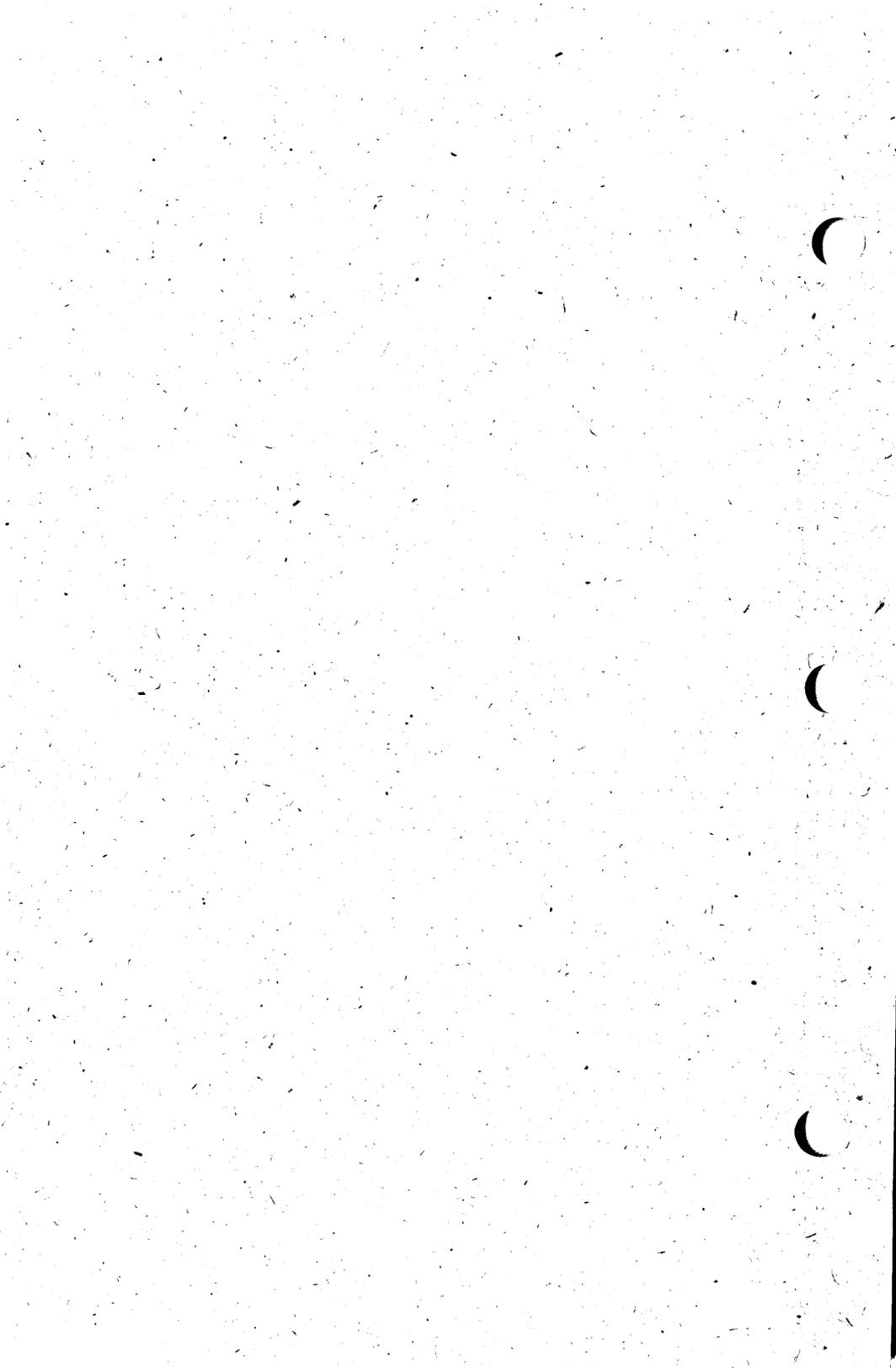
**NOTE:** Return the battery WITH the contact cover in place and covering the battery contacts.

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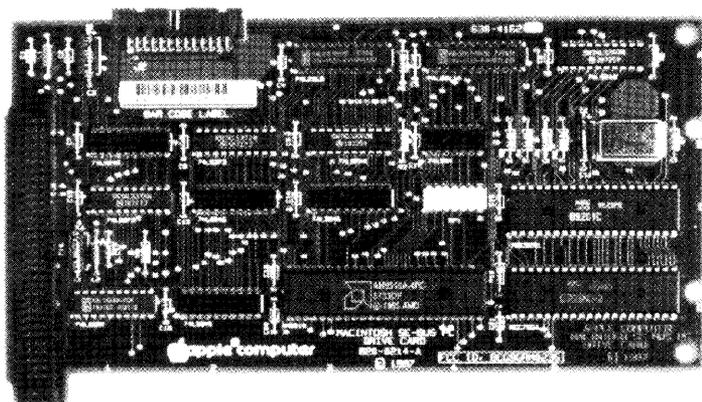
# Interface Cards



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Macintosh SE  
Mac SE-Bus PC Drive Card

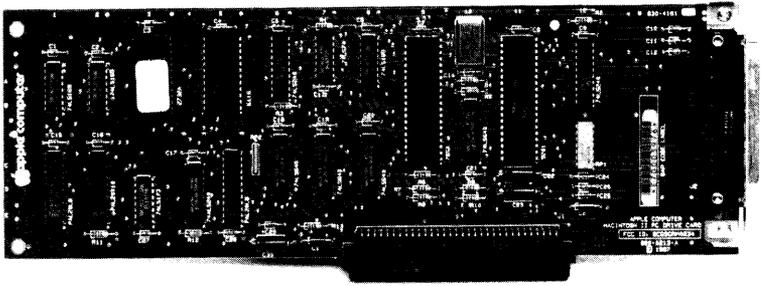
Apple P/N 661-0406



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Macintosh II  
Mac II PC Drive Card

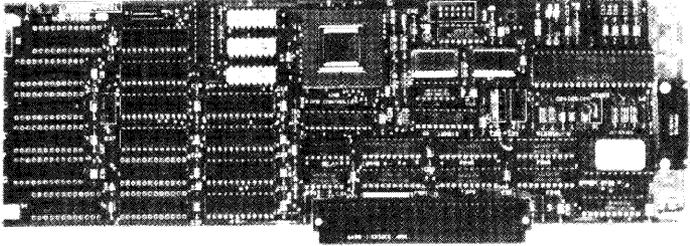
Apple P/N 661-0407



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Macintosh II  
**Video Card (4-Bit Soldered Version)**

**Apple P/N 661-0376**

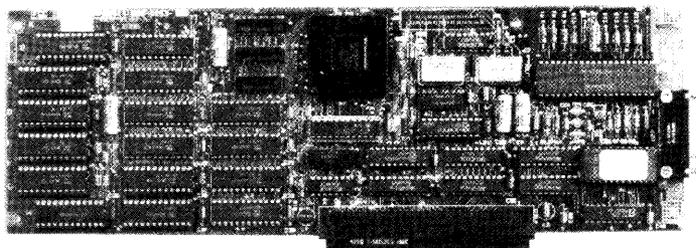


**NOTE:** Remove the eight video expansion RAM chips before you return the video card to Apple.

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Macintosh II  
**Video Card (8-Bit Soldered Version)**

**Apple P/N 661-0492**

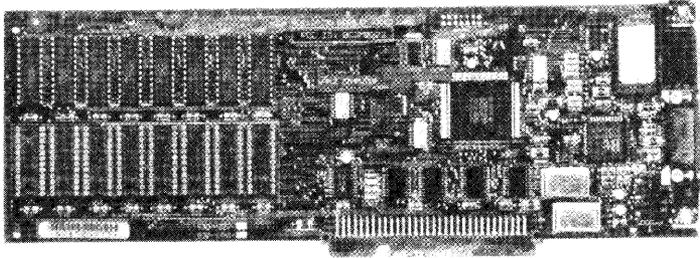


**NOTE:** This card has eight video expansion RAM chips soldered to the board. Do not attempt to remove them before returning the video card to Apple.

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Macintosh II  
**High-Resolution Display Video Card  
(4-Bit Soldered Version)**

**Apple P/N 661-0493**

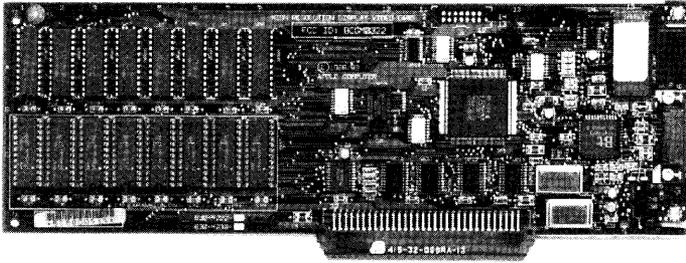


**NOTE:** Remove the eight video expansion RAM chips before returning the video card to Apple.

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Macintosh II  
**Extended High-Resolution Display Video Card  
(8-Bit Soldered Version)**

**Apple P/N 661-0533**

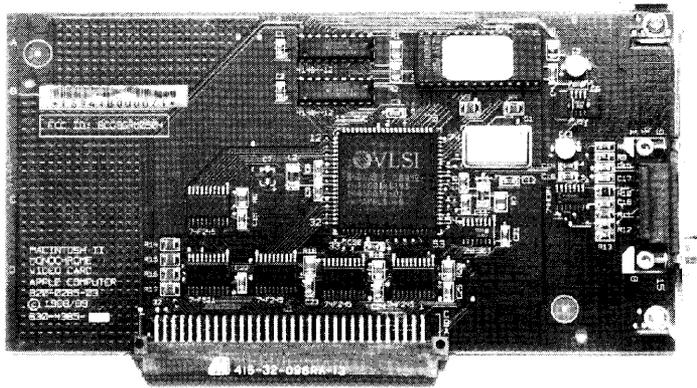


**NOTE:** This card has eight video expansion RAM chips soldered to the board. Do not attempt to remove them before returning the video card to Apple.

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**Macintosh II  
Monochrome Video Card (1-Bit)**

**Apple P/N 661-0518**

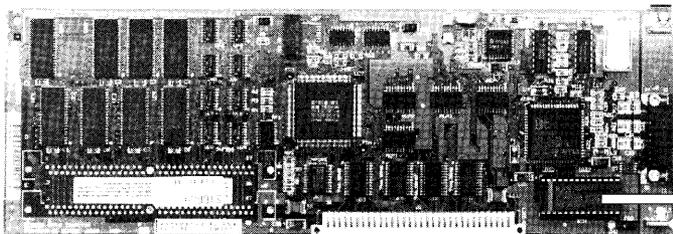


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## Macintosh II Display Card 8•24

### Apple P/N 661-0608

(When you return P/N 661-0608, Apple ships you P/N 661-0678.)



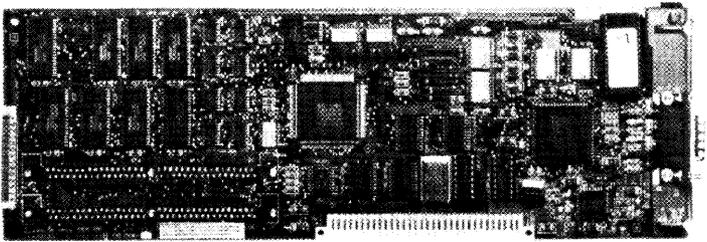
See Note

**NOTE:** 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 via 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.

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**Macintosh II  
Display Card 8•24**

**Apple P/N 661-0678**

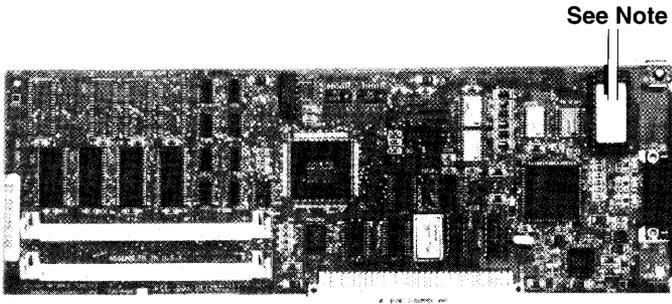


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## Macintosh II Display Card 4•8

### Apple P/N 661-0607

(When you return P/N 661-0607, Apple ships you P/N 661-0677.)



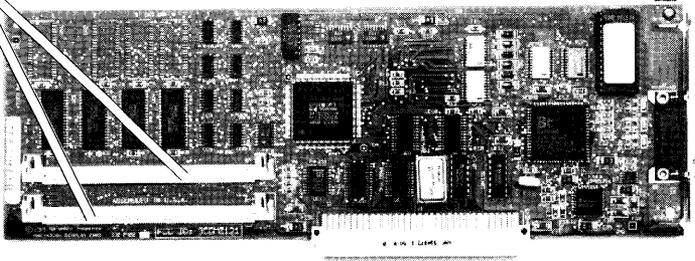
**NOTE:** You can distinguish P/N 661-0607 from P/N 661-0677 by the ROM part number (661-0677 has ROM P/N 341-0868). You can upgrade P/N 661-0607 to 661-0677 via a ROM upgrade. See the CPU price pages under P/N 076-0548 (Display Card 661-0607/661-0608 ROM upgrade). The ROM (P/N 341-0868) provides page-white color correction for the Macintosh 21-Inch Color Display.

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Macintosh II  
**Display Card 4•8**

**Apple P/N 661-0677**

See Note



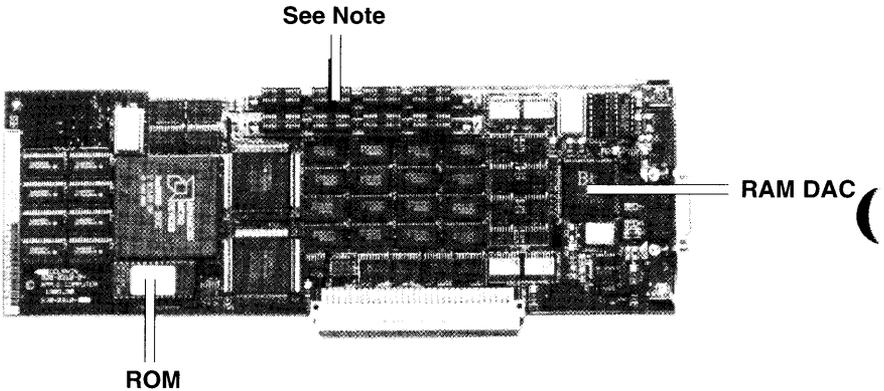
**NOTE:** You can upgrade P/N 661-0677 to P/N 661-0678 (Display Card 8•24) by installing two VRAM SIMMs P/N 661-0609 (VRAM SIMM, 256K, 100 ns).

Remove the VRAM SIMMs before you return the display card to Apple.

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Macintosh II  
**Display Card 8•24GC**

**Apple P/N 661-0606**  
**Apple P/N 661-1642**



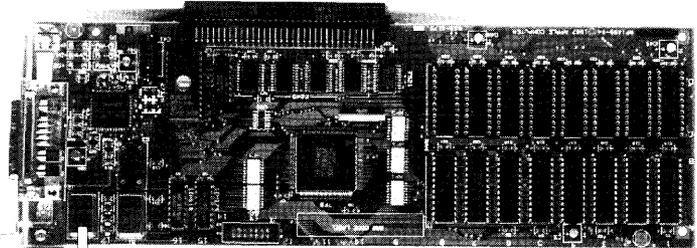
**NOTE:** Remove the two 1 MB video expansion SIMMs before you return the display card to Apple.

P/N 661-0606 has ROM P/N 341-0812 and RAM DAC P/N 357S0010. P/N 661-1642 has ROM P/N 341-0266 and RAM DAC P/N 343S1075. You can upgrade P/N 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).

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Macintosh II  
**Two-Page Monochrome Video Card**

**Apple P/N 661-0456**



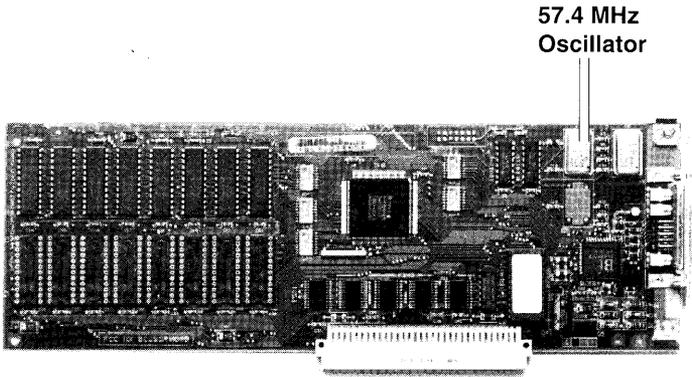
**100 MHz  
Oscillator**

**NOTE:** Remove the eight video expansion RAM chips before you return the video card to Apple.

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Macintosh II  
**Portrait Display Video Card**

**Apple P/N 661-0604**

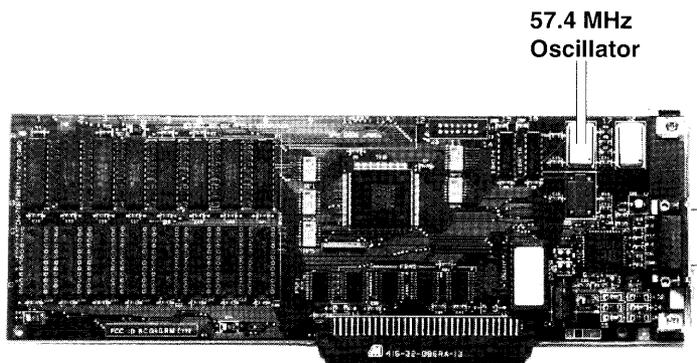


**NOTE:** Remove the eight video expansion RAM chips before returning the video card to Apple. P/N 661-0604 is a DB-25 (13-pin mixed connector) card.

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Macintosh II  
**Portrait Display Video Card**

**Apple P/N 661-0586 w/o cable**  
**Apple P/N 661-0587 w/ cable**



**NOTE:** P/N 661-0587 includes a DA-15 version of card (P/N 661-0586) and a DA-15-to-DB-25 cable (P/N 590-0615).

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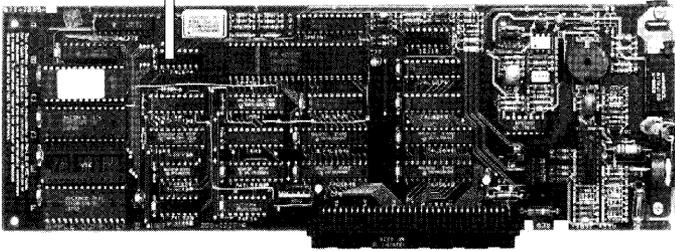
(

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Macintosh II  
**Apple EtherTalk Card (Rev. A-K)**

**Apple P/N 661-0414**

See Note

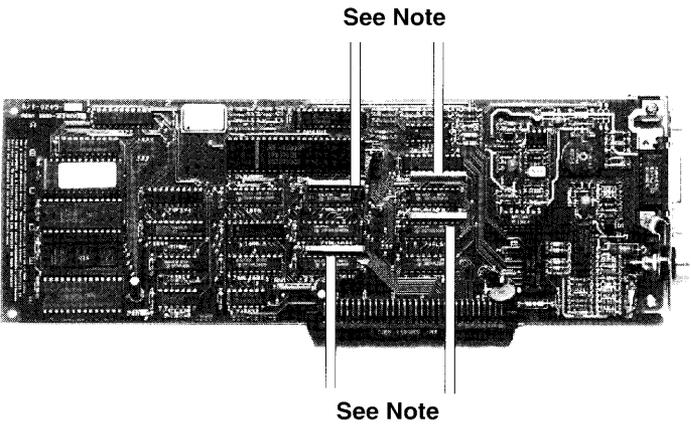


**NOTE:** An integrated circuit will be in this location.

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Macintosh II  
**Apple EtherTalk NB Card**

**Apple P/N 661-0496**

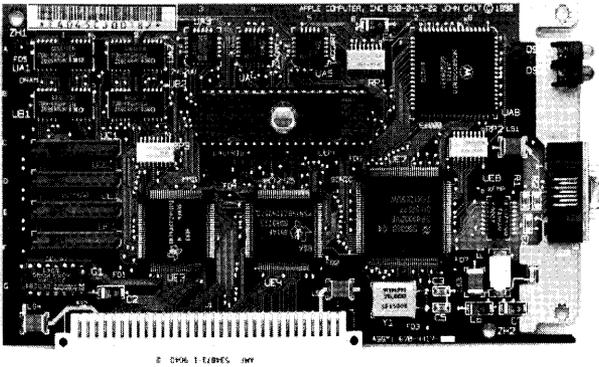


**NOTE:** Resistor packs will be in these locations.

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## Macintosh II Apple Ethernet NB Card

Apple P/N 661-0619

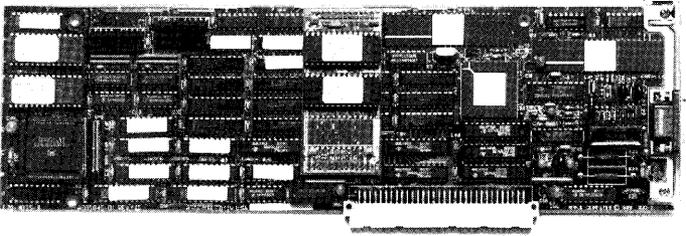


**NOTE:** Remove the RAM chips before you return the Apple Ethernet NB Card to Apple.

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Macintosh II  
**Apple TokenTalk NB Card**

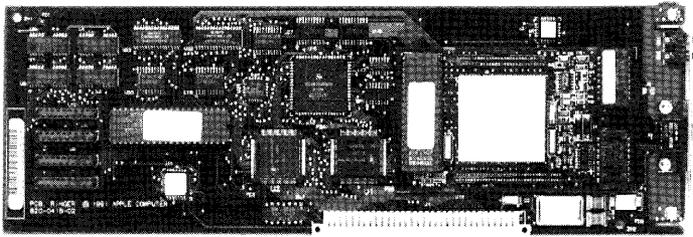
**Apple P/N 661-0460**



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Macintosh II  
Token Ring 4/16 NB Card

Apple P/N 661-1617

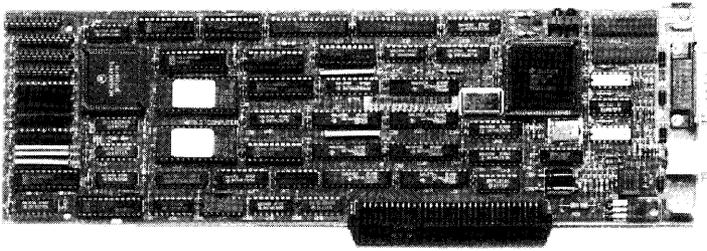


**NOTE:** Remove the RAM chips before you return the Token Ring 4/16 NB Card to Apple.

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Macintosh II  
**Apple Coax/Twinax Card**

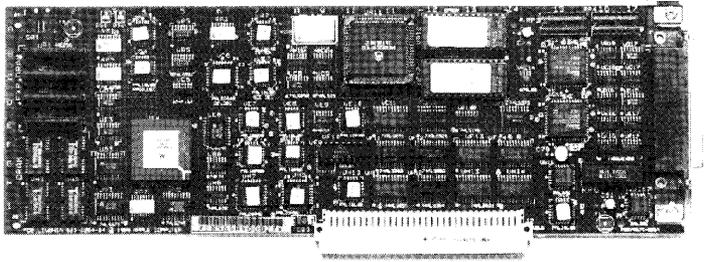
**Apple P/N 661-0458**



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Macintosh II  
**Apple Serial NB Card**

**Apple P/N 661-0517**

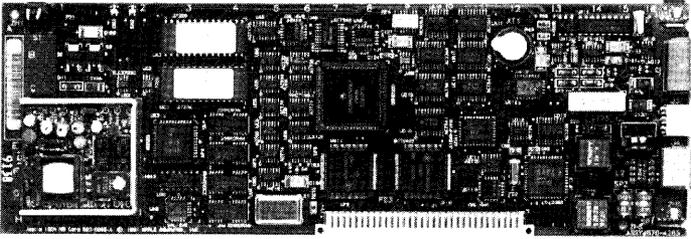


**NOTE:** Remove the RAM chips before you return the Apple Serial NB Card to Apple.

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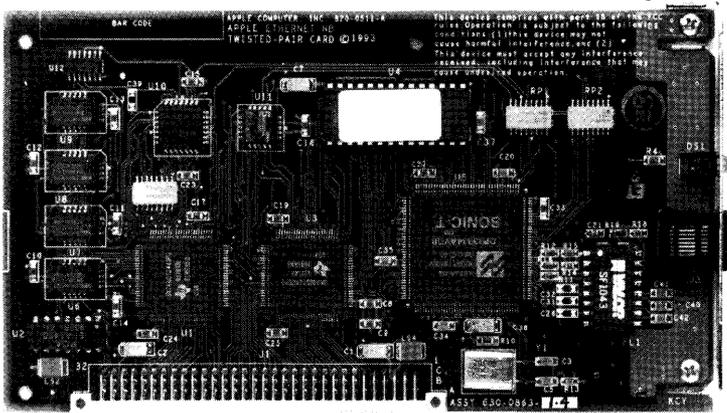
**Macintosh II  
ISDN NB Card**

**Apple P/N 661-0620**



Macintosh II  
Apple Ethernet NB Twisted Pair Card

Apple P/N 661-0869

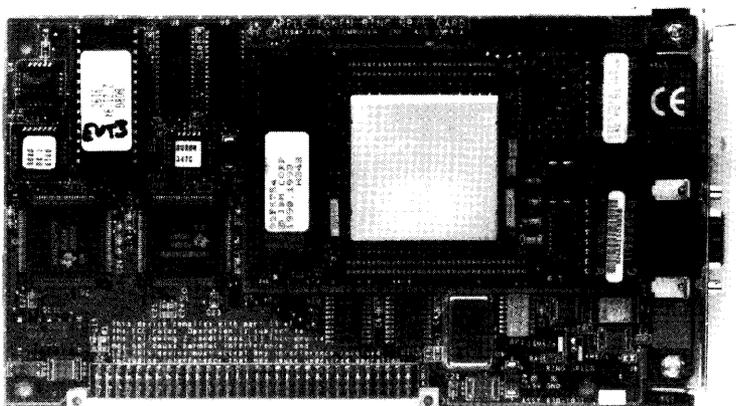


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Macintosh

**Apple Token Ring NB/c Card, 7"**

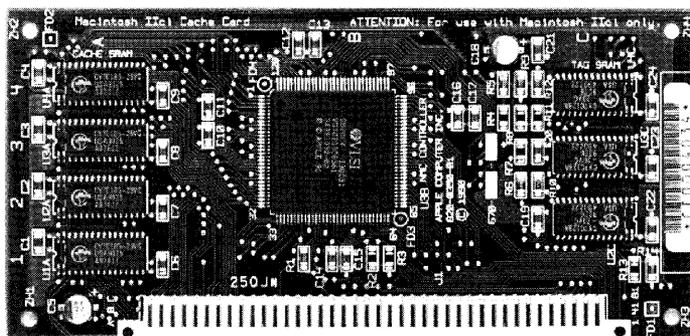
**Apple P/N 661-0136**



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## Macintosh IIci Cache Card

Apple P/N 661-1602



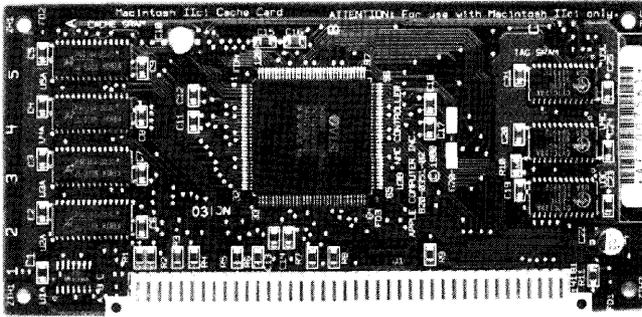
**NOTE:** The Macintosh IIci Cache cards containing serial numbers with a "CF" prefix—that is, CFXXXXXXX—can cause frequent system crashes. Return these cards to Apple. For additional information, see AppleLink under the *AppleLink Programs* icon.

See P/N 661-1619 if the card has a serial number with an "AF" prefix.

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# Macintosh IIci Cache Card, Revised

Apple P/N 661-1619

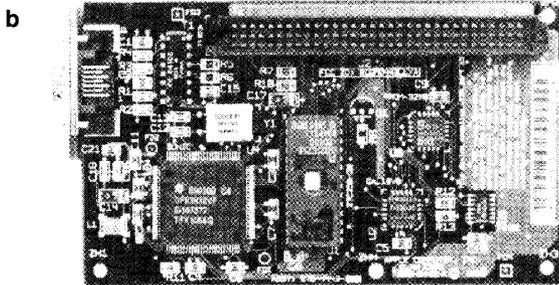
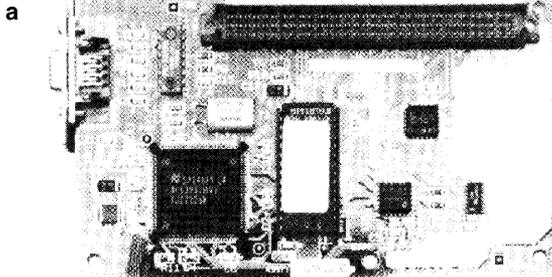


**NOTE:** See P/N 661-1602 if the card has a serial number with a "CF" prefix.

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Macintosh LC/LC II  
Apple Ethernet LC Card

Apple P/N 661-0621



**NOTE:**

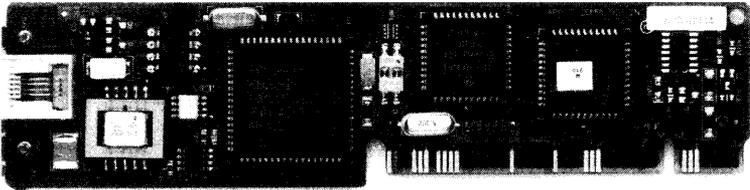
- a) This version of the card uses 341-4070 ROM with the 670-2008 board assembly. This ROM was introduced in March 1992.
- b) The older version of the card uses 341-0842 ROM with the 670-4443 board assembly.



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Macintosh LC 575  
**Express Modem, 14.4 Baud, Comm Slot**

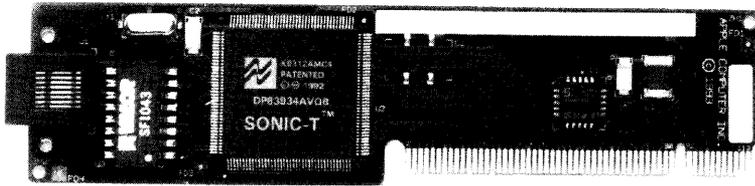
**Apple P/N 661-0887**



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Macintosh LC 575  
**Ethernet Card, 10 Base-T, Comm Slot**

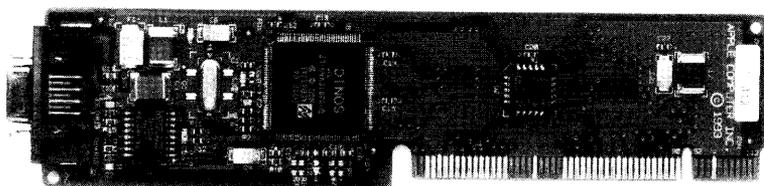
**Apple P/N 661-0888**



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**Macintosh LC 575  
Ethernet Card, AAUI, Comm Slot**

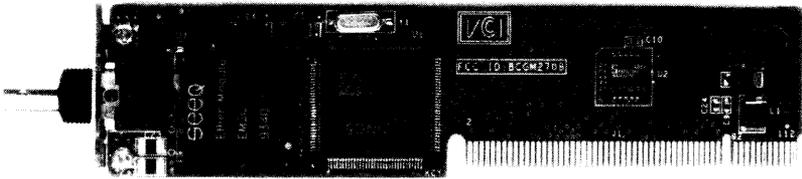
**Apple P/N 661-0889**



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Macintosh LC 575  
**Ethernet Card, Thin-net, Comm Slot**

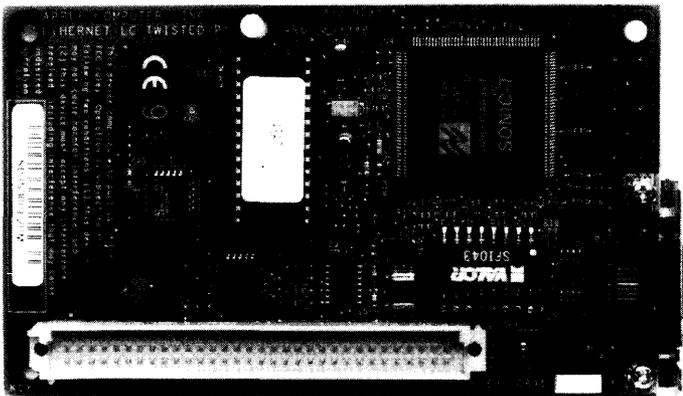
**Apple P/N 661-0036**

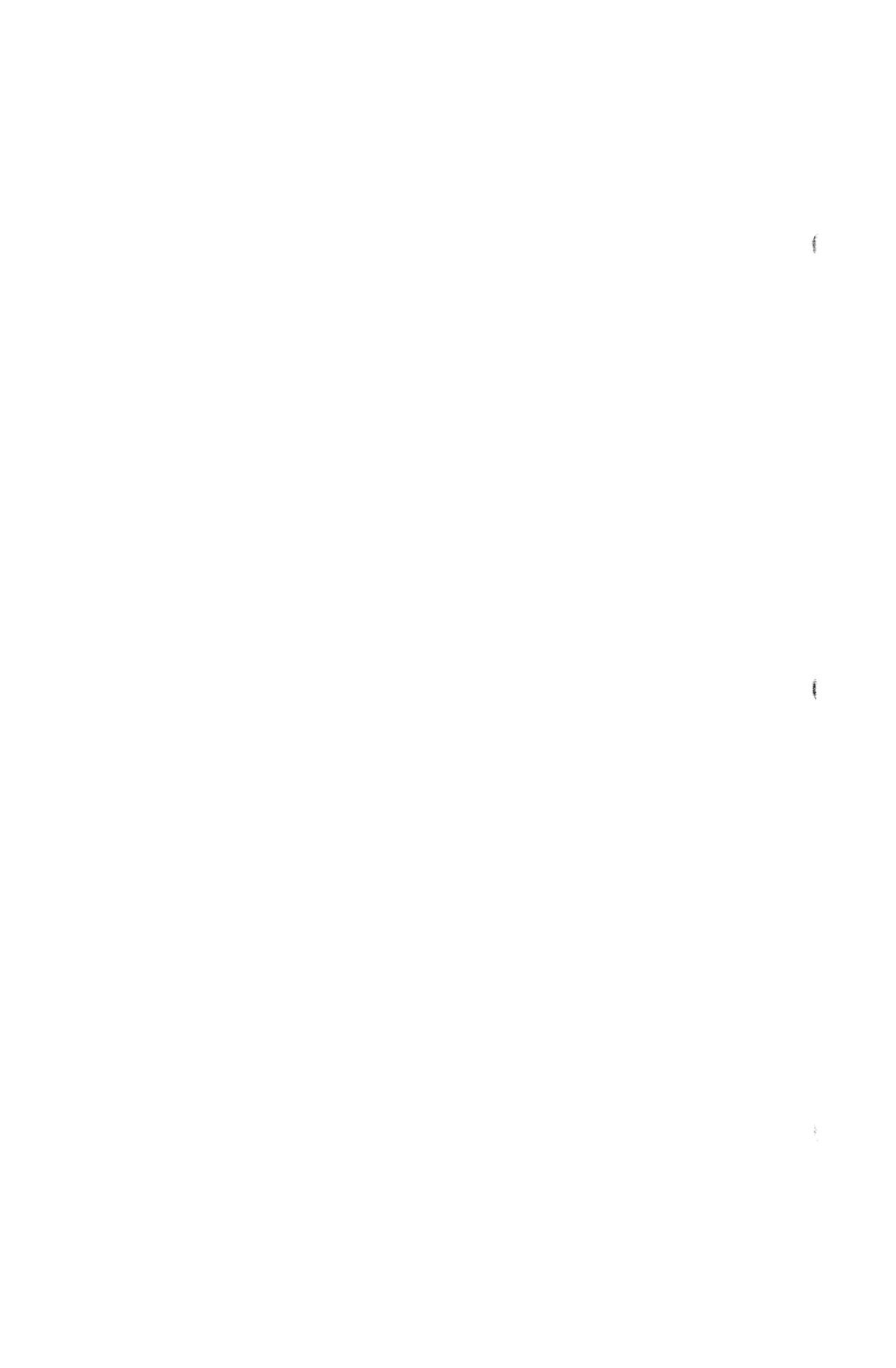


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**Macintosh LC/LCII**  
**Apple Ethernet LC Twisted Pair Card**

**Apple P/N 661-0226**



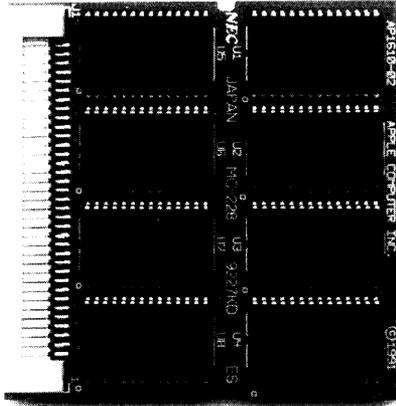


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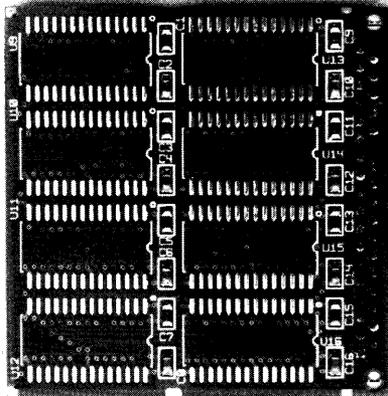
PowerBook Duo 210/230  
4 MB DRAM Card

Apple P/N 661-1659

Front



Back

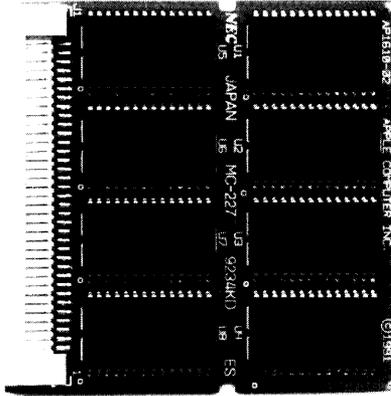


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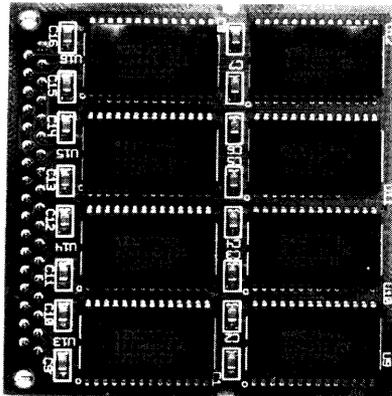
# PowerBook Duo 210/230 8 MB DRAM Card

## Apple P/N 661-1658

Front



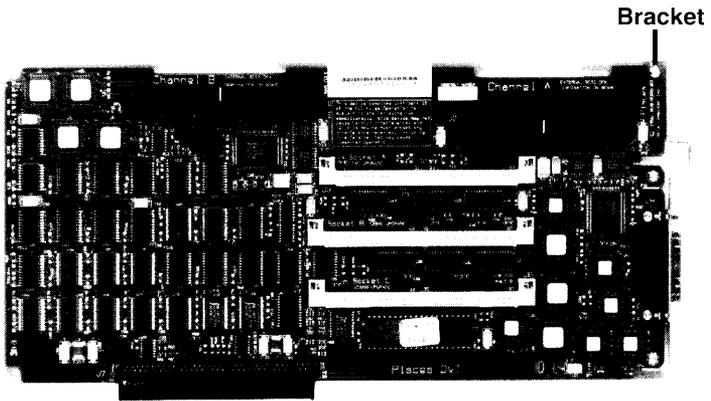
Back



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Apple Workgroup Server 95  
PDS Card

Apple P/N 661-0794

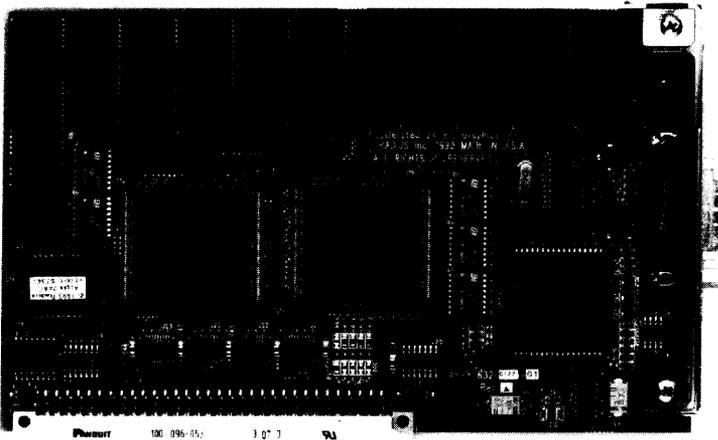


**NOTE:** You can return the Apple Workgroup Server 95 PDS card with or without the bracket.

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# Apple Macintosh Display Card 24AC 24-Bit NuBus Card

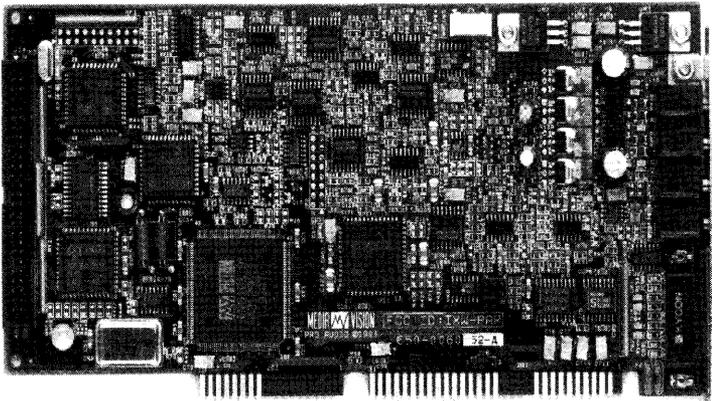
Apple P/N 661-0432



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**CD Multimedia Kit for PCs  
Pro Audio Spectrum 16/SCSI Card**

**Apple P/N 661-1741**



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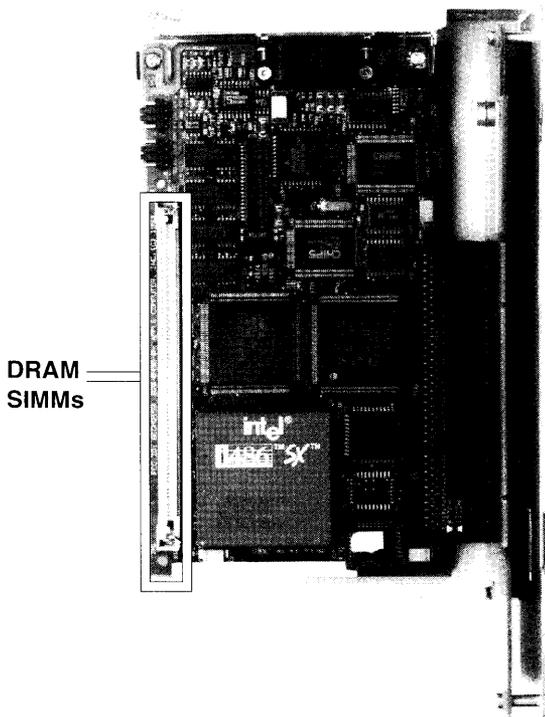
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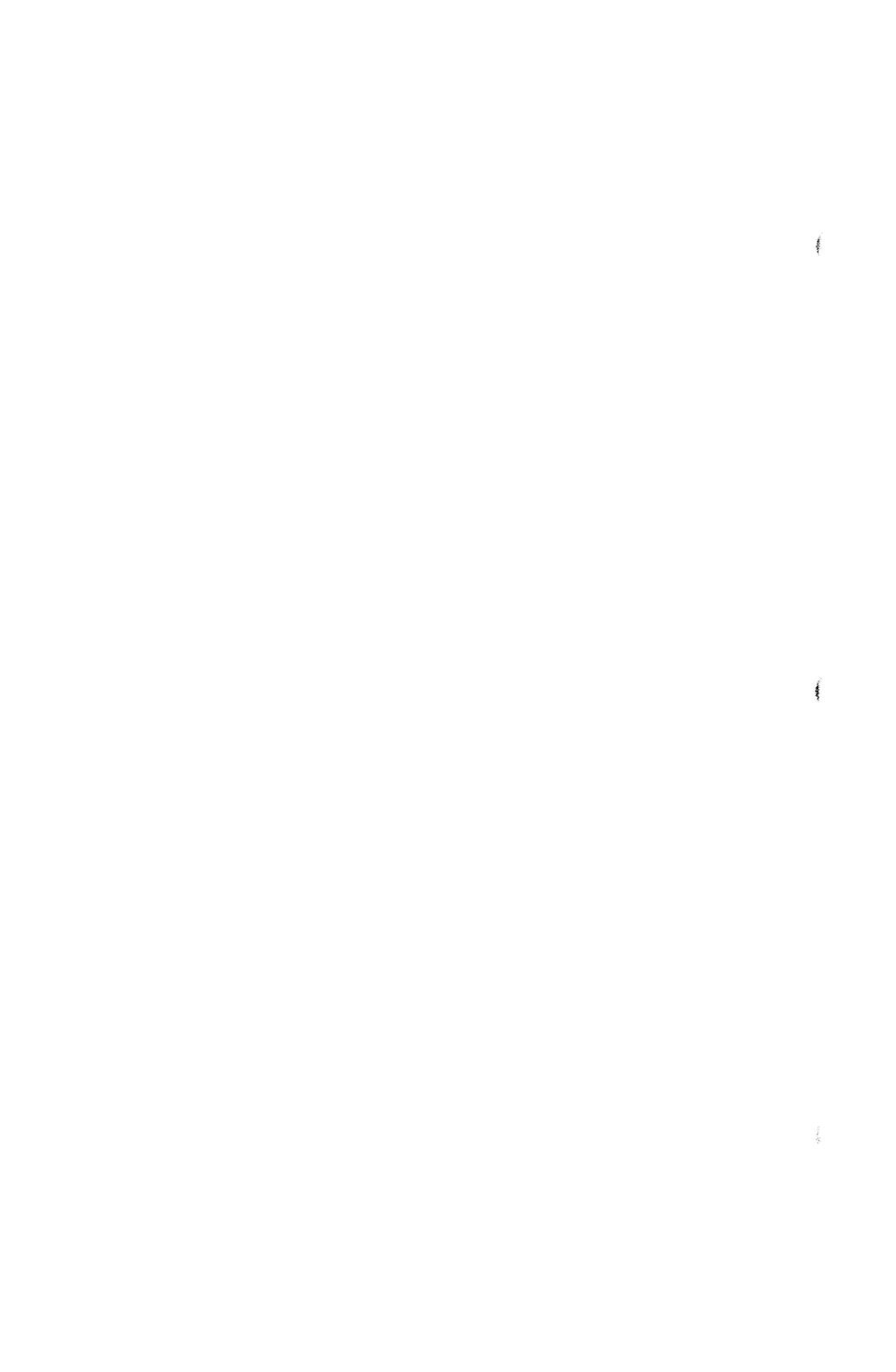
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Macintosh Quadra 610  
DOS Compatibility Card

Apple P/N 661-1017



**NOTE:** Return the Macintosh Quadra 610 DOS compatibility card without DRAM SIMMs.



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Power Macintosh  
**NuBus Adapter Card**

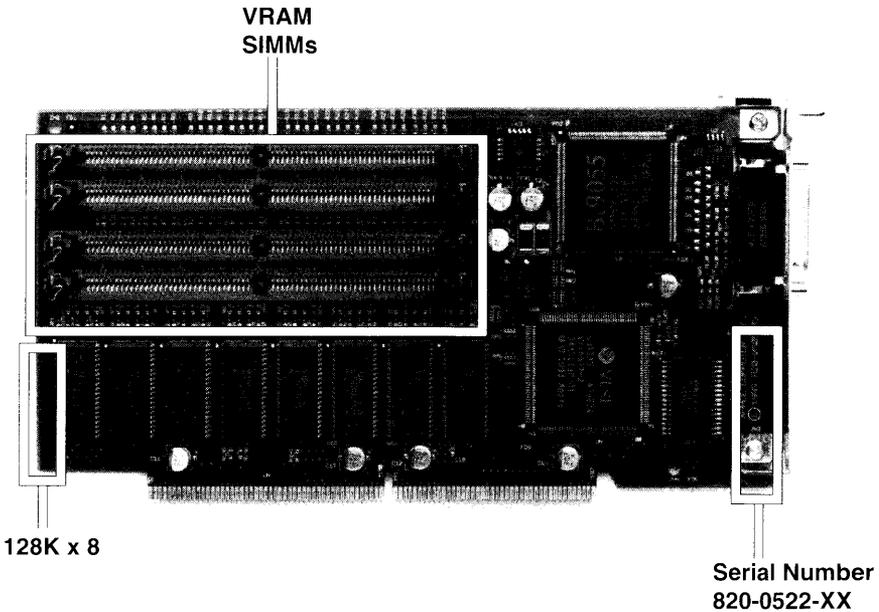
**Apple P/N 661-0049**

**Photograph not available  
at the time of printing**

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Power Macintosh 7100  
**Power Macintosh Video Card, 2 MB**

**Apple P/N 661-1748**



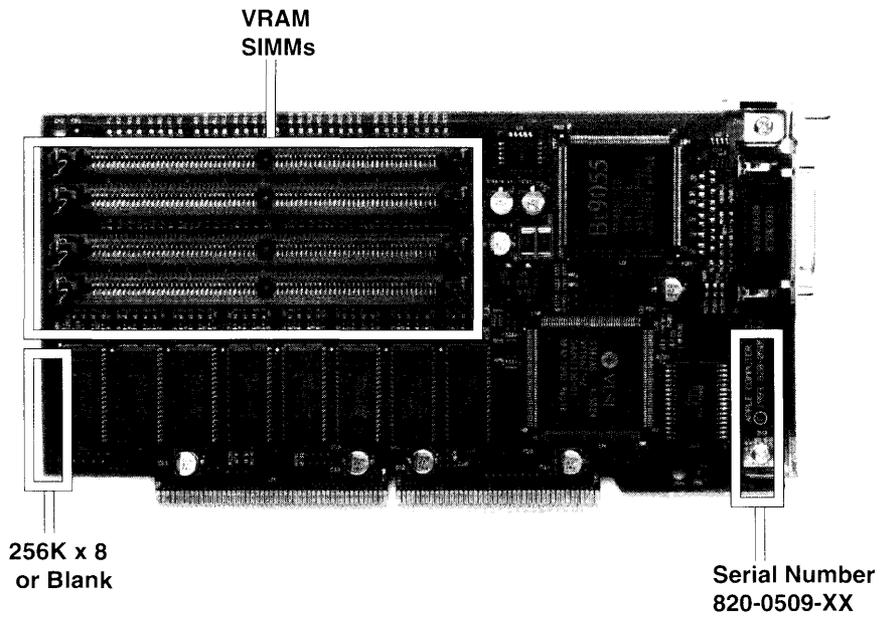
**NOTE:** The Power Macintosh 2 MB video card is similar to the 4 MB video card, P/N 661-1027. To identify the 2 MB video card, refer to the module serial number. For P/N 661-1748, the part number is 820-0522-XX. The lettering printed on the 2 MB video card is silkscreened in yellow, and the information *128K x 8* is printed on the lower left corner of the video card.

Return the Power Macintosh video card without VRAM SIMMs.

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Power Macintosh 8100  
**Power Macintosh Video Card, 4 MB**

**Apple P/N 661-1027**



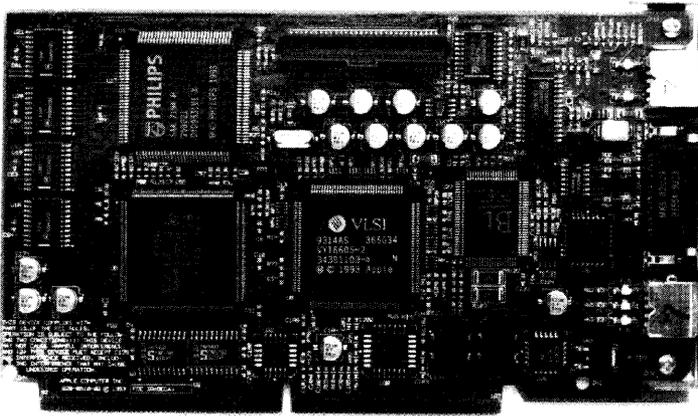
**NOTE:** The Power Macintosh 4 MB video card is similar to the 2 MB video card, P/N 661-1748. To identify the 4 MB video card, refer to the module serial number. For P/N 661-1027, the part number is 820-0509-XX. The lettering printed on the 4 MB video card is silkscreened in white, and will either be blank or have the information *256K x 8* printed on the lower left corner of the video card.

Return the Power Macintosh video card without VRAM SIMMs.

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Power Macintosh  
**Power Macintosh AV Card**

**Apple P/N 661-1023**

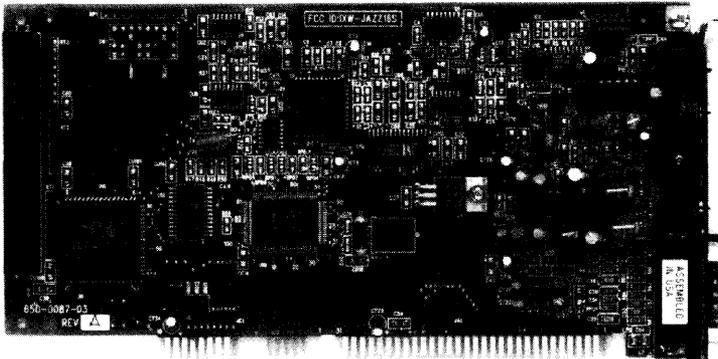


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Macintosh

**Apple Media Vision Jazz 16 Sound Card**

**Apple P/N 661-0100**



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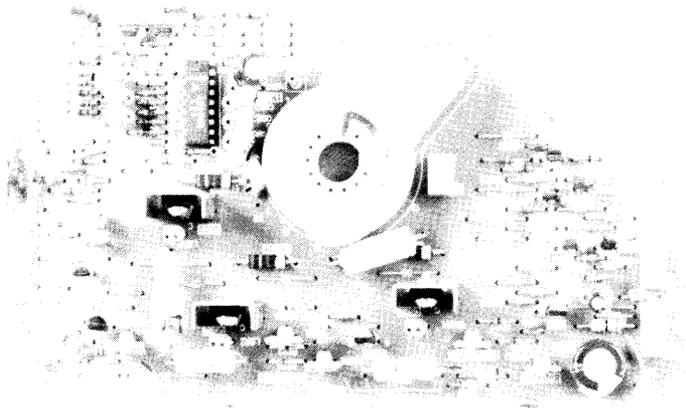
# Monitors



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**AppleColor RGB Monitor  
CRT Video Board**

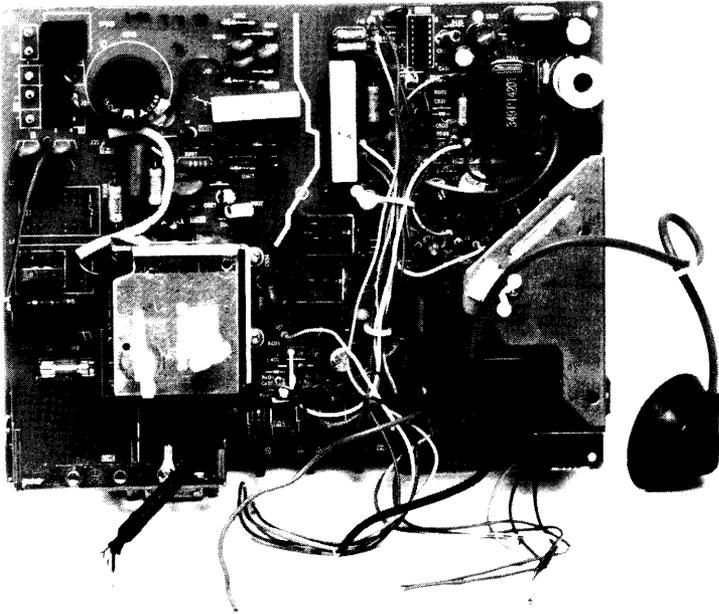
**Apple P/N 661-0347**



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AppleColor RGB Monitor  
Power Supply Board

Apple P/N 661-0348 (110 V)  
Apple P/N 661-0358 (220/240 V)

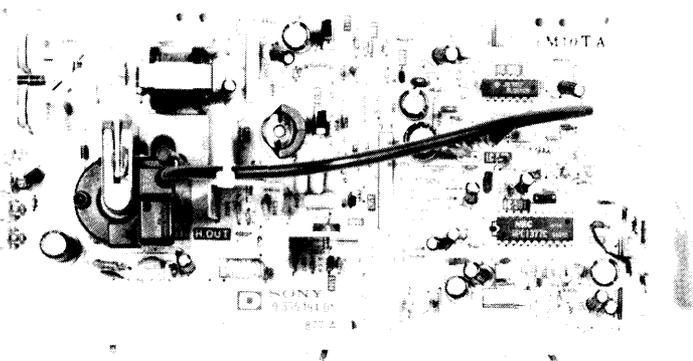


**NOTE:** Remove the three control knobs before you return the board to Apple.

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## Apple High-Resolution Monochrome Monitor Main Board

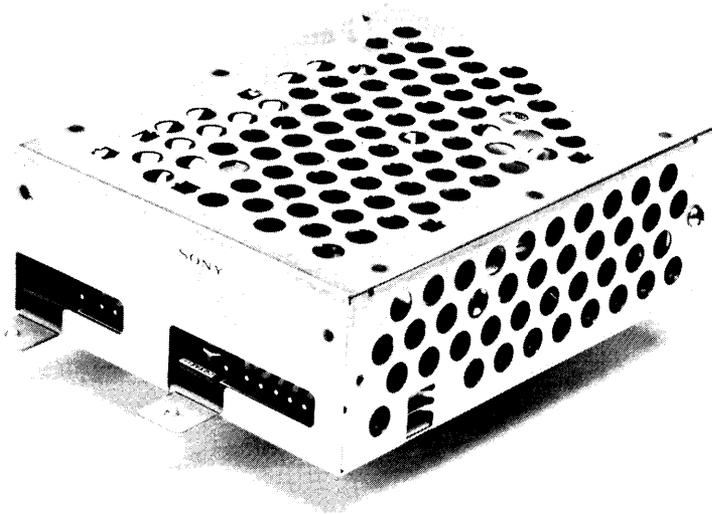
Apple P/N 661-0396



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**Apple High-Resolution Monochrome Monitor  
Power Supply**

**Apple P/N 661-0395**

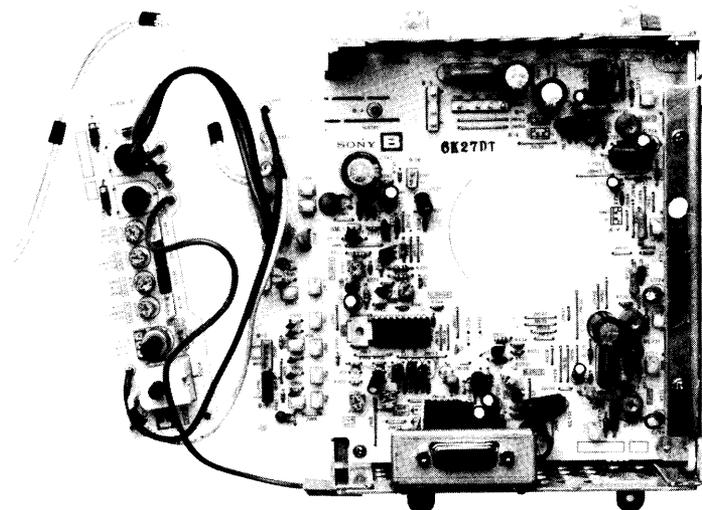


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## AppleColor High-Resolution RGB Monitor Video Color Board (Rev. A)

### Apple P/N 661-0398

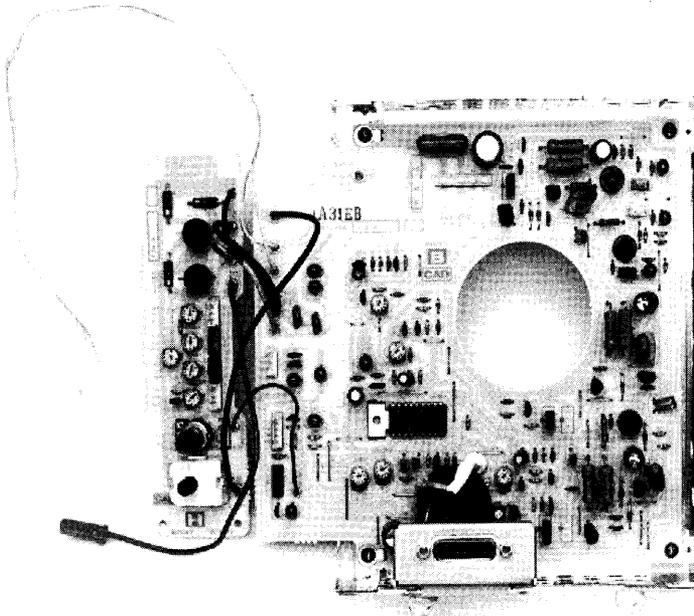
(When you return P/N 661-0398, Apple ships you P/N 661-0653.)



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**AppleColor High-Resolution RGB Monitor  
Video Color Board (Rev. B)**

**Apple P/N 661-0653**

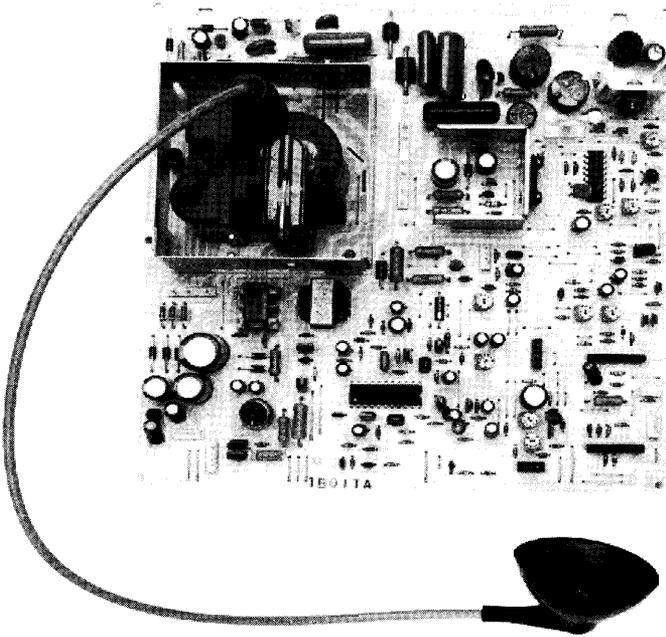




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**AppleColor High-Resolution RGB Monitor  
Main Board (Rev. B)**

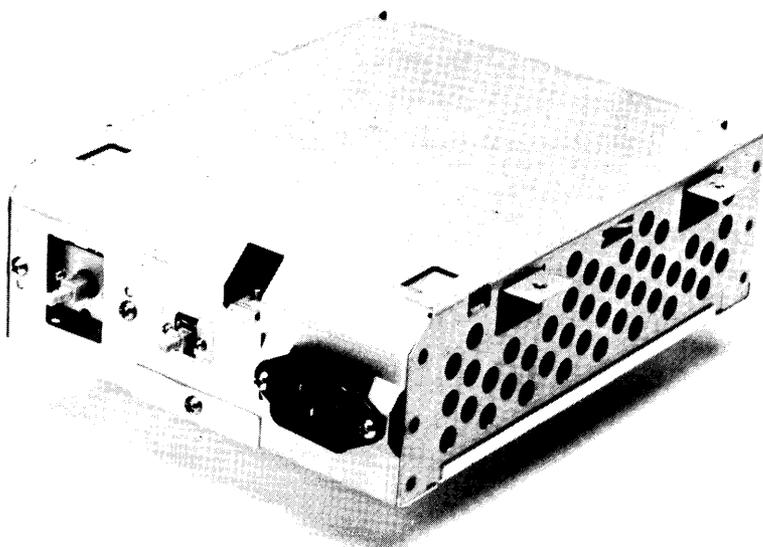
**Apple P/N 661-0654**



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**AppleColor High-Resolution RGB Monitor  
Power Supply**

**Apple P/N 661-0397 (Rev. A)  
Apple P/N 661-0705 (Rev. B)**



**NOTE:** P/N 661-0397 has the vendor number TK-20 or CRZ700 on it; P/N 661-0705 has the vendor number TK-20A or CRZ700A on it.

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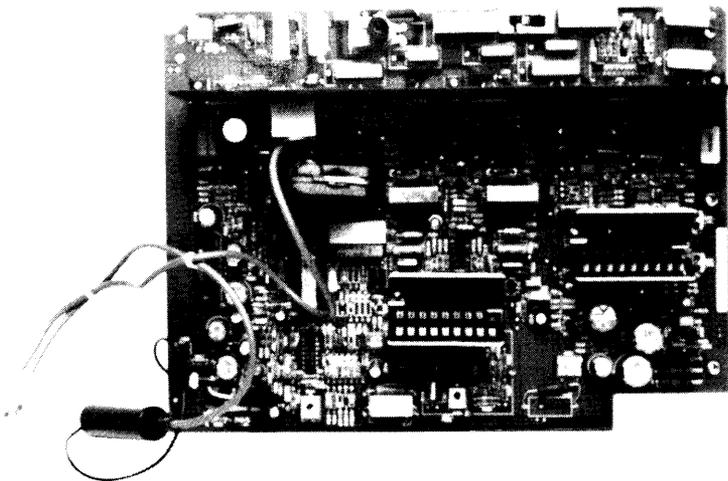
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**Apple Two-Page Monochrome Monitor  
Deflection Board**

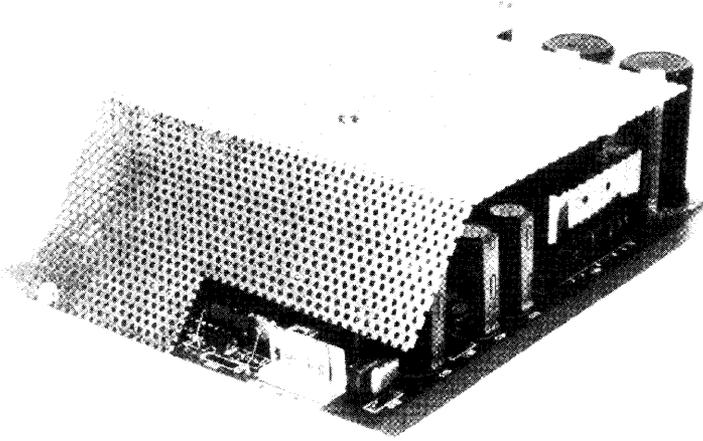
**Apple P/N 661-0451**



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Apple Two-Page Monochrome Monitor  
**Power Supply**

**Apple P/N 661-0453**





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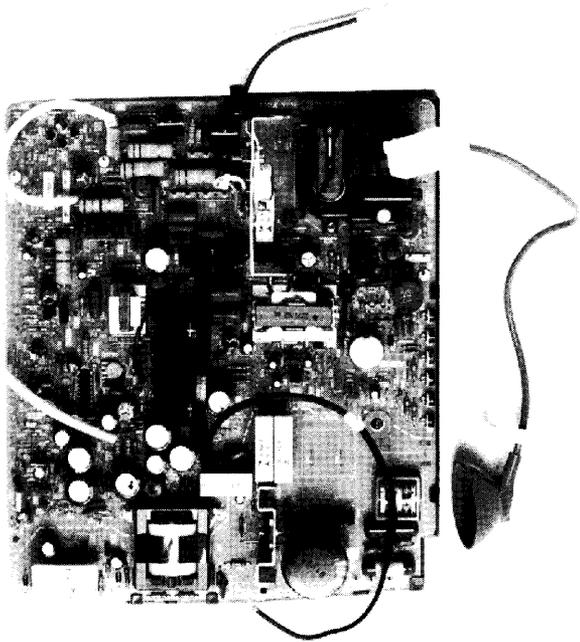
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Portrait Display Monitor  
**Power Sweep Board**

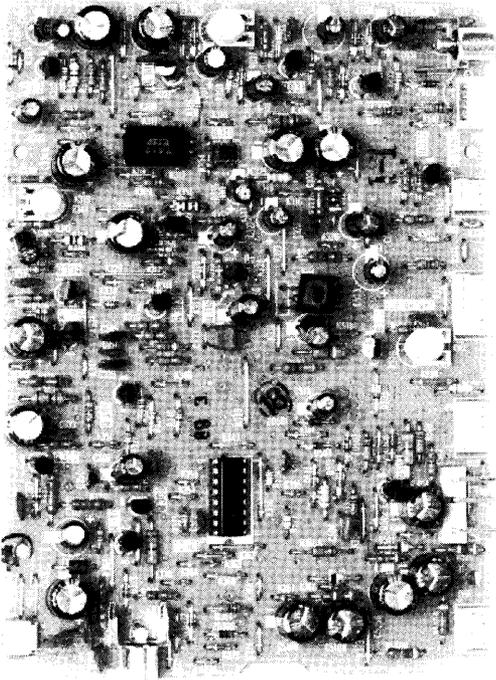
**Apple P/N 661-0117**



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**Portrait Display Monitor  
Video Board**

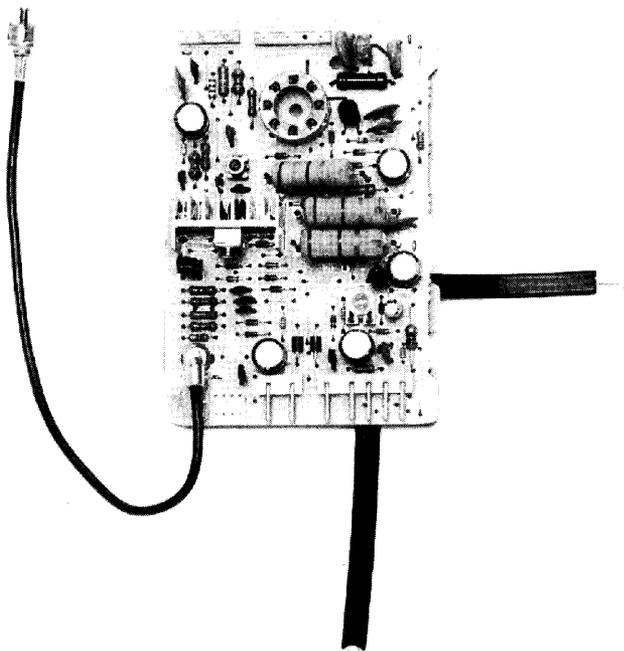
**Apple P/N 661-0118**



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**Portrait Display Monitor  
CRT Video Board**

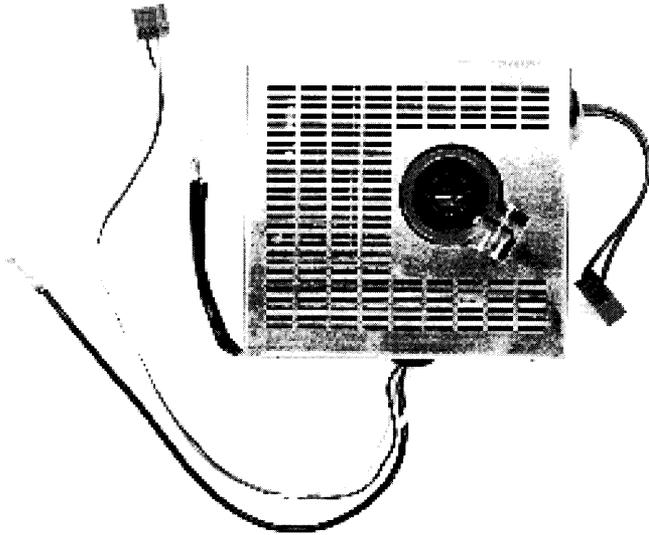
**Apple P/N 661-0119**



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**Portrait Display "Series B"  
Video Board**

**Apple P/N 661-0539**

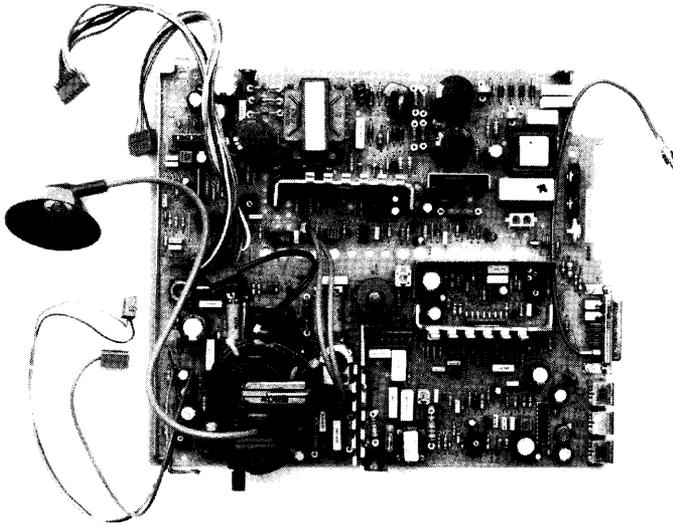




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Portrait Display "Series B"  
Main Deflection Board, VDE-B

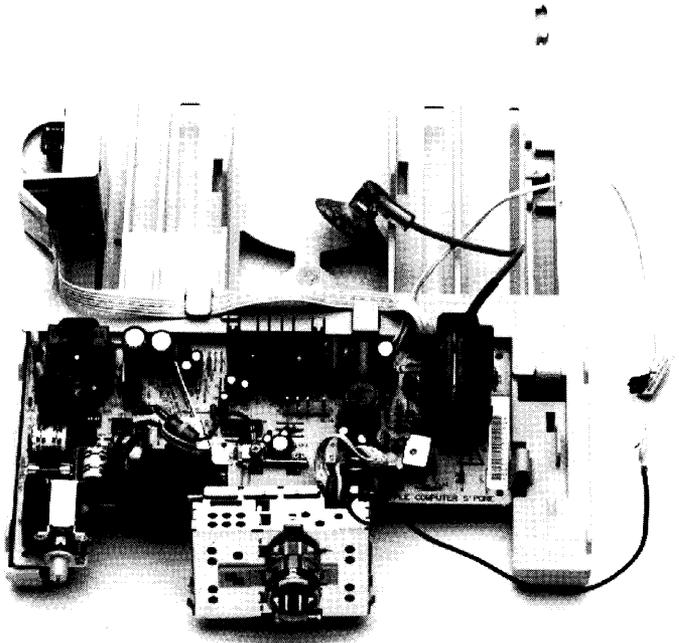
Apple P/N 661-0580



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

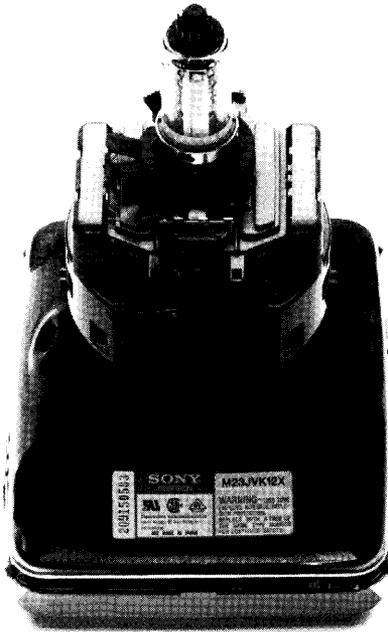
**Apple P/N 661-0615**



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

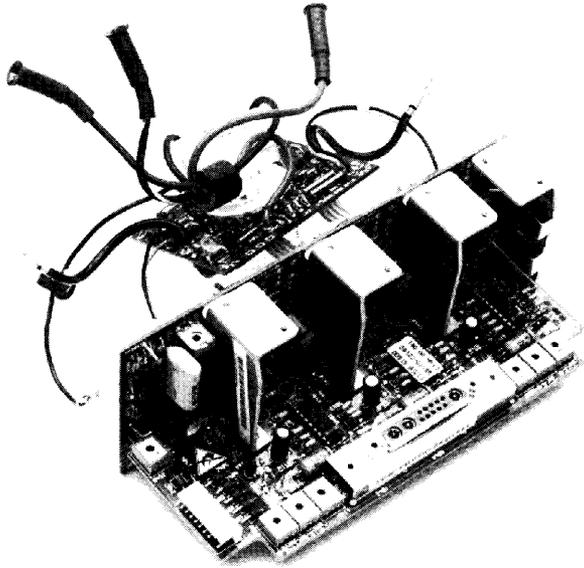
**Apple P/N 661-0004**



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

**Apple P/N 661-0655**

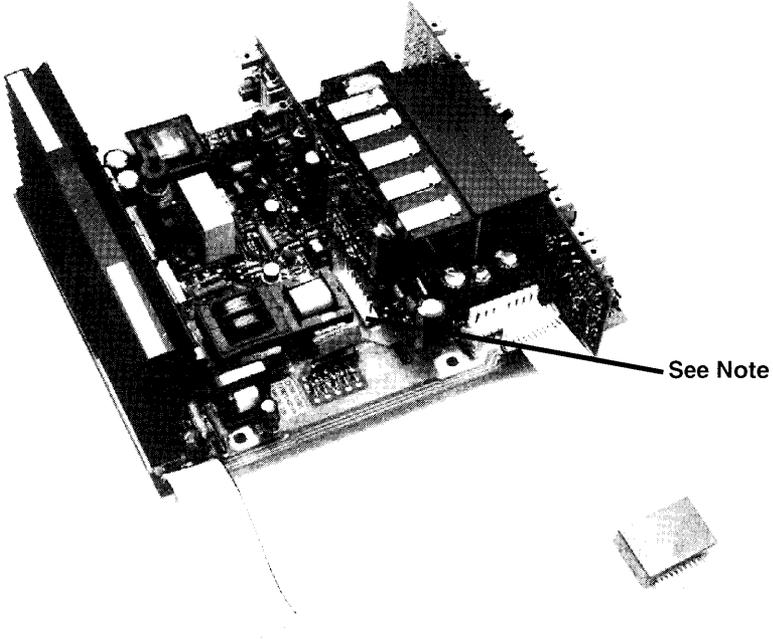


**NOTE:** Please return the heat sink when you return a defective video/color assembly to Apple.

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# Macintosh 21-Inch Color Monitor Main Board Assembly

Apple P/N 661-0656

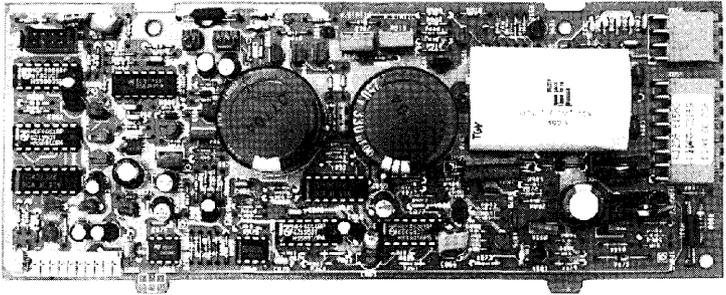


**NOTE:** Remove the flyback transformer assembly (P/N 076-0399) before you return the main board assembly to Apple.

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**Macintosh 21-Inch Color Monitor  
Magnetometer Degauss Board**

**Apple P/N 661-0657**

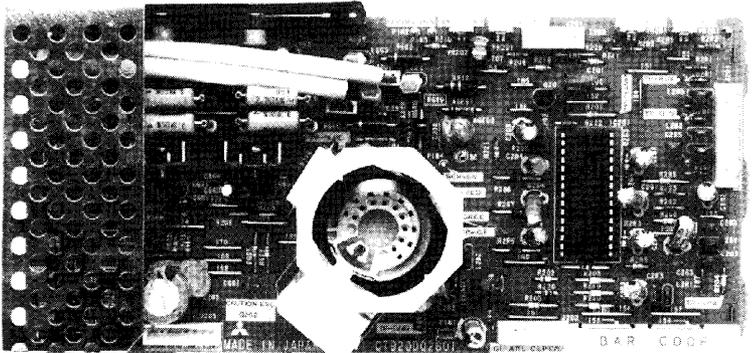




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## Macintosh 12-Inch RGB Display CRT Video Board

Apple P/N 661-0618



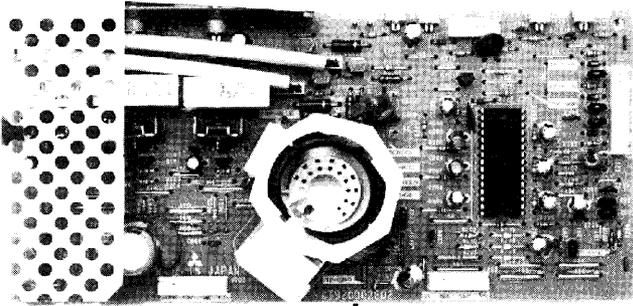
Serial Number

**NOTE:** You can identify P/N 661-0618 by the 11-digit serial number on the lower edge of the board. The last four digits are 2801.

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## Macintosh 12-Inch RGB Display CRT Video Board

**Apple P/N 661-1618**



**Serial Number**

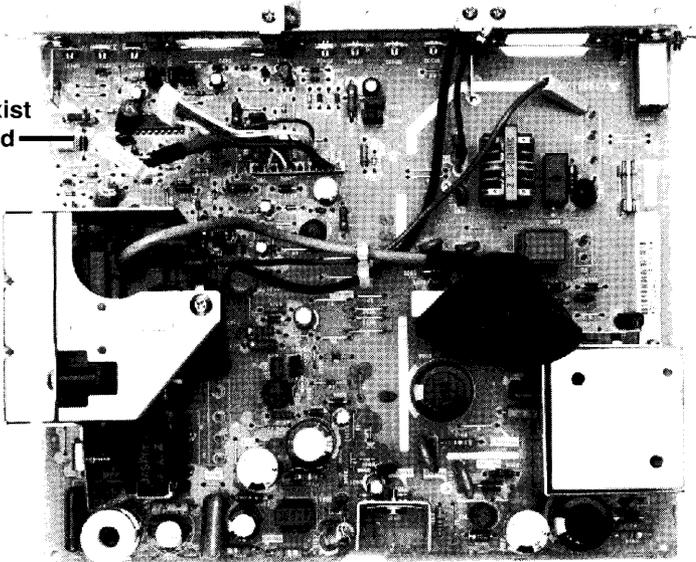
**NOTE:** Apple P/N 661-1618 is the part number for the universal video board. You can identify this card by the 11-digit serial number on the lower edge of the board. The last four digits are 2802.

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**Macintosh 12-Inch RGB Display  
Main Board (Domestic Rev. A)**

**Apple P/N 661-0616**

VR504  
does not exist  
on this board



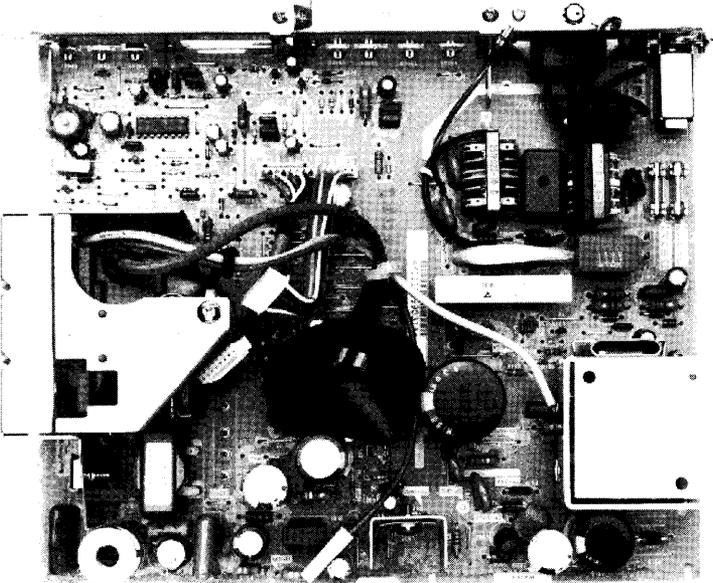
**NOTE:** Component *VR504* does not exist on this board; on the domestic Rev. B board (P/N 661-0659), component *VR504* is located next to connector *J502*.

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

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Macintosh 12-Inch RGB Display  
Main Board (International Rev. A)

Apple P/N 661-0617



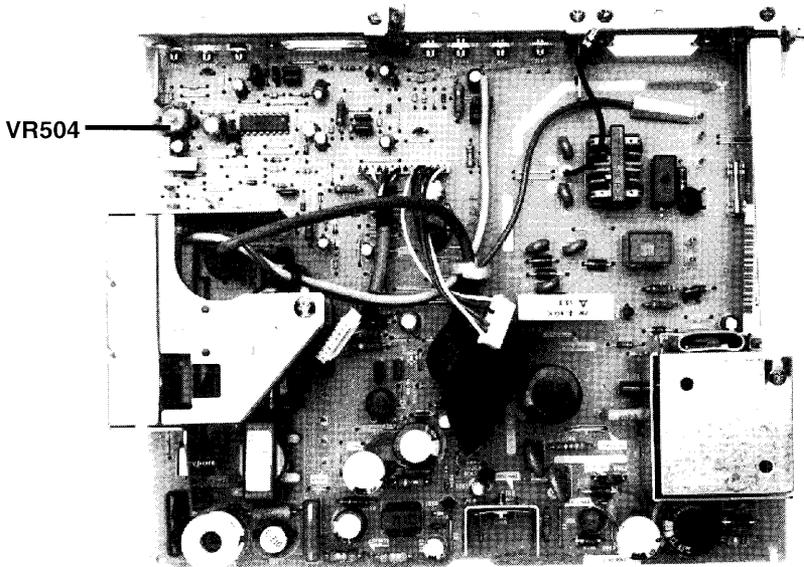
**NOTE:** You can identify the international Rev. A board by the ID no. CT920A05902, which is behind the AC input connector.

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

---

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

Apple P/N 661-0659



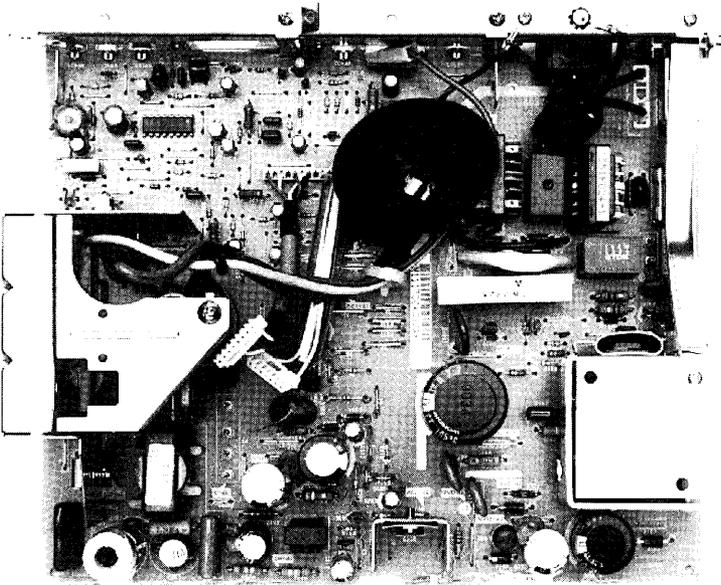
**NOTE:** The domestic Rev. B main board has component *VR504* mounted next to connector *J502*.

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

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## Macintosh 12-Inch RGB Display Main Board (International Rev. B)

Apple P/N 661-0660



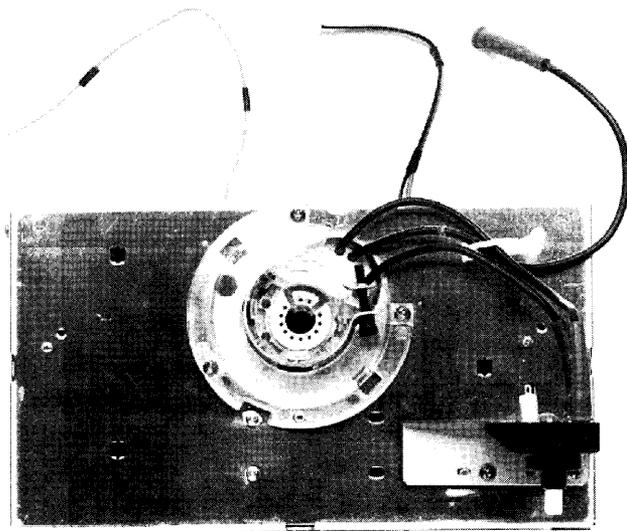
**NOTE:** You can identify the international Rev. B board by the ID no. *CT920A07602*, which is behind the AC input connector.

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

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Macintosh 16-Inch Color Display  
**CRT Video Board**

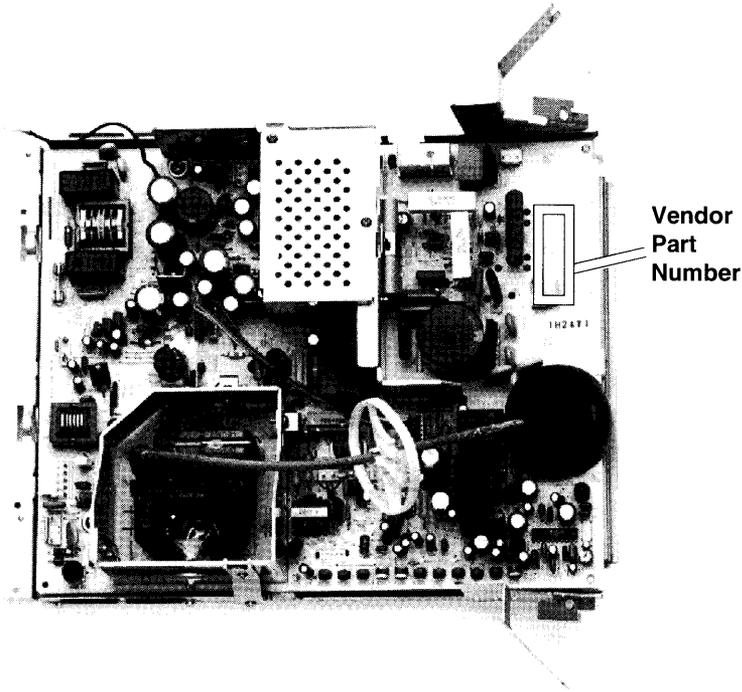
**Apple P/N 661-1635**



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

**Apple P/N 661-1634**

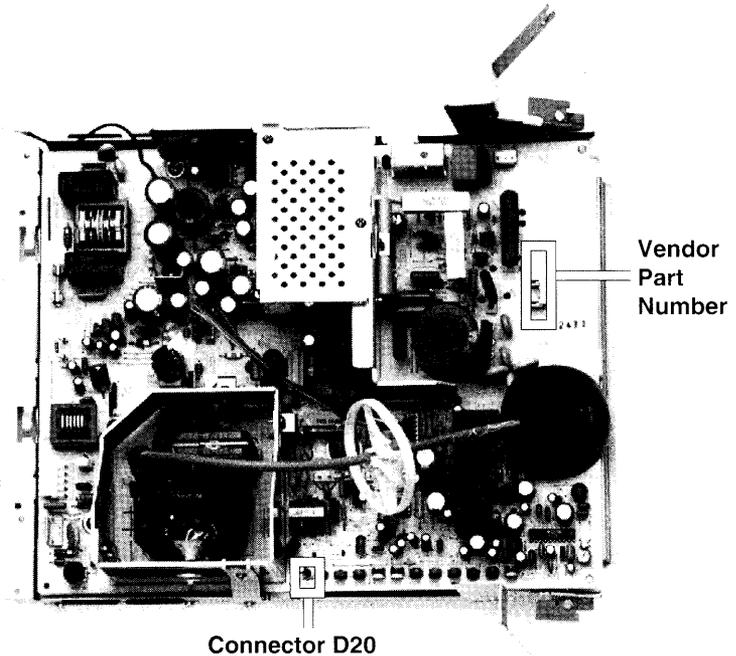


**NOTE:** You can identify this module by the vendor number *A-1335-028*.  
If the vendor number is different, see P/N 661-1671.

---

## Macintosh 16-Inch Color Display Main Deflection Board (Rev. B)

Apple P/N 661-1671



**NOTE:** The Macintosh 16-Inch Color Display main deflection board (Rev.B) has a vendor number of *A-1335-040* or greater near connector D3. If the vendor number is *A-1335-028*, see Apple P/N 661-1634.

Connector D20 is located on the main deflection board (Rev. B) only.



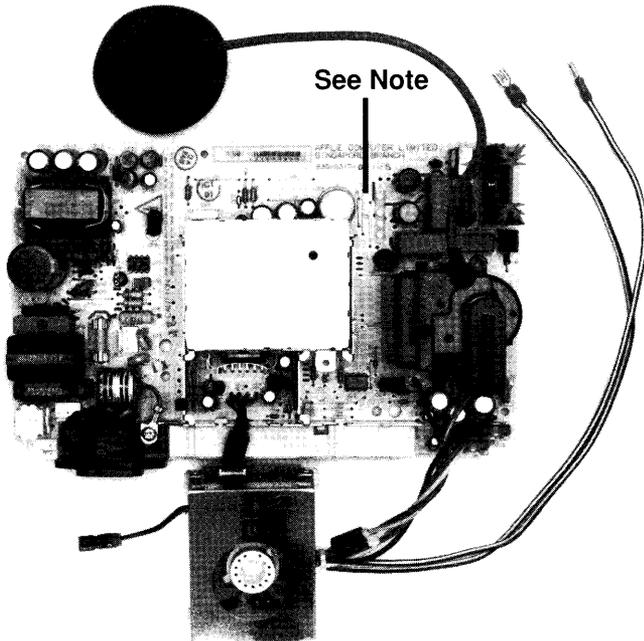
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## Macintosh Color Display Main Deflection Board

### Apple P/N 661-1650

(When you return P/N 661-1650, Apple ships you either P/N 661-1650 or P/N 661-1699)

### Apple P/N 661-0102

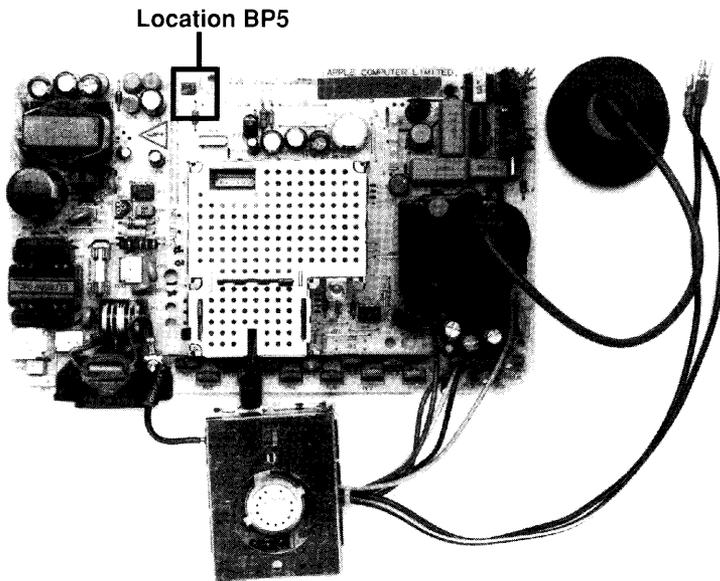


**NOTE:** There are two versions of the Macintosh Color Display main deflection boards. You can identify part number 661-0102 by the number 1-645-345-31 printed on the board.

---

## Apple AudioVision 14 Display Main Deflection Board

**Apple P/N 661-1699**

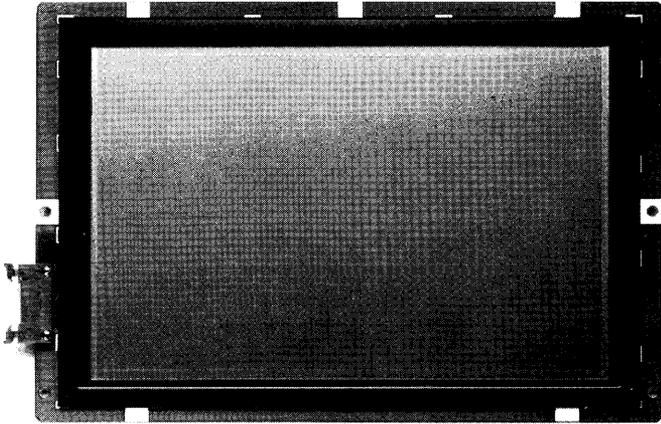


**NOTE:** The Apple AudioVision 14 Display and the Apple Macintosh Color Display main deflection boards look similar. You can identify the Apple AudioVision 14 Display main deflection board by the presence of a 2-pin power jumper at location BP5.

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Macintosh Portable  
**LCD Display**

**Apple P/N 661-0473**

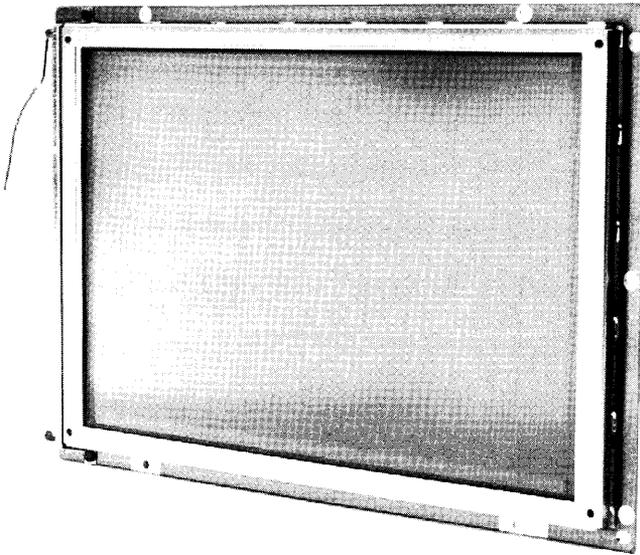


**NOTE:** You must return the panel with the electrostatic discharge (ESD) protective tape intact. The tape is located on the back of the panel around all four edges (not shown in above photograph). Early production units with the following serial numbers may not have tape: HK920xxxxx017A, HK922xxxxx017A, HK924xxxxx017A, HK925xxxxx017A, and HK926xxxxx017A.

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**Macintosh Portable  
LCD Backlit Display**

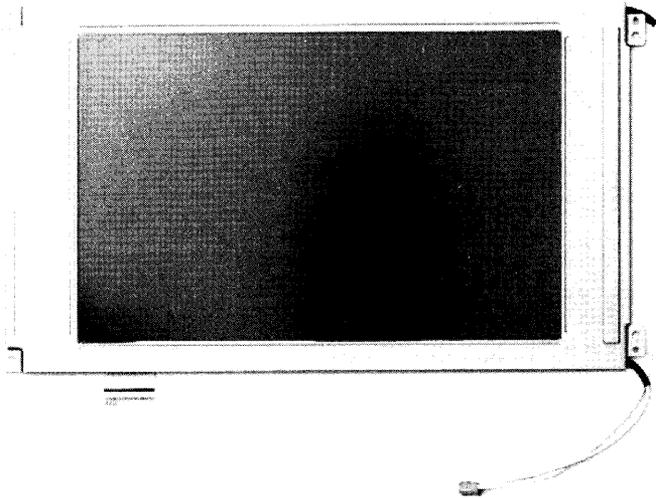
**Apple P/N 661-0647**



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PowerBook 100  
**FSTN Display**

**Apple P/N 661-0675**



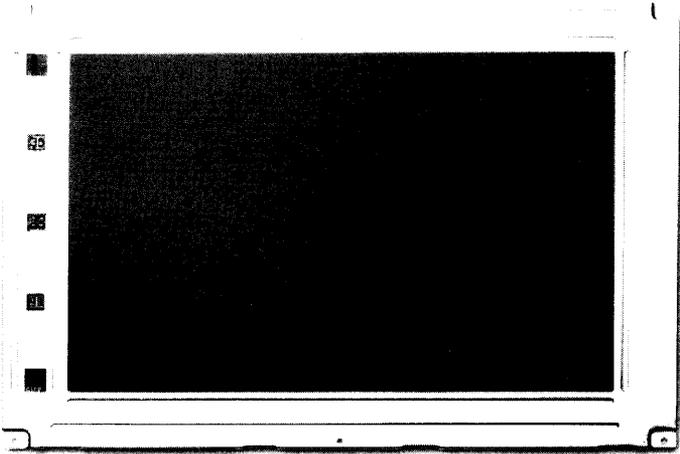
**NOTE:** Transfer the protective plastic from the new module to the module being returned.

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

---

PowerBook 140/145  
**FSTN Display (Rev. A)**

**Apple P/N 661-0706**



**NOTE:** Transfer the protective plastic from the new module to the module being returned.

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PowerBook 140  
**FSTN Display (Rev. B)**

**Apple P/N 661-0681**

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



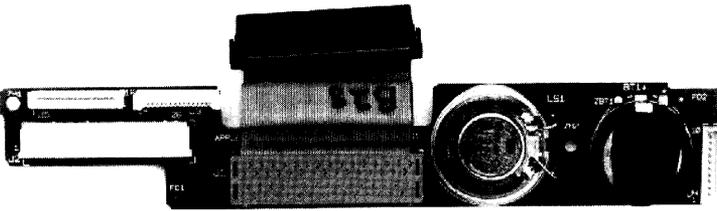
**NOTE:** Transfer the protective plastic from the new module to the module being returned.

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 140/145/170  
**Interconnect Board**

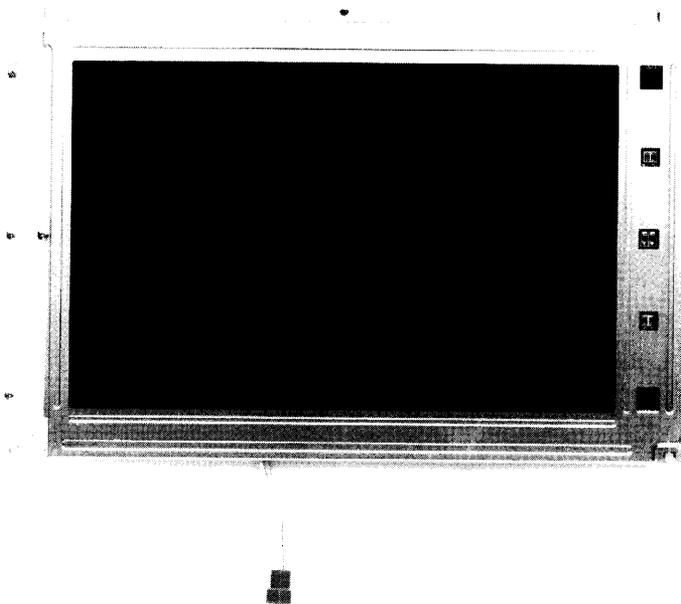
**Apple P/N 661-0724**



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PowerBook 145/160/165  
**FSTN Display (Rev. C)**

**Apple P/N 661-0745**

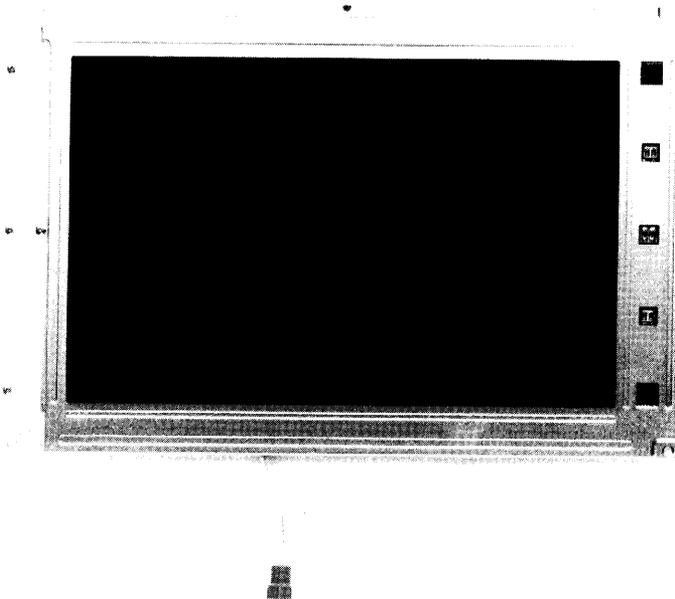


**NOTE:** Transfer the protective plastic from the new module to the module being returned.

---

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

**Apple P/N 661-8745**



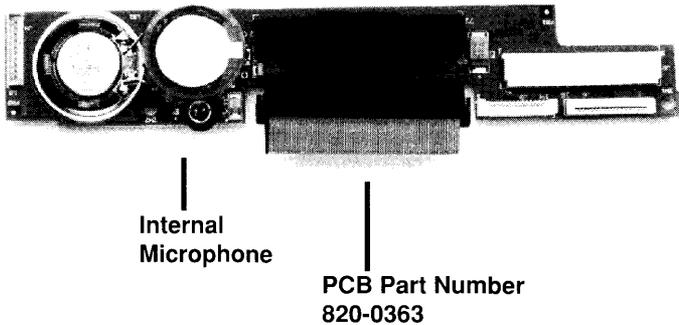
**NOTE:** Transfer the protective plastic from the new module to the module being returned.

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

---

PowerBook 160/165/180  
**Interconnect Board**

**Apple P/N 661-0750**

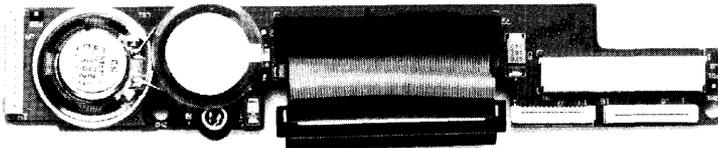


**NOTE:** The PowerBook 160/165/180, 140/145/170, 165c, and 180c interconnect boards are similar. You can identify the PowerBook 160/165/180 interconnect board by the presence of an internal microphone and the PCB part number 820-0363 underneath the cable assembly.

---

PowerBook 165c  
**Interconnect Board**

**Apple P/N 661-0764**



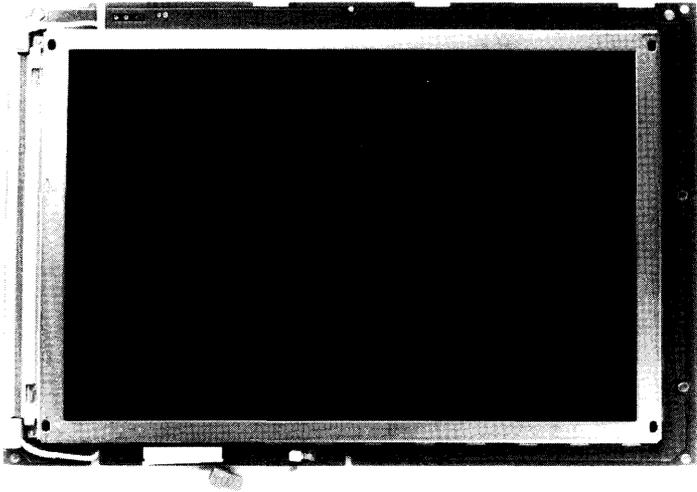
PCB Part Number  
820-0419

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

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PowerBook 180  
**Active-Matrix Display**

**Apple P/N 661-0748**

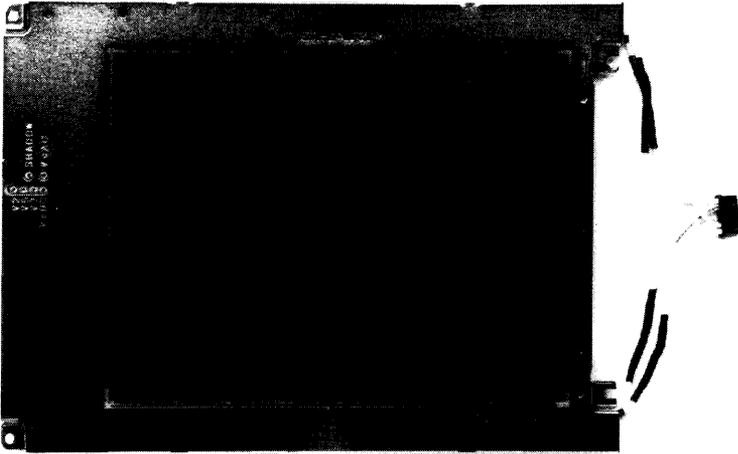


**NOTE:** Transfer the protective plastic from the new module to the module being returned.

---

PowerBook 180c  
**Active-Matrix Color Display**

**Apple P/N 661-0686**

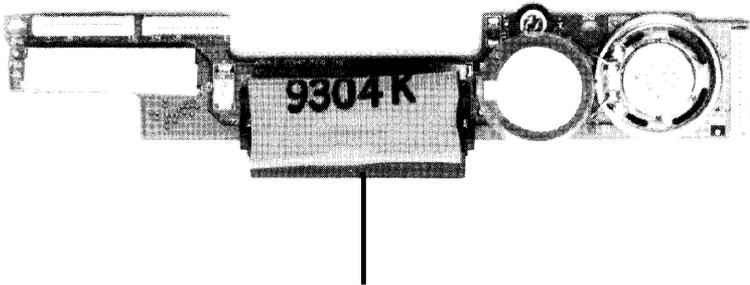


**NOTE:** Transfer the protective plastic from the new module to the module being returned.

---

PowerBook 180c  
**Interconnect Board**

**Apple P/N 661-0685**



**Part Number  
820-0438**

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

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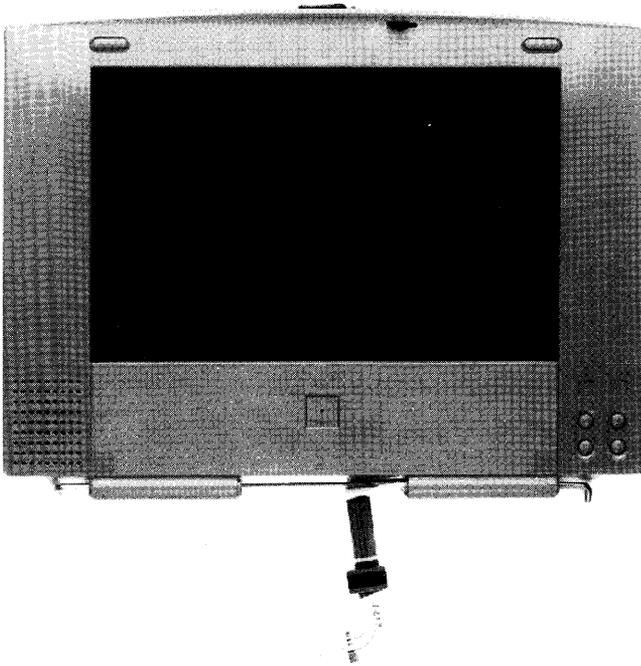
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PowerBook Duo 210/230  
**FSTN Display**

**Apple P/N 661-1655 (210)**  
**Apple P/N 661-1673 (230)**



**NOTE:** The PowerBook Duo 210 and 230 FSTN displays are similar. You can identify each display by the product name on the bezel.

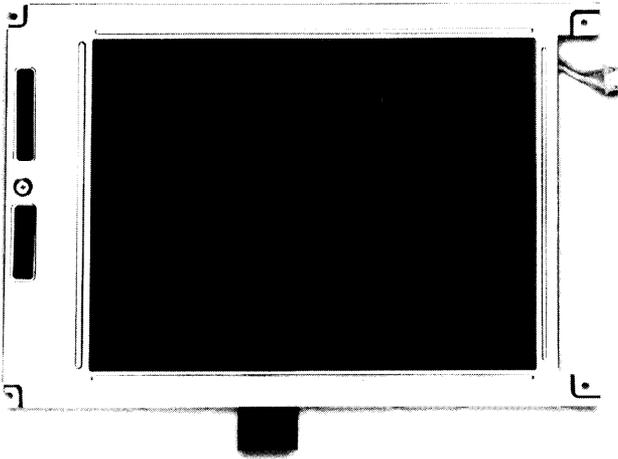
In the U.S., this module is available only to service providers who attended the Macintosh PowerBook Service Course. All other U.S. service providers must contact the Apple toll-free repair hotline, 1-800-SOS-APPL, for return authorization.

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PowerBook 520c  
Display, Dual Scan Color

Apple P/N 661-0062

Top



Bottom



**NOTE:** Transfer the protective plastic from the new module to the module being returned.

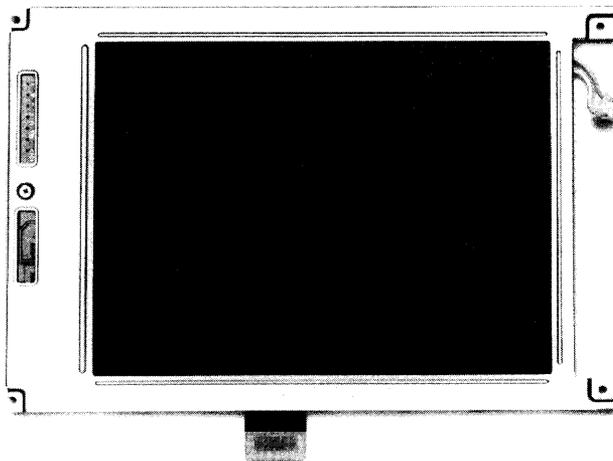
Return the module WITH the display cable.

---

PowerBook 520  
Display, Dual Scan Grayscale

Apple P/N 661-0064

Top



Bottom



**NOTE:** Transfer the protective plastic from the new module to the module being returned.

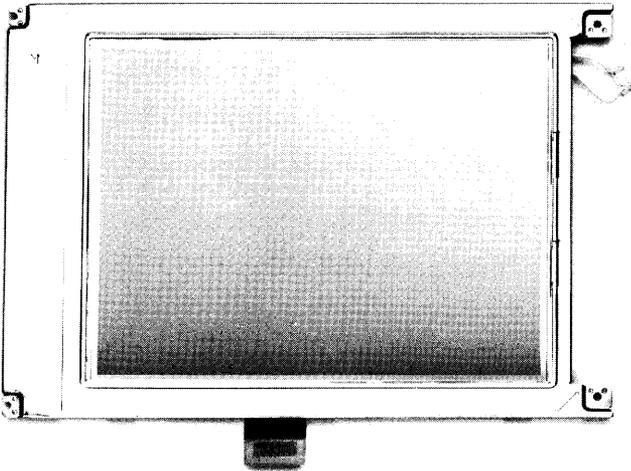
Return the module WITH the display cable.

---

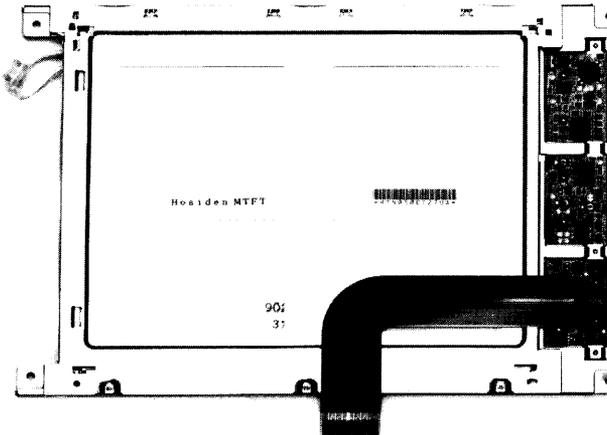
PowerBook 540  
Display, TFT Grayscale

Apple P/N 661-0063

Top



Bottom



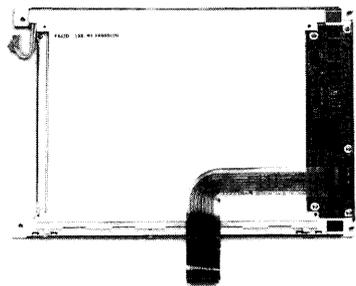
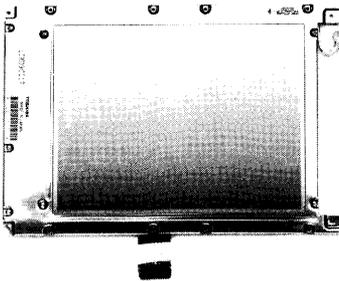
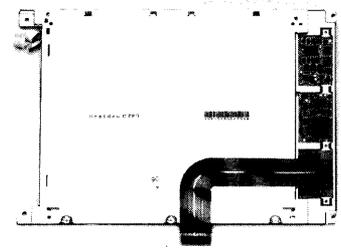
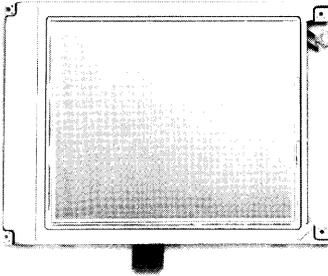
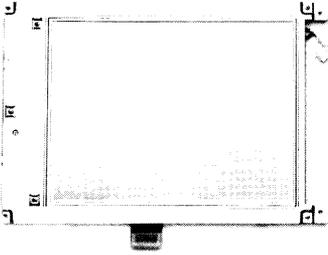
**NOTE:** Transfer the protective plastic from the new module to the module being returned.

Return the module WITH the display cable.

---

PowerBook 540c  
Display, TFT Color

Apple P/N 661-0056



**NOTE:** Transfer the protective plastic from the new module to the module being returned.

Return the module WITH the display cable.

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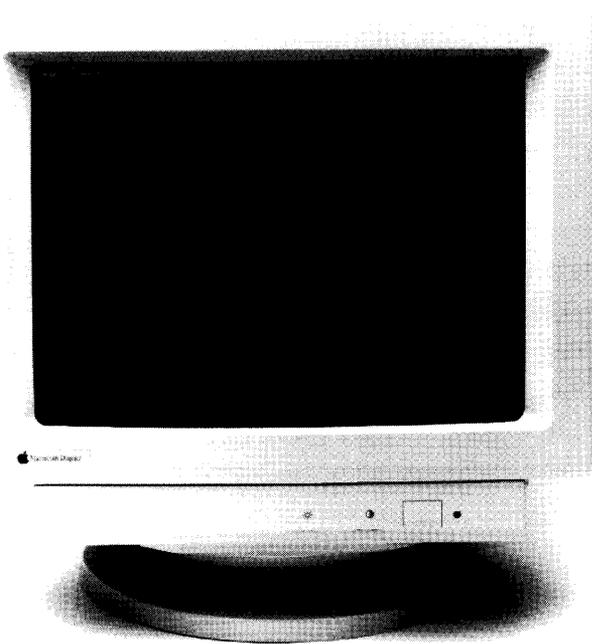
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Apple  
**Basic Color Monitor**

**Apple P/N 661-0008, 110 V, U.S./ Pacific**

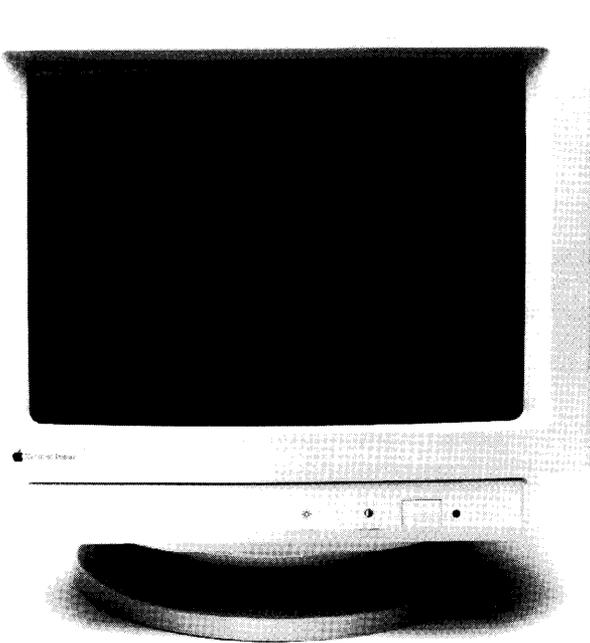


**NOTE:** There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number 645-0031 or PA645-0031, order Apple part number 661-0008.

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Apple  
**Basic Color Monitor**

**Apple P/N x661-0008, 220 V, Australia**

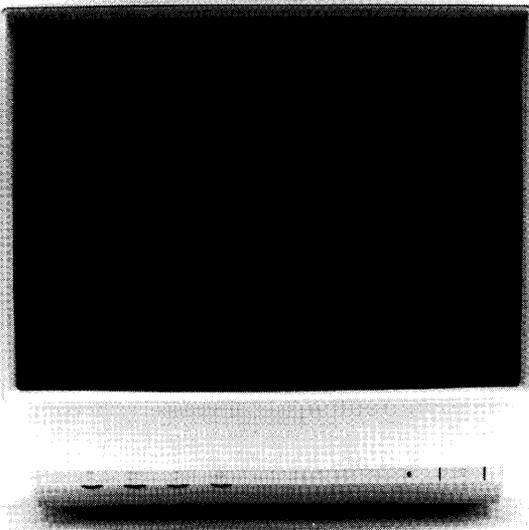


**NOTE:** There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number x645-0031, order Apple part number x661-0008.

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Apple  
**Basic Color Monitor**

**Apple P/N 661-0009, 110 V, U.S./ Pacific**

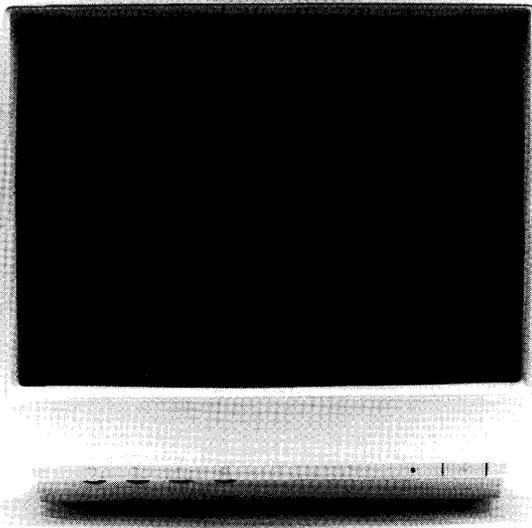


**NOTE:** There are multiple versions of the Apple Basic Color Monitor. Use the manufacturing part number (located on the product label under the Apple model number) to identify the monitor version. To obtain a monitor with manufacturing part number 645-0032 or PA645-0032, order Apple part number 661-0009.

---

Apple  
**Basic Color Monitor**

**Apple P/N x661-0009, 220 V, Australia**



**NOTE:** 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 x645-0032, order Apple part number x661-0009.

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Apple  
**Basic Color Monitor**

**Apple P/N Z661-0010, 220 V, European**

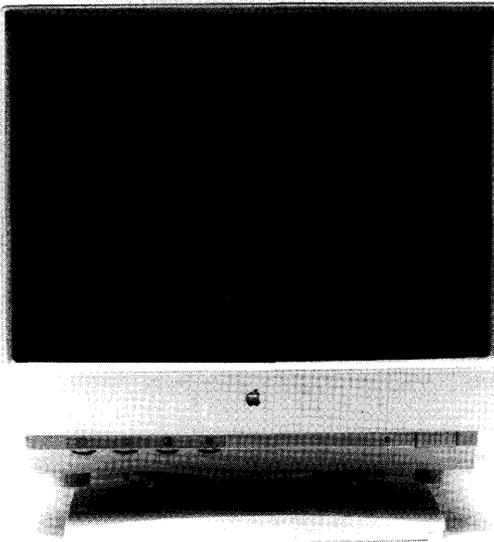
**Photograph not available  
at the time of printing**

**NOTE:** 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 Z645-0034, order Apple part number Z661-0010.

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Apple  
**Color Plus 14-Inch Display**

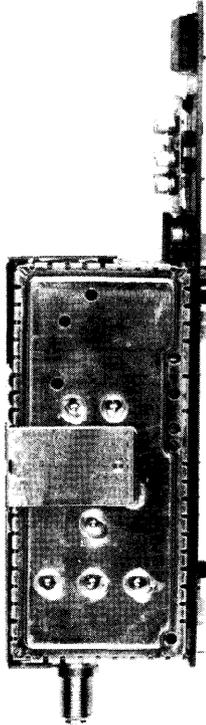
**Apple P/N 661-0870**



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Macintosh TV  
Tuner PCB

Apple P/N 661-1731

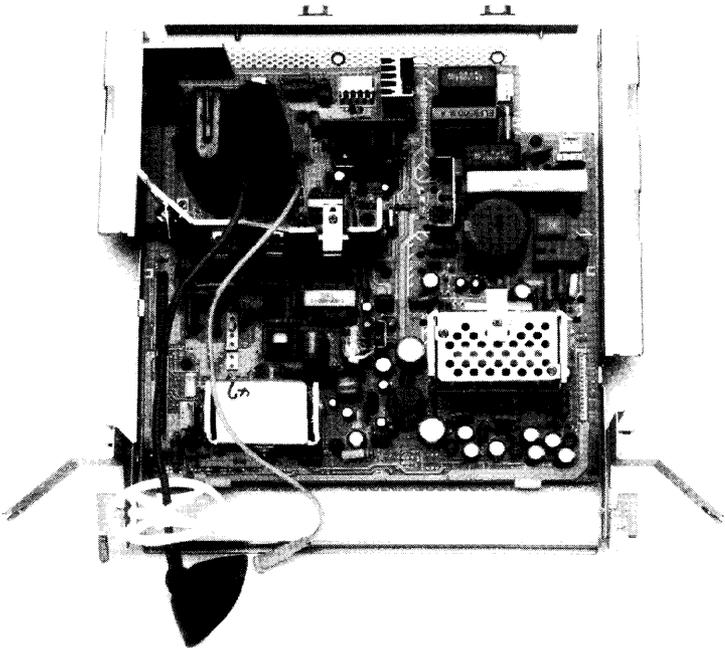




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Apple Multiple Scan 17 Display  
**Main Deflection Board**

**Apple P/N 661-0881**

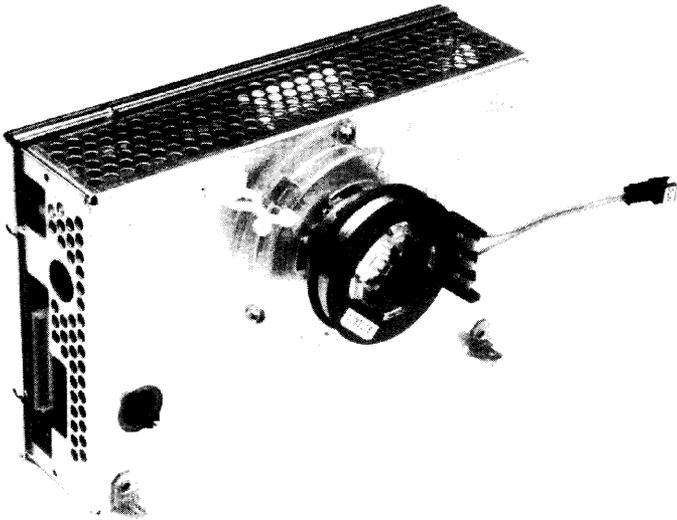


**NOTE:** Return the main deflection board without the microprocessor board and cables.

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**Apple Multiple Scan 17 Display  
CRT Video Board**

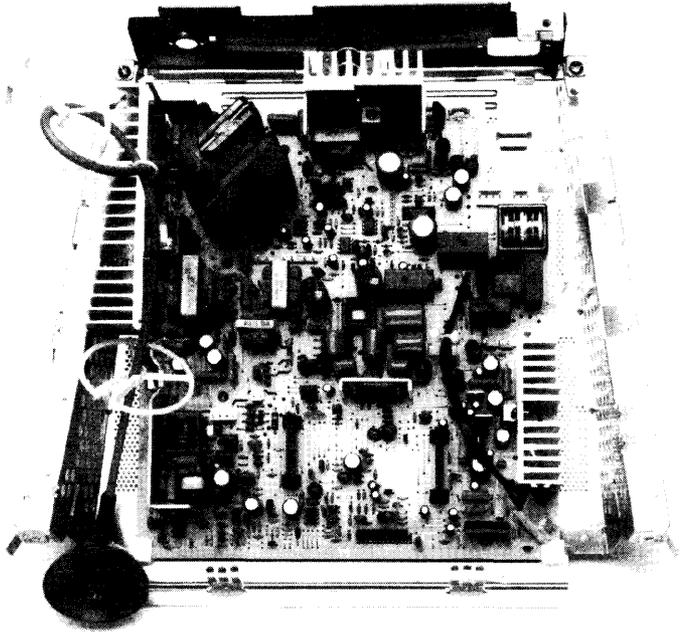
**Apple P/N 661-0882**



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## Apple Multiple Scan 20 Display Main Deflection Board

**Apple P/N 661-0506**



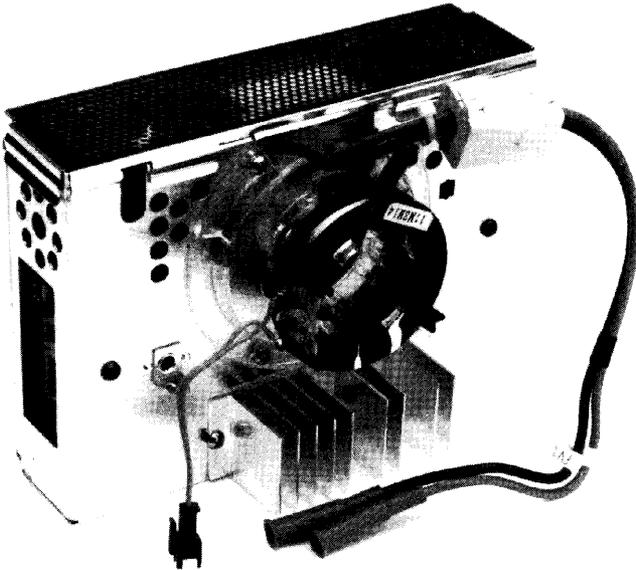
**NOTE:** Remove the video cable, serial I/O board assembly, and AC inlet assembly from the rear connector panel before returning the main deflection board to Apple.

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

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

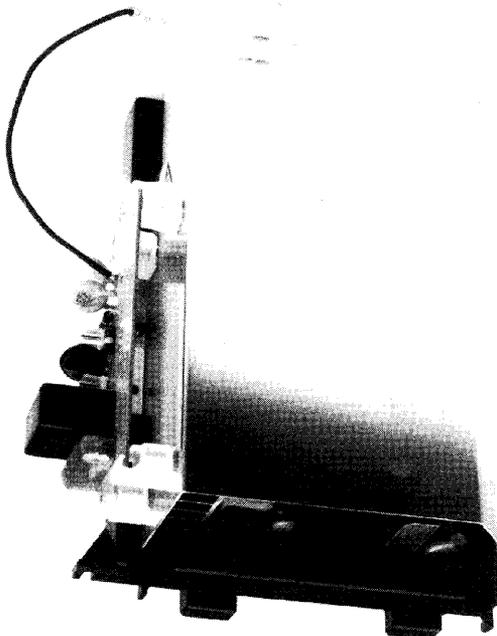
**Apple P/N 661-0507**



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

**Apple P/N 661-0508**

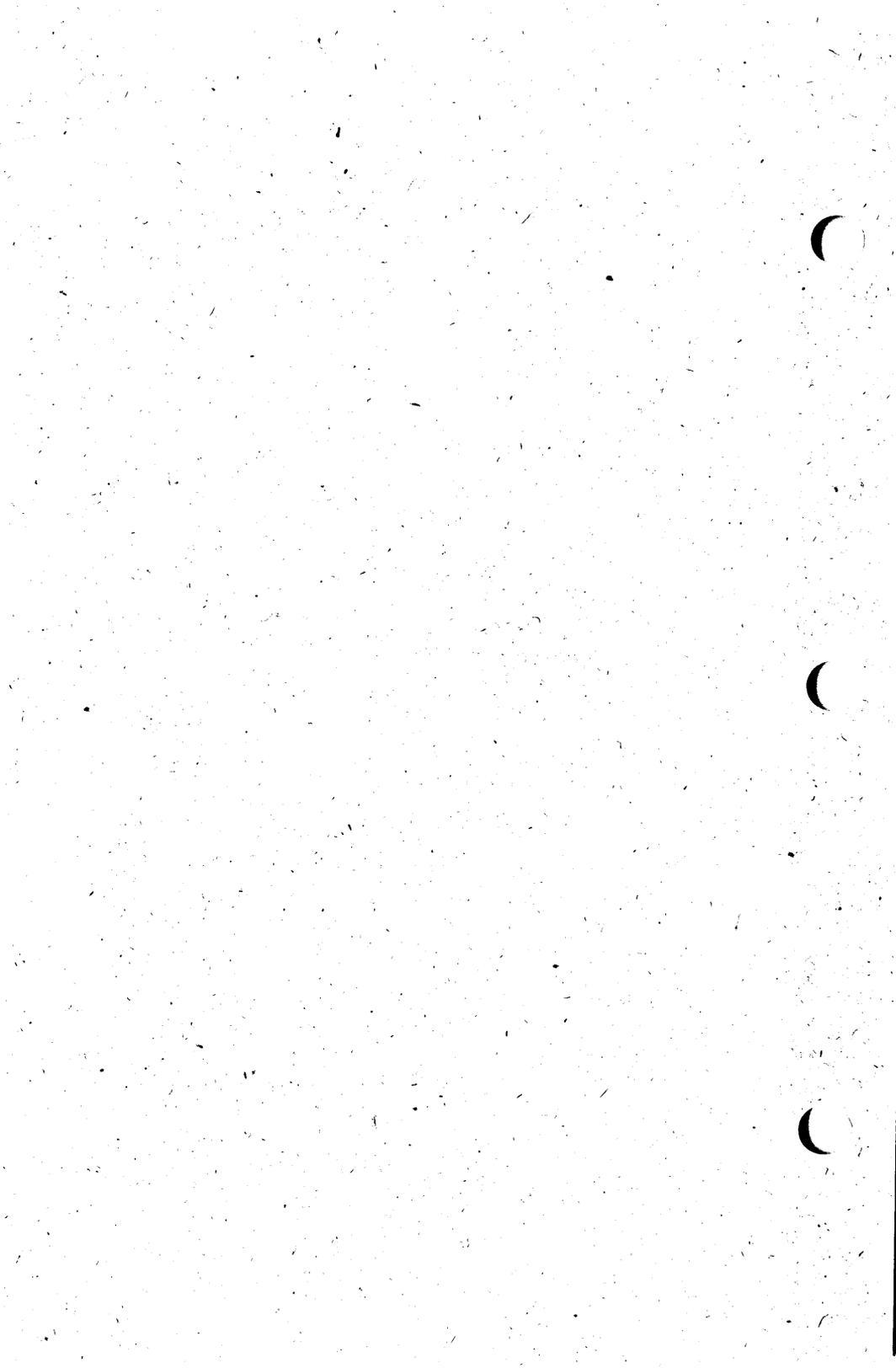


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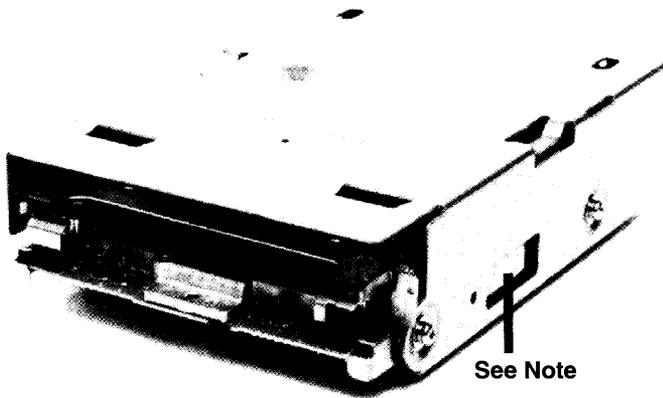
# Drives



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## Apple SuperDrive 1.4 MB Drive Mechanism

Apple P/N 661-0474



**NOTE:** This 1.4 MB drive mechanism has a 2 MB designation on the blue model number label.

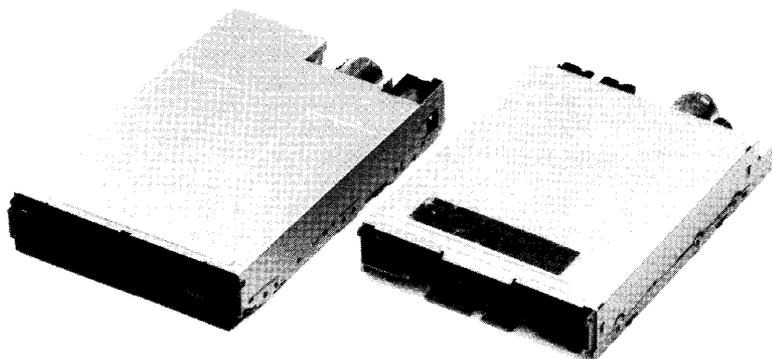
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

---

## Apple SuperDrive 1.4 MB Drive Mechanism

**Apple P/N 661-0121  
(1.44 Floppy Disk Drive without auto insert)**



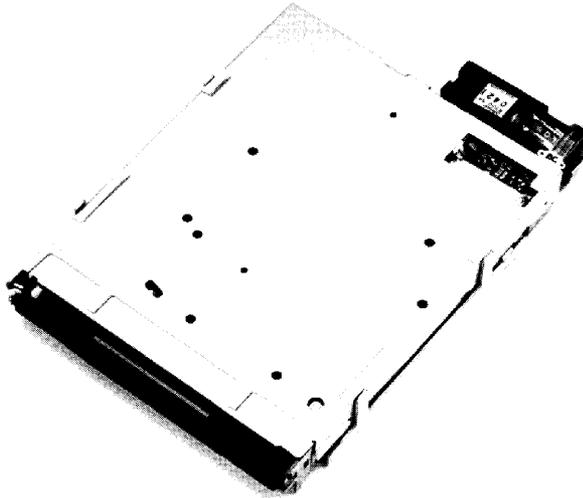
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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## Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm

### Apple P/N 661-1623

(When you return P/N 661-1623, Apple ships you P/N 661-1651.)



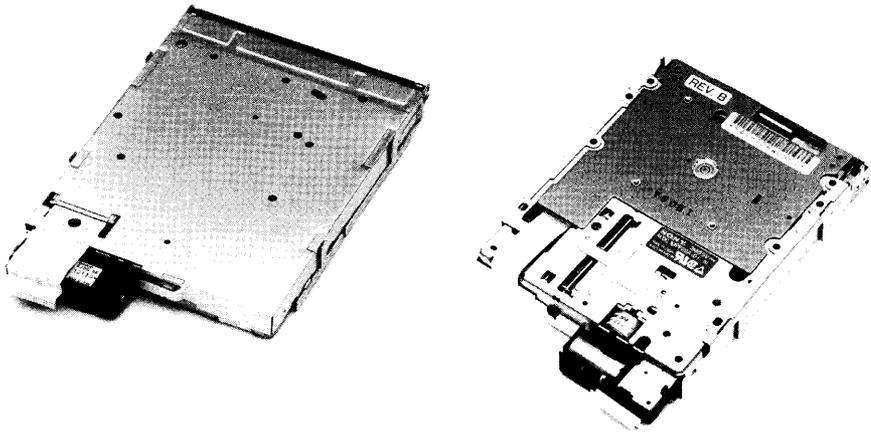
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

---

## Apple Floppy Disk Drive 1.4 MB Drive Mechanism, 19 mm

Apple P/N 661-1651



**NOTE:** This 1.4 MB drive mechanism has a *P2* at the end of the serial number or a *Rev. B* or *Read Fix* label on the shield on the bottom of the drive.

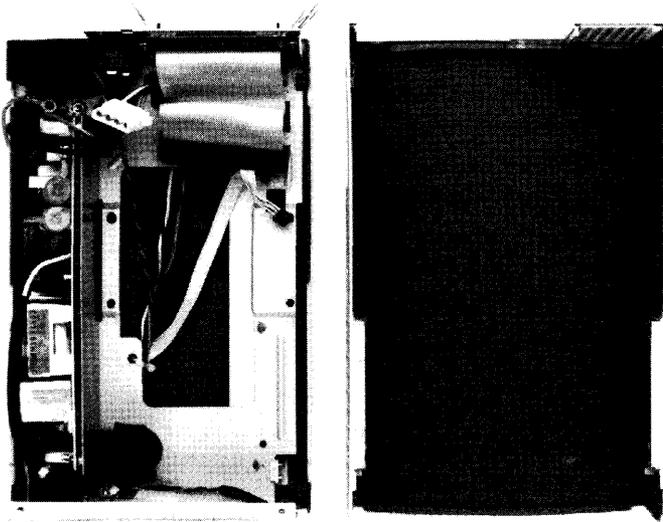
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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**Apple External Hard Drive  
Enclosure/Power Supply**

**Apple P/N 661-0032**



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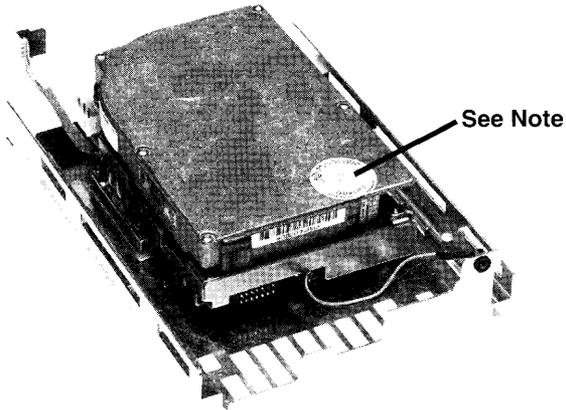
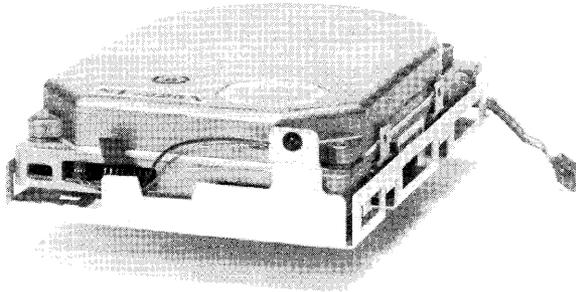
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Hard Disk 20SC  
20 MB External HDA

Apple P/N 661-0342



**NOTE:** In lieu of an Apple logo, this drive has a label marked "AXX" in the location indicated.

Return the hard disk with the HDA frame, LED cable, and SCSI select cable 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 SCSI Hard Drives manual in *Service Source*.

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Hard Disk 20

HDA 20 MB, 2.5", 17 mm, HDI-30

Apple P/N 661-1622

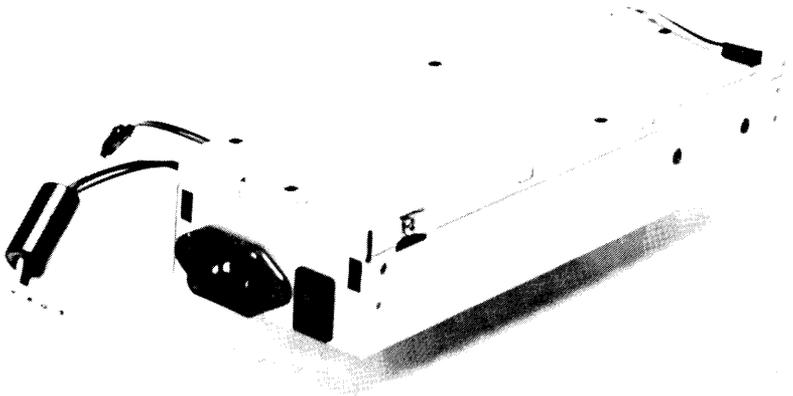


**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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Hard Disk 20SC  
**Power Supply**

**Apple P/N 661-0343**



**NOTE:** The Hard Disk 20SC power supply has three cables that protrude from the case.

**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 SCSI Hard Drives manual in *Service Source*.

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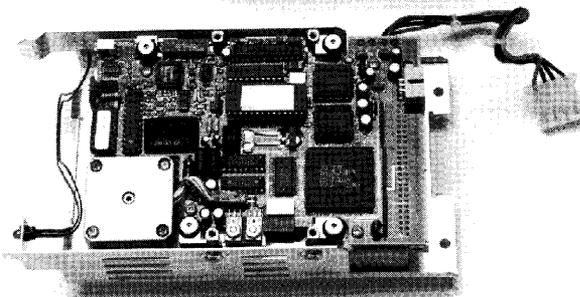
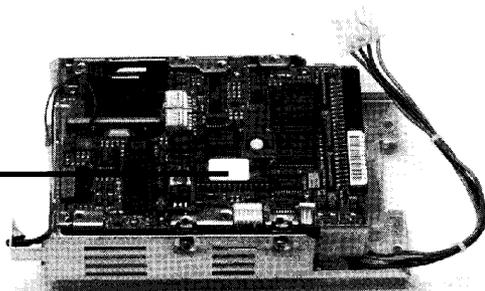
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Hard Disk 20 MB, 3.5"  
**20 MB, 3.5", SCSI HDA**

**Apple P/N 661-0373**

See Note



**NOTE:** The callout in the picture points to the "AXX" label, which substitutes for an Apple logo.

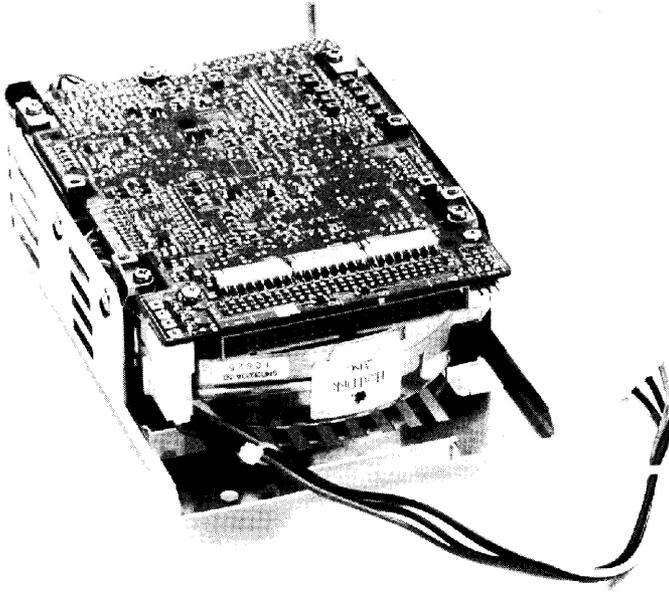
Two different vendors manufacture this HDA. Return both versions in the Macintosh SE frame with LED and power cables, as the picture shows. The non-SCSI 3.5" HDA, 661-0302, has a 26-pin connector; this HDA, 661-0373, has a 50-pin connector.

**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 SCSI Hard Drives manual in *Service Source*.

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Hard Disk 20SC  
**20SC, 3.5", SCSI HDA**

**Apple P/N 661-0612**



**NOTE:** Return this HDA in the Macintosh SE frame with LED and power cables, as the picture shows.

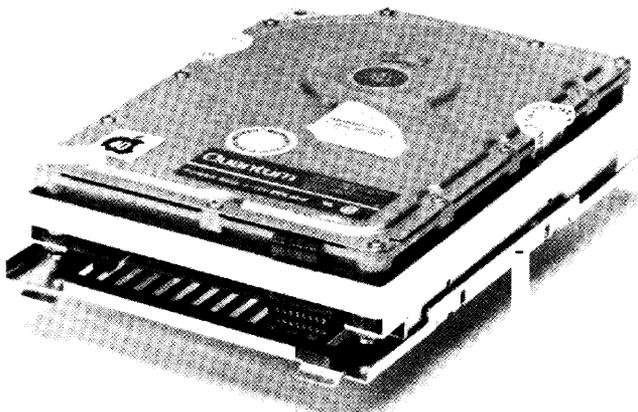
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 40 HDA, 40 MB, 5.25" SCSI

### Apple P/N 661-0391

(When you return P/N 661-0391, Apple ships you P/N 661-1629.)



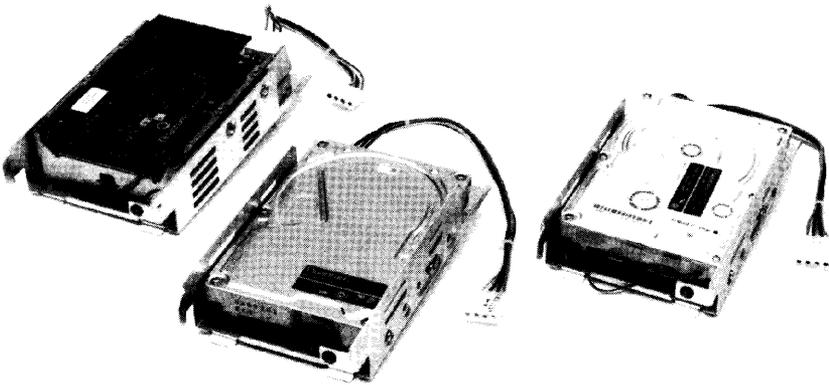
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 40 HDA, 40 MB, 3.5" SCSI

Apple P/N 661-1629



**NOTE:** There are a variety of ways to return this drive, depending on your CPU. When you must switch carriers between this half-height drive and a replacement 1-inch drive, tightening the damaged drive into the replacement carrier is not possible. Place the damaged drive, unbolted, into the replacement carrier for return to Apple.

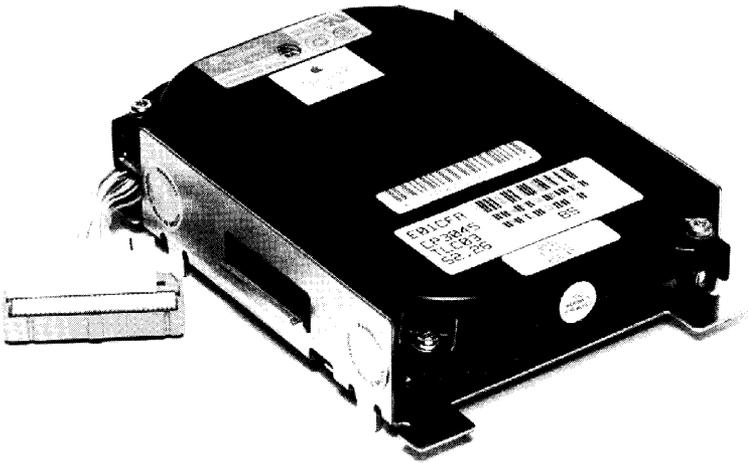
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

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

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Apple Hard Disk 40  
**HDA, 40 MB, 3.5" SCSI**

**Apple P/N 661-0540**



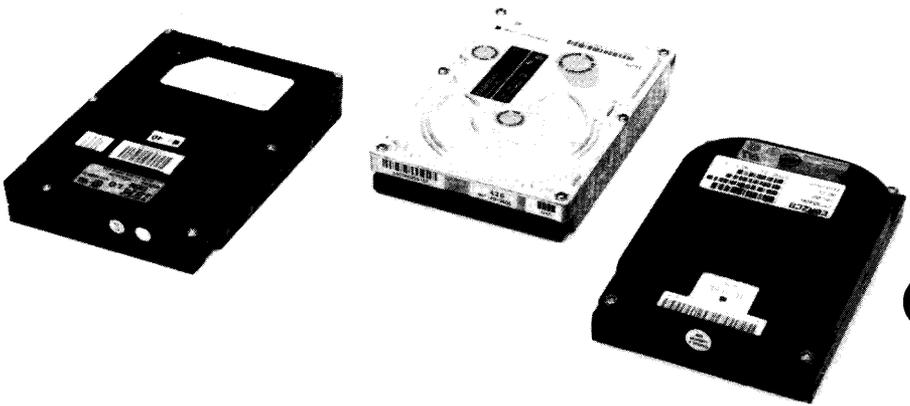
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 40  
HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0614



**NOTE:** Remove the drive from its carrier 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 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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 40  
HDA, 40 MB, 2.5" SCSI, PowerBook 100

Apple P/N 661-1632



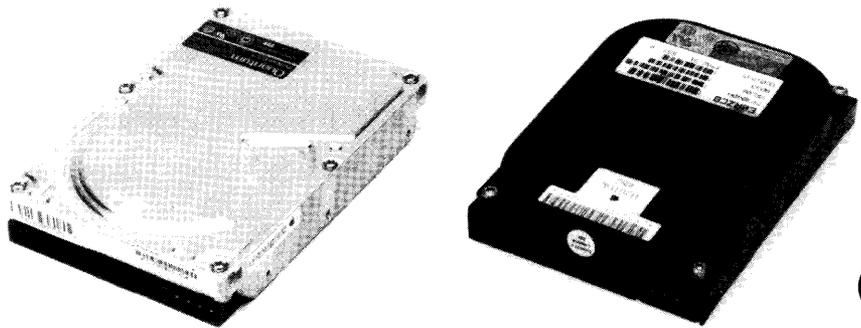
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 40  
HDA, 40 MB, 3.5" SCSI

Apple P/N 661-0112



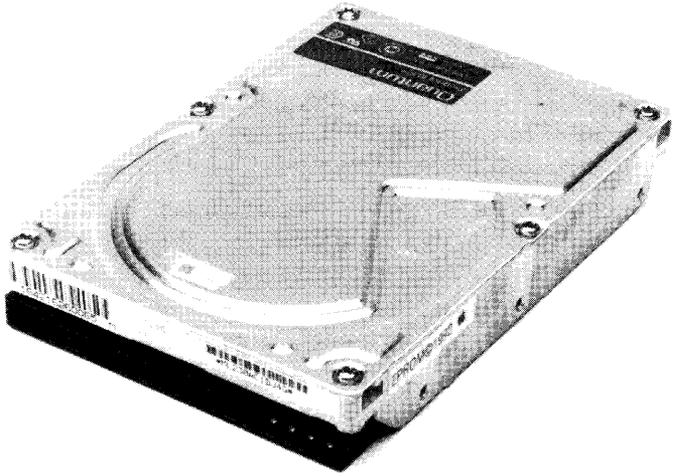
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 40  
**HDA, 40 MB, 3.5" SCSI**

**Apple P/N 661-0773**



**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 SCSI Hard Drives manual in *Service Source*.

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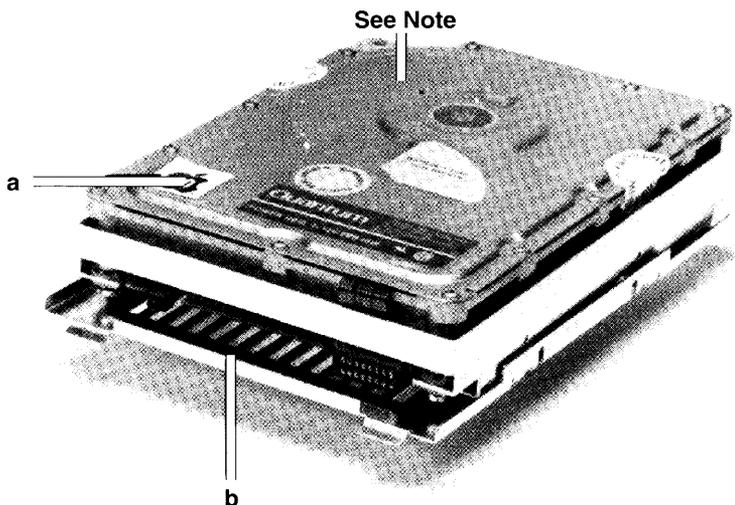
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Apple Hard Disk 80SC  
**80 MB, 5.25", SCSI HDA**

**Apple P/N 661-0411**

(When you return P/N 661-0411, Apple ships you P/N 661-0600.)

**Apple P/N 661-0457 with A/UX**



**NOTE:** The 5.25" 80 MB SCSI with A/UX has an A/UX label located on the upper-left corner.

**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 SCSI Hard Drives manual in *Service Source*.

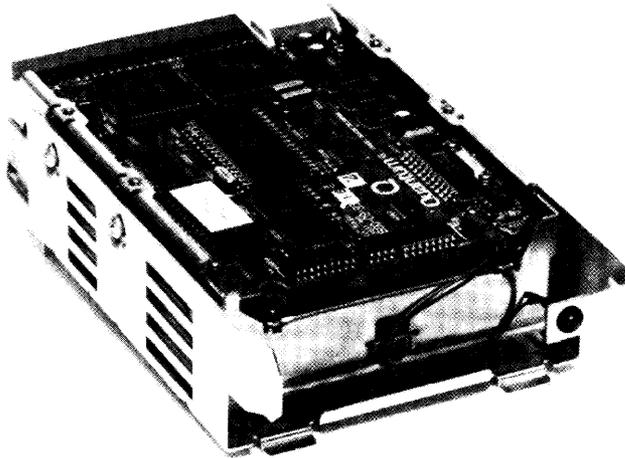
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## Apple Hard Disk 80 80 MB, 3.5", SCSI HDA

### Apple P/N 661-0561 with A/UX 1.1

(When you return P/N 661-0561, Apple ships you P/N 661-0613.)

### Apple P/N 661-0613 with A/UX 2.0



**NOTE:** The 80 MB 3.5" SCSI HDA 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 HDA as the LED.

Return the hard drive with the LED cable attached.

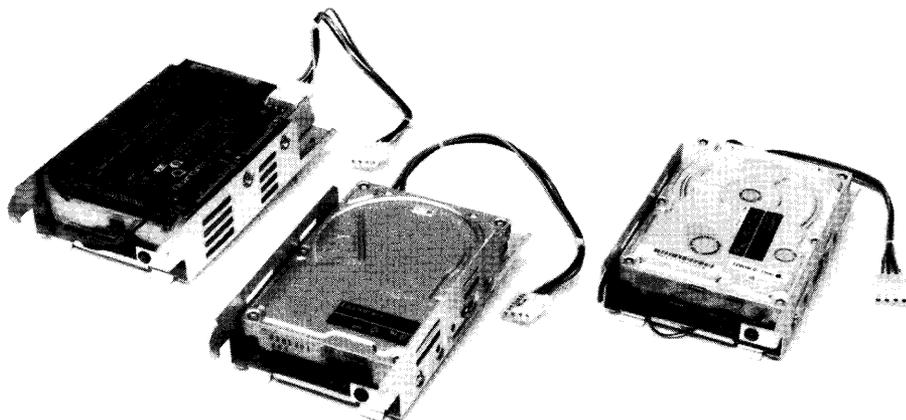
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

**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.

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Apple Hard Disk 80  
**HDA, 80 MB, 3.5" SCSI**

**Apple P/N 661-0600**



**NOTE:** Return the hard disk with the LED cable attached.

These three drives are completely interchangeable; only the physical appearances differ.

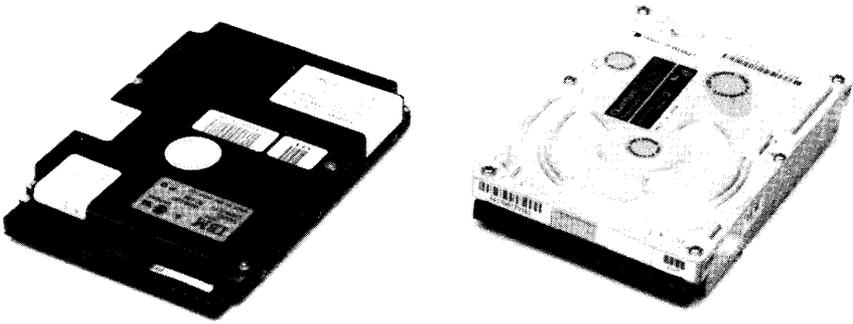
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 80  
HDA, 80 MB, 3.5", SCSI

Apple P/N 661-0624



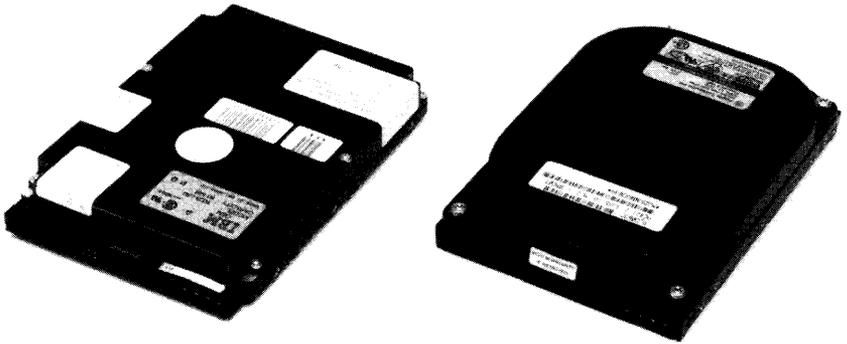
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 80  
**HDA, 80 MB, 3.5" SCSI**

**Apple P/N 661-0774**



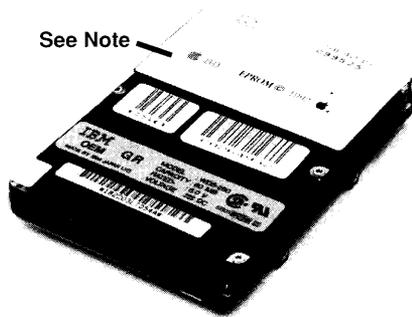
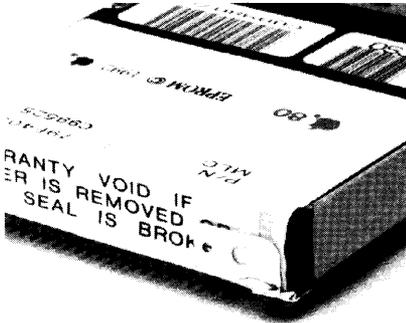
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 80 HDA, 80 MB, 2.5" SCSI

Apple P/N 661-1643



**NOTE:** To distinguish this 80 MB HDA from Apple P/N 661-0796, look at the upper-left corner of the drive. Apple P/N 661-1643 has a ground tab; Apple P/N 661-0796 does not.

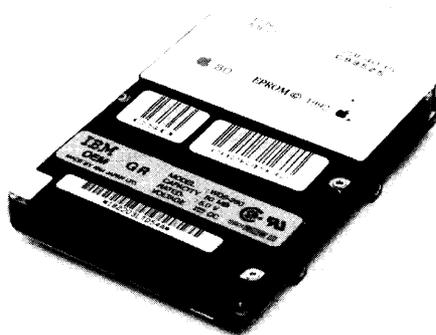
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 80 HDA, 80 MB, 2.5" SCSI

Apple P/N 661-0796



**NOTE:** To distinguish this 80 MB HDA from Apple P/N 661-1643, look at the upper-left corner of the drive. Apple P/N 661-0796 does not have a ground tab; Apple P/N 661-1643 does.

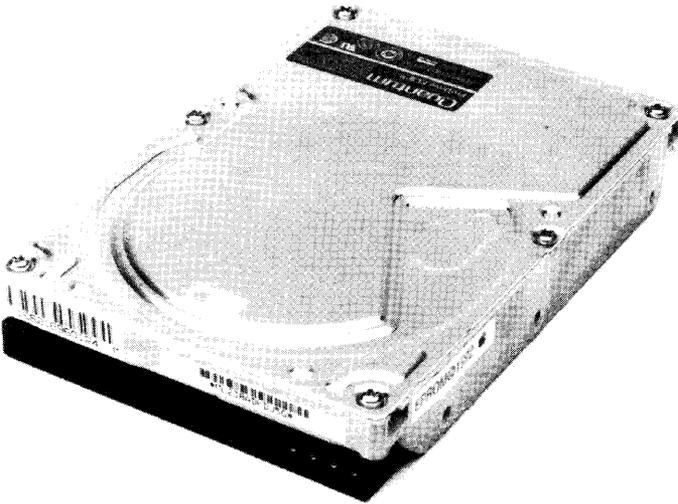
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 80  
HDA, 80 MB, 3.5" SCSI

Apple P/N 661-0111



**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.

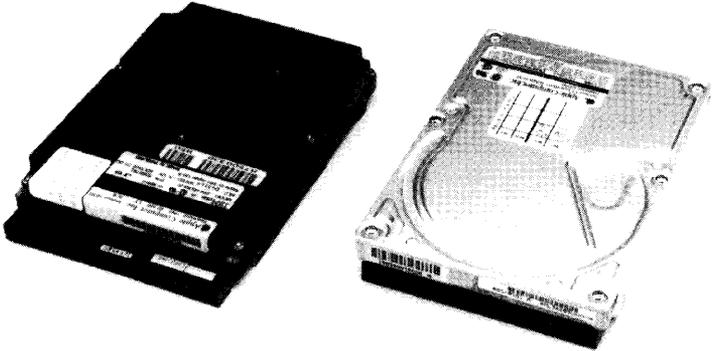
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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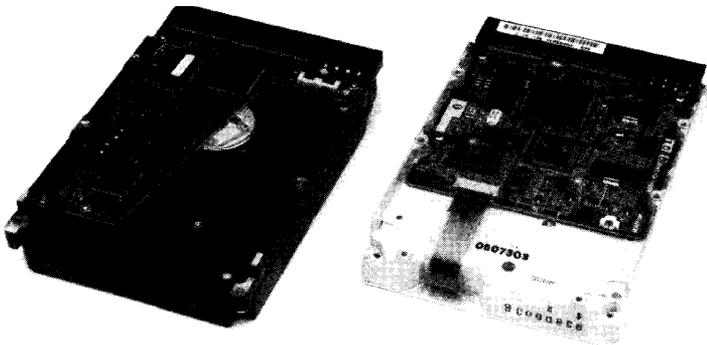
Apple Hard Disk 80  
HDA, 80 MB, 3.5", SCSI, Internal

Apple P/N 661-0469

Top



Bottom



**NOTE:** The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 80 MB, 3.5", SCSI internal drive by the number *80 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.

**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 SCSI Hard Drives manual in *Service Source*.

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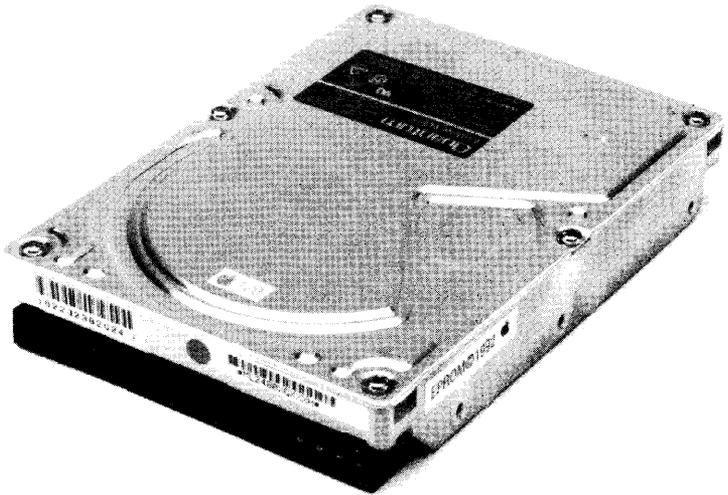
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Apple Hard Disk 120  
HDA, 120 MB, 3.5" SCSI

Apple P/N 661-0021



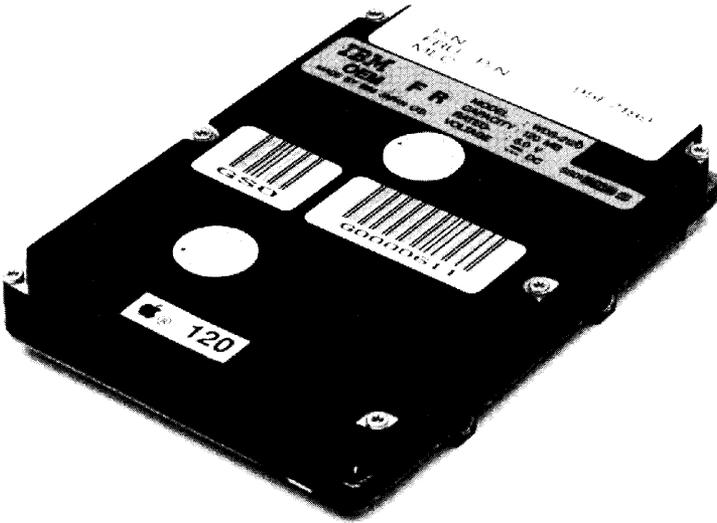
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 120  
HDA, 120 MB, 2.5", SCSI

Apple P/N 661-0772



**NOTE:** Return this HDA with the screw-in feet attached.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 160  
**HDA, 160 MB, 2.5" SCSI**

**Apple P/N 661-0060**



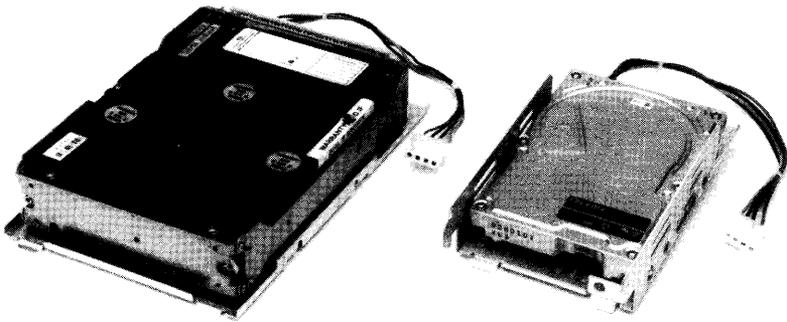
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 160  
HDA, 160 MB, 5.25" SCSI

Apple P/N 661-0601  
Apple P/N 661-1638 with A/UX 2.0.1  
Apple P/N 661-1640



**NOTE:** You can identify P/N 661-0601 by the vendor label number P/N 77748206 on the back of the drive.

P/N 661-1638 has a *Version 2.0.1* label on the drive.

P/N 661-1640 has the vendor label number P/N 77748240 on the back of the drive.

**When you return one of these drives, you may receive in exchange a 3.5" drive of the same capacity.**

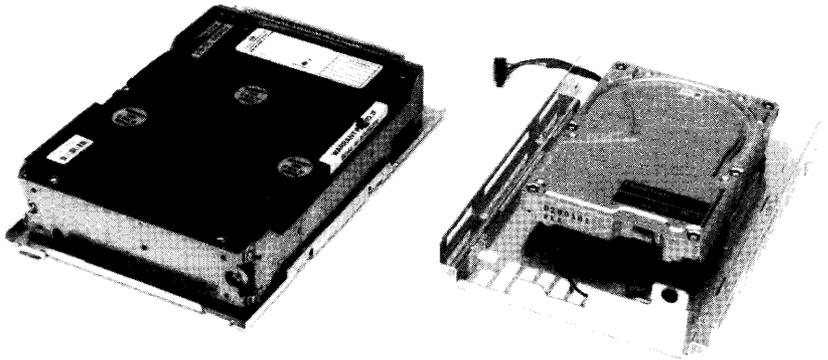
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 160  
**HDA, 160 MB, 5.25" External SCSI**

**Apple P/N 661-0584**



**NOTE:** You can identify this drive by the vendor label number P/N 77748226 on the back of the drive.

**When you return one of these drives, you may receive in exchange a 3.5" drive of the same capacity.**

**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 SCSI Hard Drives manual in *Service Source*.

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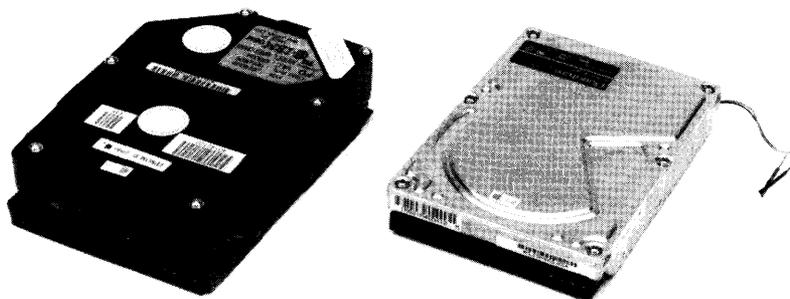
Apple Hard Disk 160  
HDA, 160 MB, 3.5" SCSI

**Apple P/N 661-0625**

(When you return P/N 661-0625, Apple ships you P/N 661-1641.)

**Apple P/N 661-1641**

**Apple P/N 661-1639 with A/UX 2.0.1**



**NOTE:** The 3.5" SCSI HDA with A/UX has a *Version 2.0.1* label on the drive.

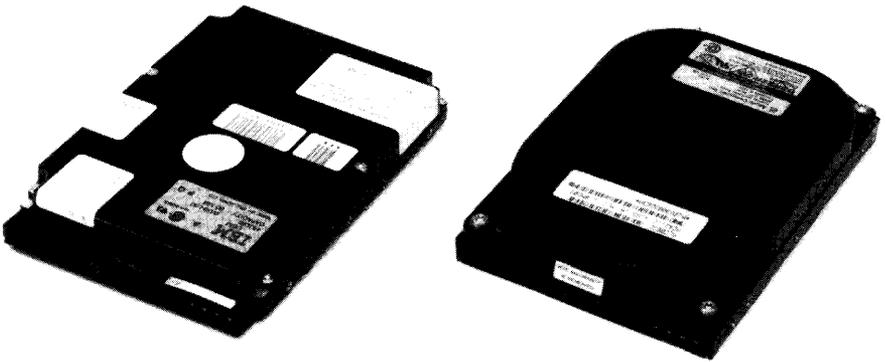
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 160  
**HDA, 160 MB, 3.5", SCSI**

**Apple P/N 661-1647**



**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.

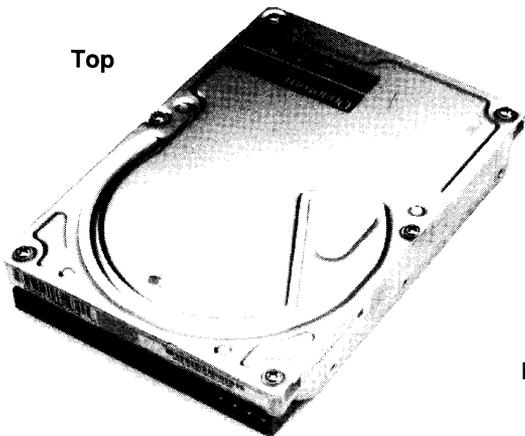
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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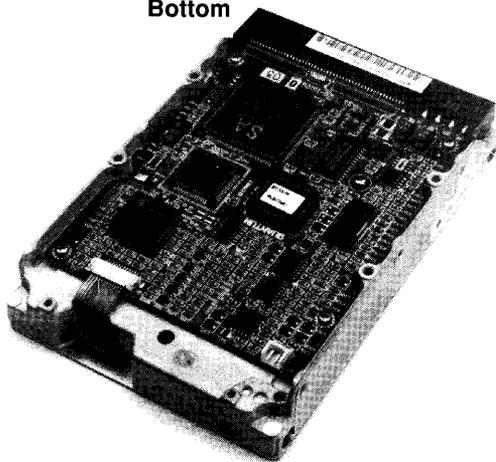
Apple Hard Disk 160  
HDA, 160 MB, 3.5", SCSI

Apple P/N 661-1649

Top



Bottom



**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.

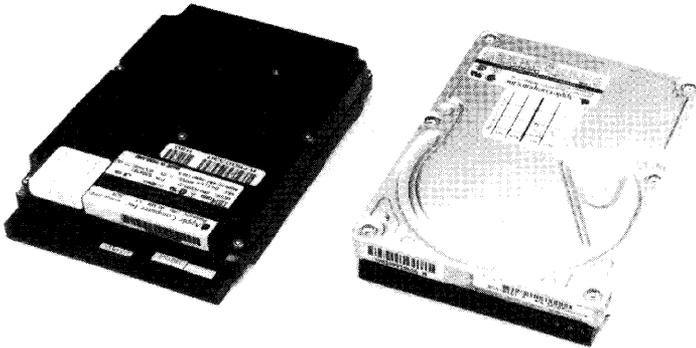
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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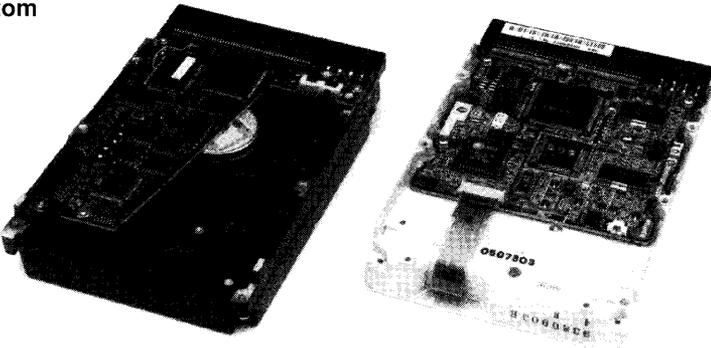
Apple Hard Disk 160  
HDA, 160 MB, 3.5", SCSI, Internal

Apple P/N 661-0503

Top



Bottom



**NOTE:** The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 160 MB, 3.5", SCSI internal drive by the number *160 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.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 160  
HDA, 160 MB, 2.5", SCSI

Apple P/N 661-0015



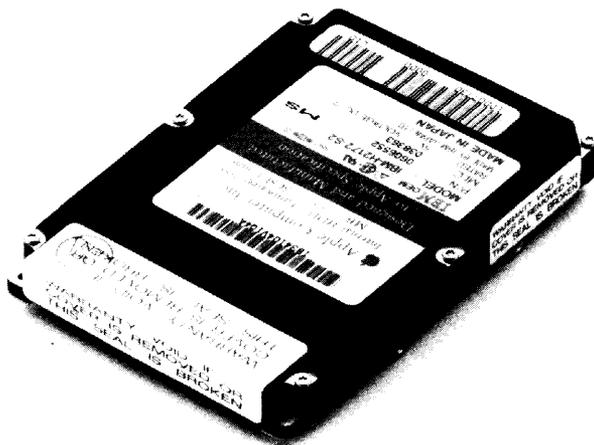
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

---

Apple Hard Disk 160  
HDA, 160 MB, 2.5", SCSI

Apple P/N 661-0778



**NOTE:** The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 160 MB, 2.5", SCSI drive by the number *160 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.

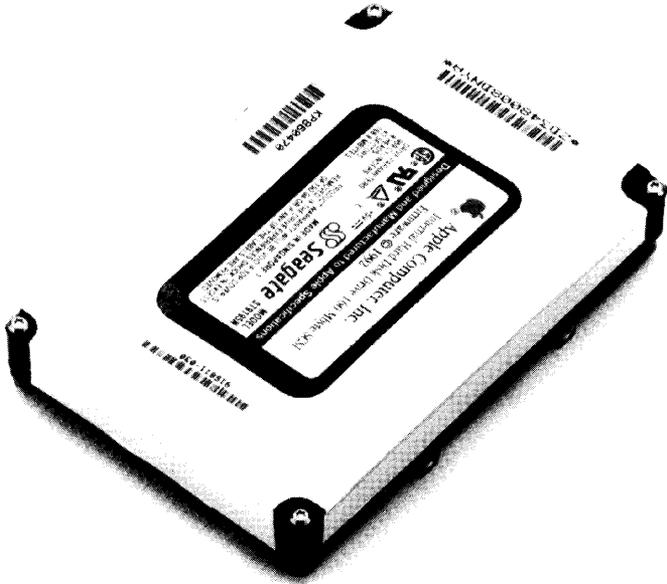
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.



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Apple Hard Disk 200  
HDA, 200 MB, 2.5", SCSI

Apple P/N 661-0779



**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 230  
**HDA, 230 MB, 3.5", SCSI**

**Apple P/N 661-1637**



**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 240  
**HDA, 240 MB, 2.5" SCSI**

**Apple P/N 661-0014**



**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 SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 240 HDA, 240 MB, 2.5", SCSI

Apple P/N 661-0895



**NOTE:** The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 240 MB, 2.5", SCSI drive by the number *240 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.

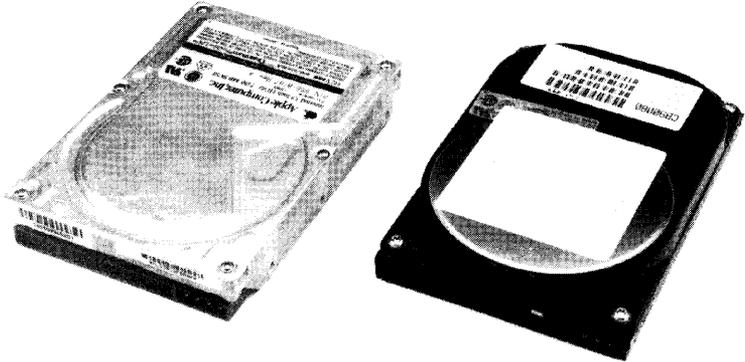
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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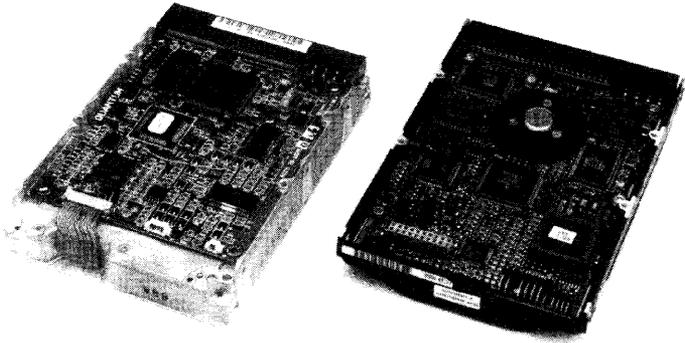
Apple Hard Disk 250  
HDA, 250 MB, 3.5", SCSI, Internal

Apple P/N 661-0890

Top



Bottom



**NOTE:** The Apple Hard Disk 250 MB and 500 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 250 MB, 3.5", SCSI internal drive by the number *250 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.

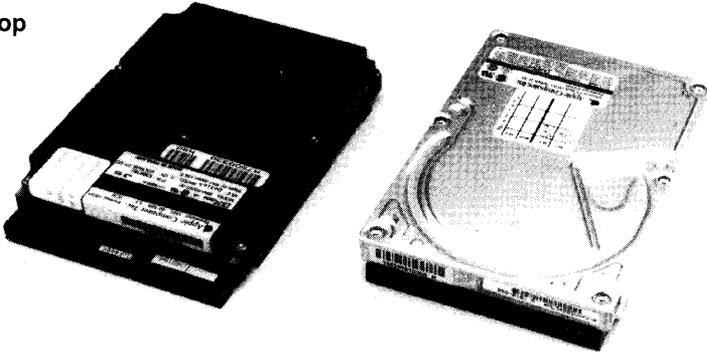
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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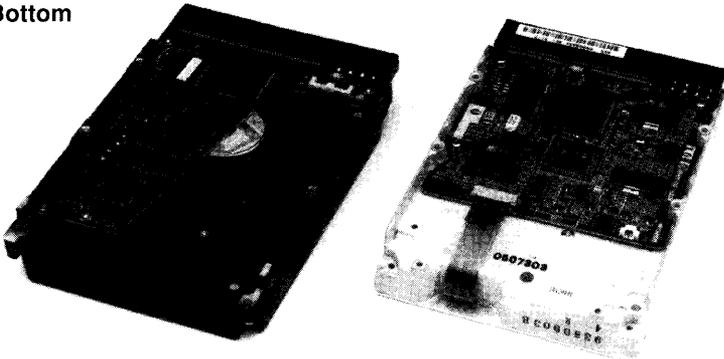
Apple Hard Disk 320  
HDA, 320 MB, 3.5", SCSI, Internal

Apple P/N 661-0505

Top



Bottom



**NOTE:** The Apple Hard Disk 80 MB, 160 MB, and 320 MB, 2.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 320 MB, 2.5", SCSI internal drive by the number *320 MB* on the drive label.

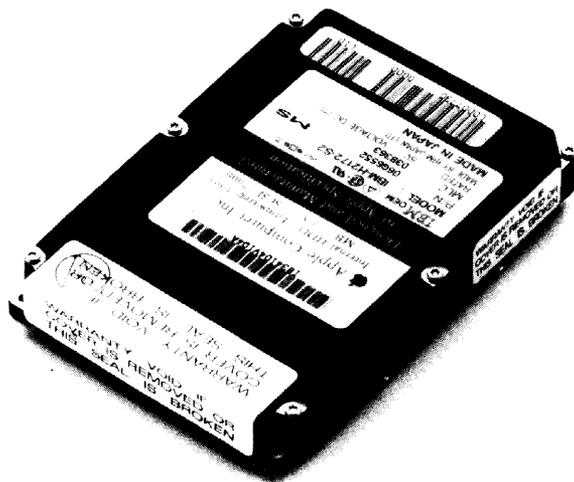
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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## Apple Hard Disk 320 HDA, 320 MB, 2.5", SCSI

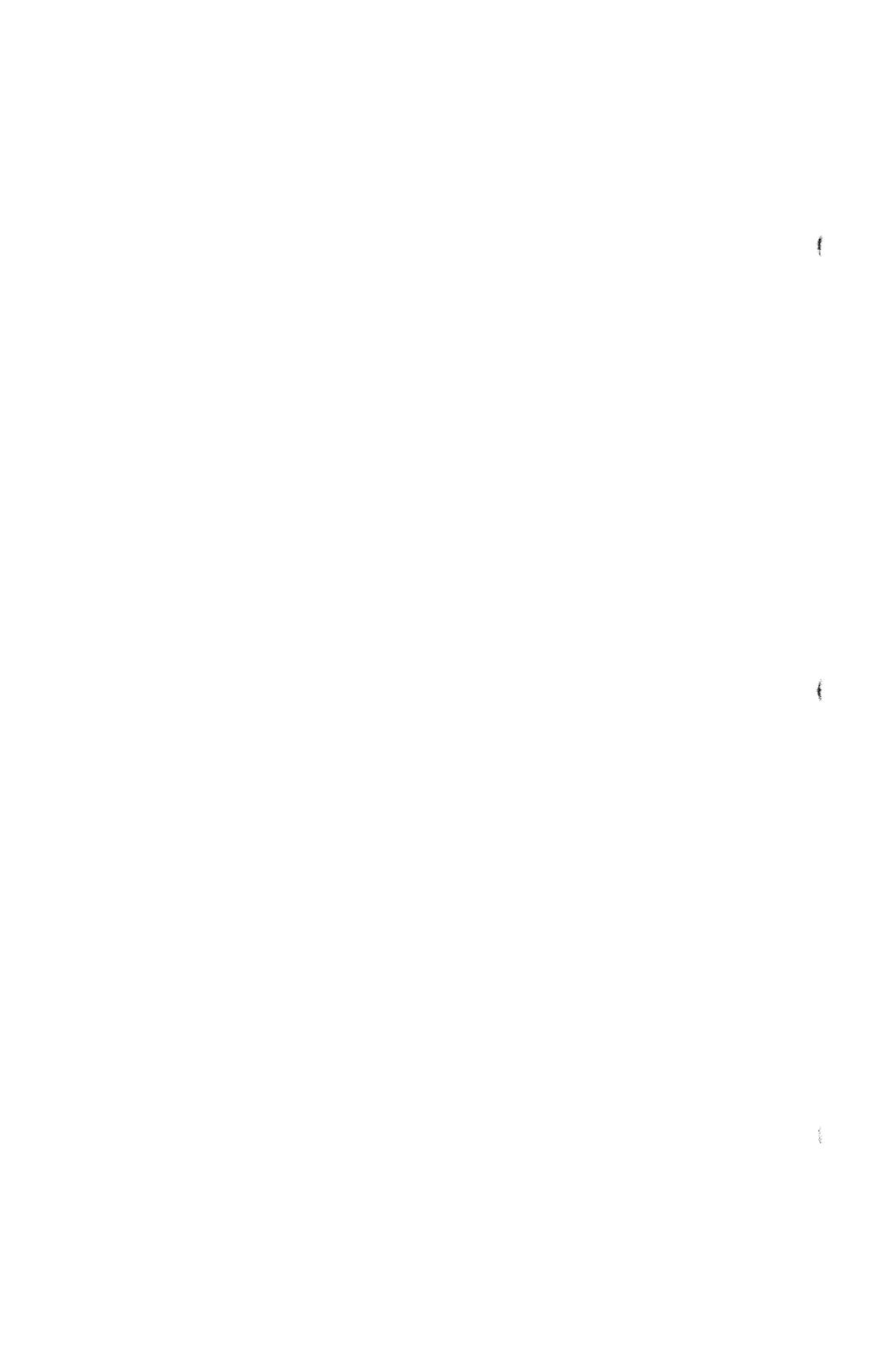
Apple P/N 661-0896



**NOTE:** The Apple Hard Disk 160 MB, 240 MB, and 320 MB, 2.5", SCSI drives are similar. You can identify the Apple Hard Disk 320 MB, 2.5", SCSI drive by the number *320 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.

**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 SCSI Hard Drives manual in *Service Source*.



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Hard Disk 400  
400 MB, 3.5", Internal SCSI HDA

Apple P/N 661-1636



**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 SCSI Hard Drives manual in *Service Source*.

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**Apple Hard Disk 500  
HDA, 500 MB, 3.5", SCSI**

**Apple P/N 661-0781**



**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.

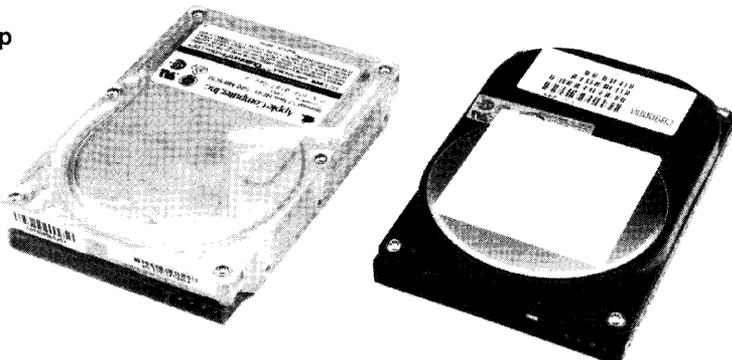
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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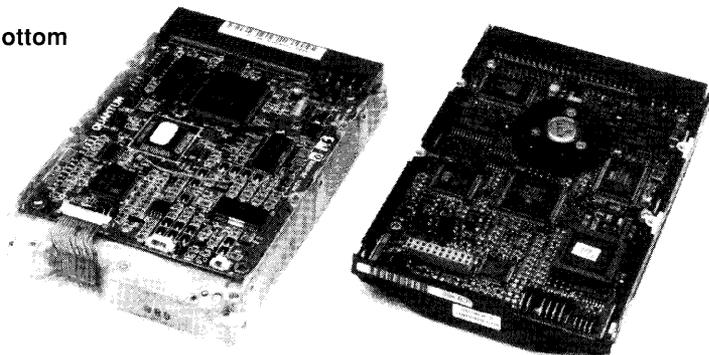
Apple Hard Disk 500  
HDA, 500 MB, 3.5", SCSI, Internal

Apple P/N 661-0891

Top



Bottom



**NOTE:** The Apple Hard Disk 250 MB and 500 MB, 3.5", SCSI internal drives are similar. You can identify the Apple Hard Disk 500 MB, 3.5", SCSI 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.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 1 GB  
HDA, 1 GB, 3.5", SCSI

Apple P/N 661-0780



**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.

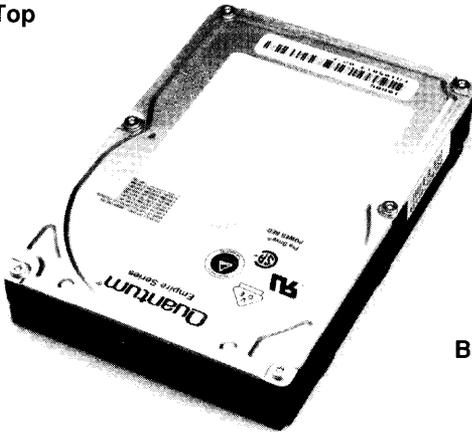
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the SCSI Hard Drives manual in *Service Source*.

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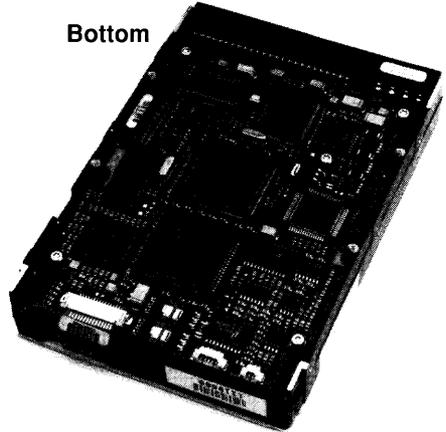
Apple Hard Disk 1 GB  
HDA, 1 GB, 3.5", SCSI

Apple P/N 661-0065

Top



Bottom



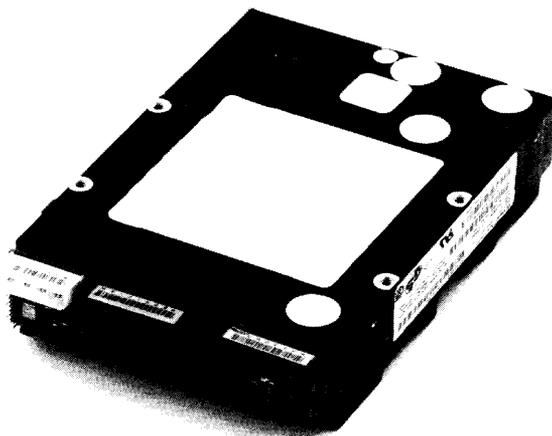
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

**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 SCSI Hard Drives manual in *Service Source*.

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Apple Hard Disk 2 GB  
HDA, 2 GB, 3.5", SCSI

Apple P/N 661-0832



**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 SCSI Hard Drives manual in *Service Source*.

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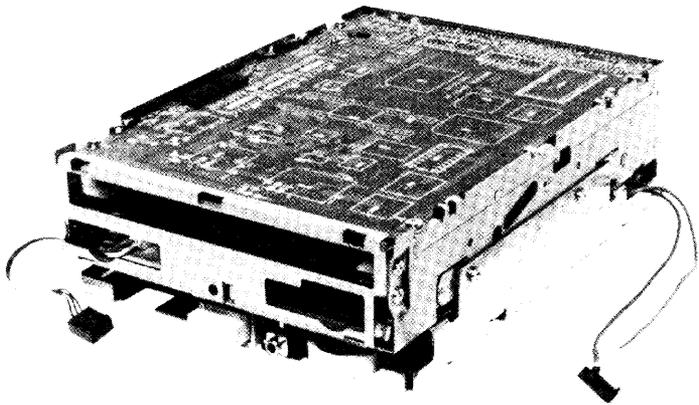
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## AppleCD SC Drive Mechanism

**Apple P/N 661-0110**



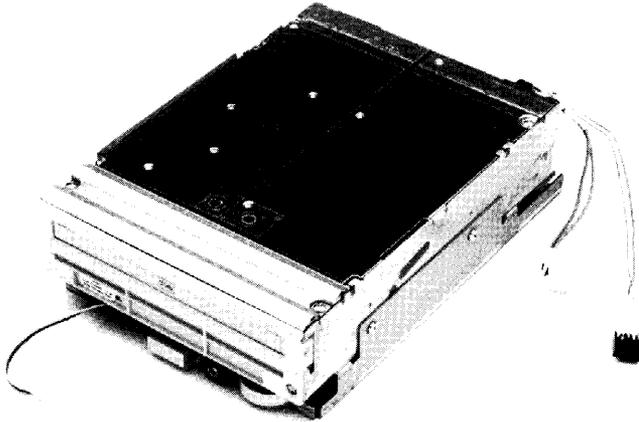
**NOTE:** Return the AppleCD SC drive mechanism with the SCSI select cable attached.

**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/SC Plus manual in *Service Source*.

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## AppleCD SC Plus Drive Mechanism

Apple P/N 661-0671



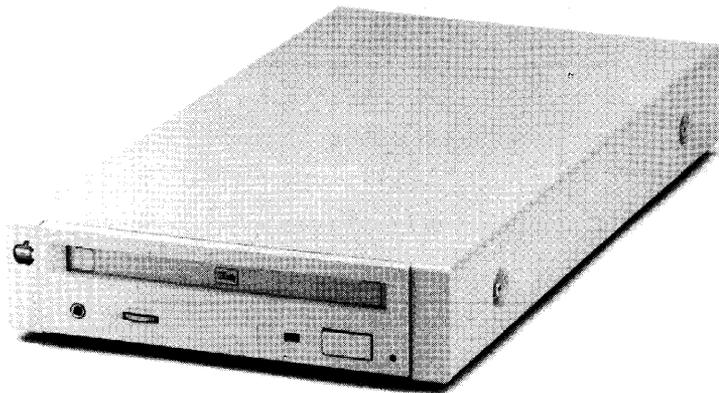
**NOTE:** Return the AppleCD SC Plus drive mechanism with the LED, SCSI select, and rear audio cables attached.

**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/SC Plus manual in *Service Source*.

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AppleCD 150  
Drive

Apple P/N 661-1645



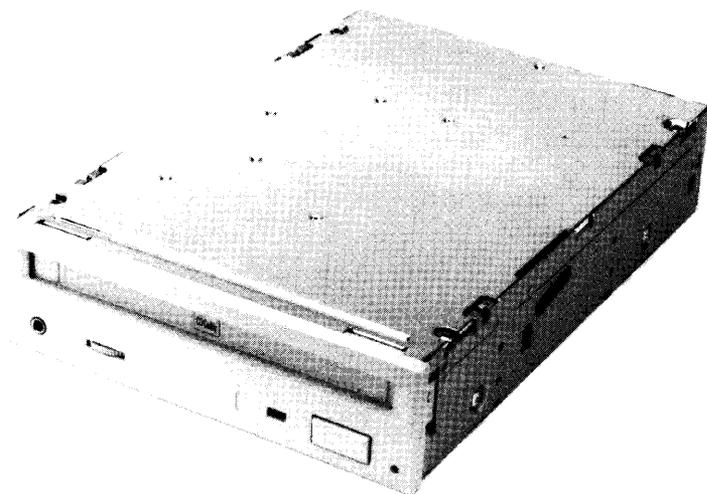
**NOTE:** Do not return cables, software, or manuals with this module.

**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*.

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## AppleCD 150 Drive Mechanism

Apple P/N 661-1705

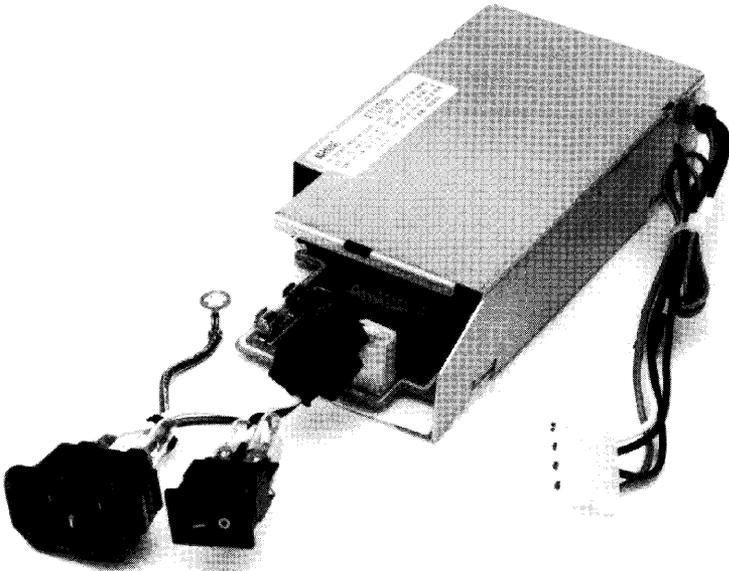


**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

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AppleCD 150  
**Power Supply**

**Apple P/N 661-1648**



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AppleCD 300  
**Drive Mechanism**

**Apple P/N 661-1646**

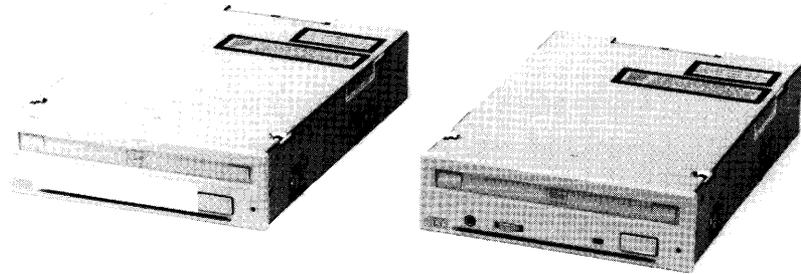


**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

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AppleCD 300  
Drive Mechanism, Internal

Apple P/N 661-0023

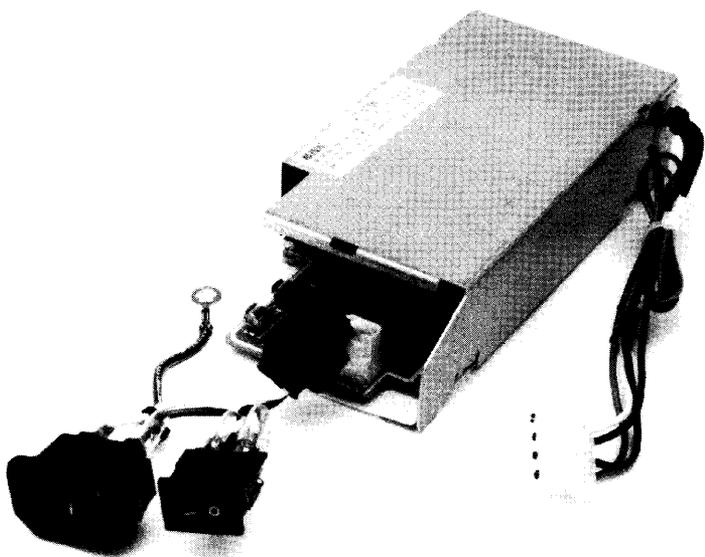


**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge. For more information, select the notes icon in the Illustrated Parts chapter of the AppleCD 150/300 manual in *Service Source*.

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**AppleCD 300  
Power Supply**

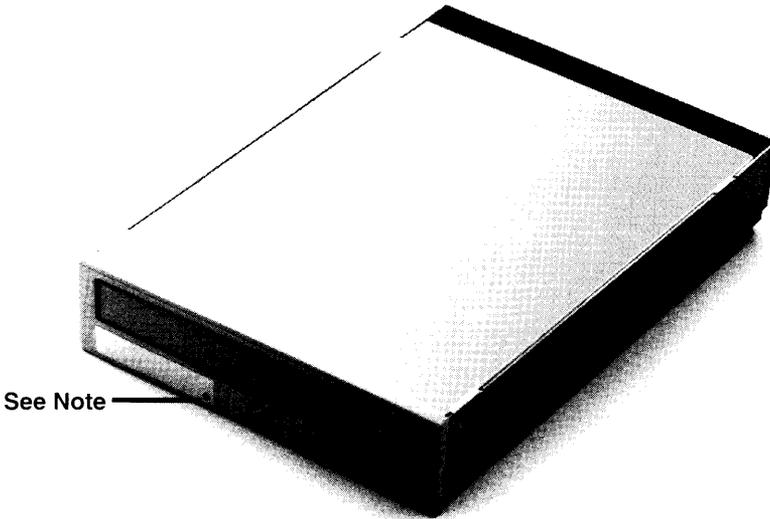
**Apple P/N 661-1706**



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AppleCD 300 Plus  
Drive Mechanism, Internal, Trayload

Apple P/N 661-0222



**NOTE:** There is no headphone PCB in this location.

**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 SCSI Hard Drives manual in *Service Source*.

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AppleCD 300e Plus  
Drive Mechanism, External

Apple P/N 661-0225



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

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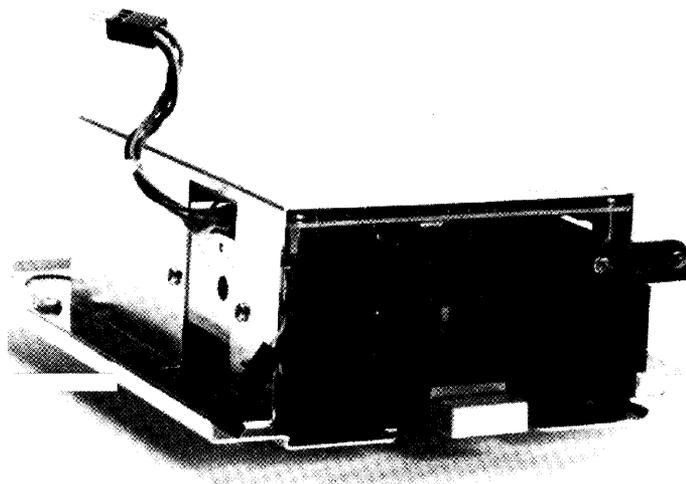
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Apple Tape Backup  
**Mechanism 40 MB**

**Apple P/N 661-0392**



**NOTE:** Return the Apple tape backup mechanism with the metal frame 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 Tape Backup 40SC manual in *Service Source*.

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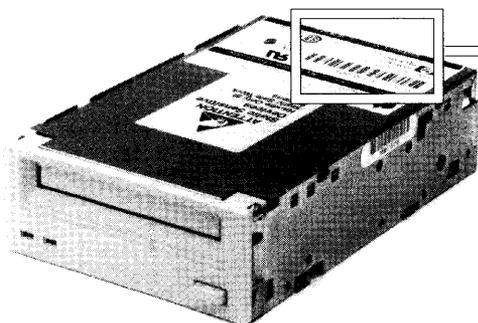
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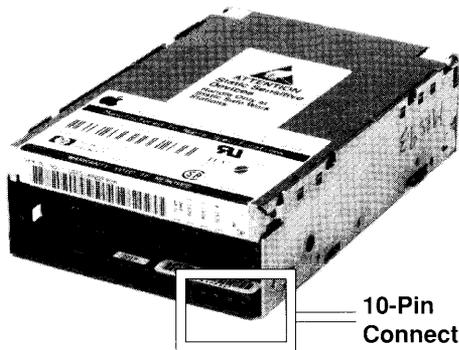
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## Apple Tape Drive, 2 GB, DDS-DC SCSI

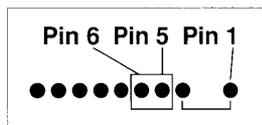
Apple P/N 661-0795



**Note:** The Apple 2 GB, DDS-DC, and the Apple DAT, DDS-2, 120M tape drives are similar. You can identify the Apple 2 GB, DDS-DC SCSI tape drive by the number *2 GB* on the drive label.



10-Pin  
Connector



**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.

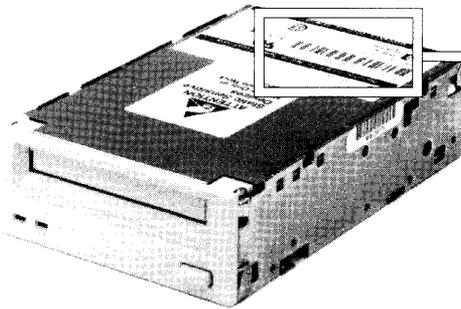
**WARRANTY:** The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity and EPROM label, or labels that say "Warranty Void If Seal Is Broken" have been tampered with or removed.

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

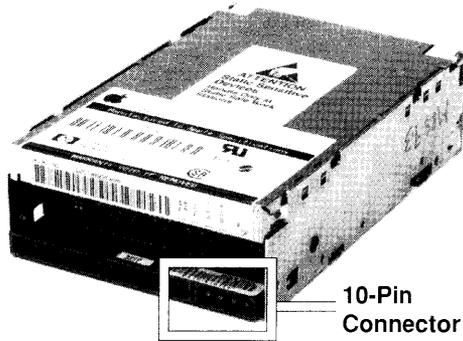
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# Apple Tape Drive, DAT, DDS-2, 120M

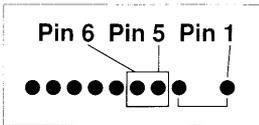
## Apple P/N 661-0039



**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.



10-Pin  
Connector



**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 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.

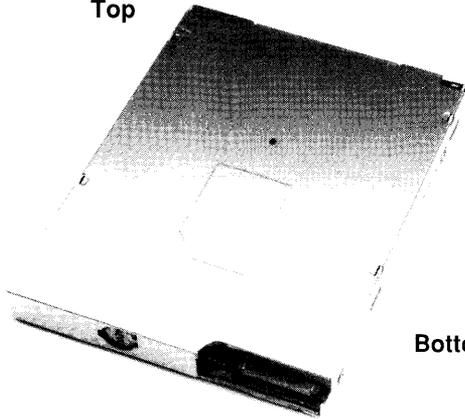
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.

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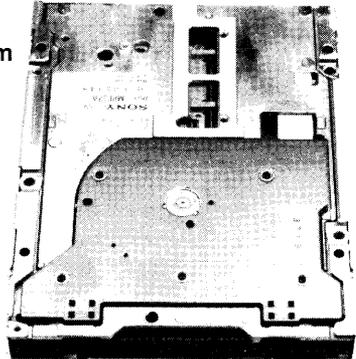
## PowerBook 520/540 Series Floppy Drive Mechanism

Apple P/N 661-0061

Top



Bottom



**NOTE:** The PowerBook 520/540 floppy drive mechanism 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.

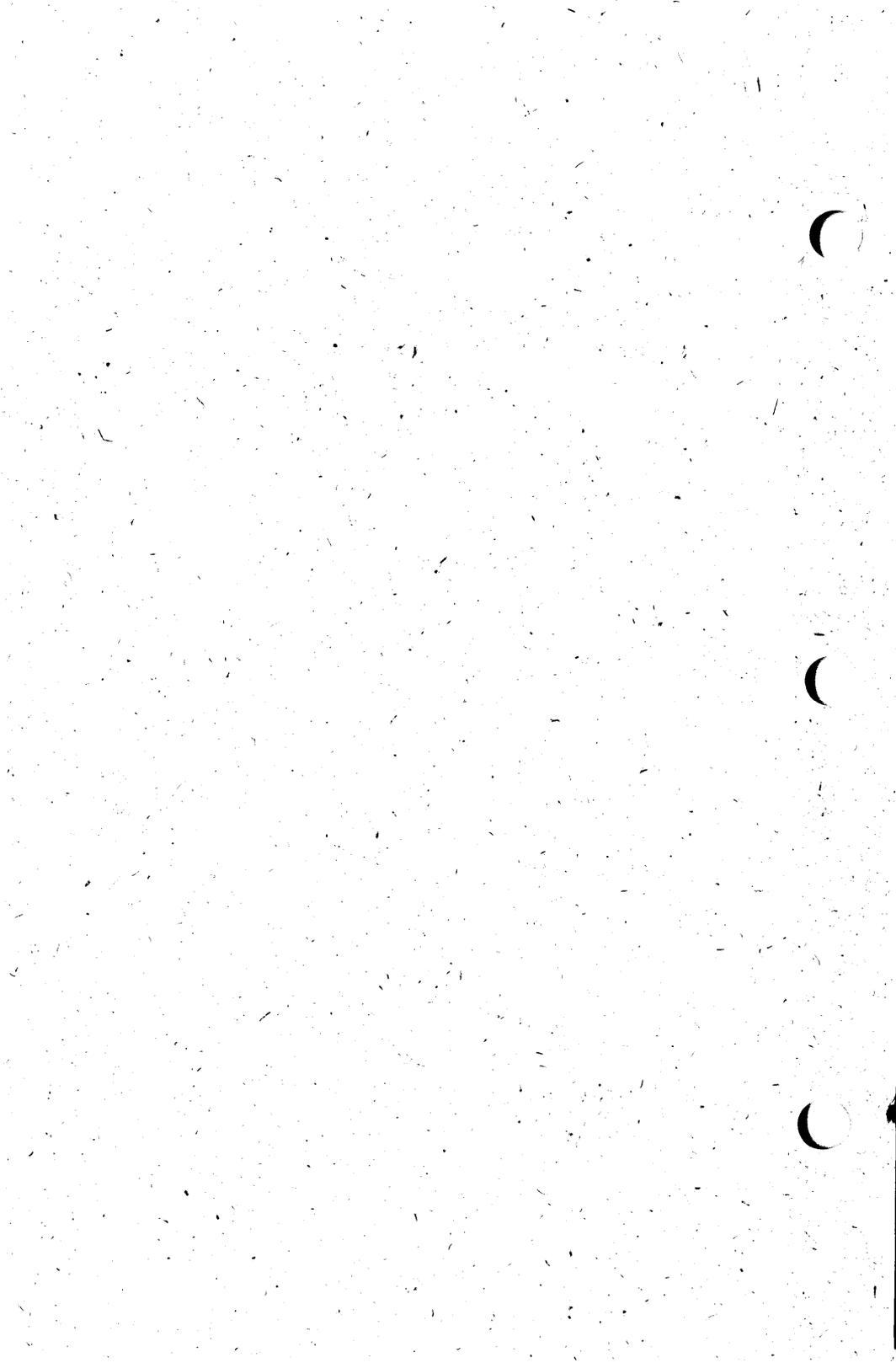
**APPLE REQUIRES SPECIAL PACKAGING;** failure to comply with these requirements may result in a packaging noncompliance charge.

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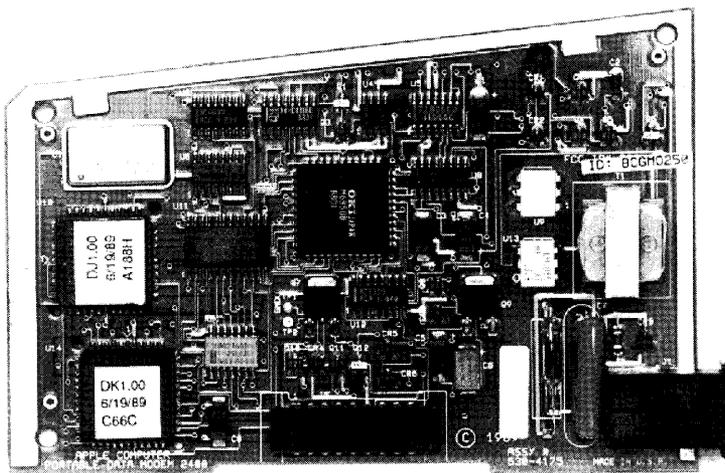
# Data Communications



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Macintosh Portable  
**Domestic Modem, Internal**

**Apple P/N 661-0468**

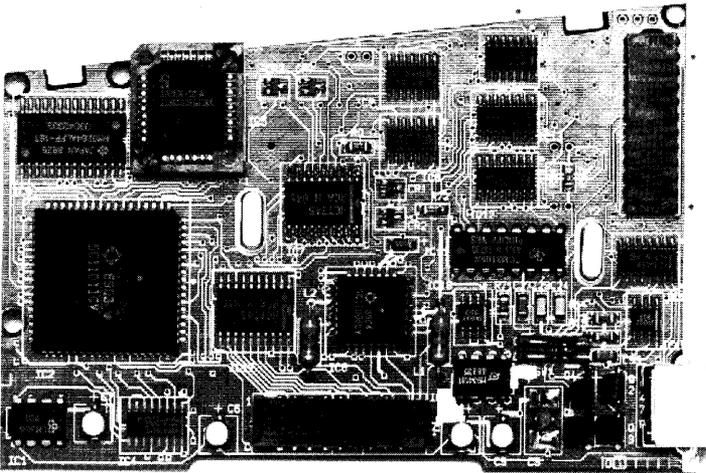


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## Macintosh Portable Int'l XP 2400 Card

### Apple P/N 661-0465

(When you return P/N 661-0465, Apple ships you P/N 661-0623.)

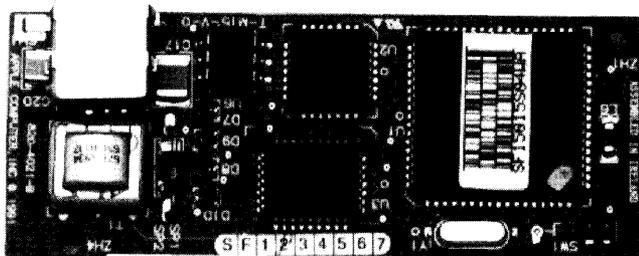


**NOTE:** This item is not available in the United States.

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**PowerBook 100/140/145/160/165c/170/180c  
Domestic Modem, 2400 Baud, Internal**

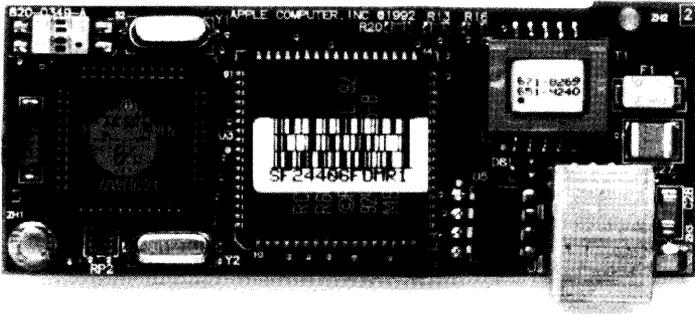
**Apple P/N 661-1621**



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**PowerBook 160/165/165c/180/180c  
Express Modem, 14.4 Baud**

**Apple P/N 661-0786**



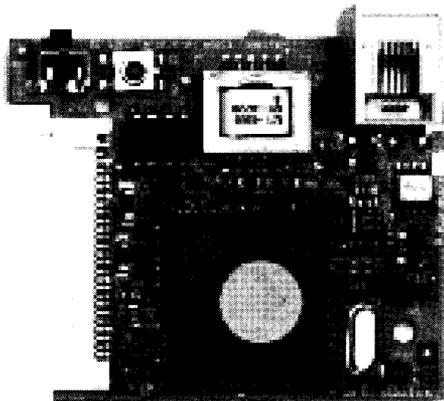
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PowerBook Duo 210/230

**Modem, 14.4 Baud**

**Apple P/N 661-1665 (Domestic)**

**Apple P/N 661-1662 (International)**



**NOTE:** The PowerBook Duo 210/230 domestic modem has an RJ-11 connector. The PowerBook Duo 210/230 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.

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PowerBook 520/540 Series  
**Modem, International**

**Apple P/N 661-0106**

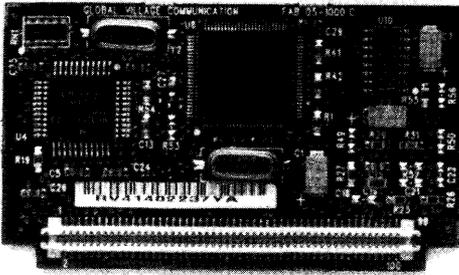
**Photograph not available  
at the time of printing**

**NOTE:** The US and International versions of the PowerBook 520/540 Series modem are similar. The PowerBook 520/540 Series US modem has the label "Global Village Communication" printed at the top edge of the modem; the International version does not.

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## PowerBook 520/540 Series Modem, US

Apple P/N 661-0107

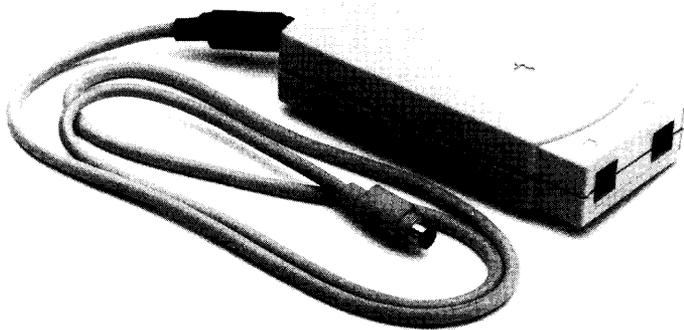


**NOTE:** The US and International versions of the PowerBook 520/540 Series modem are similar. You can identify the PowerBook 520/540 Series US modem by the label "Global Village Communication" printed at the top edge of the modem.

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GeoPort  
**Telecom Adapter**

**Apple P/N 661-1703**



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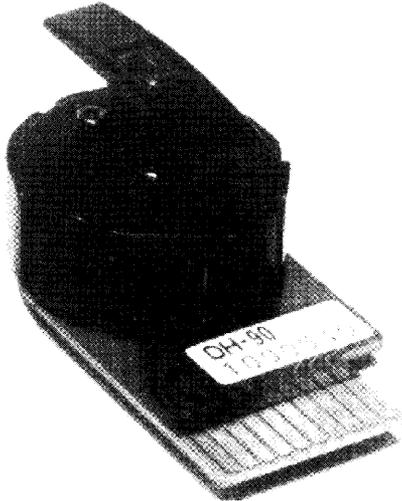
# Printers



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**ImageWriter II and II/L  
Print Head**

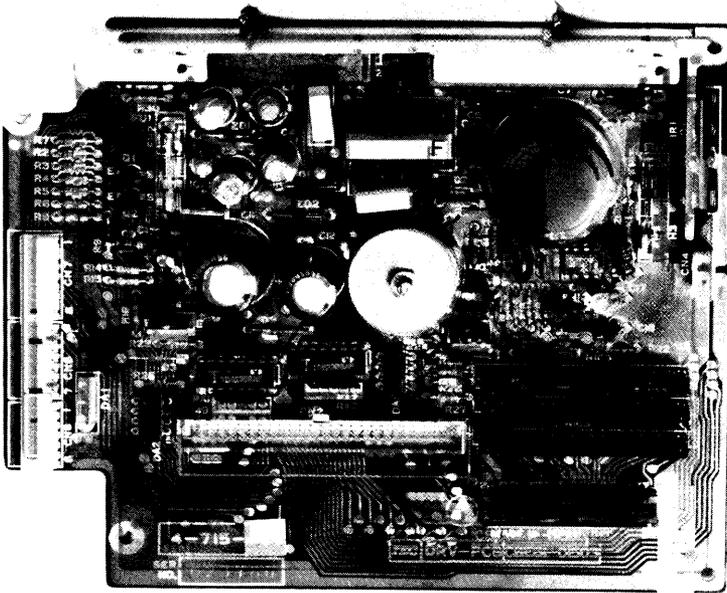
**Apple P/N 661-0316**



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ImageWriter II  
**Drive Board**

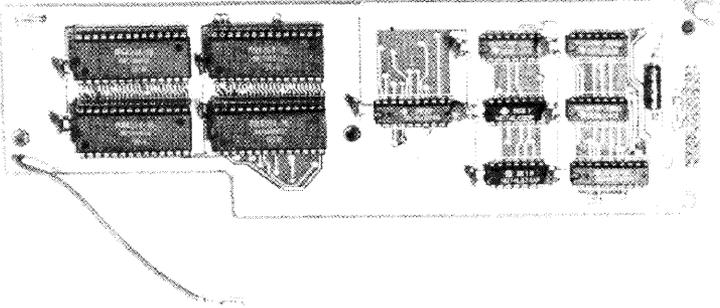
**Apple P/N 661-0303**



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**ImageWriter II  
32K Option Board**

**Apple P/N 661-0319**



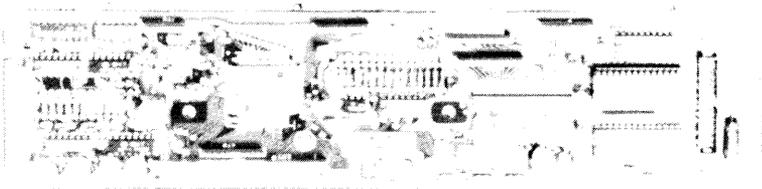
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# ImageWriter II

## Main Logic Board

### Apple P/N 661-0304

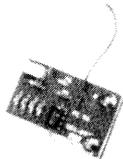
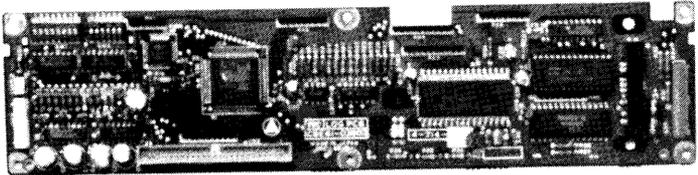
(When you return P/N 661-0304, Apple ships you P/N 661-0413.)



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ImageWriter II  
**Main Logic Board**

**Apple P/N 661-0413**



**NOTE:** These two versions of the logic board are functionally equivalent and interchangeable. When returning the bottom logic board to Apple, please be sure to include the daughterboard.

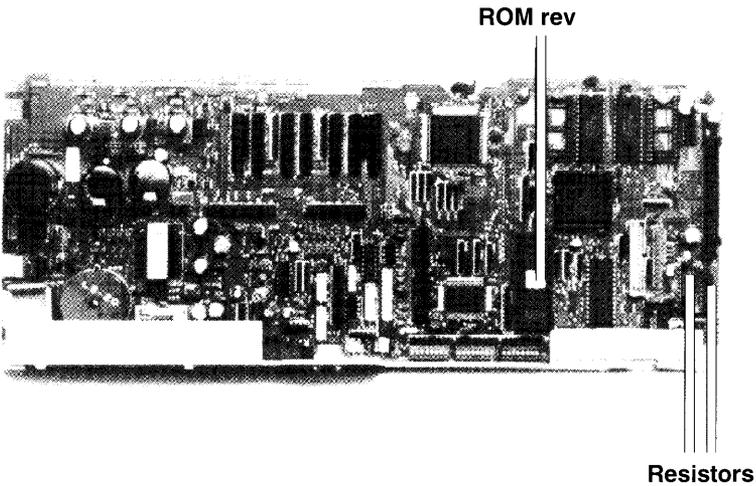
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# ImageWriter LQ

## Main Logic Board

### Apple P/N 661-0404

(When you return P/N 661-0404, Apple ships you P/N 661-0563.)



**NOTE:** ROM Revision is noted on the chip and/or on its resistor between IC22 and IC23:

661-0404 is Rev. 01

661-0541 is Rev. 02

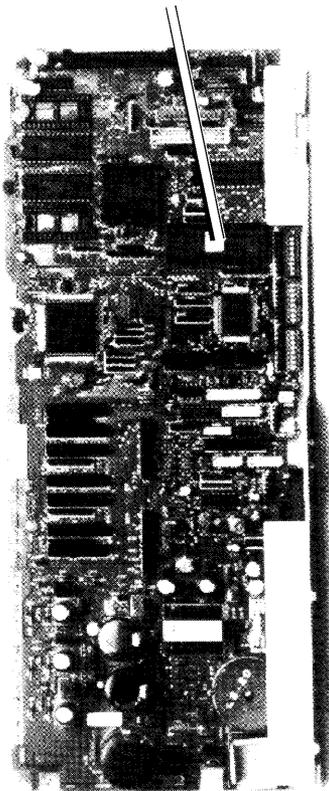
661-0563 is Rev. 03

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ImageWriter LQ  
Main Logic Board

Apple P/N 661-0563

See Note

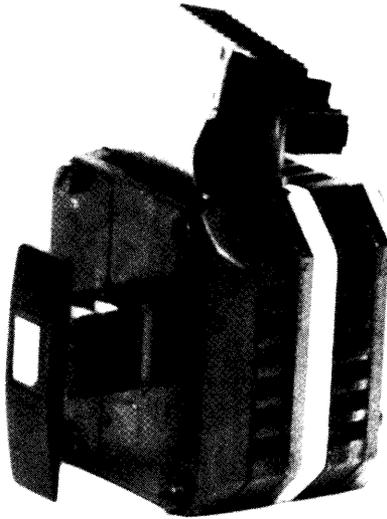


**NOTE:** This revision board has ROM Rev. 03 (EA006-78300) and/or two resistors across IC23.

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**ImageWriter LQ  
Print Head**

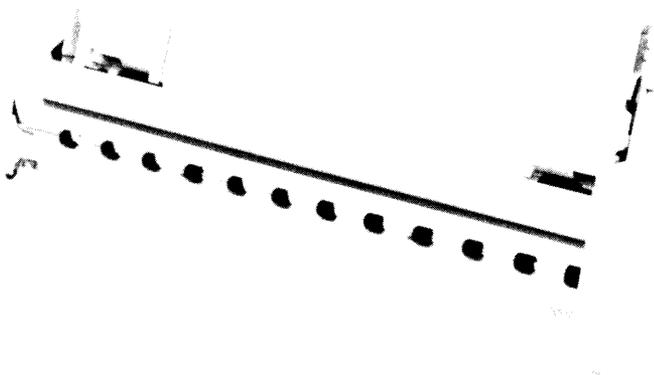
**Apple P/N 661-0405**



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ImageWriter LQ  
**Cut Sheet Feeder Single Bin**

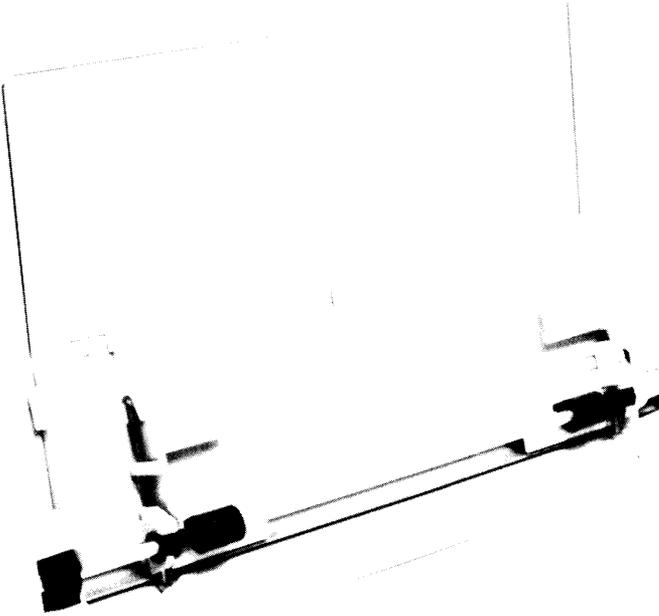
**Apple P/N 661-0446**



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**ImageWriter LQ  
Cut SheetFeeder Extension Bin**

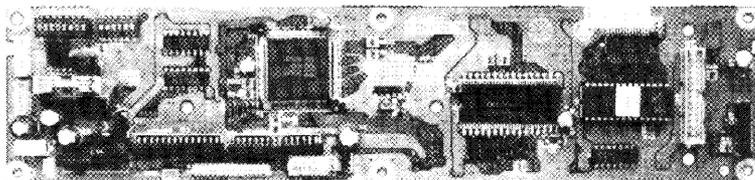
**Apple P/N 661-0447**



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**ImageWriter II/L  
Main CPU PCB**

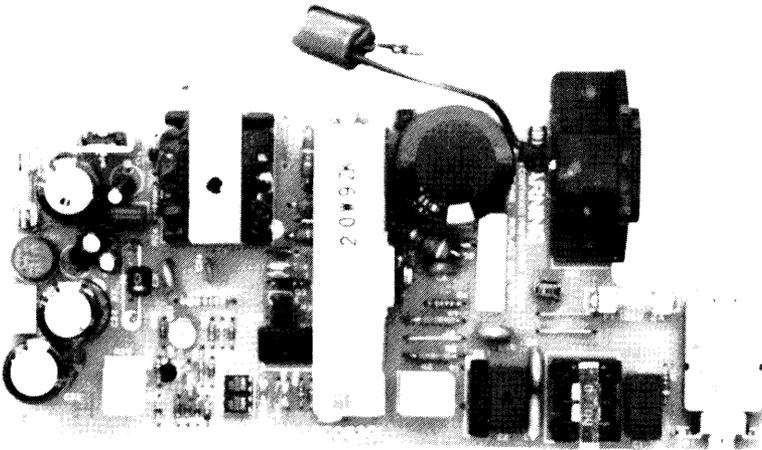
**Apple P/N 661-0581**



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**ImageWriter II/L  
Power Supply Board (110/120 V)**

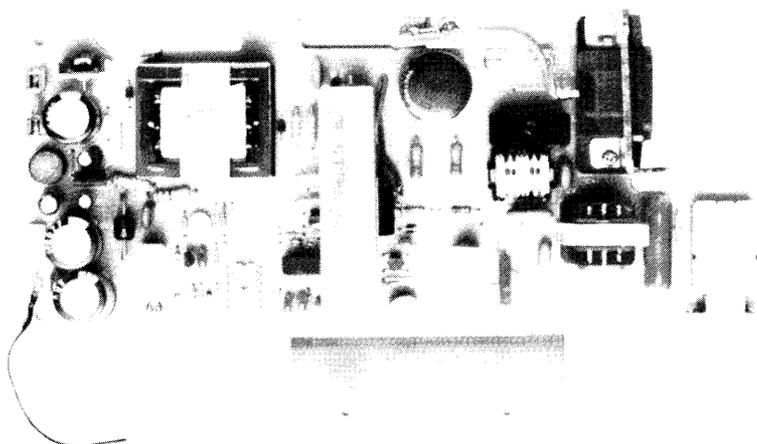
**Apple P/N 661-0582**



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**ImageWriter II/L  
Power Supply Board (220/240 V)**

**Apple P/N 661-1606**



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## LaserWriter/LaserWriter Plus I/O Board

### Apple P/N 661-0270

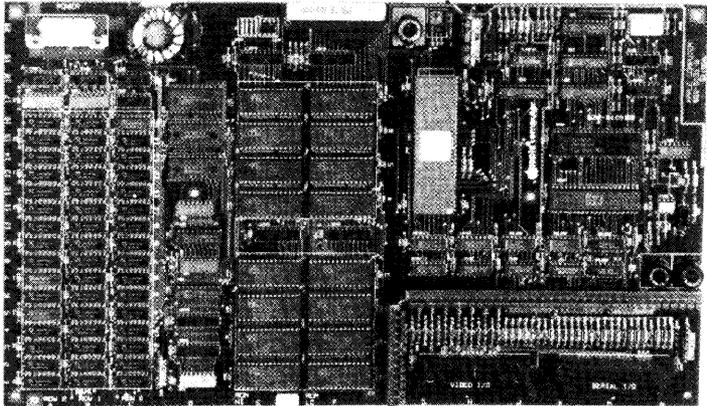
#### Sixteen 256K ROMs or eight 512K ROMs

(When you return P/N 661-0270, Apple ships you P/N 661-0436.)

### Apple P/N 661-0324

#### Sixteen 512K ROMs

(When you return P/N 661-0324, Apple ships you P/N 661-0437.)

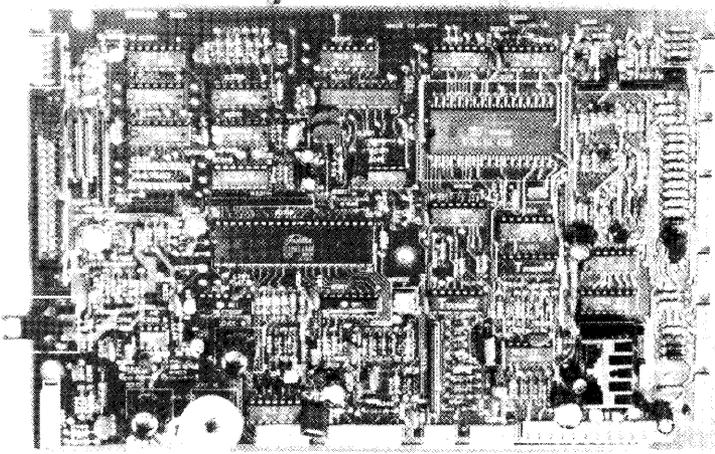


**NOTE:** The part numbers for the sixteen 256K ROMs are 34x-0297, 34x-0309 through 34x-0323. The part numbers for the eight 512K ROMs are 34x-0081 through 34x-0088. The part numbers for the sixteen 512K ROMs are 34x-0089 through 34x-0104. For all the above, x=1 or 2.

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LaserWriter  
**DC Controller**

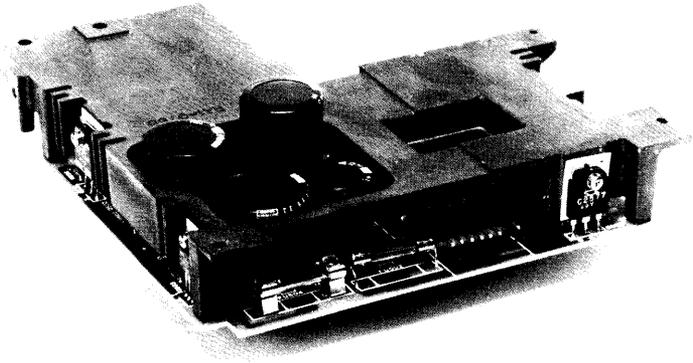
**Apple P/N 661-0267**



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LaserWriter  
**Power Supply/Motor Drive (110 V)**

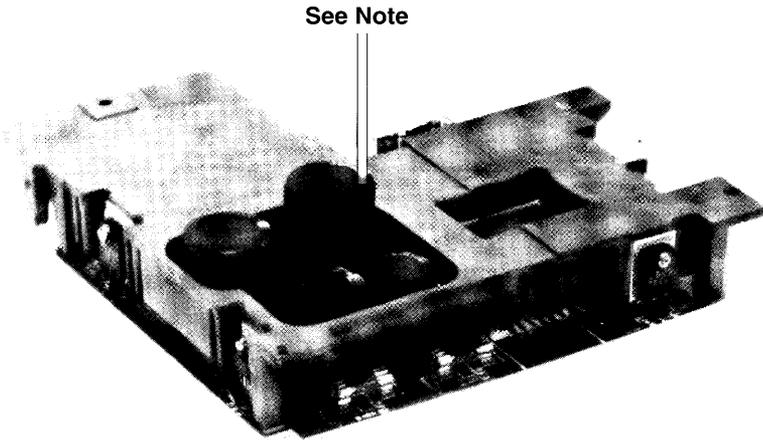
**Apple P/N 661-0273**



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LaserWriter  
Power Supply/Motor Drive (220 V)

Apple P/N 661-0274

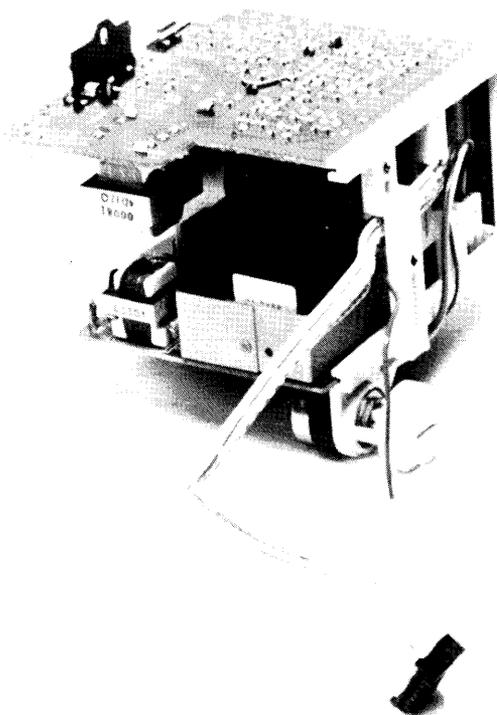


**NOTE:** Presence of a relay in the above position indicates a 220/240 V power supply/motor driver.

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**LaserWriter  
High-Voltage Power Supply (110 V)**

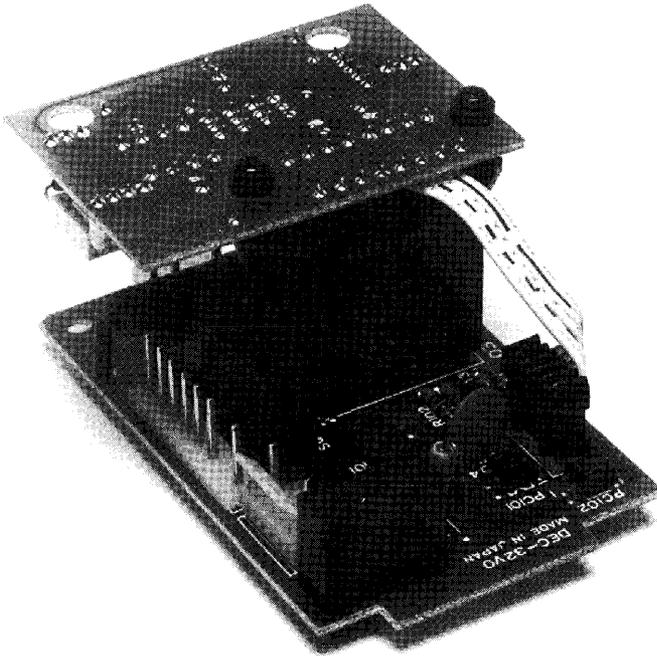
**Apple P/N 661-0266**



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LaserWriter  
Driver (110 V)

Apple P/N 661-0268

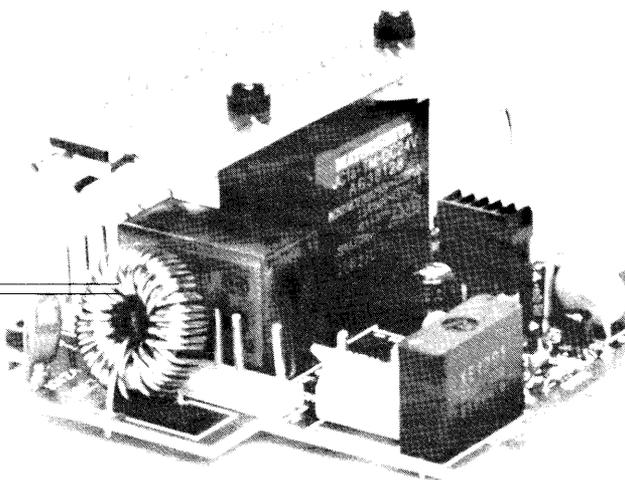


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LaserWriter  
Driver (220 V)

Apple P/N 661-0269

See Note

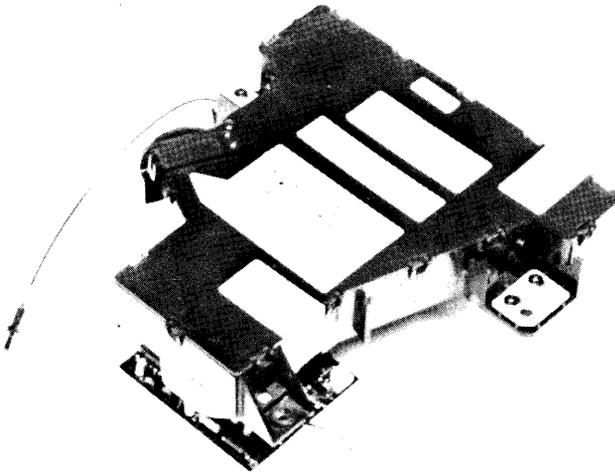


**NOTE:** Presence of a choke in the above position indicates a 220/240 V driver.

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LaserWriter  
Scanner Unit, 300 dpi

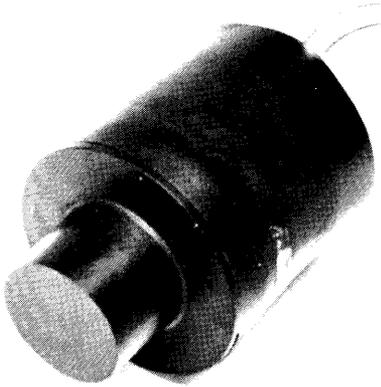
Apple P/N 661-0278



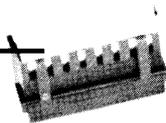
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LaserWriter  
Laser Unit

Apple P/N 661-0277



See Note

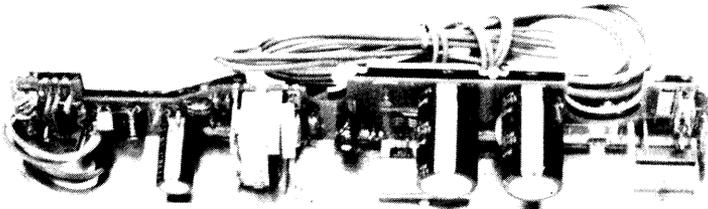


**NOTE:** To prevent ESD damage, use the shorting connector from the service module to short pin 4 to pin 6 before shipping the module.

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**LaserWriter  
I/O PCB Power Supply**

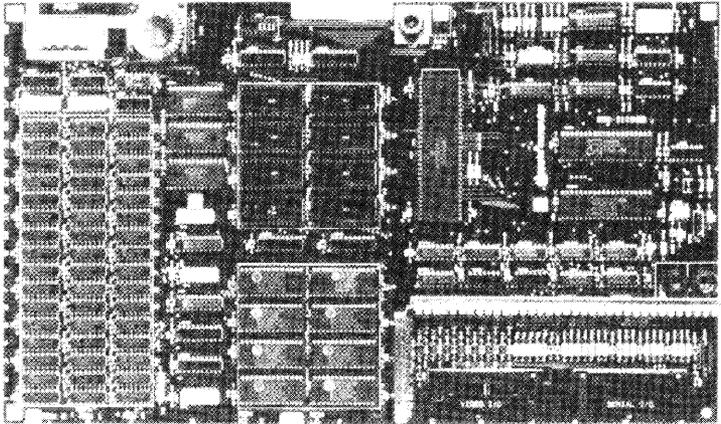
**Apple P/N 661-0323**



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**LaserWriter  
I/O Board**

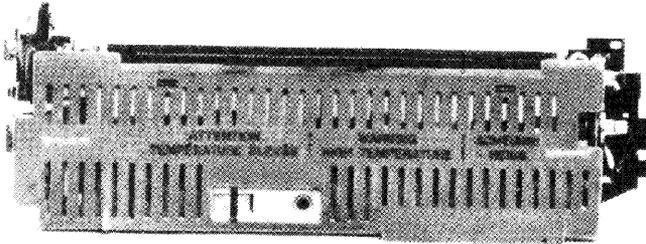
**Apple P/N 661-0436  
Eight 512K ROMs or four 1MB ROMs**



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LaserWriter  
**Fuser Assembly (115 V)**

**Apple P/N 661-0450**

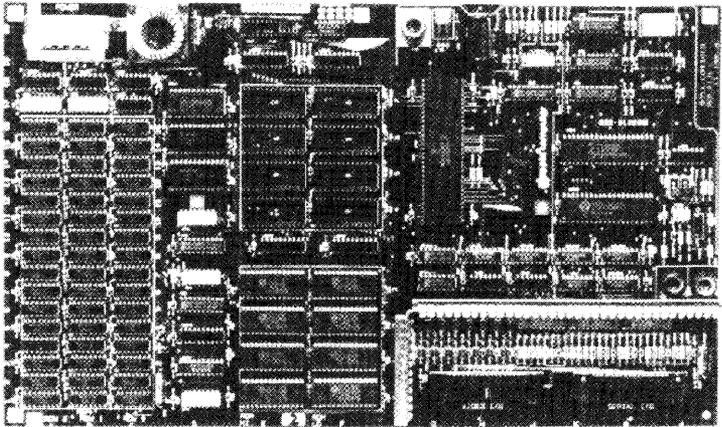


**NOTE:** Remove the cleaning felt before returning the fuser assembly to Apple.

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**LaserWriter Plus  
I/O Board**

**Apple P/N 661-0437  
Sixteen 512K ROMs or eight 1MB ROMs**



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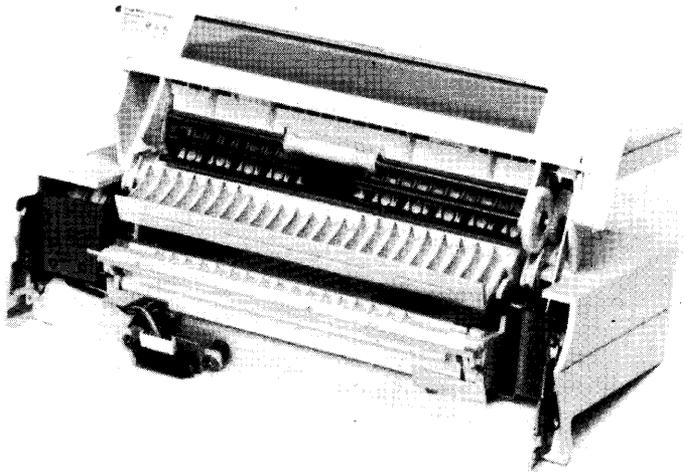
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**ImageWriter II and II/L  
Sheet Feeder**

**Apple P/N 661-0329 (White)**

**Apple P/N 661-0401 (Platinum)**

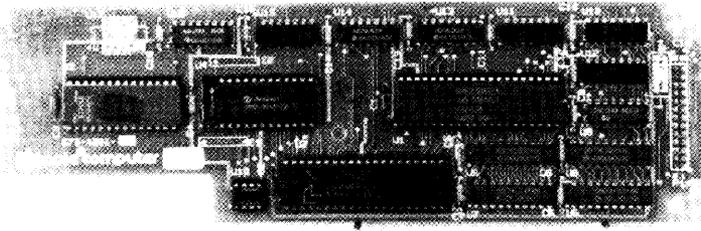


**NOTE:** The ImageWriter II/L is available in platinum only.

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ImageWriter II, II/L, and LQ  
**Local Talk Option Card**

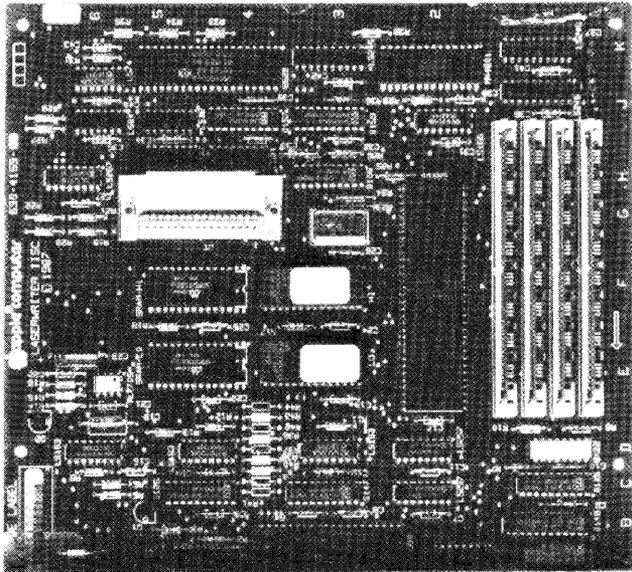
**Apple P/N 661-0325**



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LaserWriter II  
SC Board

Apple P/N 661-0428

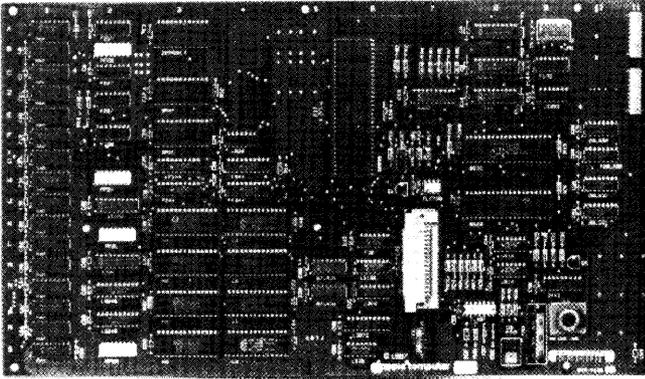


**NOTE:** You must return the four 256K SIMMs with this board.

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**LaserWriter II  
NT Board**

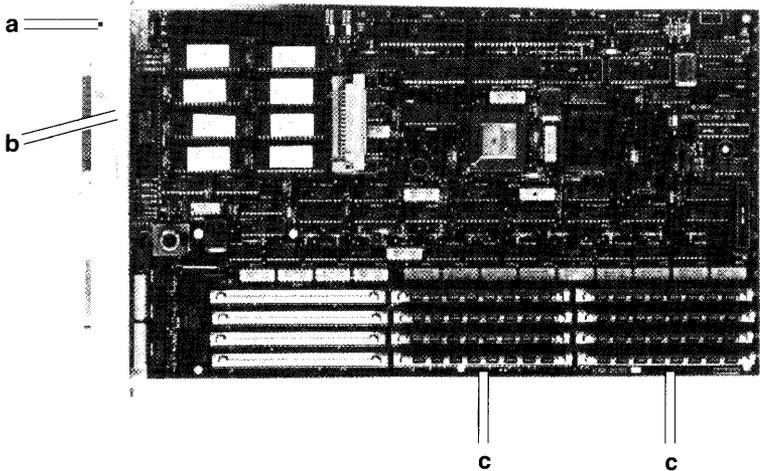
**Apple P/N 661-0438**



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## LaserWriter II NTX Board

Apple P/N 661-0429



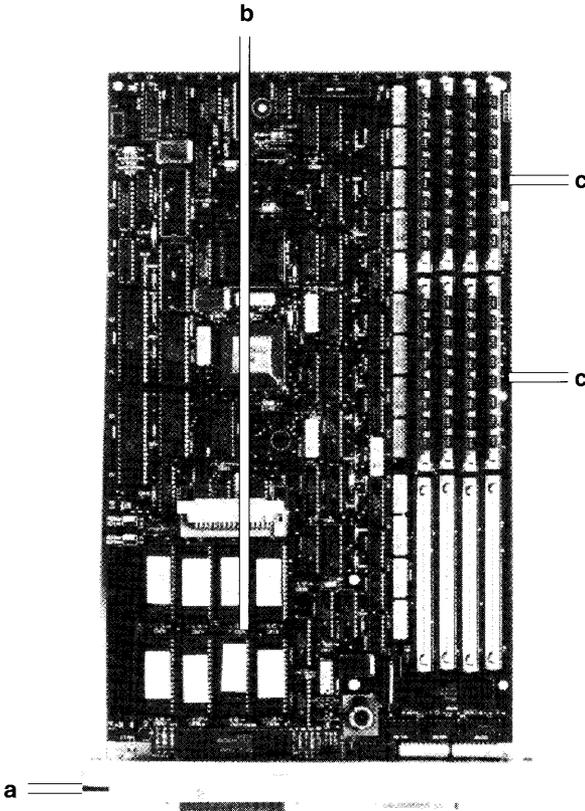
**NOTE:**

- a) The marketing number on the bracket label can be M6004 or M6004/A.
- b) 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.
- c) You must return the eight 256K SIMMs with this board.

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LaserWriter II  
NTX I/O Board (Rev. 3.0)

Apple P/N 661-1605



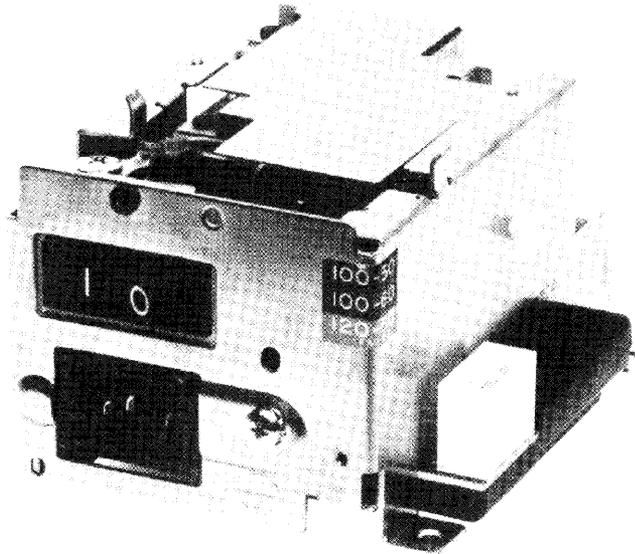
**NOTE:**

- a) The marketing number on the bracket label can be M6004 or M6004/A.
- b) 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.
- c) You must return the eight 256K SIMMs with this board.

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**LaserWriter II  
Power Supply Block**

**Apple P/N 661-0427 (110 V)  
Apple P/N 661-0443 (220/240 V)**

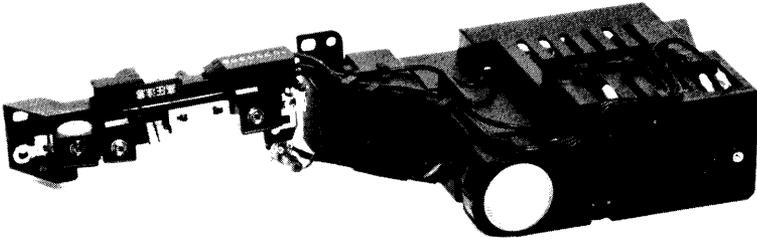


**NOTE:** The sticker indicates the module voltage.

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**LaserWriter II  
High-Voltage Power Supply**

**Apple P/N 661-0425**

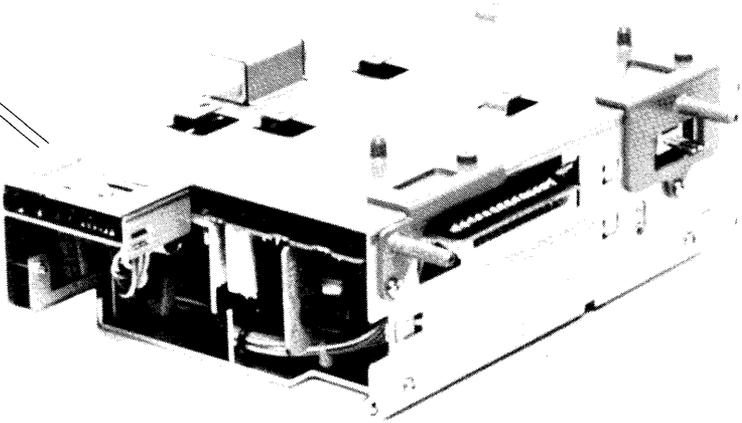


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LaserWriter II  
DC Power Supply

Apple P/N 661-0424 (110 V)  
Apple P/N 661-0442 (220/240 V)

See Note



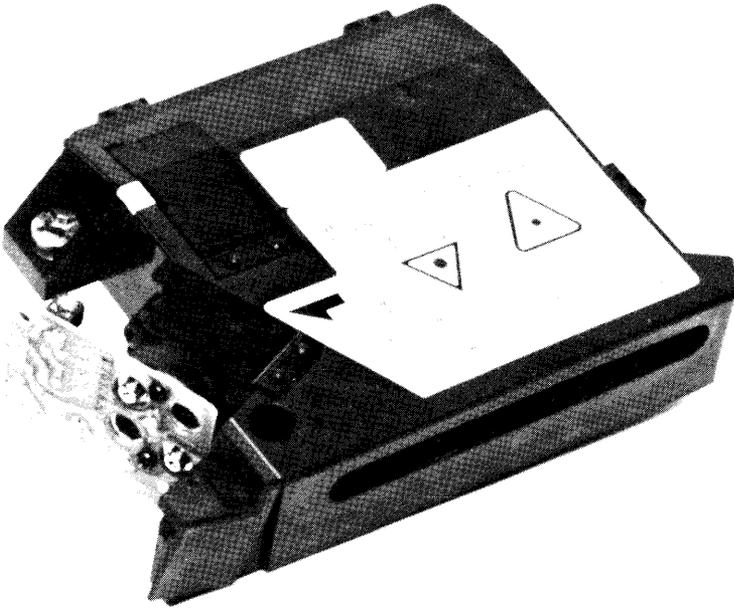
**NOTE:** The sticker on top indicates the module voltage.

Remove the distribution PCB and cover (as shown) before you return this module to Apple.

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LaserWriter II  
**Laser/Scanner Unit**

**Apple P/N 661-0423**

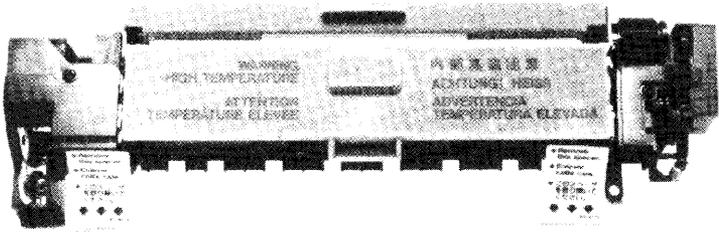


**NOTE:** Remove the optical fiber and laser harness cables before you return the unit to Apple.

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**LaserWriter II  
Fuser Assembly**

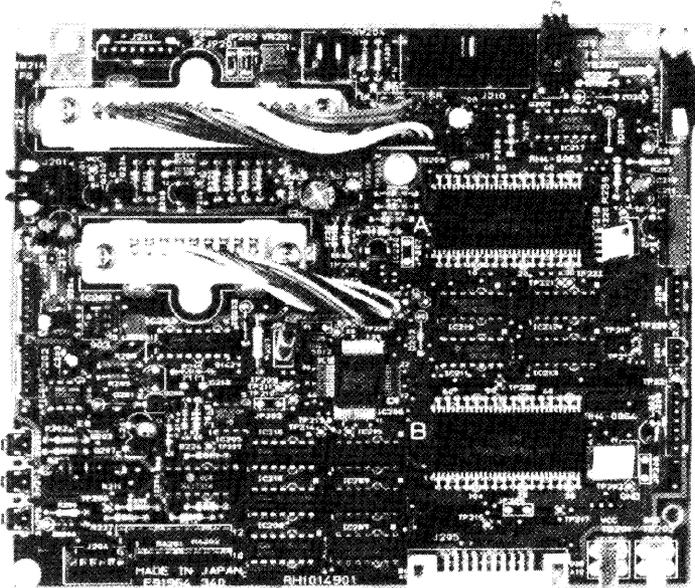
**Apple P/N 661-0440 (110 V)  
Apple P/N 661-0444 (220/240 V)**



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**LaserWriter II  
DC Controller Board**

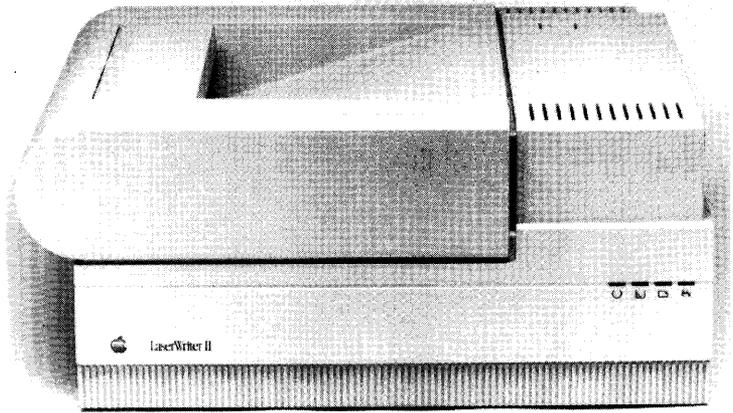
**Apple P/N 661-0426**



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**LaserWriter II  
Engine (Whole Unit)**

**Apple P/N 661-0894**



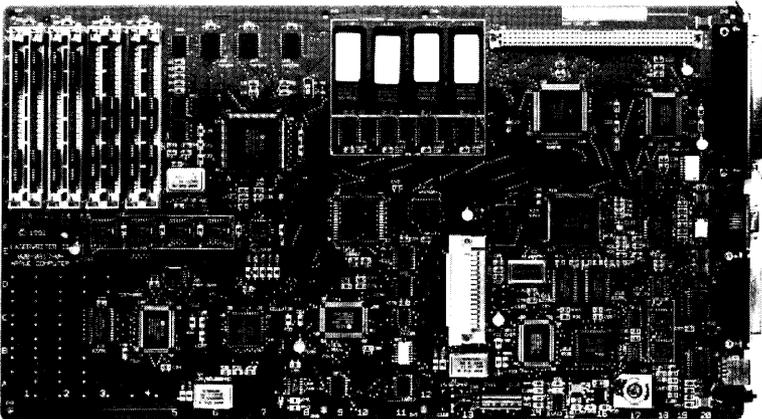
**NOTE:** Remove the controller card before returning the LaserWriter II engine to Apple.

---

## LaserWriter IIg I/O Board

### Apple P/N 661-0775 (SIMM-less)

(When you return P/N 661-0661 or P/N 661-0769, Apple ships you P/N 661-0775.)



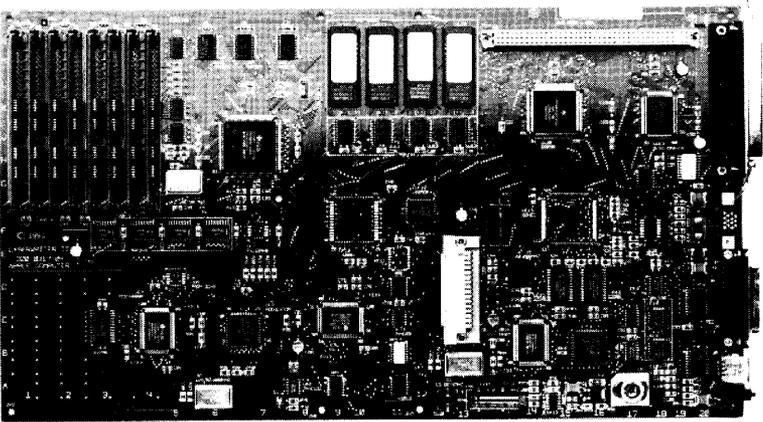
**NOTE:** Because replacement I/O boards do not come with a bracket assembly, you must retain the bracket assembly for use on the replacement I/O board. Do not return the bracket assembly to Apple.

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## LaserWriter IIx I/O Board

### Apple P/N 661-0776 (SIMM-less)

(When you return P/N 661-0662 or P/N 661-0770, Apple ships you P/N 661-0776.)



**NOTE:** 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.

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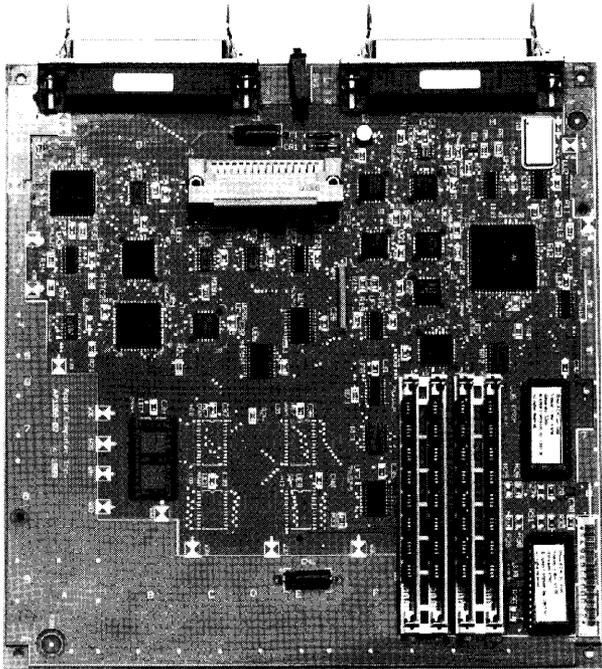
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Apple Personal LaserWriter  
SC I/O Board

Apple P/N 661-0566

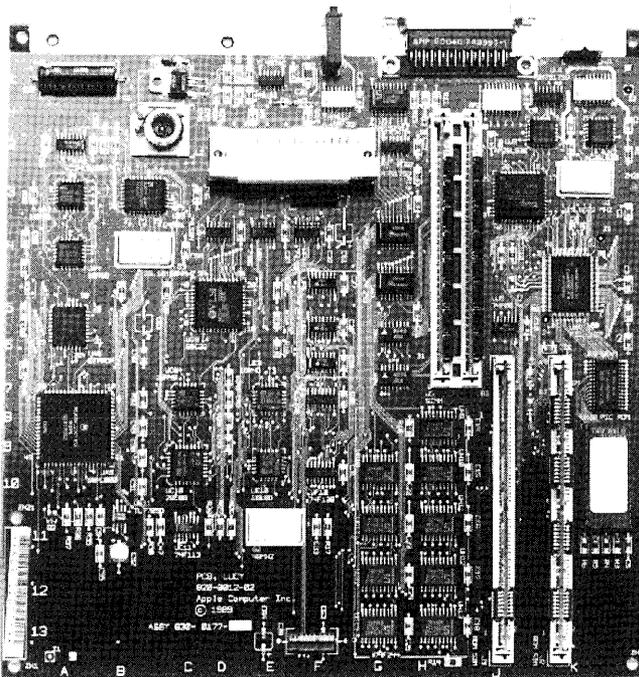


**NOTE:** Before you return the Apple Personal LaserWriter SC I/O board, remove the bracket, but do not remove the four 256K RAM SIMMs.

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# Apple Personal LaserWriter NT I/O Board

Apple P/N 661-0565

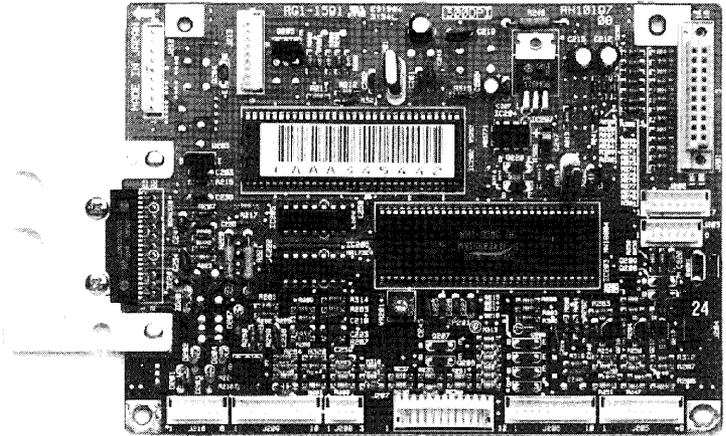


**NOTE:** Before you return the Apple Personal LaserWriter board, remove the bracket, but do not remove the RAM SIMMs or the set of ROM SIMMs.

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## Apple Personal LaserWriter NT, SC, and NTR DC Controller Board

Apple P/N 661-0567



**NOTE:** Remove the plastic cable clip and the interconnect PCB before you return the DC controller board to Apple.

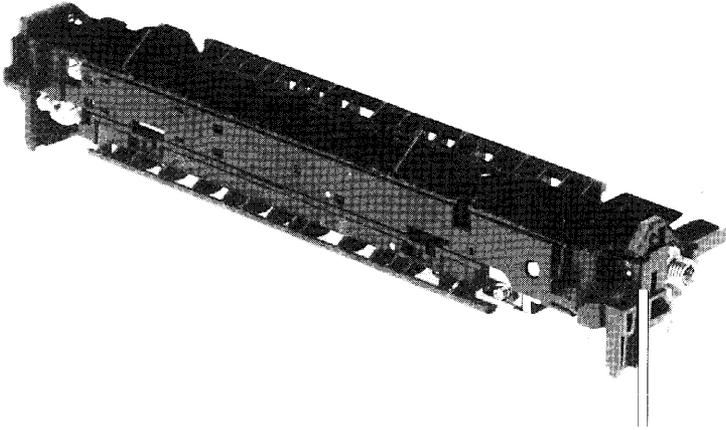
This controller board is not approved for use on the Apple Personal LaserWriter LS or LS/L.

This controller board has part number RGI-1591 printed on the board (near connector J213).

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Apple Personal LaserWriter  
**Fuser**

**Apple P/N 661-0568 (110/115 V)**  
**Apple P/N 661-0575 (220/240 V)**



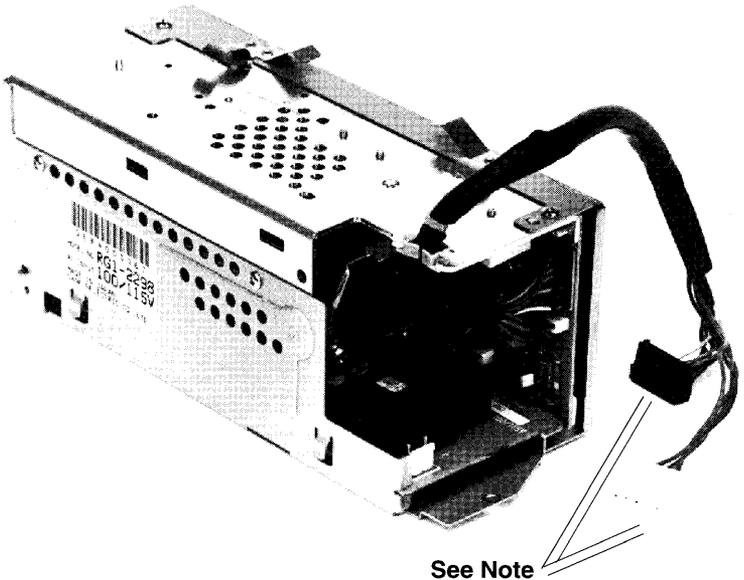
See Note

**NOTE:** The mounting hole must be in the position shown.

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## Apple Personal LaserWriter NT, SC, and NTR Power Supply Unit

**Apple P/N 661-0569 (110/115 V)**  
**Apple P/N 661-0574 (220/240 V)**

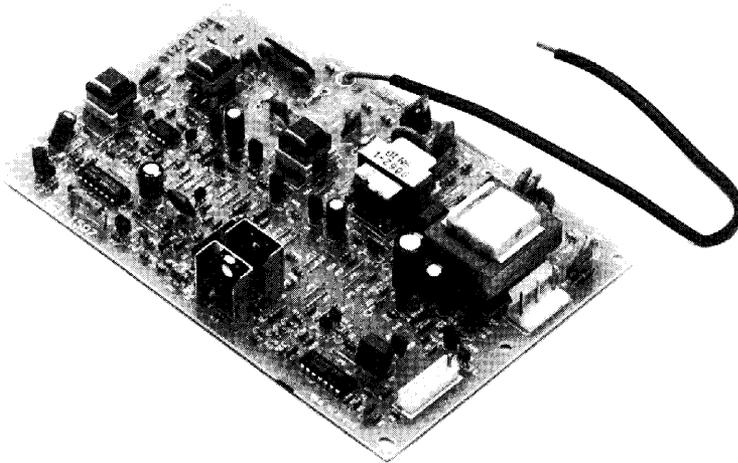


**NOTE:** The Apple Personal LaserWriter NT, SC, & NTR power supply unit is not compatible with the Personal LaserWriter LS and LS/L. The Personal LaserWriter NT, SC, & NTR power supply unit has two connectors; the LS and LS/L power supply units have only one.

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Apple Personal LaserWriter  
**High-Voltage Power Supply**

**Apple P/N 661-0573**

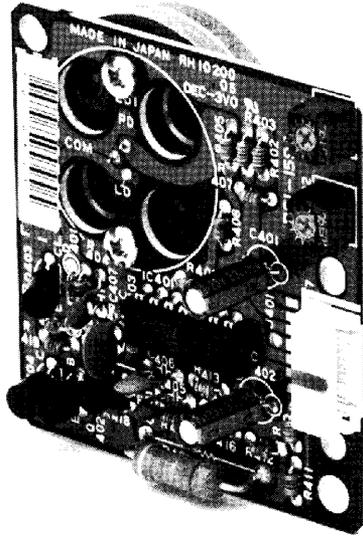


**NOTE:** The high-voltage power supply does not ship with the plastic tray or grounding plate.

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Apple Personal LaserWriter  
**Laser Assembly**

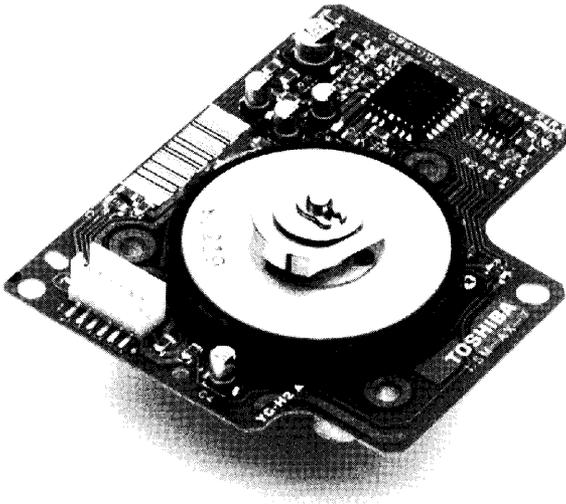
Apple P/N 661-0571



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**Apple Personal LaserWriter  
Scanner Assembly**

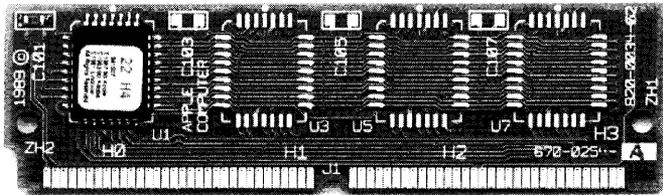
**Apple P/N 661-0572**



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Apple Personal LaserWriter  
**ROM SIMM, 256K**

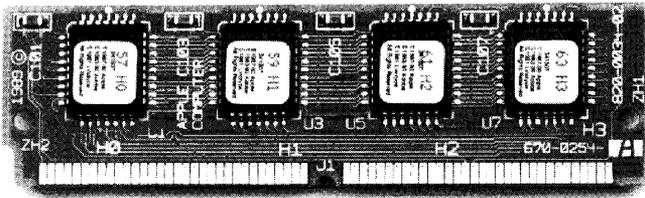
**Apple P/N 661-0602**



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Apple Personal LaserWriter  
**ROM SIMM, 1 MB**

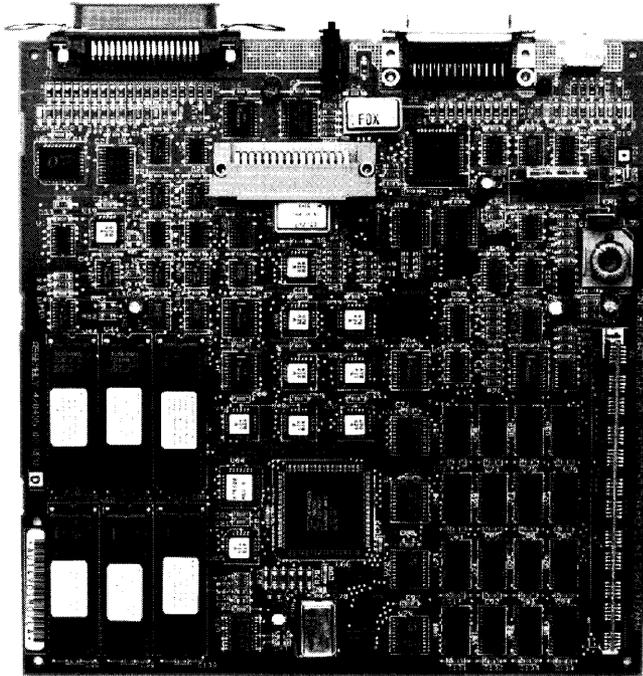
**Apple P/N 661-0570**



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Personal LaserWriter NTR  
I/O Board

Apple P/N 661-0725

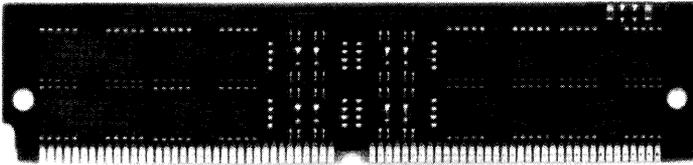


**NOTE:** Before you return the Apple Personal LaserWriter NTR I/O board, remove the bracket, but do not remove the 1 MB RAM SIMMs.

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Personal LaserWriter NTR  
**SIMM, 1 MB, 80 ns, 72-Pin**

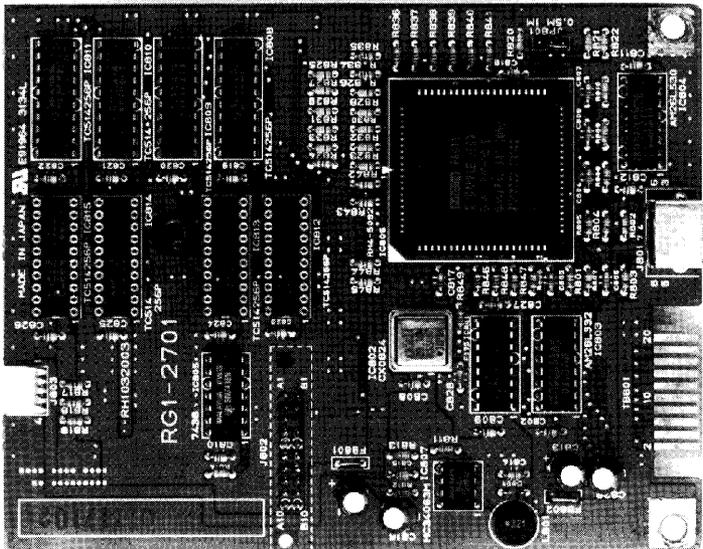
**Apple P/N 661-0734**



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# Apple Personal LaserWriter LS Serial I/O Board

## Apple P/N 661-0631

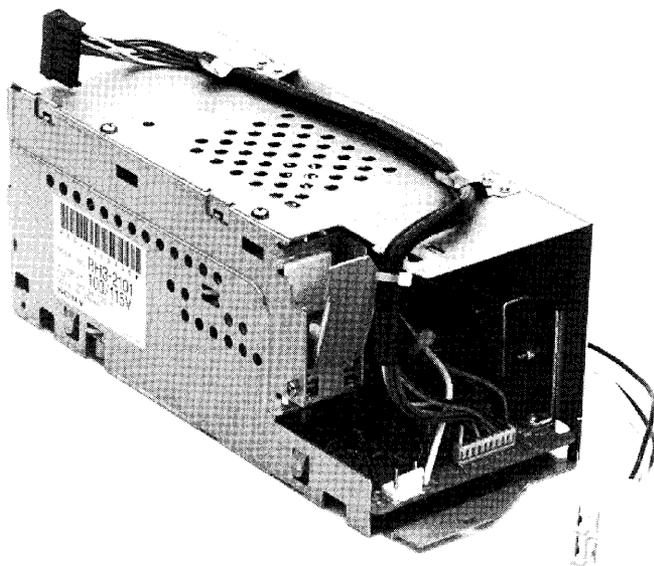


**NOTE:** Return the serial I/O board in its 512K configuration (that is, with sockets IC812 through IC815 empty).

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## Apple Personal LaserWriter LS Power Supply Unit

**Apple P/N 661-0636 (110/115 V)**  
**Apple P/N 661-0637 (220/240 V)**

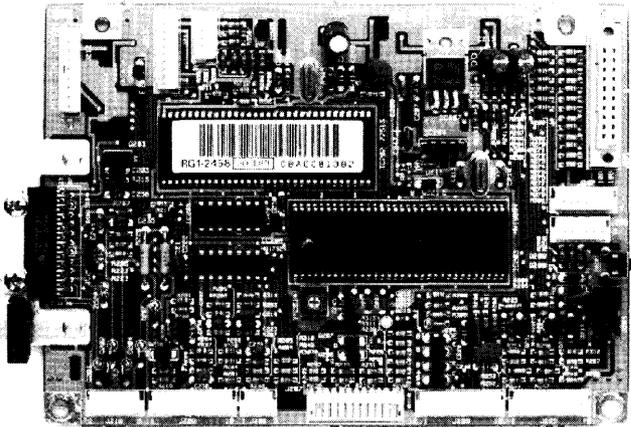


**NOTE:** The Apple Personal LaserWriter LS power supply unit is not compatible with the Personal LaserWriter LS/L, SC, NT, or NTR. The LaserWriter LS power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the Personal LaserWriter LS power supply unit has a lower power rating.

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## Apple Personal LaserWriter LS DC Controller Board

**Apple P/N 661-0650**



**NOTE:** The Apple Personal LaserWriter LS DC controller board is not approved for use on other Apple Personal LaserWriters. Do not interchange DC controller boards between the Personal LaserWriter LS and other Personal LaserWriter printers.

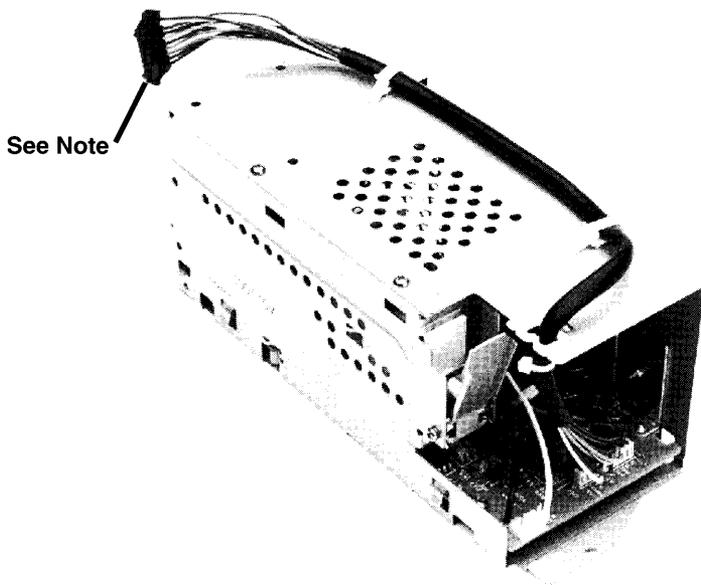
The LS DC controller board has the part number RG1-2458 printed on the board.

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## Apple Personal LaserWriter LS/L Power Supply Unit

**Apple P/N 661-0668 (110/115 V)**

**Apple P/N 661-0667 (220/240 V)**

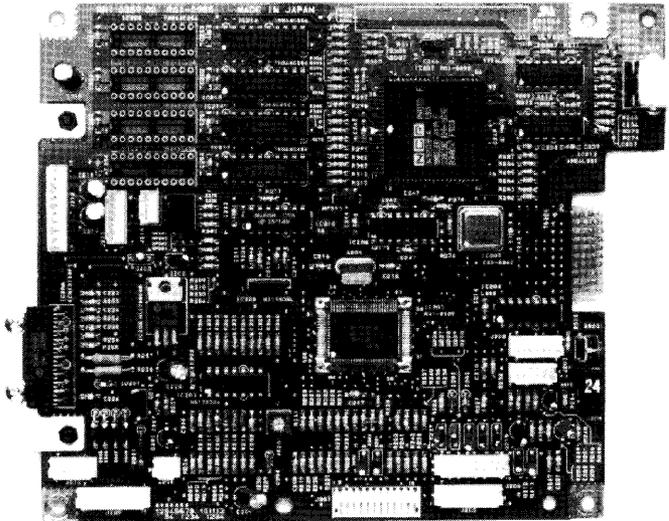


**NOTE:** The Apple Personal LaserWriter LS/L power supply unit is not compatible with the Personal LaserWriter LS, SC, NT, or NTR. The Personal LaserWriter LS/L power supply unit has only one connector; the NT, SC, and NTR power supply unit has two. Also, the power rating is lower on the Personal LaserWriter 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.

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## Apple Personal LaserWriter LS/L Serial Controller

Apple P/N 661-0669



**NOTE:** Return the serial controller board in its 512K configuration (that is, with sockets IC217 through IC220 empty).

(

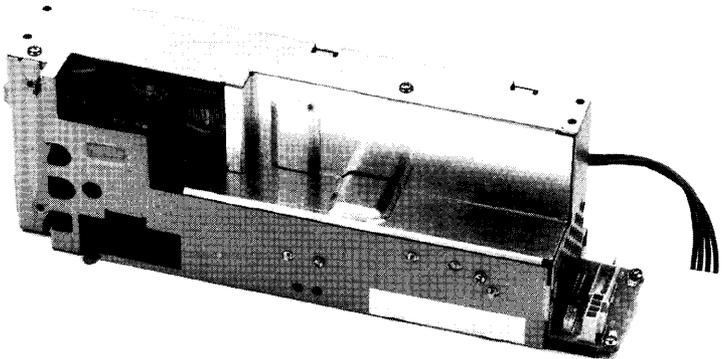
(

(

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LaserWriter Pro  
**Power Supply**

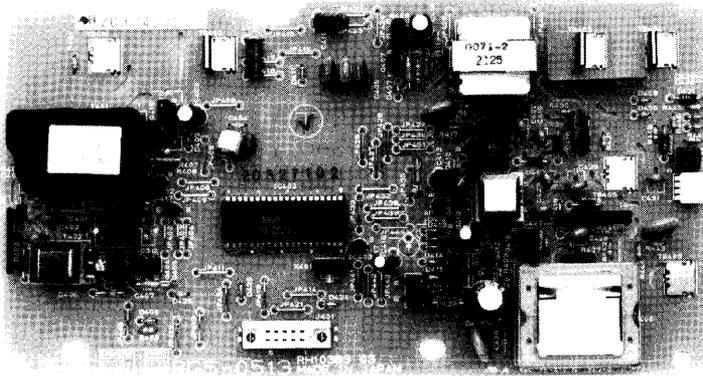
**Apple P/N 661-0802, 110/115 V**  
**Apple P/N 661-0803, 220/240 V**



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LaserWriter Pro  
**High-Voltage  
Power Supply**

**Apple P/N 661-0804**

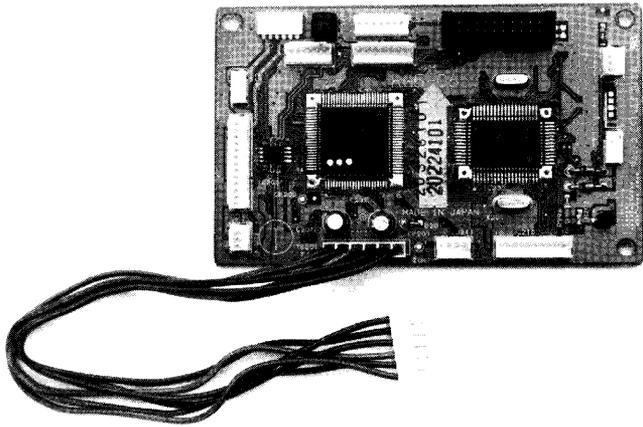


**NOTE:** The high-voltage power supply does not ship with its plastic tray.

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**LaserWriter Pro  
DC Controller Board**

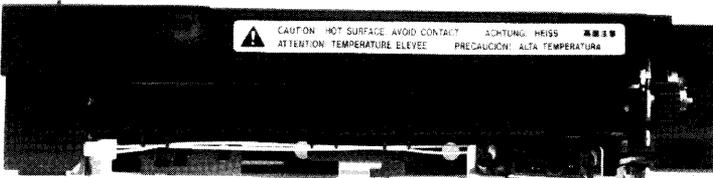
**Apple P/N 661-0807**



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LaserWriter Pro  
Fuser Assembly

Apple P/N 661-0805, 110/115 V  
Apple P/N 661-0806, 220/240 V

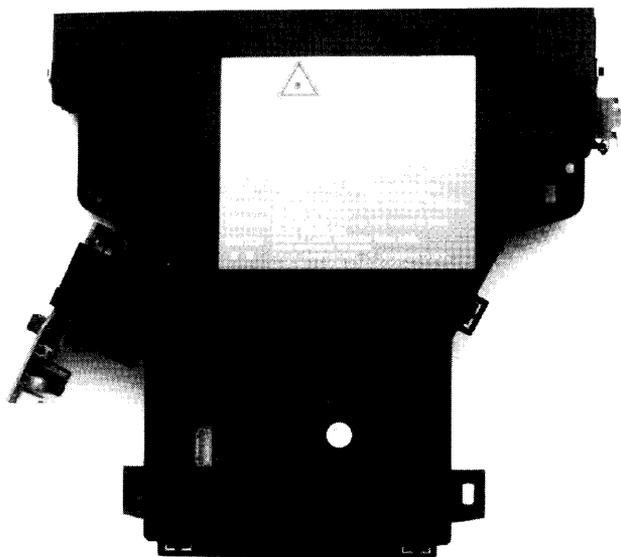


**NOTE:** Please return the fuser assembly with the pressure roller levers in the up position.

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LaserWriter Pro  
**Laser/Scanner Assembly**

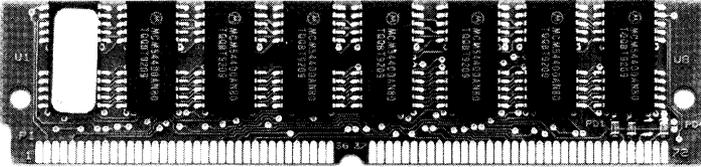
**Apple P/N 661-0801**



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LaserWriter Pro  
SIMM, 4 MB, 80 ns, 72-Pin

Apple P/N 661-0808



**NOTE:** This board has ICs on one side.

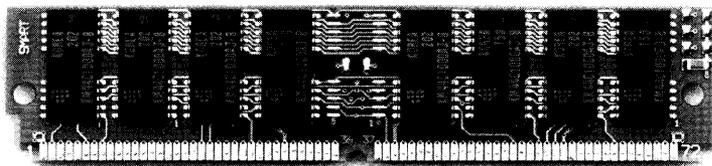
The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns, where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. Apple accepts only 80 ns or faster RAM SIMMs of this 4-MB variety for return.

For additional SIMM information, refer to the SIMMs manual in *Service Source*.

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LaserWriter Pro  
**SIMM, 8 MB, 80 ns, 72-Pin**

**Apple P/N 661-0809**



**NOTE:** This board has ICs on both sides.

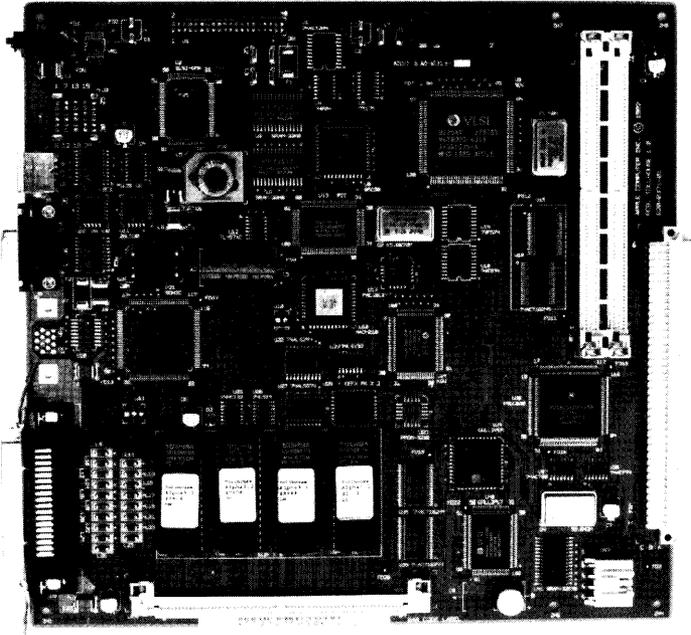
The RAM speed is usually indicated by a number after a dash or after a letter at the end of the manufacturer's part number. For example, -80, -8, or S8 indicates 80 ns where as -60, -6, or S6 indicates 60 ns. These numbers are located on the surface of the chip or on the back side of the SIMM board. 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*.

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# LaserWriter Pro 600 I/O Board

Apple P/N 661-0799

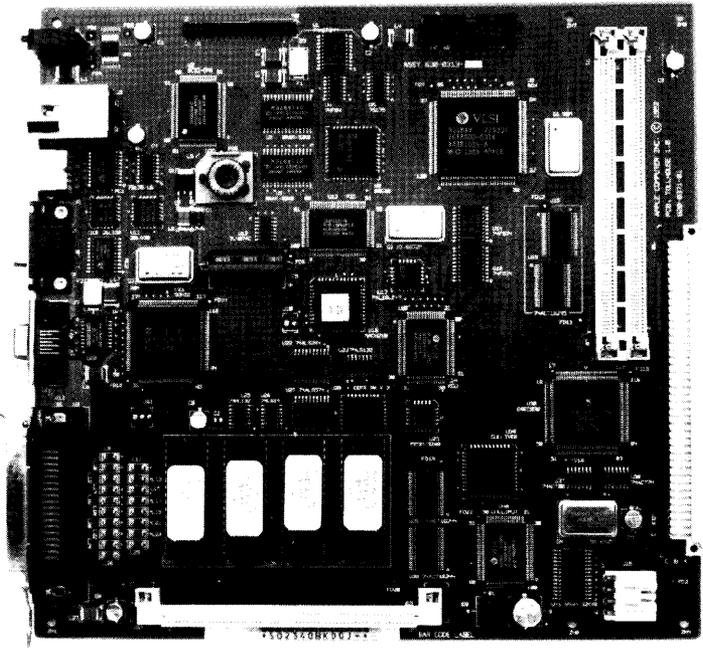


**NOTE:** The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

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LaserWriter Pro 630  
I/O Board

Apple P/N 661-0800

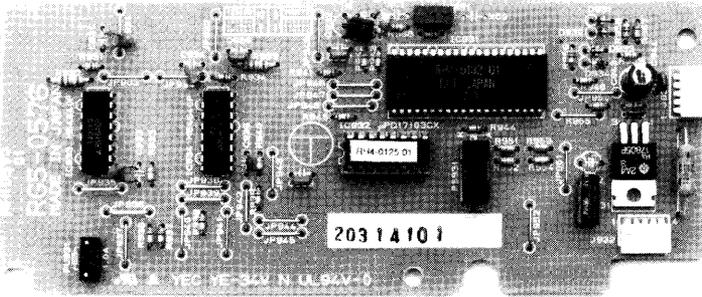


**NOTE:** The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

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# LaserWriter Pro Envelope Feeder Controller Board

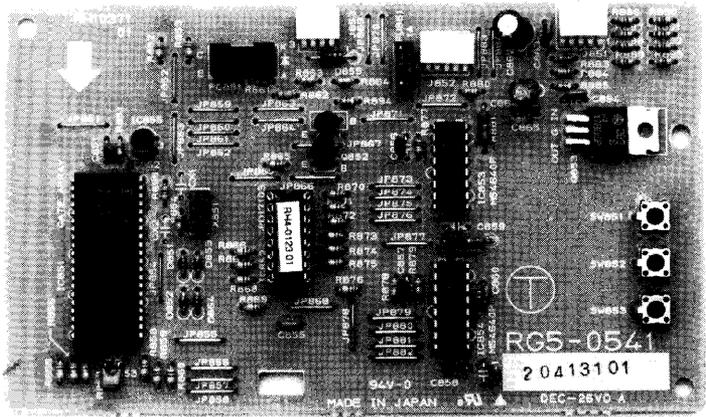
Apple P/N 661-0797



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# LaserWriter Pro 500 Sheet Feeder Controller Board

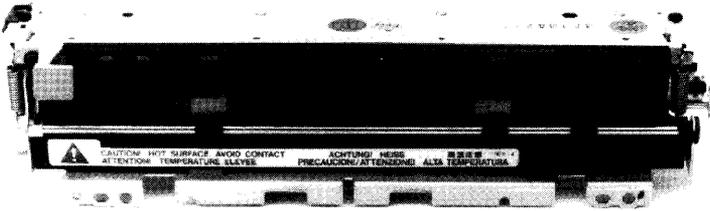
Apple P/N 661-0798



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**Personal LaserWriter 300  
Fuser Assembly (110 V)**

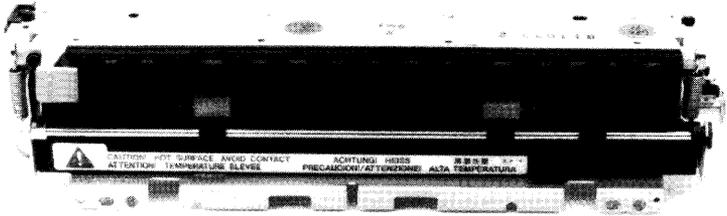
**Apple P/N 661-0025**



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**Personal LaserWriter 300  
Fuser Assembly (220 V)**

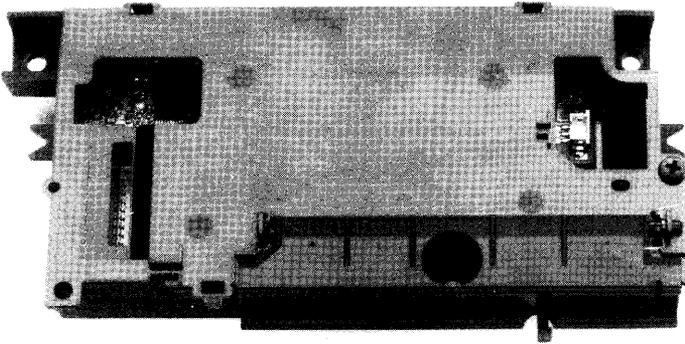
**Apple P/N 661-0026**



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Personal LaserWriter 300  
**Laser/Scanner Assembly**

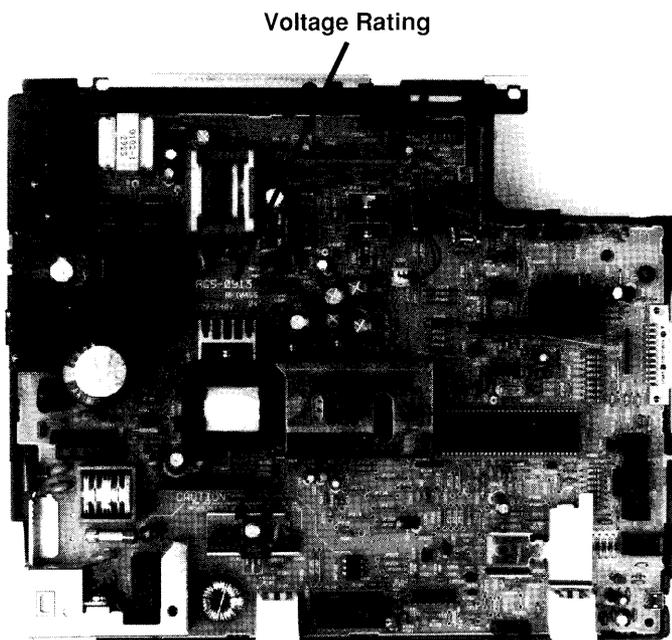
**Apple P/N 661-0027**



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Personal LaserWriter 300  
**Controller Assembly (240 V)**

**Apple P/N 661-0028**

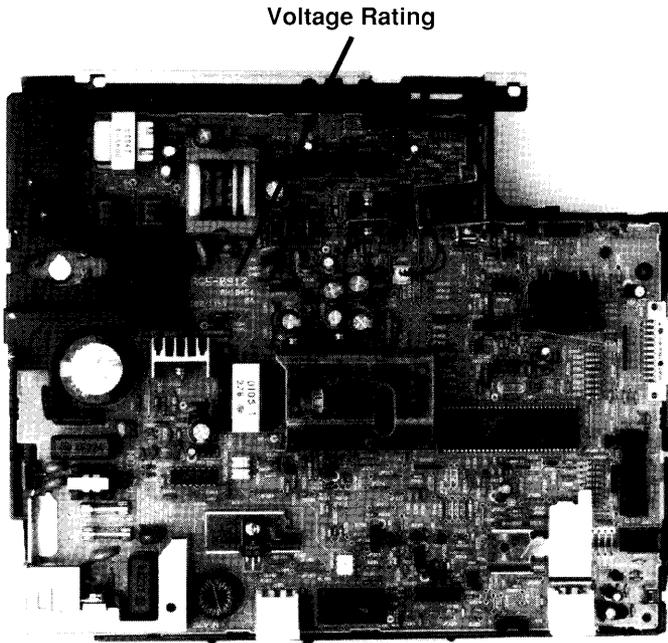


**NOTE:** The Personal LaserWriter 300 control assembly (240 V) can be distinguished by a voltage rating located on the board.

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Personal LaserWriter 300  
Controller Assembly (120 V)

Apple P/N 661-0029

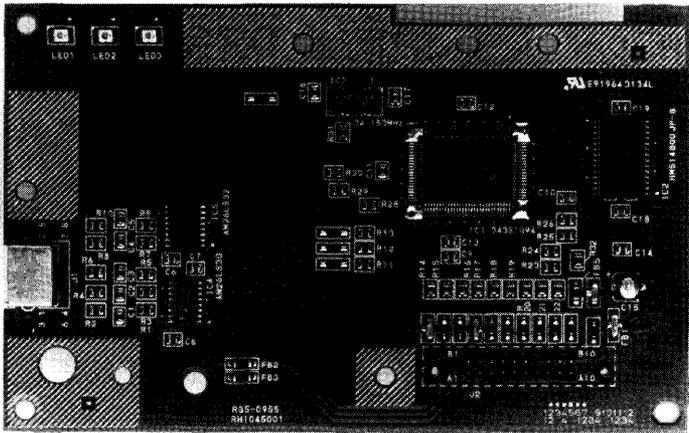


**NOTE:** The Personal LaserWriter 300 control assembly (120 V) can be distinguished by a voltage rating located on the board.

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Personal LaserWriter 300  
I/O Board

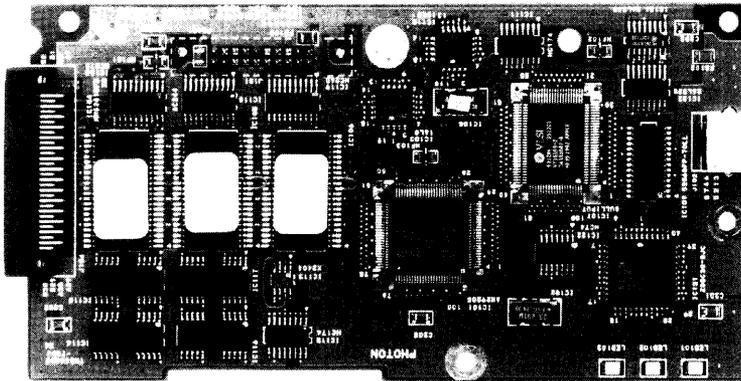
Apple P/N 661-0030



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Apple Personal LaserWriter 320  
I/O Controller Board

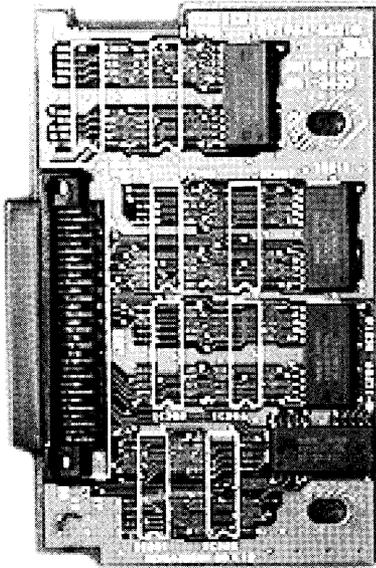
Apple P/N 661-0687



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**Apple Personal LaserWriter 320  
RAM Expansion Card, 2 MB**

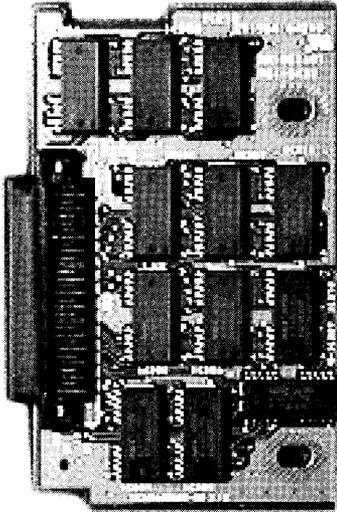
**Apple P/N 661-0688**



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Apple Personal LaserWriter 320  
**RAM Expansion Card, 6 MB**

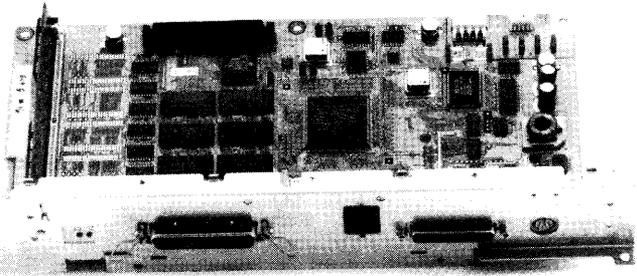
Apple P/N 661-0689



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**LaserWriter Select 360  
I/O Controller Board**

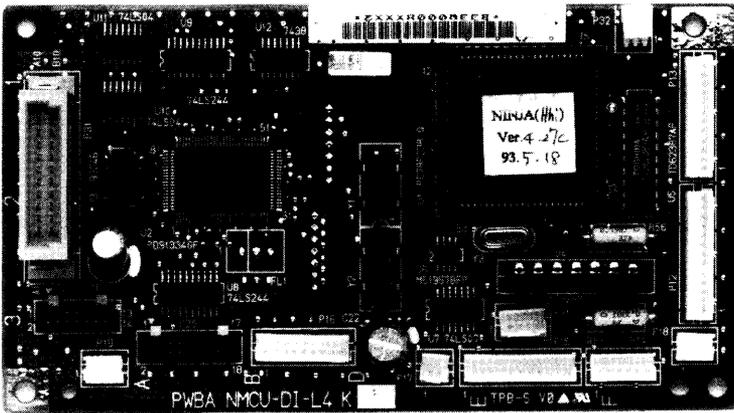
**Apple P/N 661-0820**



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LaserWriter Select 360  
DC Controller Board

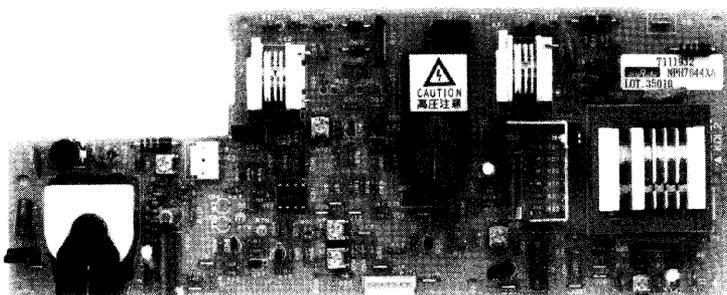
Apple P/N 661-0821



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LaserWriter Select 360  
**High-Voltage Power Supply**

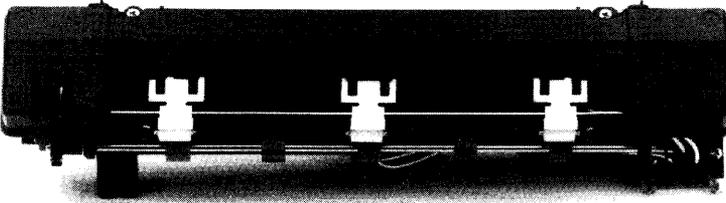
**Apple P/N 661-0822**



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LaserWriter Select 360  
**Fuser Assembly, 115 V**

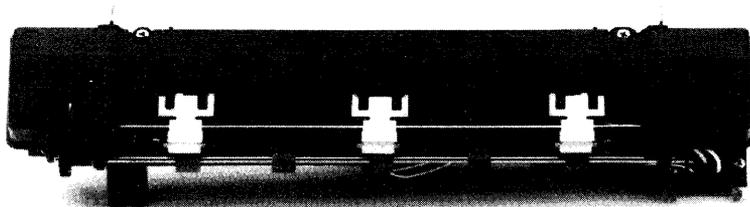
**Apple P/N 661-0825**



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**LaserWriter Select 360  
Fuser Assembly, 220 V**

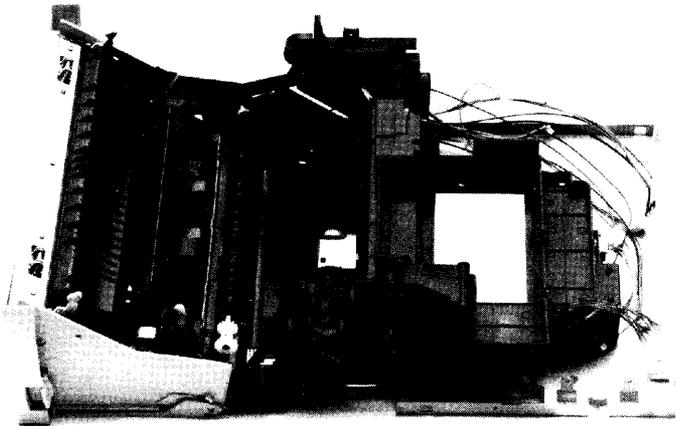
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**LaserWriter Select 360  
Laser Optic Assembly**

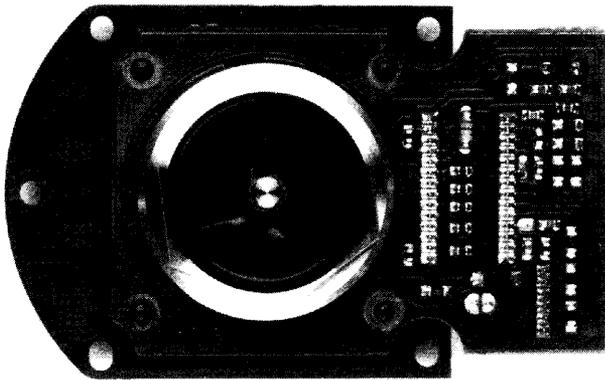
**Apple P/N 661-0827**



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**LaserWriter Select 360  
Scanner Motor**

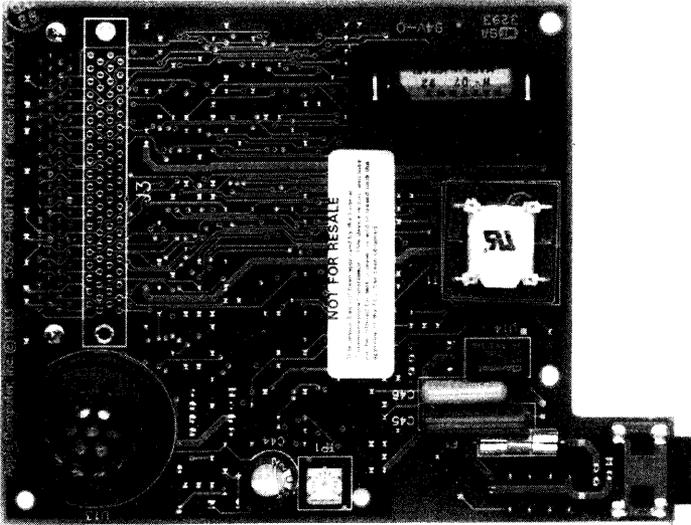
**Apple P/N 661-0828**



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LaserWriter Select 360  
Fax Card

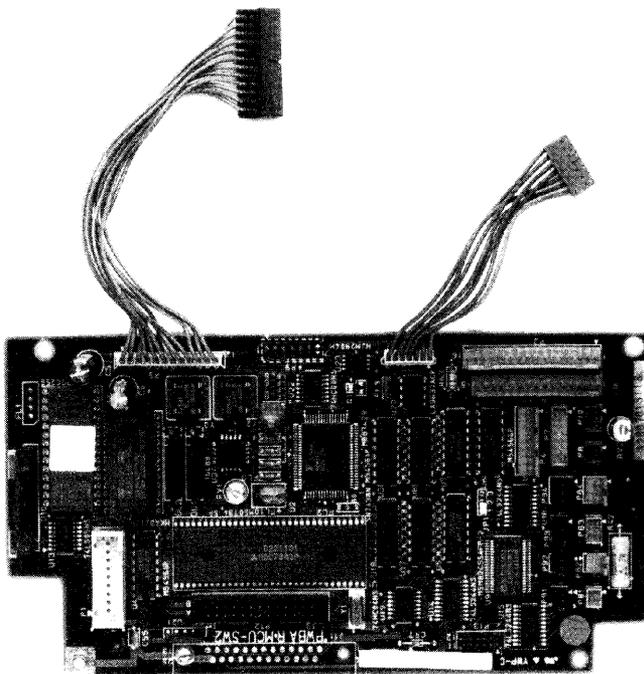
Apple P/N 661-0868



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**LaserWriter Pro 810  
DC Controller Board**

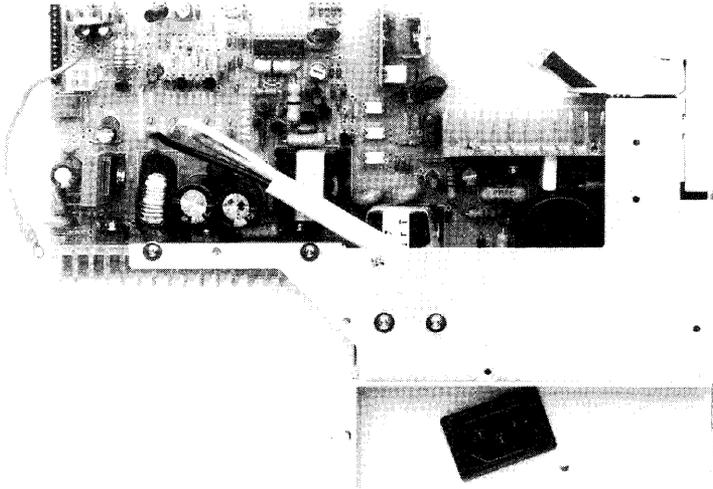
**Apple P/N 661-0833**



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**LaserWriter Pro 810  
Power Supply, 115 V**

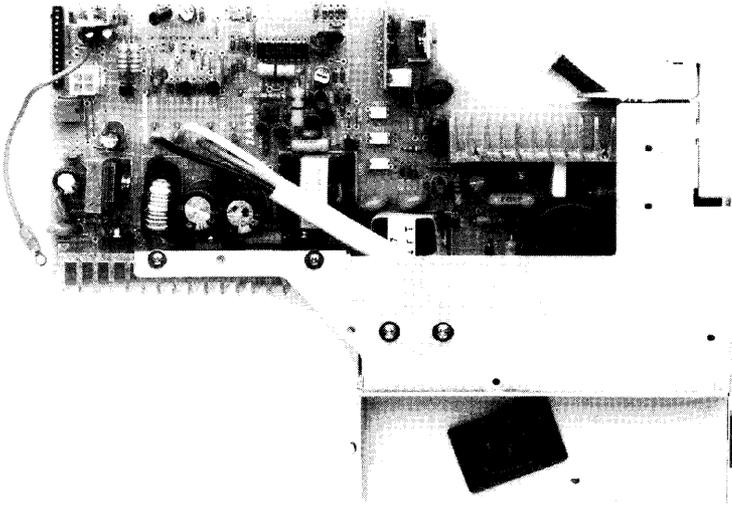
**Apple P/N 661-0836**



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**LaserWriter Pro 810  
Power Supply, 220 V**

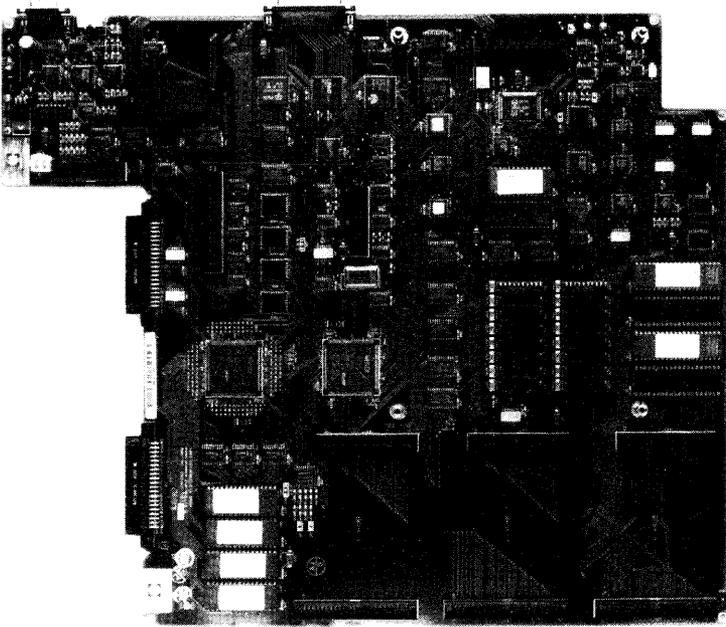
**Apple P/N 661-0837**



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**LaserWriter Pro 810  
I/O Controller**

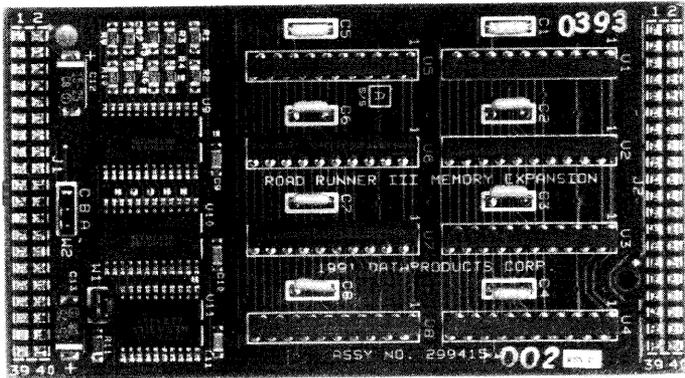
**Apple P/N 661-0842**



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LaserWriter Pro 810  
4 MB Memory Card

Apple P/N 661-0846



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LaserWriter Pro 810  
**8 MB Memory Card**

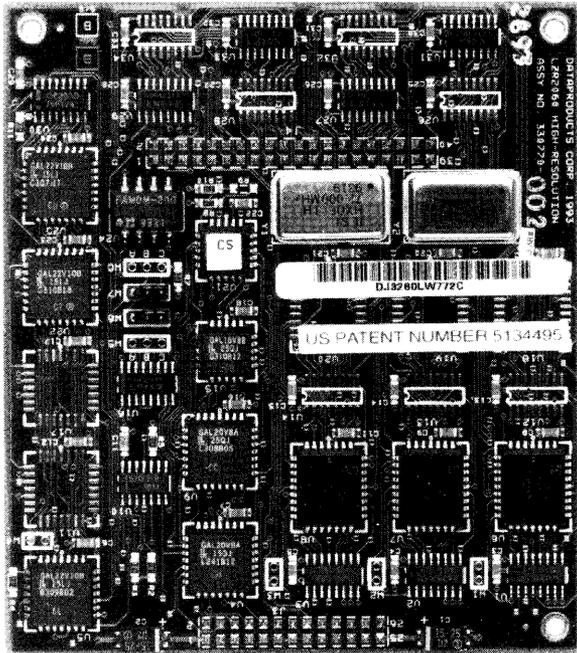
**Apple P/N 661-0847**

**Photograph not available  
at the time of printing**

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LaserWriter Pro 810  
High Resolution Card

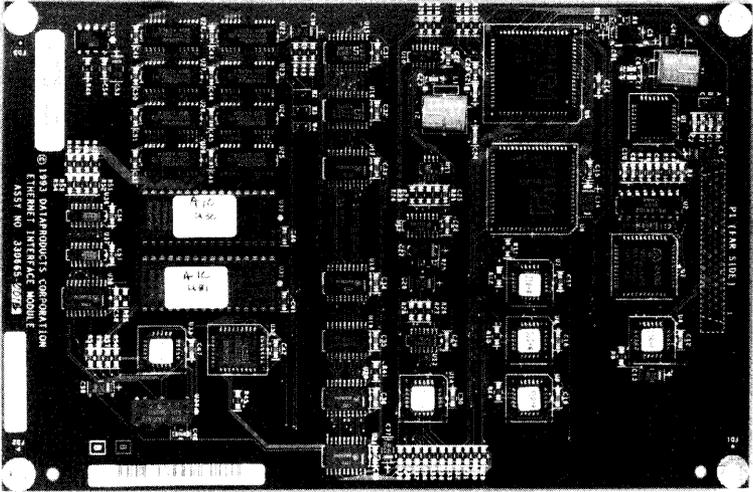
Apple P/N 661-0849



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LaserWriter 810  
Communications Card

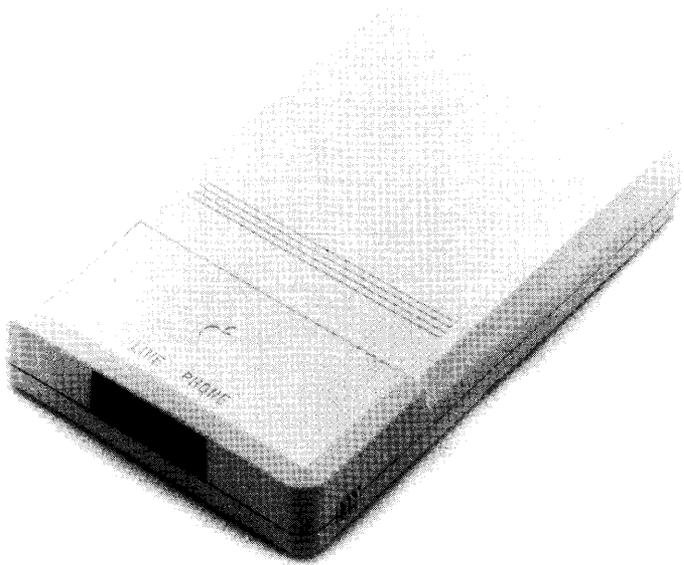
Apple P/N 661-0850



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**LaserWriter Pro 810  
Fax Card**

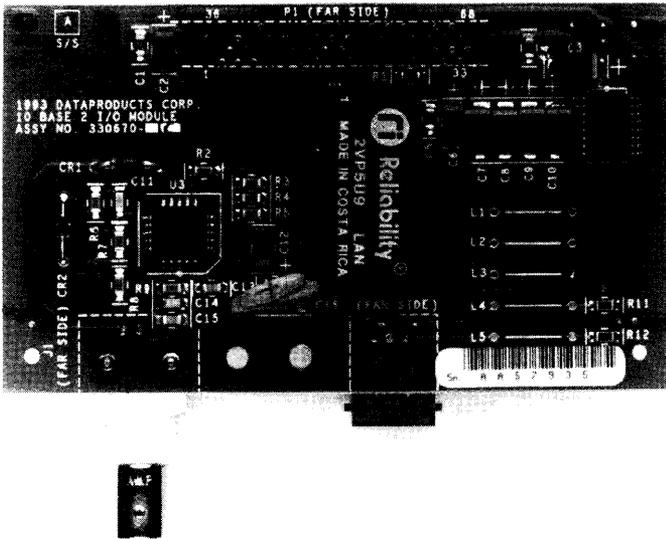
**Apple P/N 661-0851**



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LaserWriter 810  
Ethernet Card

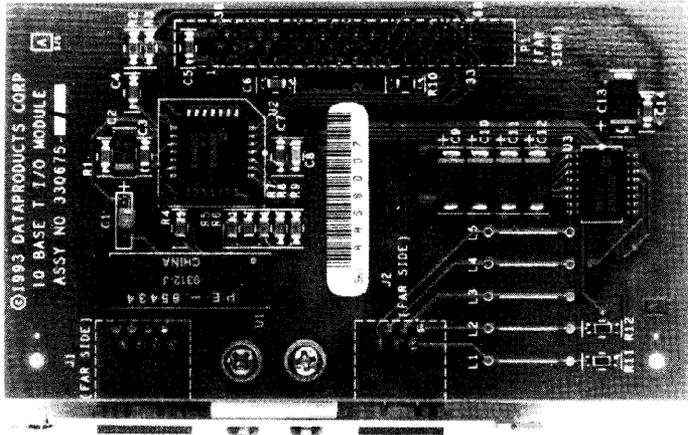
Apple P/N 661-0852



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LaserWriter Pro 810  
Ethernet Card, 10 Base T

Apple P/N 661-0853



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LaserWriter 810  
**Ethernet Card, 10 Base-2**

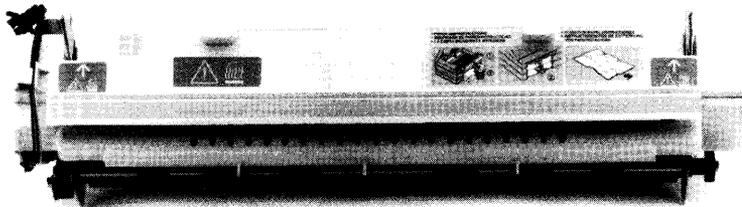
**Apple P/N 661-0854**

**Photograph not available  
at the time of printing**

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**LaserWriter Pro 810  
Fuser, 110 V**

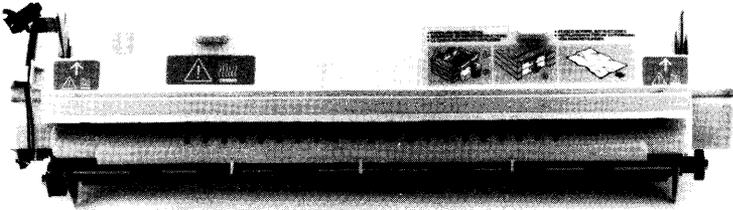
**Apple P/N 661-0857**



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LaserWriter Pro 810  
Fuser, 220 V

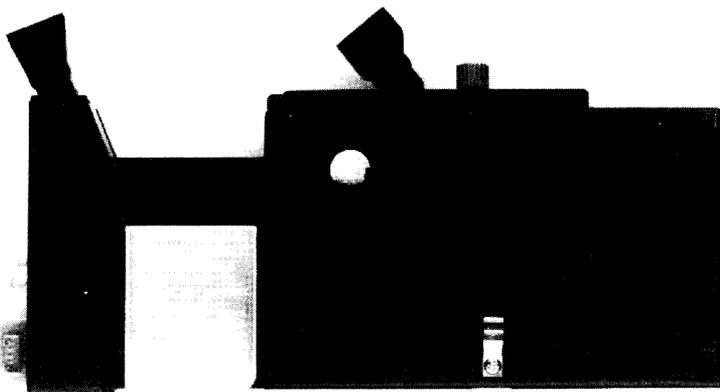
Apple P/N 661-0858



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**LaserWriter Pro 810  
High-Voltage Power Supply**

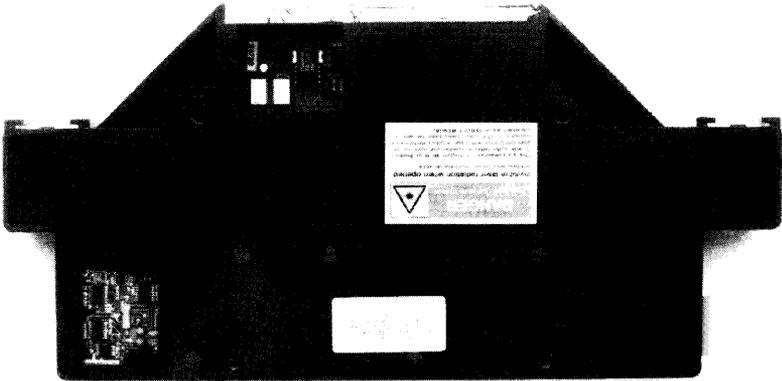
**Apple P/N 661-0860**



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**LaserWriter Pro 810  
Laser/Scanner Unit**

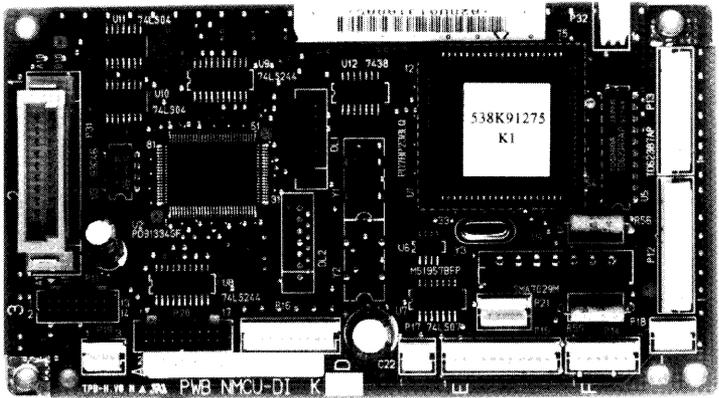
**Apple P/N 661-0865**



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LaserWriter Select  
DC Controller Board

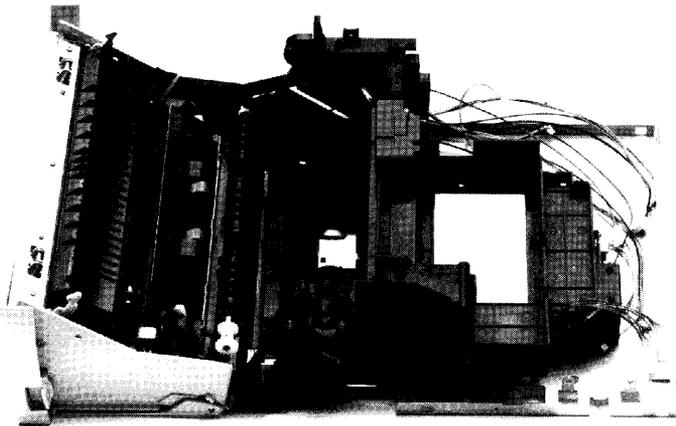
Apple P/N 661-2002



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LaserWriter Select  
**Laser Optic Assembly**

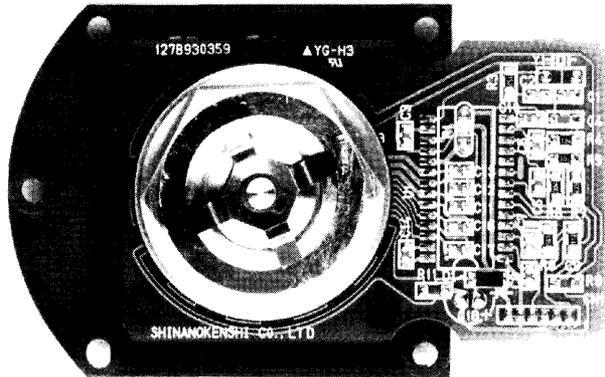
**Apple P/N 661-2003**



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LaserWriter Select  
**Scanner Motor**

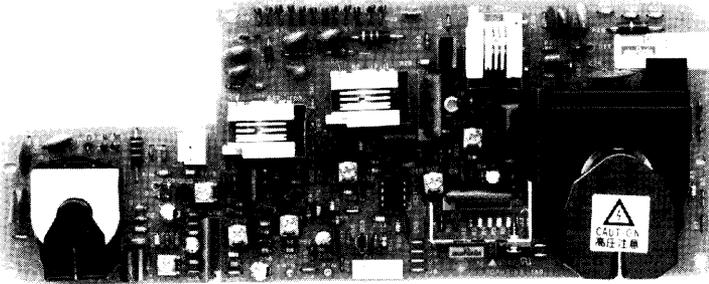
Apple P/N 661-2004



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LaserWriter Select  
**High-Voltage Power Supply**

**Apple P/N 661-2005**

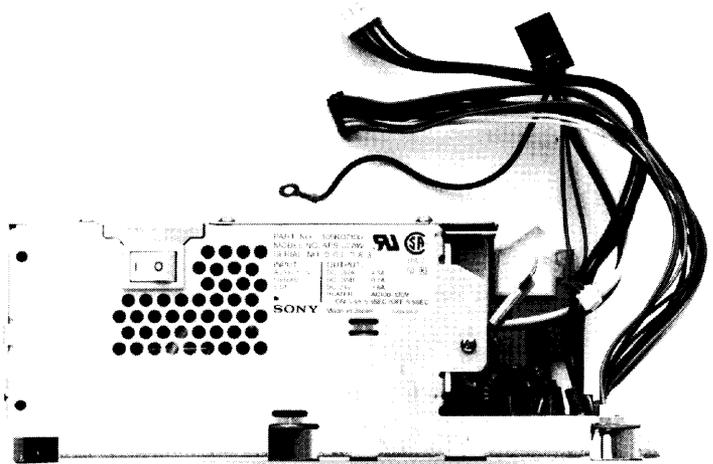


**NOTE:** The high-voltage power supply does not ship with its plastic tray.

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**LaserWriter Select  
Power Supply**

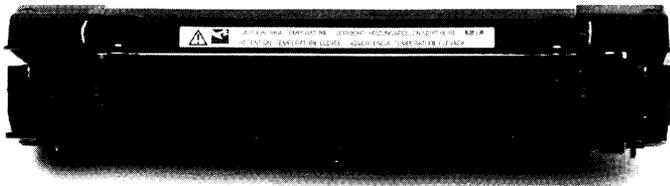
**Apple P/N 661-2006, 110/115 V  
Apple P/N 661-2007, 220/240 V**



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LaserWriter Select  
**Fuser Assembly**

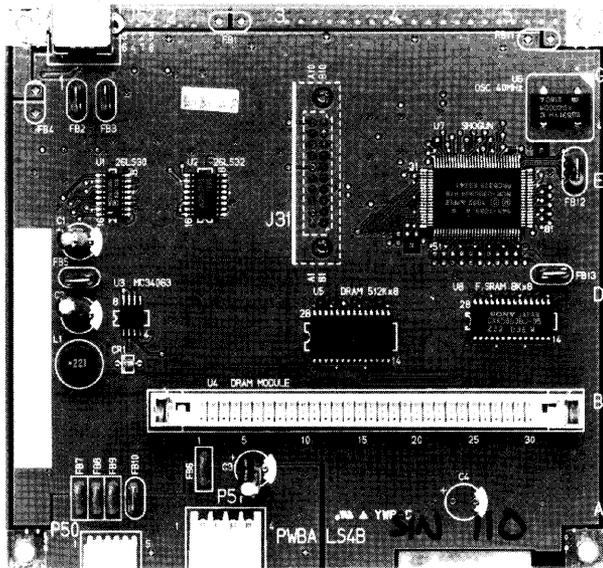
**Apple P/N 661-2008, 110/115 V**  
**Apple P/N 661-2009, 220/240 V**



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LaserWriter Select 300  
I/O Board

Apple P/N 661-2000

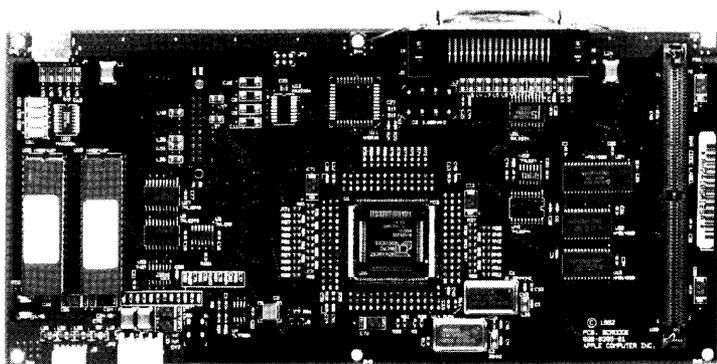


**NOTE:** The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

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## LaserWriter Select 310 I/O Board

Apple P/N 661-2001



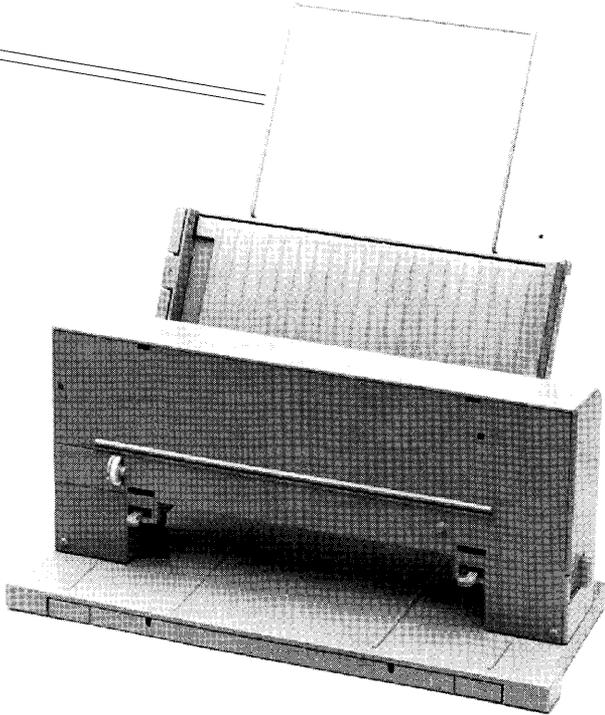
**NOTE:** The replacement I/O board comes without the I/O shield and without SIMMs. Please transfer the I/O shield and all SIMMs from the customer's I/O board to the replacement board before installation. Do not return the I/O shield or the SIMMs to Apple.

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StyleWriter  
Cut Sheet Feeder

Apple P/N 661-0628

See Note



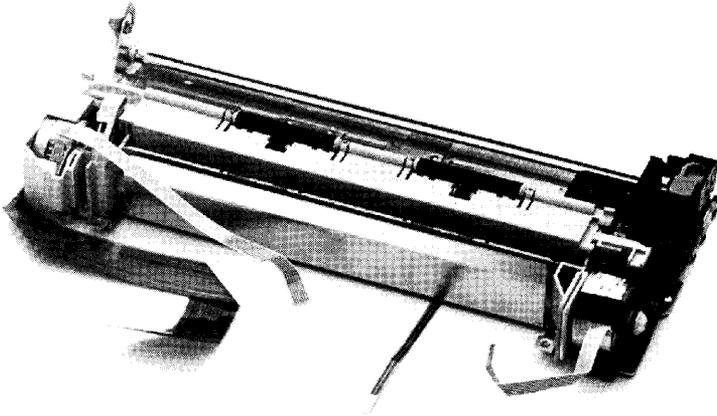
**NOTE:** Remove the paper rod support from the cut sheet feeder, but be sure to include the paper rod support when you return the cut sheet feeder to Apple.

**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* manual for information on special packaging and procedures.

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## StyleWriter Printer Frame Assembly

**Apple P/N 661-0630 (Rev. A)**  
**Apple P/N 661-0718 (Rev. B)**



**NOTE:** Remove the ink cartridge before you return the printer frame to Apple.

The two printer frame assemblies, although they appear identical, are not interchangeable. Please reference the StyleWriter manual in *Service Source* for the information on identifying which printer frame assembly your StyleWriter requires.

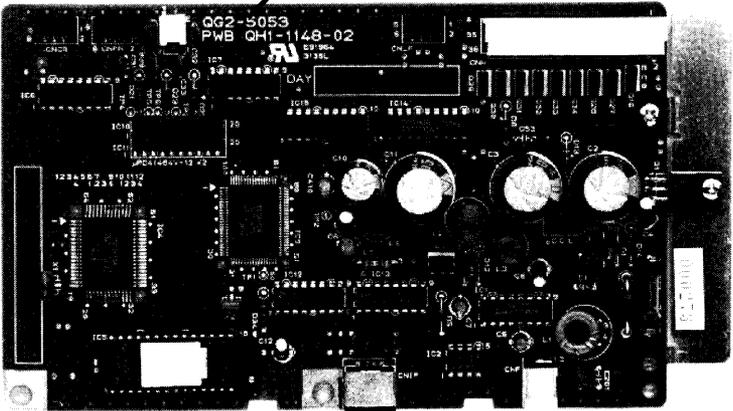
**SPECIAL PACKAGING IS REQUIRED;** failure to comply with these requirements may result in a packaging noncompliance charge. Please refer to the StyleWriter manual in *Service Source* for information on special packaging and procedures.

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## StyleWriter Main Logic Board

Apple P/N 661-0629 (Rev. A)  
Apple P/N 661-0716 (Rev. B)

See Note



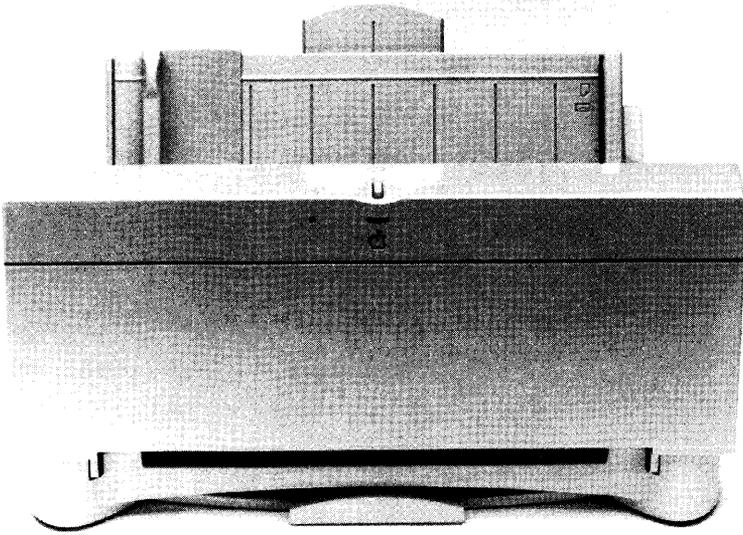
**NOTE:** The two main logic boards, although they appear identical, are not interchangeable. Use the silkscreen part number located on the front of the board. For Apple P/N 661-0629 (Rev. A), the part number is QG2-5053. For Apple P/N 661-0716 (Rev. B), the part number is QG2-2043.

For additional information refer to the StyleWriter manual in *Service Source*.

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**StyleWriter II**  
**Whole Unit, Ink Jet**

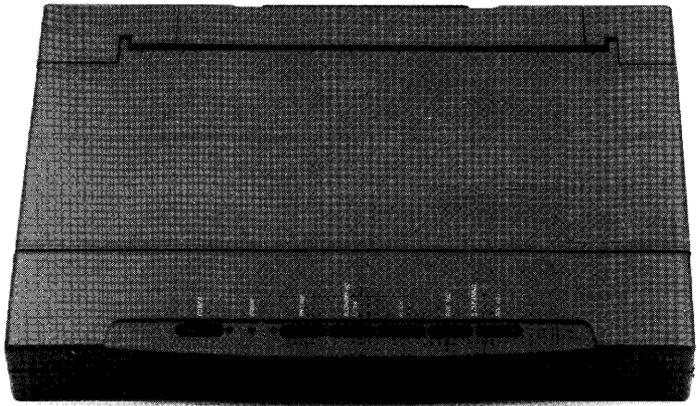
**Apple P/N 661-0785, 120 V**  
**Apple P/N 661-1010, 220 V**



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) **Apple Portable StyleWriter  
Whole Unit**

**Apple P/N 661-0830**



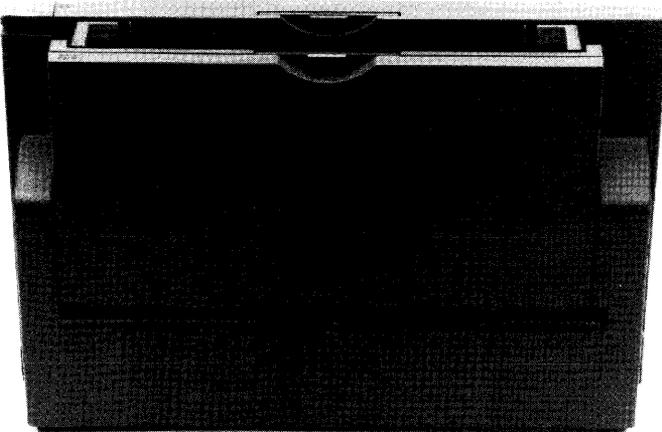
)

**NOTE:** Before you return the Apple Portable StyleWriter, remove the NiCad battery (Apple P/N 661-0866).

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**Apple Portable StyleWriter  
Automatic Sheet Feeder**

**Apple P/N 661-0831**



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Apple Portable StyleWriter  
**Battery, NiCad**

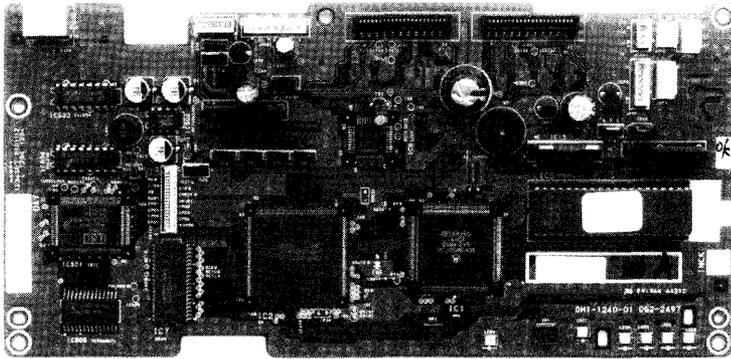
**Apple P/N 661-0866**



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**Apple Color StyleWriter Pro  
Controller Board**

**Apple P/N 661-0876**

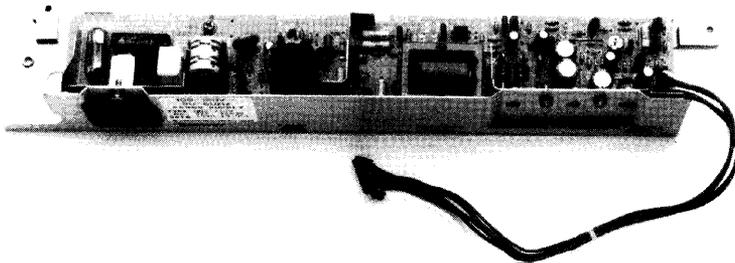


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**Apple Color StyleWriter Pro  
Power Supply**

**Apple P/N 661-0877, 110 V**

**Apple P/N 661-0878, 220/240 V**



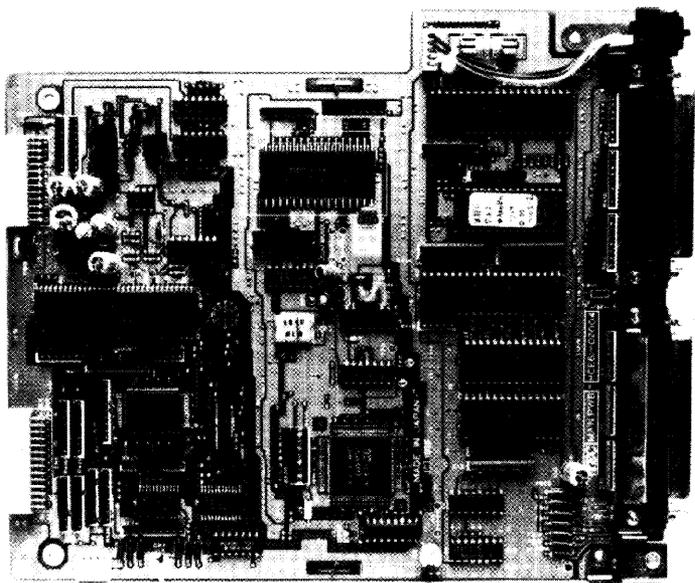


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**Apple Scanner  
Main Logic Board, 4-Bit**

**Apple P/N 661-0430**

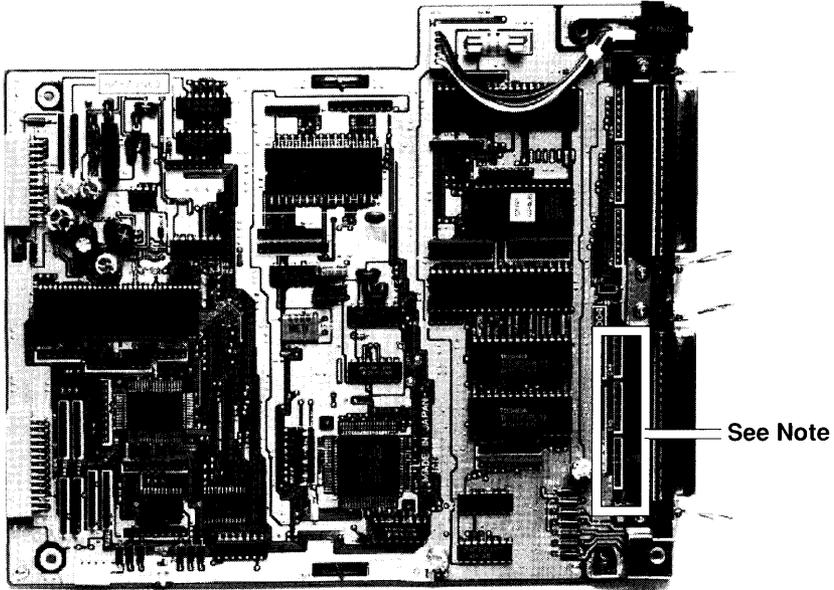
(When you return P/N 661-0430, Apple ships you P/N 661-0534.)



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Apple Scanner  
Main Logic Board, 4-Bit

Apple P/N 661-0534

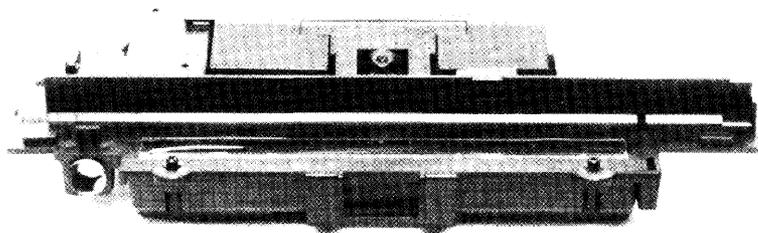


**NOTE:** The absence of capacitors (CA 4,5,6) in these positions indicates that this is a revision B main logic board.

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Apple Scanner  
**Optical Assembly, 4-Bit**

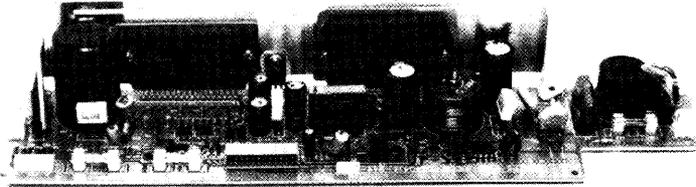
**Apple P/N 661-0449**



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Apple Scanner  
**Power Supply, PCB Assembly**

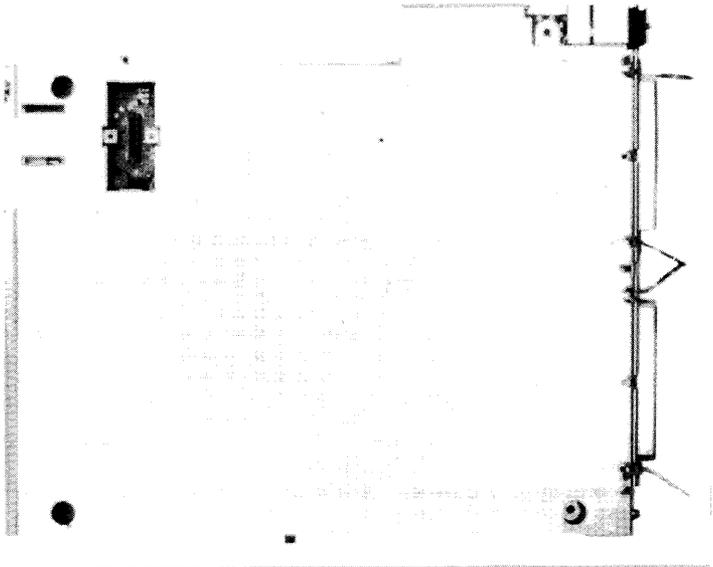
**Apple P/N 661-0431**



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Apple OneScanner  
**Main Logic Board, 8-Bit**

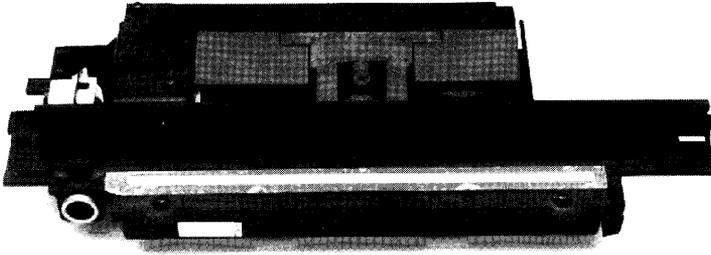
**Apple P/N 661-0635**



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Apple OneScanner  
**Optical Assembly, 8-Bit**

**Apple P/N 661-0634**

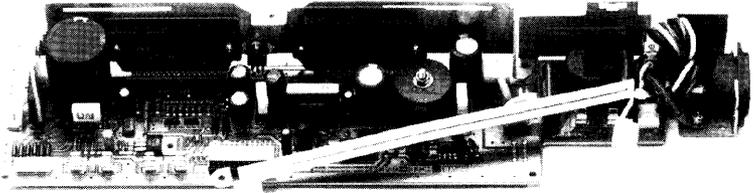


**NOTE:** Remove the inverter assembly and the lamp before you return the optical assembly to Apple.

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Apple Color OneScanner  
**Power Supply, PCB Assembly, 24-Bit**

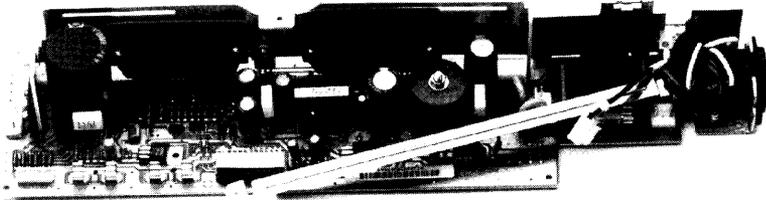
**Apple P/N 661-0738**



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Apple Color OneScanner  
**Power Supply, PCB Assembly, 240 V  
24-Bit (International Only)**

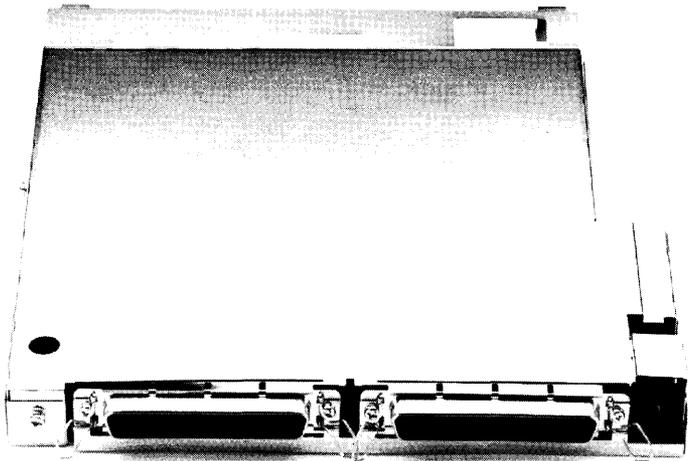
**Apple P/N 661-0810**



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Apple Color OneScanner  
**Main Logic Board, 24-Bit**

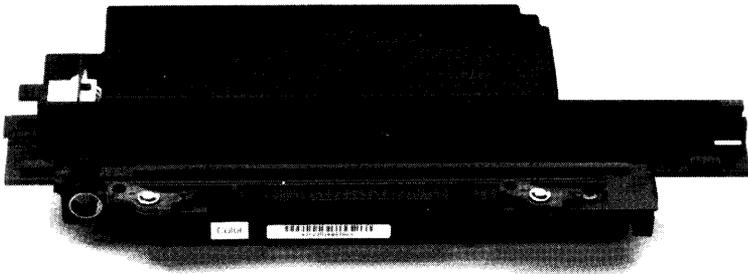
**Apple P/N 661-0740**



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Apple Color OneScanner  
**Optical Assembly, 24-Bit**

**Apple P/N 661-0739**

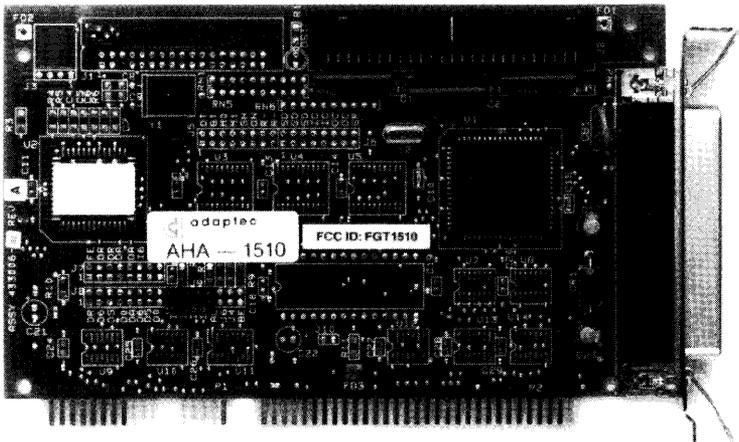


**NOTE:** Return the Apple Color OneScanner optical assembly with the lamp in place. The replacement comes with a lamp installed.

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OneScanner for Windows  
SCSI Card

Apple P/N 661-0737



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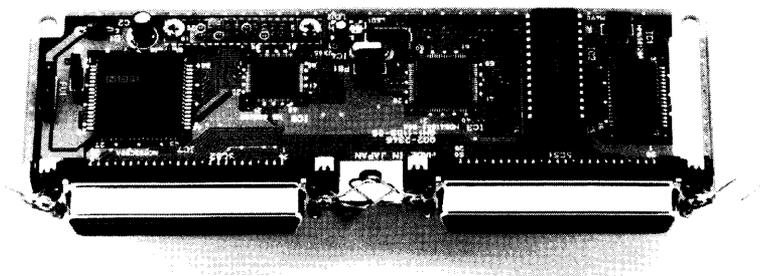
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**Apple Color Printer  
SCSI Card Assembly**

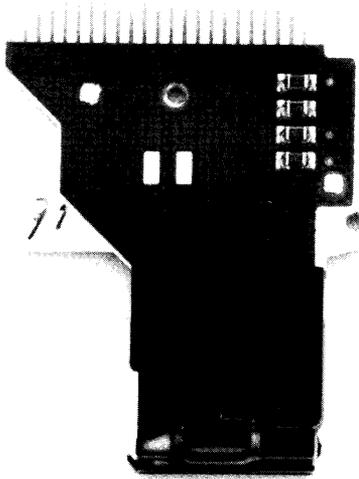
**Apple P/N 661-1674**



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Apple Color Printer  
**Bubble-Jet Head Unit**

**Apple P/N 661-1685**



# Input Devices



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Apple  
**Desktop Bus Mouse**

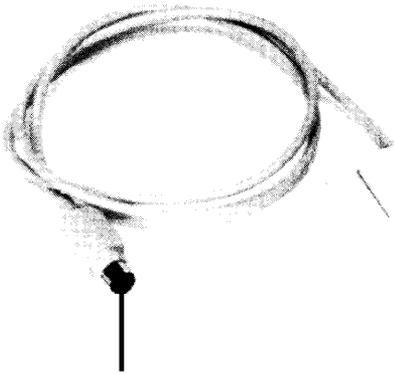
**Apple P/N 661-0338**

(When you return P/N 661-0338, Apple ships you P/N 661-0763.)

**Apple P/N 661-0479**

(When you return P/N 661-0479, Apple ships you P/N 661-0763.)

**Apple P/N 661-0585**



See Note

**NOTE:** This mouse has a 4-pin connector.

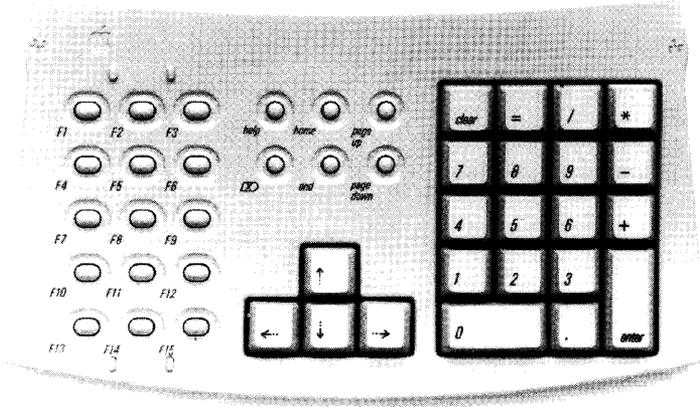
P/N 661-0479 has a low-power  icon on the bottom label;

P/N 661-0338 does not. Because P/N 661-0585 has a ferrite EMI filter, use this device only on the Macintosh Portable.

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Apple  
**Adjustable Keypad**

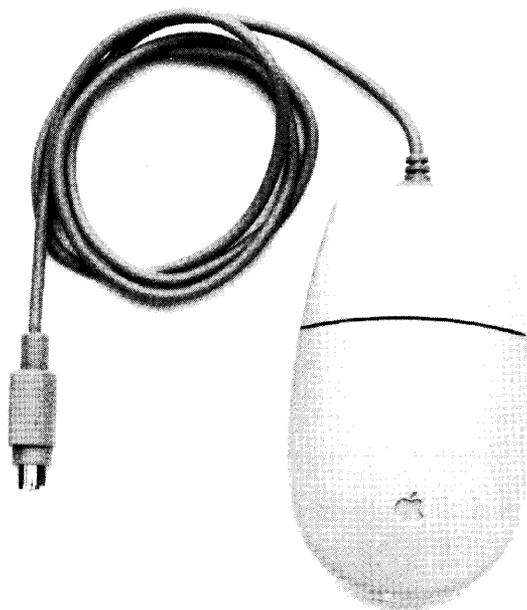
**Apple P/N 661-0762**



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Apple  
**Desktop Bus Mouse II**

**Apple P/N 661-0763**



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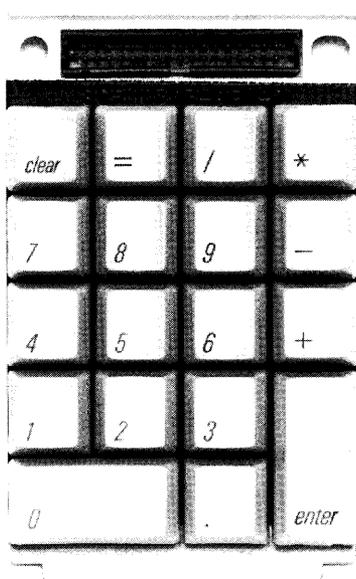
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## Macintosh Portable Numeric Keypad

Apple P/N 661-0477  
Apple P/N 661-0477 PA/Z

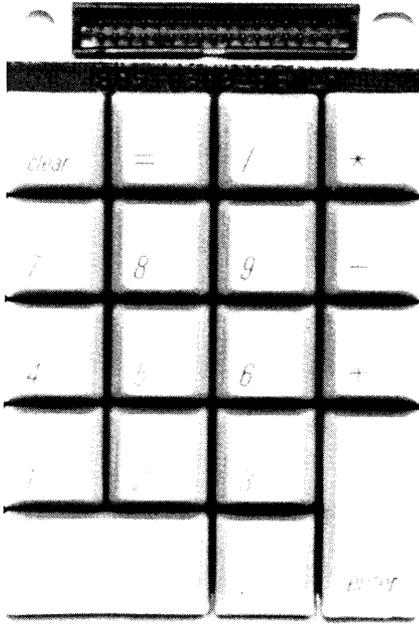


**NOTE:** The Macintosh Portable numeric keypad comes in two versions: the original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version with the same mounting plate as the defective keypad.

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## Macintosh Portable Lightweight Numeric Keypad

Apple P/N 661-1611

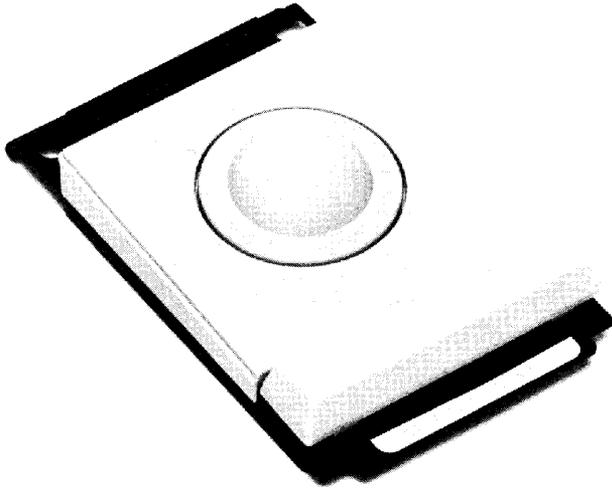


**NOTE:** The Macintosh Portable numeric keypad comes in two versions: the original version (661-0477) has a steel mounting plate with a black finish; the new version (661-1611) has an aluminum mounting plate with a silver finish. When you replace a numeric keypad, use the version with the same mounting plate as the defective keypad.

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Macintosh Portable  
**Trackball Assembly**

**Apple P/N 661-0475**



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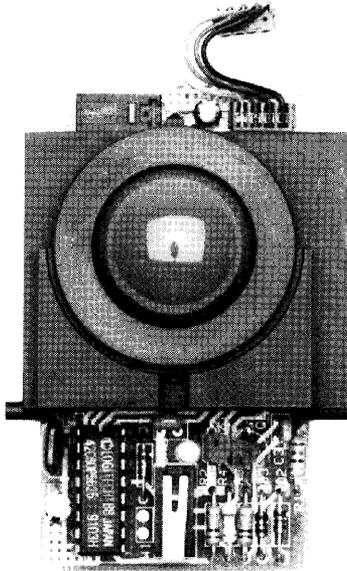
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**PowerBook 100  
Trackball Assembly**

**Apple P/N 661-0676**

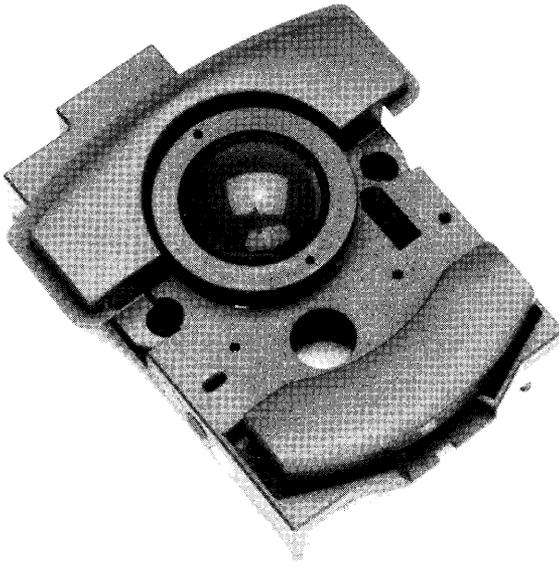


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PowerBook 140/145/160/170/180  
**Trackball Assembly**

**Apple P/N 661-0710**

(When you return P/N 661-0710, Apple ships you P/N 661-0730.)



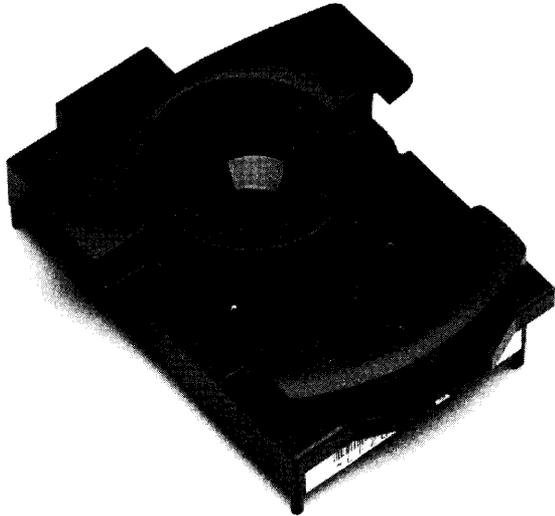
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PowerBook 140/145/145B/160/165/165c/170/  
180/180c

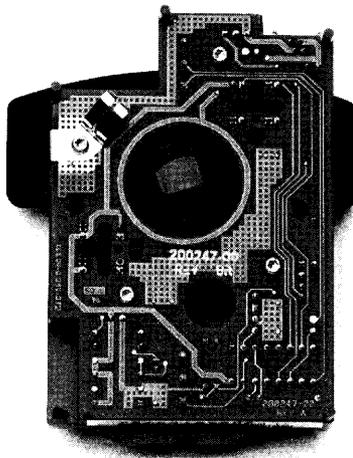
**Trackball Assembly**

**Apple P/N 661-0730**

**Top**



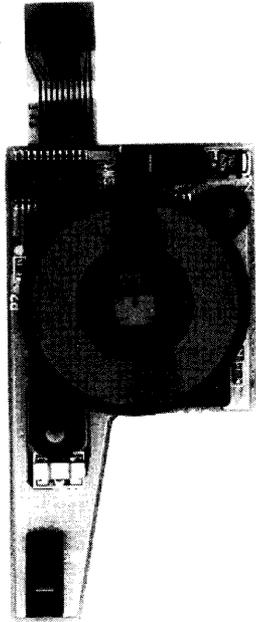
**Bottom**



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PowerBook Duo 210/230/250/270c  
**Trackball Assembly**

**Apple P/N 661-1654**

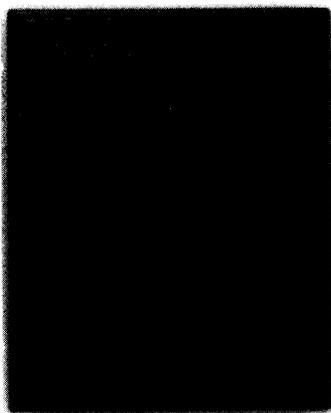


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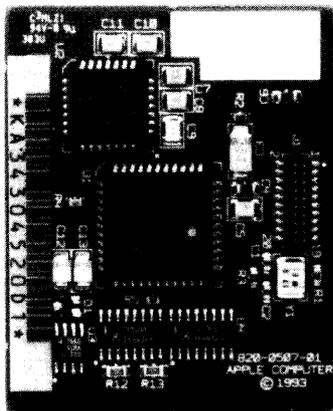
PowerBook 520/540 Series  
TrackPad

Apple P/N 661-0038

Top



Bottom



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Macintosh TV  
**Apple Desktop Bus Mouse II**

**Apple P/N 661-1723**

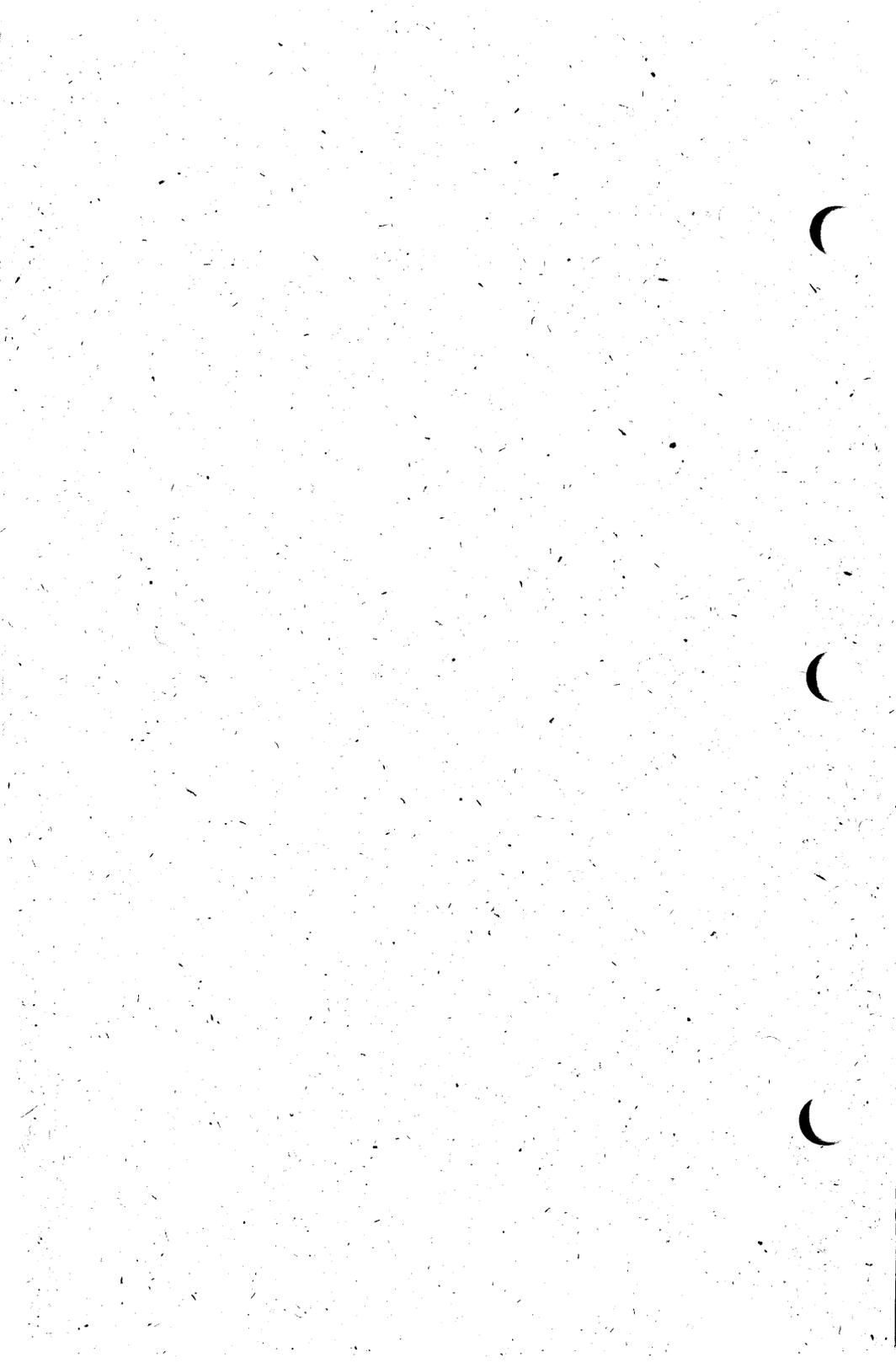


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# Miscellaneous



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Apple TechStep  
**TechStep Assembly**

**Apple P/N 661-0703**



**NOTE:** DO NOT return ROM packs, port pack, or battery with this module.

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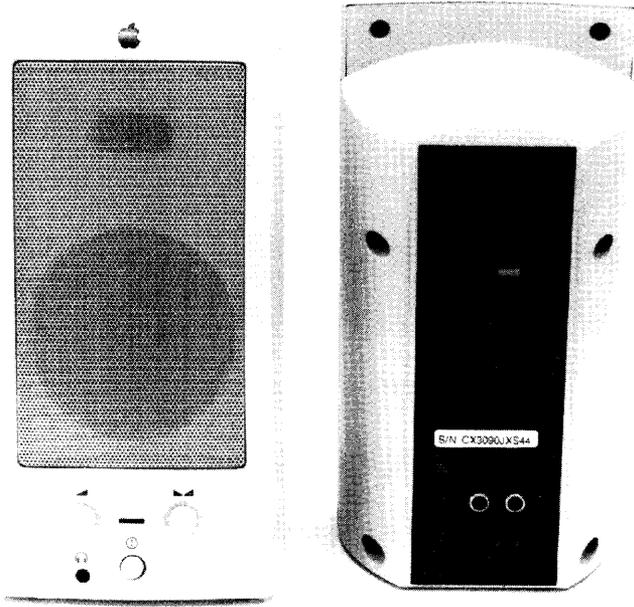
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AppleDesign Powered Speakers  
**Main Speaker**

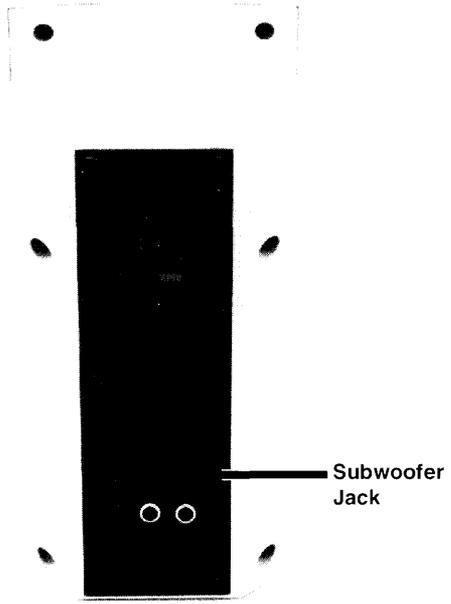
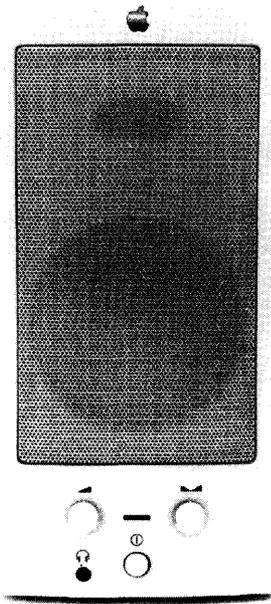
**Apple P/N 661-1689**



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AppleDesign Powered Speakers  
**Main Speaker with Subwoofer Jack**

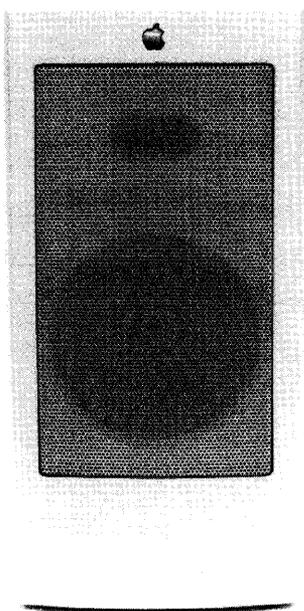
Apple P/N 661-1737



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AppleDesign Powered Speakers  
**Main Speaker**

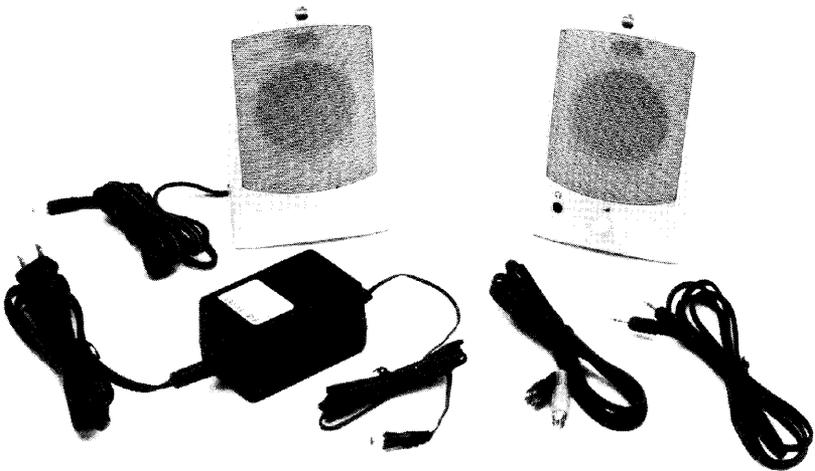
**Apple P/N 661-1716**



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AppleDesign Powered Speakers II  
**Speaker Assembly (Platinum)**

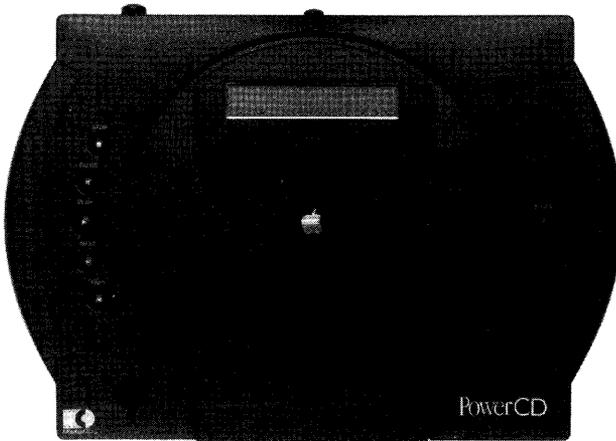
**Apple P/N 661-0048**



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Power CD  
Player

**Apple P/N 661-1697, NTSC, Blue**  
**Apple P/N 661-1726, NTSC, Gray**  
**Apple P/N 661-1728, PAL, Blue**  
**Apple P/N 661-1727, PAL, Gray**



**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 SCSI Hard Drive manual in *Service Source*.

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Power CD

**Base, Battery Pack/SCSI**

**Apple P/N 661-1730, Gray**

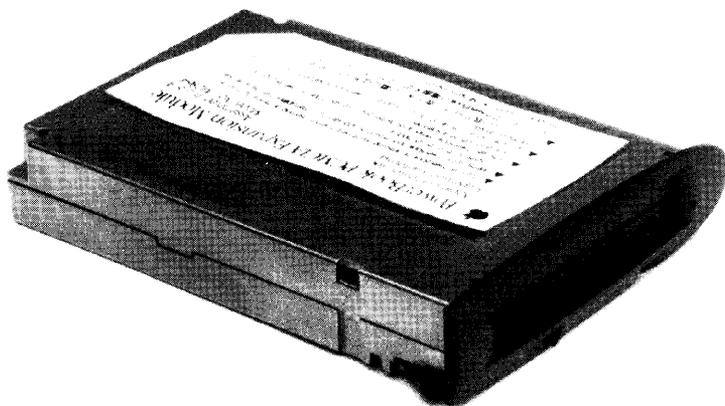
**Apple P/N 661-1729, Blue**



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**PowerBook 520/540 Series  
PCMCIA Expansion Module**

**Apple P/N 661-0137**



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