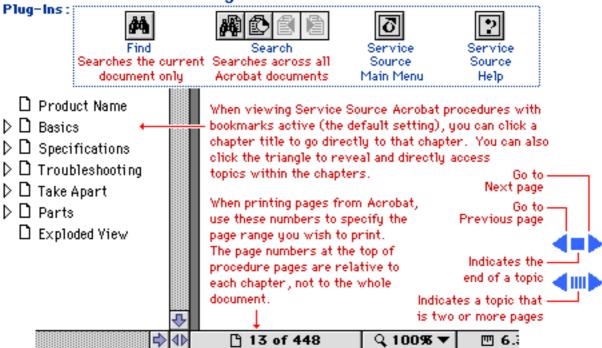


Macintosh IIvx, IIvi, Performa 600

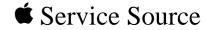
Macintosh Ilvx, Macintosh Ilvi, Performa 600



Basic Navigation Within Service Source







Basics

Macintosh IIvx, Macintosh IIvi, Performa 600





Overview

This manual includes complete repair procedures for the Macintosh IIvx, Macintosh IIvi, and Performa 600.

Figure: Macintosh Ilvx, Ilvi, and Performa 600

00





Specifications

Macintosh IIvx, Macintosh IIvi, Performa 600





Processors

Motorola 68030 microprocessor
Built-in memory management unit (MMU)
Macintosh Ilvi: 16 MHz
Macintosh Ilvx, Performa 600: 32 MHz

Coprocessor Macintosh Ilvx: Motorola 68882 floating-point unit (FPU)

Cache Macintosh Ilvx: 32K

Addressing

32-bit internal registers32-bit address bus32-bit data bus





Memory

RAM 4, 5, or 8 MB, expandable to 68 MB

ROM 1 MB

PRAM 256 bytes of parameter memory

VRAM

With 512K VRAM, these video modes are supported:

With 1 MB VRAM, these video modes are supported:

512K or 1 MB, upgradable to 1 MB

- 512 by 384 pixel screens with 2, 4, 8, and 16 bits per pixel
- 640 by 480 pixel screens with 2, 4, and 8 bits per pixel
- \bullet 512 by 384 pixel screens with 2, 4, 8, and 16 bits per pixel
- 640 by 480 pixel screens with 2, 4, 8, and 16 bits per pixel





Disk Storage

- Floppy Drive 1.4 MB floppy drive
- Hard Drive 80–400 MB hard drive
- CD-ROM Drive Optional CD-ROM drive





Specifications

1/O Interfaces

- ExpansionThree NuBus slotsOne accelerator slot
- SCSI One SCSI port; DB-25 connector Supports a maximum of six external devices
- Apple Desktop BusTwo Apple Desktop Bus (ADB) ports
Low-speed synchronous serial interface

Serial

Two RS-232/RS-422 serial ports; mini DIN-8 connectors 230.4 Kbaud maximum 0.92 Mbit/sec., if external clock source is provided



Specifications		1/0 Interfaces - 5
Sound	One sound output port for stereo playback from Monaural input port	CDs
Video	One video port DB-15 connector Supports Apple monitors (8-bit)	





I/O Devices

Keyboard	Standard or Extended Keyboard connected through Apple Desktop Bus (ADB) ports (mini DIN-4) Maximum power draw for all ADB devices: 500 mA Keyboard draws 25-80 mA
Mouse	ADB mouse Draws up to 80 mA

MicrophoneElectret, omnidirectional microphoneMicrophone output voltage is 4 mV peak to peak at normal
speaking volume





Sound and Video

Apple Monitor

Specifications

Macintosh Ilvi/vx and Performa 600 video support includes these Apple monitors:

- Apple Color Display
- Macintosh 12-in. Monochrome Display
- Macintosh 12-in. RGB Display
- AppleColor High-Resolution RGB Monitor
- Apple Performa Display/Plus

Third-PartyNubus video cards allow the computer to support other non-AppleMonitorsVGA, NCST, and PAL monitors

Sound

Custom Sound Chip drives stereo miniature headphone jack





Electrical

A/C Line Input	Line voltage: 100–120 VAC
	Power: 200 W

A/C Line Output Output receptacle: 100–240 VAC 3 A maximum

DC Power

112 W maximum





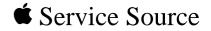
Physical

Temperature	Operating: 10-40° C (50-104 ° F)
	Storage -40 to 47° C (-40 F to 116.6° F)

Relative Humidity 5–95% noncondensing

Altitude Zero to 10,000 ft. (3,048 m)





Troubleshooting

Macintosh IIvx, Macintosh IIvi, Performa 600





General

The Symptom Charts included in this chapter will help you diagnose specific symptoms related to your product. Because cures are listed on the charts in the order of most likely solution, try the first cure first. Verify whether or not the product continues to exhibit the symptom. If the symptom persists, try the next cure. (Note: If you have replaced a module, reinstall the original module before you proceed to the next cure.)

If you are not sure what the problem is, or if the Symptom Charts do not resolve the problem, refer to the Flowchart for the product family.

For additional assistance, contact Apple Technical Support.





Troubleshooting

Symptom Charts

Video

Screen is dark, audio and at least one drive operate, fan is running, and LED is lit

Screen is dark, audio and drive do not operate, fan is running, and LED is lit

- 1 Adjust brightness on monitor.
- 2 Replace monitor. Refer to appropriate monitor manual to troubleshoot defective monitor.
- 3 Replace video cable.
- 4 Replace VRAM SIMMs.
- 5 Replace logic board. Retain customer's SIMMs.
- 1 Remove peripherals.
- 2 Remove NuBus cards.
- 3 Replace DRAM SIMMs.
- 4 Replace VRAM SIMMs.
- 5 Replace power supply.
- 6 Replace logic board.





Video (Continued)

Partial or whole screen is bright and audio is present, but no video information is visible

Screen is completely dark, fan is not running, and LED is not lit

- 1 Replace monitor. Refer to appropriate monitor manual to troubleshoot defective monitor.
- 2 Replace video cable.
- 3 Replace VRAM SIMMs.
- 4 Replace logic board. Retain customer's SIMMs.
- 1 Verify that external power cables are properly connected.
- 2 Remove peripherals.
- 3 Remove NuBus cards and switch on power again. (Combined NuBus cards should not draw more than 45 watts.)
- 4 Remove accelerator card.
- 5 Replace power supply.
- 6 Replace logic board. Retain customer's SIMMs.





Floppy Drive

1

Audio and video are present, but internal floppy drive does not operate

Floppy disk ejects, and display shows Mac icon with blinking "X"

Floppy disk does not eject

- Replace internal floppy drive cable.
- 2 Replace internal floppy drive.
- 3 Replace logic board. Retain customer's SIMMs.
- 1 Replace floppy disk.
- 2 Replace floppy drive cable.
- 3 Replace internal floppy drive.
- 4 Replace logic board. Retain customer's SIMMs.
- 1 Switch off system and hold mouse button down while switching system on.
- 2 Eject disk manually.
- 3 Replace floppy drive cable.
- 4 Replace floppy drive.





Floppy Drive (Continued)

Floppy drive attempts to eject disk but doesn't

- Push floppy disk completely in.
- 2 Eject floppy disk manually.
- 3 Replace floppy drive.

1





Hard Drive

Internal hard drive runs continuously

- 1 Replace SCSI data cable.
- 2 Replace internal hard drive.
- 3 Replace logic board. Retain customer's SIMMs.

Internal hard drive does not operate

- 1 Replace SCSI data cable.
- 2 Replace SCSI power cable.
- 3 Replace hard drive.
- 4 Replace logic board. Retain customer's SIMMs.





CD-ROM Drive

CD-ROM drive does not accept a compact disc

- 1 Exchange disc (if disc is dirty or damaged).
- 2 Replace CD-ROM drive mechanism.

Macintosh does not display CD-ROM drive icon

- 1 Verify that CD-ROM extension is in System Folder.
- 2 Replace CD-ROM drive mechanism.
- 3 Replace power supply.
- 4 Replace SCSI data cable.





Peripherals

Works with internal or external SCSI device, but does not work with both

- 1 Verify that SCSI select switch on any external device is set differently from any internal SCSI device.
- 2 Verify that hard drive is terminated but optional CD-ROM is not terminated.
- 3 Replace terminator on external SCSI device.
- 4 Replace SCSI select cable on external SCSI device.

Cursor does not move

- 1 Reboot computer.
 - 2 Verify that mouse is connected properly.
 - 3 If mouse was connected to keyboard, connect mouse to computer ADB port instead. If mouse works, replace keyboard.
- 4 If mouse does not work in any ADB port on computer, replace mouse.
- 5 Replace logic board. Retain customer's SIMMs.



Peripherals (Continued)

Cursor moves, but clicking the mouse button has no effect

Double-click does not open application, disk, or server

- 1 Replace mouse.
- 2 Replace logic board. Retain customer's SIMMs.
- 1 Remove duplicate system files from hard drive.
- 2 Clear parameter RAM. Hold down <Shift> <Option> <P> <R> during startup but before "Welcome to Macintosh" appears.
- 3 If mouse was connected to keyboard, connect mouse to computer ADB port instead. If mouse works, replace keyboard.
- 4 If mouse does not work in any ADB port on computer, replace mouse.
- 5 Replace logic board. Retain customer's SIMMs.





Peripherals (Continued)

No response to any key on the keyboard

- 1 Verify that keyboard is connected to ADB port.
- 2 Replace keyboard cable.
- 3 Replace keyboard.
- 4 Replace logic board. Retain customer's SIMMs.

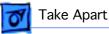


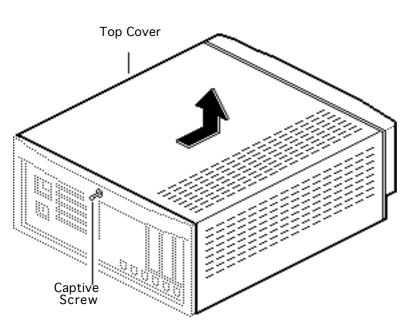


Take Apart

Macintosh IIvx, Macintosh IIvi, Performa 600







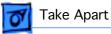
Top Cover

No preliminary steps are required before you begin this procedure.

- 1 Loosen the captive screw.
- 2 Slide the top cover toward the front of the computer about 1 inch and lift off the cover.

Replacement Note: Do not jar the reset/interrupt switch and light pipe out of alignment when you replace the top cover.

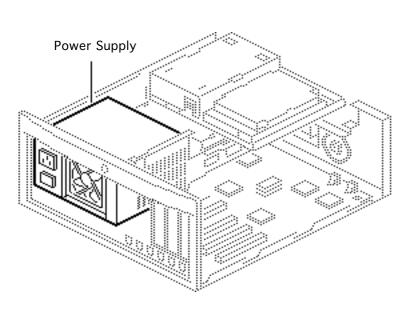




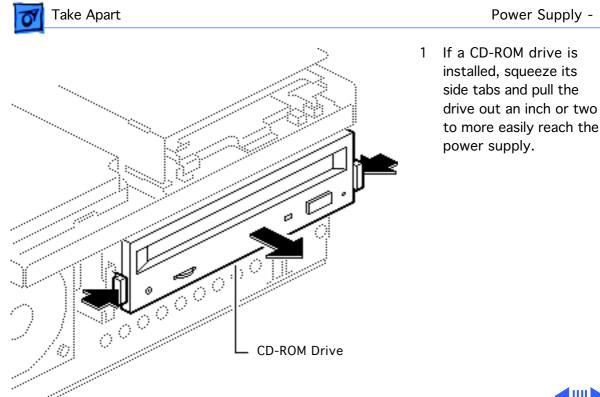
Power Supply

Before you begin, remove the cover.

Caution: Review the ESD precautions in Bulletins/ Safety.

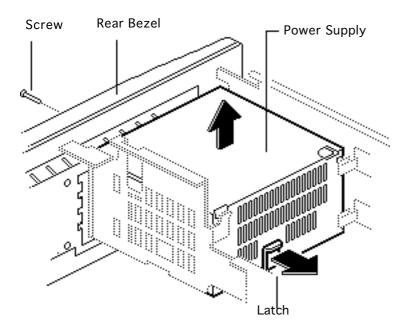








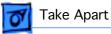




- 2 Remove the screw from the rear bezel.
- 3 Pry the latch away from the base of the power supply.
- 4 **Note:** A firm lifting motion is necessary to disconnect the power supply's connector from the logic board.

Grasp the power supply and firmly lift it out of the internal chassis.





Internal Chassis in and the second

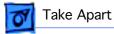
Internal Chassis

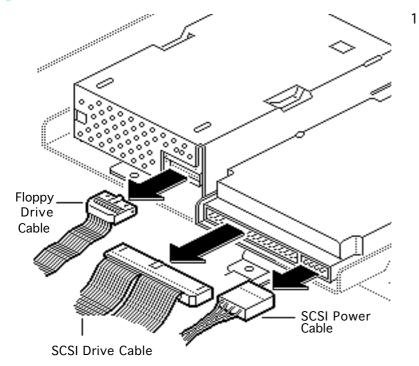
Before you begin, remove the following:

- Cover
- Power supply

Caution: Review the ESD precautions in Bulletins/ Safety.



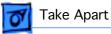


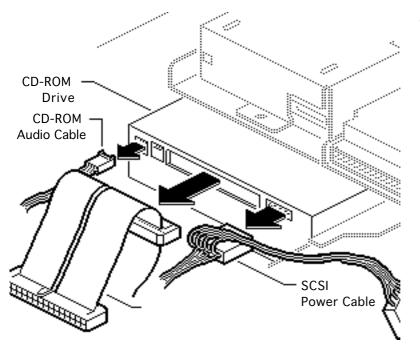


Disconnect these cables:

- Floppy drive cable
- SCSI power cable
- SCSI data cable





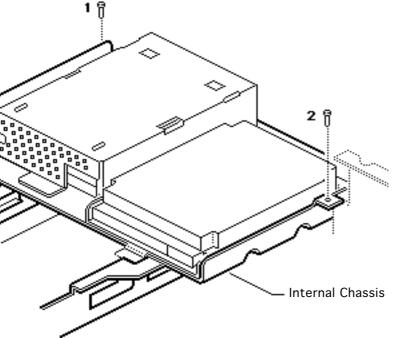


- 2 If a CD-ROM drive is installed, disconnect these cables:
 - SCSI power cable
 - SCSI data cable
 - CD-ROM audio cable



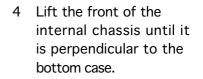


3 Remove the two screws that secure the internal chassis.

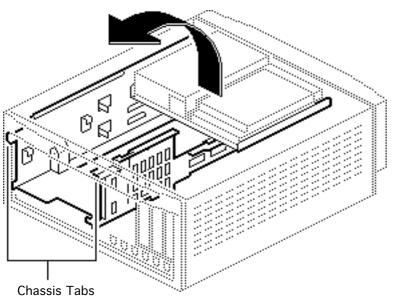








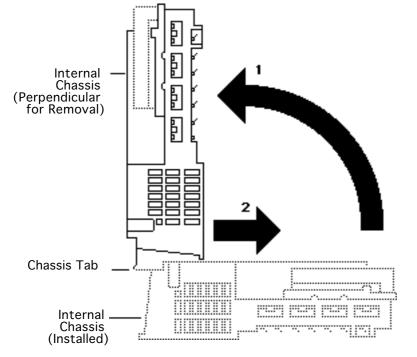
Note: The chassis swivels where the chassis tabs meet the bottom cover.



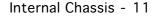




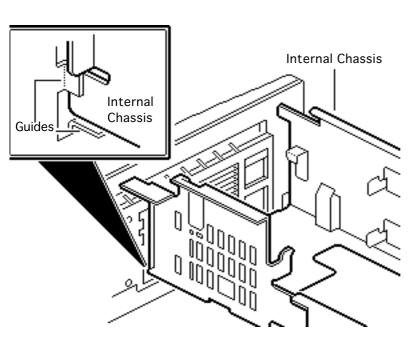
5 Guide the chassis tabs out of the slots in the bottom case and remove the internal chassis.







🚮 Take Apart



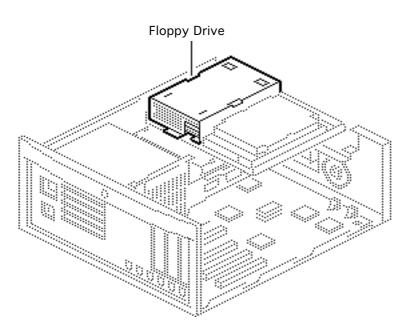
Replacement Note:

Carefully seat the bottom corners of the internal chassis into the guides in the case bottom.





Take Apart



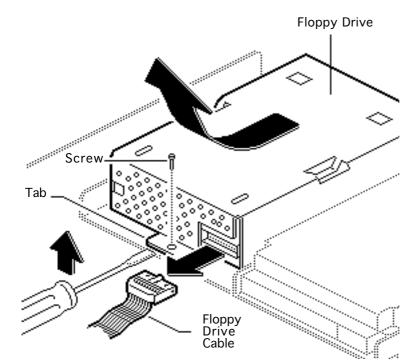
Floppy Drive

Before you begin, remove the cover.



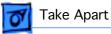


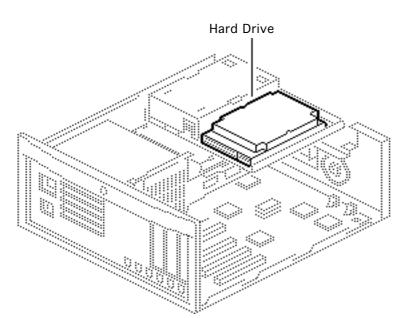
Take Apart



- 1 Disconnect the floppy drive cable from the floppy drive.
- 2 Remove the floppy drive mounting screw.
- 3 Pry up the mounting tab and slide out the floppy drive.

Replacement Note: You may encounter either an autoinject or manual-inject 1.4 MB floppy drive. Replace floppy drives like for like.



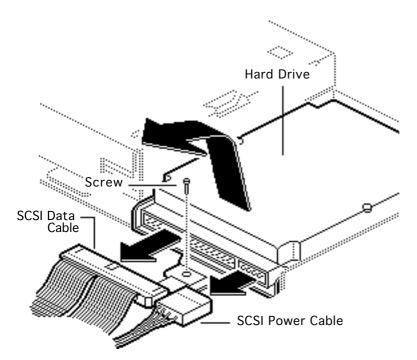


Hard Drive

Before you begin, remove the cover.







- Disconnect the SCSI data cable and the SCSI power cable from the hard drive.
- 2 Remove the hard drive mounting screw from the carrier.
- 3 Lift the back of the hard drive and slide the hard drive carrier out of the internal chassis.



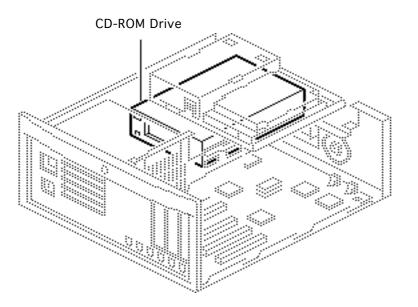


Take Apart

Replacement Note: For information on removing the hard drive from the carrier and returning drives, cables, and carriers to Apple, refer to Additional Procedures in the Hard Drives manual.







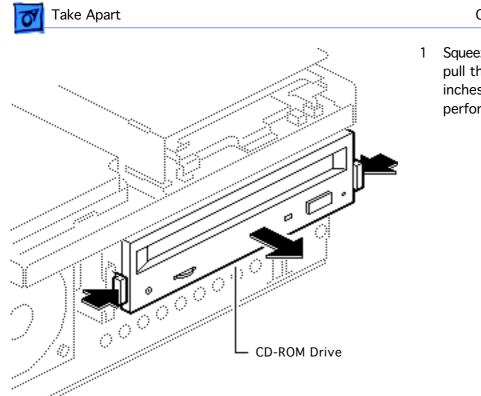
CD-ROM Drive

Before you begin, remove the cover.

Caution: Review the ESD precautions in Bulletins/ Safety.

Note: A CD-ROM Drive is optional.

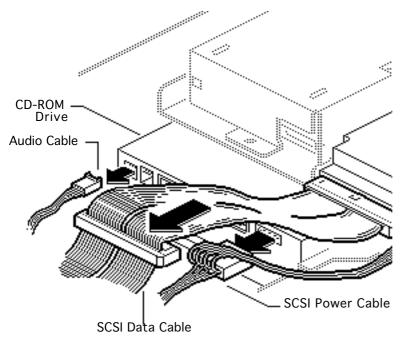




 Squeeze the side tabs and pull the drive out a few inches to more easily perform the next step.

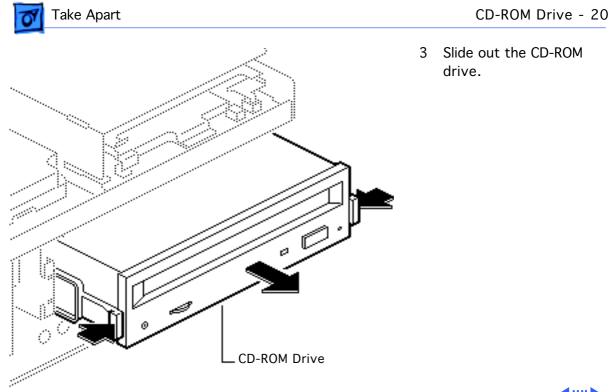




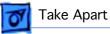


- 2 Disconnect these cables from the CD-ROM drive:
 - Audio cable
 - SCSI power cable
 - SCSI data cable

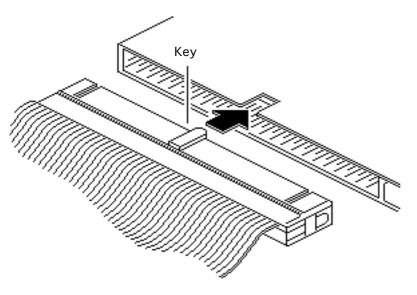








Replacement Note: The connectors on the SCSI data cable are keyed. You may need to twist the cable to insert the connector properly.

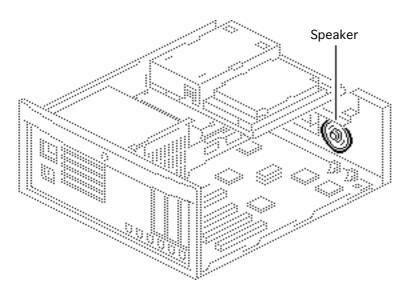




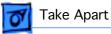


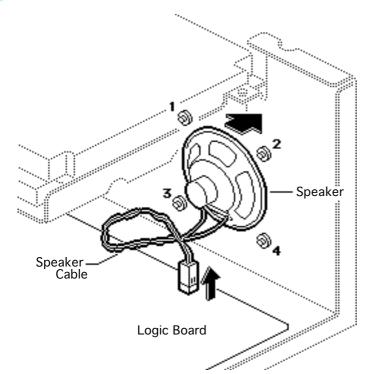
Speaker

Before you begin, remove the cover.







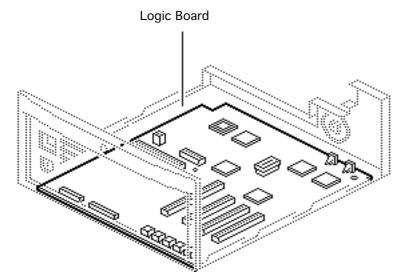


- 1 Disconnect the speaker cable from the logic board.
- 2 Remove the speaker mounting screws and pull out the speaker.

Note: Speakers are installed with four or two screws, depending on the version of speaker.







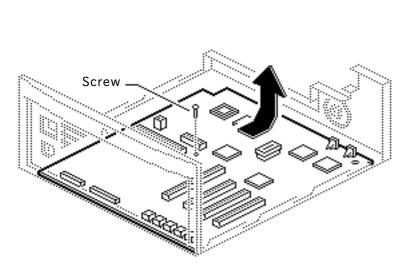
Logic Board

Before you begin, remove the following:

- Cover
- Power supply
- Internal chassis
- Reset/Interrupt switch
- Speaker





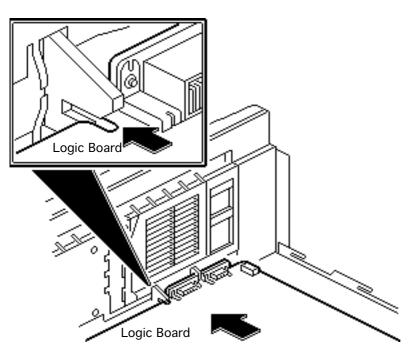


- 1 Remove the screw from the center of the logic board.
- 2 Slide the logic board toward the front of the computer about 1/2 inch and lift the board out of the case.





Take Apart



Replacement Note: Remove the customer's SIMMs from the defective logic board and install them on the replacement logic board.

Replacement Note: Be sure to install the correct logic board.

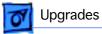
Replacement Note: Position the center rear edge of the logic board into the plastic bracket and slide the board straight back.

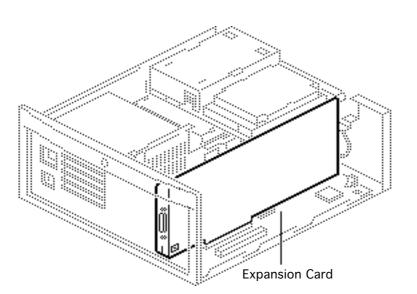


Upgrades

Macintosh IIvx, Macintosh IIvi, Performa 600





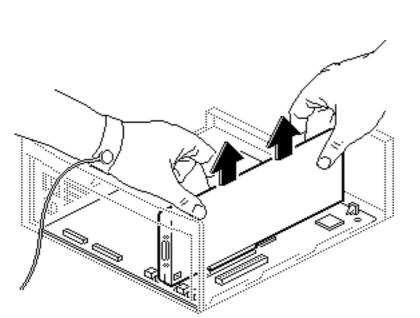


Expansion Cards

Before you begin, remove the cover.







1 **Caution:** Pull up evenly on both sides of the card to avoid bending the connector pins.

> Carefully grasp each end of the card and pull straight up to remove it.

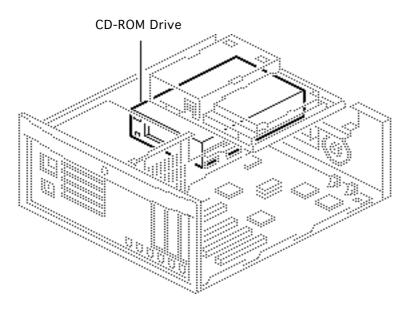
> **Replacement Caution:** When replacing the card, do not force it into the expansion slot. If the card does not seat properly, remove it and try again.



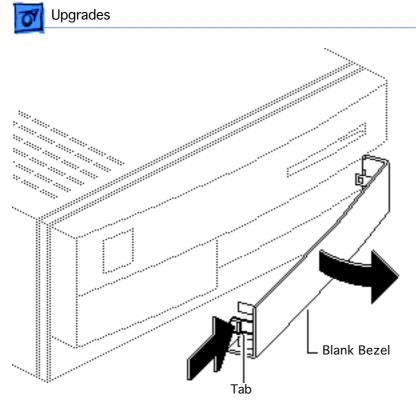


CD-ROM Drive Upgrade

Before you begin, remove the cover.

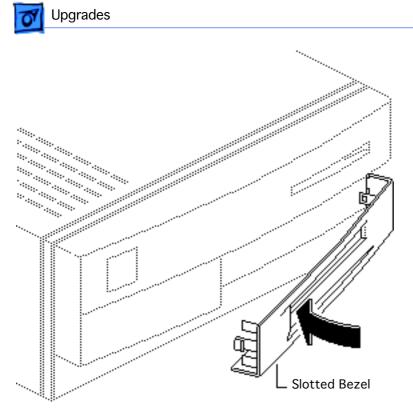






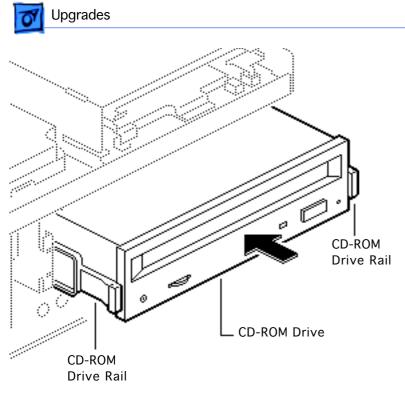
1 From the inside of the top cover, squeeze in the tabs of the blank bezel and push out the bezel.





2 Push in the slotted bezel.

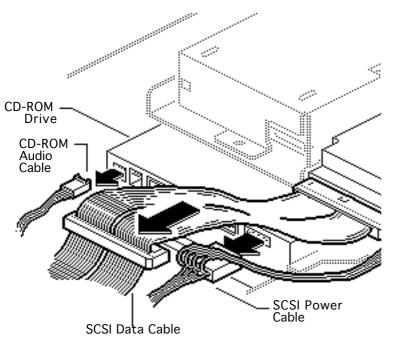




- 3 Attach the CD-ROM drive rails to the CD-ROM drive.
- 4 Slide the CD-ROM drive about three quarters of the way into the internal chassis.



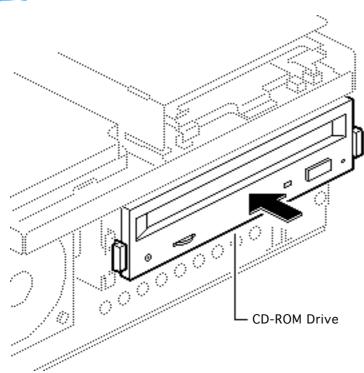




- 5 Connect these cables to the CD-ROM drive:
 - CD-ROM audio cable
 - SCSI data cable
 - SCSI power cable



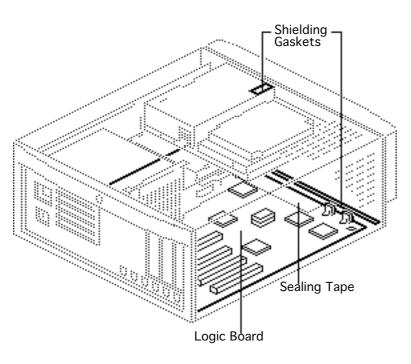




6 Push the CD-ROM drive completely into the CD-ROM slot until you hear a click.





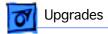


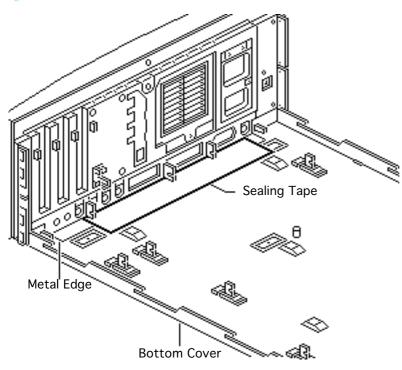
IIvx to Macintosh Centris 650 Upgrade

Before you begin, remove the following:

- Top cover
- Power supply
- Internal chassis
- Reset/Interrupt switch
- Speaker
- Logic board







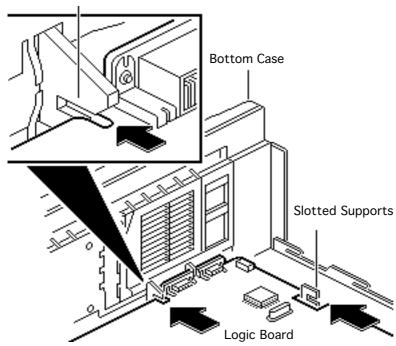
Note: The Macintosh Centris 650 Upgrade Kit upgrades a Macintosh IIvx to a Macintosh Centris 650. The upgrade kit includes a Macintosh Centris 650 logic board, EMI shielding gaskets, sealing tape, and product name labels.

- 1 Remove the backing from the sealing tape.
- 2 Position the sealing tape over the metal edge of the bottom cover. Press firmly and secure the tape to the metal edge and





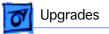
Plastic Bracket

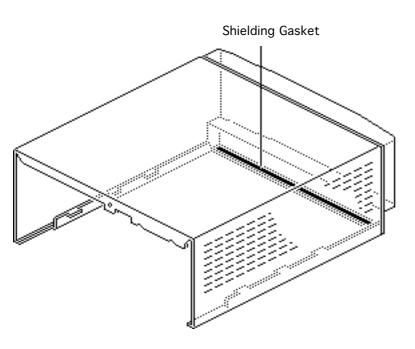


the floor of the bottom cover.

- 3 Position the center rear edge of the logic board in the plastic brackets on the bottom case.
- 4 Lay the logic board flat. Align the notches in the board with the slotted supports.
- 5 Slide the board straight back.



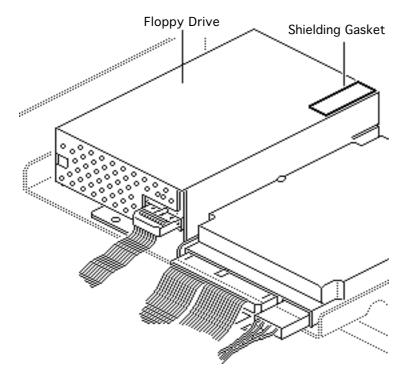




6 Secure the long strip of the shielding gasket along the bottom edge of the top cover.

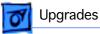






7 Secure the smaller shielding gasket on the floppy drive as shown.



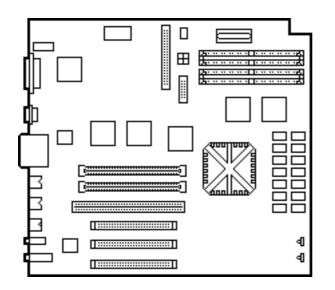


Power Macintosh Upgrade

No preliminary steps are required before you begin this procedure.

The Macintosh IIvx, IIvi, and Performa 600 computers can be upgraded to a Power Macintosh 7100/66 or 7100/66AV. For upgrade instructions, refer to Additional Procedures in the Power Macintosh 7100 manual.





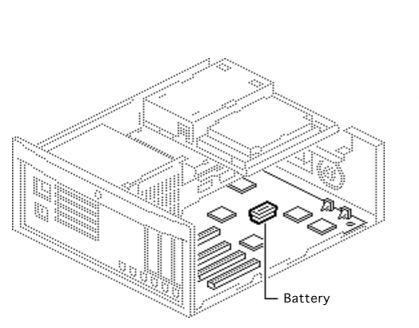


Additional Procedures

Macintosh IIvx, Macintosh IIvi, Performa 600







Battery Verification

Before you begin, remove the cover.

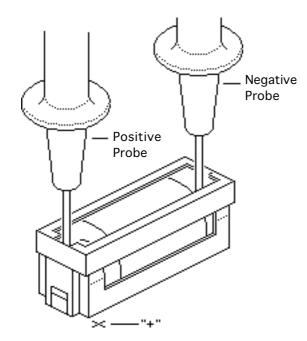
Caution: Review the ESD precautions in Bulletins/ Safety.

Awarning: If handled or discarded improperly, the lithium battery in the computer could explode. Review battery handling and disposal instructions in Bulletins/Safety.





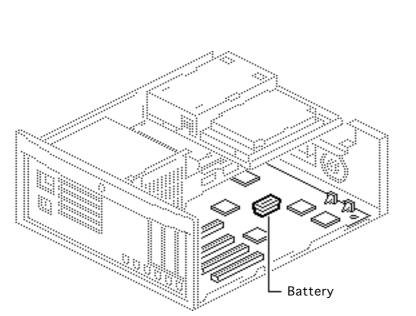
Additional Procedures



- 1 Set the voltmeter to the 10 volts DC scale.
- 2 Hold the positive probe of the voltmeter to the positive end of the battery (marked "+" on the logic board) and the negative probe to the negative end of the battery.
- 3 If the battery voltage is below 2.8 volts, replace the battery. Refer to "Battery Replacement" in this chapter.







Battery Replacement

Before you begin, remove the cover.

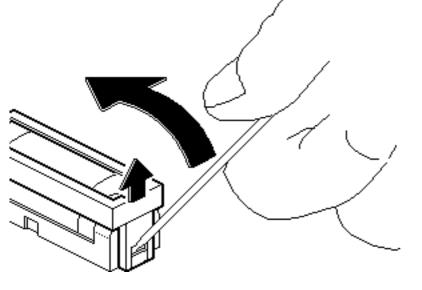
Caution: Review the ESD precautions in Bulletins/ Safety.

Awarning: If handled or discarded improperly, the lithium battery in the computer could explode. Review battery handling and disposal instructions in Bulletins/Safety.





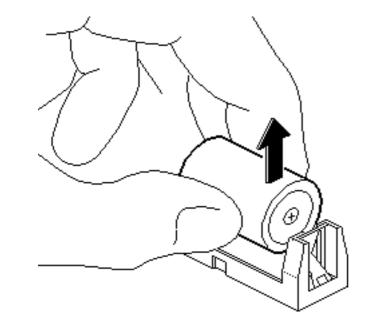
 Using a small flat-blade screwdriver, pry open the latch at the end of the battery holder and lift off the cover.







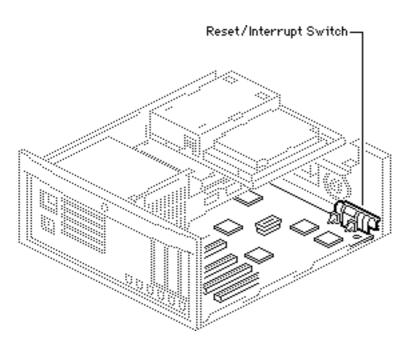
Additional Procedures



- 2 Grasp the battery and remove it from the holder.
- 3 Return the battery to Apple for proper disposal. For battery packaging and labeling instructions, refer to the safety information in Bulletins/Safety.







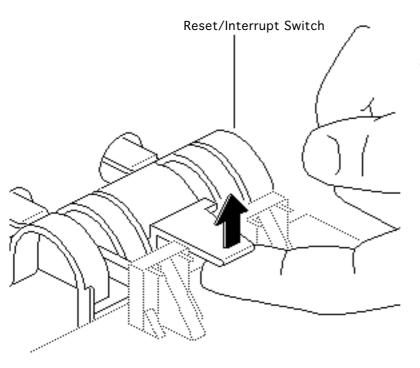
Reset/Interrupt Switch

Before you begin, remove the cover.

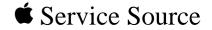
Caution: Review the ESD precautions in Bulletins/ Safety.







- 1 With one finger, lift the center tab of the switch.
- 2 Gently lift the rear of the switch up and away from the front of the case.



Parts

Macintosh IIvx, Macintosh IIvi, Performa 600





Actuator, Reset/Interrupt (replaced by 922-1260)

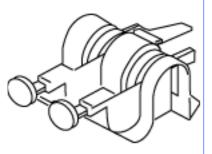
S.







Actuator, Reset/Interrupt







Battery, Lithium, without Leads

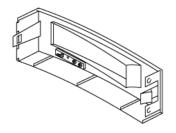








Bezel, CD 300, Slotted

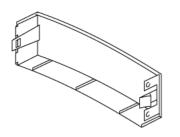






Bezel, CD-ROM Drive, Blank

922-0060



This part has been replaced by 922-1373.





Bezel, CD-ROM Drive, Trayloading, Pkg. of 5







Bezel, Front, Apple SuperDrive, Manual Insert Floppy







Board, Logic, Macintosh Ilvi





Board, Logic, Macintosh Ilvx

Siddered ROM ROM SIMM







Board, Logic, Performa 600





Cable Assembly, CD-ROM, Audio (Replaced by 922-0842)







Cable Assembly, HDA/CD ROM, SCSI













Cable, Floppy Drive

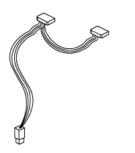






Cable, Power, Hard Drive/CD-R0M

922-0051



This power cable is used with the Power Macintosh 7100/66 and 7100/66AV models. It is NOT compatible with the 7100/80 and 7100/80AV models.







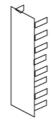
Cable, Power, 110 V, Smoke







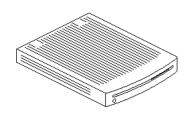
Cap, Nubus







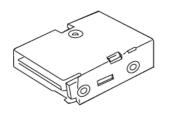
Carrier, 1.4MB, Floppy Mnl Insert







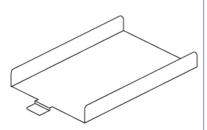
Carrier, 800K/SuperDrive







Carrier, Hard Drive







CD Caddy





CD-ROM, 300i Drive



Special Packaging is Required. Pkg: 602-0188 Failure to comply with these requirements may result in a packaging noncompliance charge. Refer to Service Prices for ordering and pricing information.







CD-ROM Drive, Apple CD 300+, Trayloading









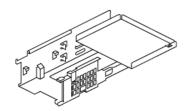
CD-ROM Drive, Apple CD 300, Caddy Loading







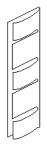
Chassis, Internal







Clip, EMI Bottom Case











Cover, Battery Holder







Facilitation Warranty Reimbursement, Per Repair





Feet, Rubber, Pkg. of 20







Floppy Drive, Apple SuperDrive 1.4 MB

You can identify the 1.4 MB drive mechanism by the 2 MB designation on the blue model number label, on the right side of the module.

When returning the defective drive to Apple, assemble the shipping fixture and remove the drive cable. Special Packaging Is Required:

Pkg: #602-0210 Surcharge: \$50.00
Failure to comply with these requirements may result in a packaging noncompliance surcharge. Please refer to Service
Prices for ordering and pricing information.
Note: Service is removing dust shields from standard packaging. Drives will be shipped with either carriers 805-5050 or 805-0961.

Use this drive in the Macintosh LC and LCII.





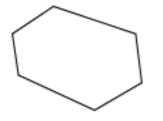
Floppy Drive, Apple SuperDrive, 1.4 MB, Manual Insert







Foot, Platinum (Replaced by 922-0040)







Hard Drive, 160 MB, SCSI, 3.5" (Discontinued)

This part has been discontinued. For replacement of parts covered under warranty or AppleCare®, order 661-1750. For replacement of out-of-warranty parts, refer to the parts list in the Service Source manual for the product you are repairing.







Hard Drive, 230 MB, SCSI, 3.5" (Discontinued)



This part has been discontinued. For replacement of parts covered under warranty or AppleCare®, order 661-1750. For replacement of out-of-warranty parts, refer to the parts list in the Service Source manual for the product you are repairing.







Hard Drive, 250 MB, SCSI, 3.5"

661-0890



This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock.



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Hard Drive, 350 MB, SCSI, 3.5"

661-0182



This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock.





Hard Drive, 400 MB, SCSI, 3.5" (replaced by 661-0219)



Compatibility:

This drive can be used in the following:

- Macintosh IIvx
- •Performa 600
- •Quadra 700
- •Quadra 900/950

Cable Return Requirements: Return the defective drive without cables.

Carrier Return Requirements: Return the defective drive without a carrier.

Special Packaging is Required. Pkg: #602-1023 Surcharge: \$150.00







Failure to comply with these requirements may result in a packaging noncompliance surcharge. Please refer to Service Prices for ordering and pricing information.







Hard Drive, 80 MB, SCSI, 3.5" (Discontinued)

This part has been discontinued. For replacement of parts covered under warranty or AppleCare®, order 661-1750. For replacement of out-of-warranty parts, refer to the parts list in the Service Source manual for the product you are repairing.



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Hard Drive, 500 MB, SCSI, 3.5", In-Warranty Exchange Only



Only order this part number when exchanging a failed hard drive that meets both of the following conditions: 1) the failed hard drive is covered under warranty or AppleCare®, and 2) the like-for-like replacement hard drive has been discontinued.

Apple has made every effort to maintain LED support in its exchange program; however, some drives no longer support an LED. We regret any inconvenience this may cause.



Parts

Hard Drive, 160 MB, SCSI, 3.5", HD Adapter Support (Discontinued)



This part has been discontinued. For replacement of parts covered under warranty or AppleCare®, order 661-1750. For replacement of out-of-warranty parts, refer to the parts list in the Service Source manual for the product you are repairing.





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Hard Drive, 500 MB, SCSI, 3.5"

661-0219



This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock. All replacement drives will be shipped without carriers.

Cable Return Requirements: Return the defective drive without cables.

Carrier Return Requirements: Return the drive without a carrier.

Special Packaging Requirements: Pkg: #602-0282 Surcharge: \$150.00

Failure to comply with these requirements may result in a packaging noncompliance surcharge. Please refer to Service Price Pages for ordering and pricing information.





Hard Drive, 500 MB, SCSI, 3.5"

661-0974



This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock.







Hard Drive, 80 MB, SCSI, 3.5" (Discontinued)

661-0111



This part has been discontinued. For replacement of parts covered under warranty or AppleCare®, order 661-1750. For replacement of out-of-warranty parts, refer to the parts list in the Service Source manual for the product you are repairing.





Hard Drive, 800 MB, SCSI, 3.5"

661-1102



This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock.





Hard Drive, 1 GB, SCSI, 3.5"

661-0228

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This drive is one of the recommended replacement choices for an out-of-warranty hard drive that's been discontinued. This drive may not be exchanged for the failed, out-ofwarranty drive, but must be ordered as stock.

All replacement drives will be shipped without carriers. Return the defective drive without cables, carrier, hard drive frame, LED cable, or SCSI select cable. Special Packaging Requirements: Pkg: #602-0282 Surcharge: \$150.00.

Failure to comply with these requirements may result in a packaging noncompliance surcharge. The drive warranty will be void and Apple will return the module to the service provider without repair if the drive bar code label, manufacturer identification label, Apple capacity or EPROM





label, or labels that say "Warranty Void if Seal Broken" have been tampered with or removed.





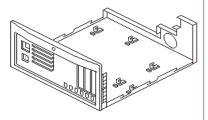
Hook, Logic Board, Snap-In







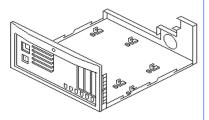
Housing, Bottom Case







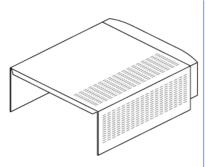
Housing, Bottom, (replaced by 922-0406)







Housing, Top Cover

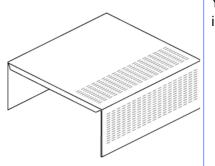






Housing, Top

922-0405



You must order gasket part number 922-0887 and install it in the top housing assembly.



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Keyboard, Apple Adjustable







Keyboard, AppleDesign (Discontinued and Replaced by 922-2832)



The US version of this keyboard must now be ordered as 922-2832. Orders are no longer accepted for 661-0310. Do not return this keyboard to Apple. The international versions of this keyboard (661-0310 B/D/F/E/S/T) are still valid part numbers and should be returned to Apple for replacement.









Keyboard, AppleDesign







Keyboard, AppleDesign, British



B661-0310





Keyboard, AppleDesign, French Canadian







Keyboard, AppleDesign, French



F661-0310



Keyboard, AppleDesign, German





Keyboard, AppleDesign, Italian

T661-0310







Keyboard, AppleDesign, Spanish

E661-0310







Keyboard, Apple Desktop Bus (replaced by 661-0603)



Internationally localized versions of this module may be ordered by utilizing P/Ns 661-0337B/D/F/T. Keyboard is to be returned to Apple without the cable. 63





Keyboard, Apple Extended (Replaced by 661-0543)







Keyboard II, Apple Extended







Keyboard II, Apple







Keypad, Apple Adjustable, Int'l, w/Decimal Point (,)







Keypad, Apple Adjustable, Int'l, w/Decimal Point (.)







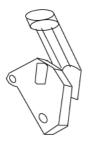
Keypad, Apple Adjustable







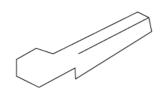
Light Pipe, Hard Drive







Light Pipe, Power On







Microphone Assembly









Microphone Assembly







Mouse II, Apple Desktop Bus, Version A

661-0763



This module is replaced by part number 661-0104.





Mouse II, Apple Desktop Bus, Version B

661-0104



P/N 661-0104 and P/N 661-0763 are similar. To differentiate the two, check the connector at the end of the cable. P/N 661-0763 has a number printed on the connector; P/N 661-0104 has no number. The retainer for P/N 661-0104 is available with or without a small locking hole. There are two versions of the retainers with holes: version M, P/N 922-1242, and version L, P/N 922-1109. If the product label on the bottom of the mouse begins with "M," and the retainer has a hole, order P/N 922-1242; if the product label begins with "L," and the retainer has a hole, order P/N 922-1109. Note: The retainers are not interchangeable; be sure to order like for like.





Mouse, Apple DeskTop Bus (Replaced by 661-0763)



Note: This module is replaced by Apple P/N 661-0104.





Mouse, Apple Desktop Bus (replaced by 661-0763)



Note: This module is replaced by Apple P/N 661-0104.







Name Plate, Macintosh Ilvi



Name Plate, Macintosh Ilvx

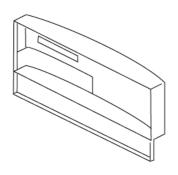




Name Plate, Performa 600



Panel, Front







Power Supply, 112 W

661-0758



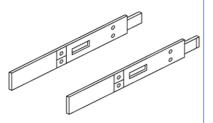
This power supply is backwards compatible with part number 661-0467.







Rails, CD Carrier, Pkg. of 6







Screw, 3.5x1.47x30











Screw, 6-32x.250





Screw, M3.5X0.6X10mm, Pkg. of 10







Screw, M3.5X0.6X20MM (Pkg. of 10)







Screw, M3.5X0.6X6MM (Pkg. of 10)









Screw, M3.5X1.57X30MM (Pkg. of 10)









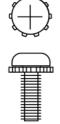
Screw, M3.5x1.57x7mm, Pkg. of 10

922-0117





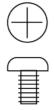
Screw, M3X0.5X6MM







Screw, Torx, External 800K Drive







SIMM, 1 MB, 80ns (Uses Two 4 Megabit Chips)

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. For return, Apple accepts only 80 ns or faster RAM SIMMs of this 1 MB variety.

Compatibility:

These SIMMs can be used in the following computers and printers:

- Macintosh SE/30
- •Macintosh Classic II/Performa 200
- Macintosh Ilcx
- Macintosh Ilci
- Macintosh Ilsi
- Macintosh Ilvi/Ilvx





•Macintosh Quadra 700

•Macintosh Quadra 900, 950, and Apple Workgroup Server 95

- Macintosh LC
- •Macintosh LC II/Performa 400
- •LaserWriter IIf and IIg
- Personal LaserWriter NT
- •LaserWriter Select 300

Note: This SIMM is not compatible with the Macintosh Classic.







SIMM, 1 MB, 80ns



Compatibility:

These SIMMs can be used in the following computers and printers:

- Macintosh Plus
- •Macintosh SE and SE/30
- •Macintosh Classic and Classic II/Performa 200
- Macintosh II and IIx
- Macintosh Ilcx
- Macintosh Ilci
- Macintosh Ilsi
- Macintosh Quadra 700
- •Macintosh Quadra 900, 950, and Apple Workgroup Server 95
- •Macintosh LC
- •Macintosh LC II/Performa 400
- •LaserWriter IIf and IIg



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- •Personal LaserWriter NT
- •LaserWriter Select 300





SIMM, 512K, Video RAM (Replaced by 661-1021)



Compatibility

These SIMMs can be used in the following computers:

- •Macintosh Ilvi, Ilvx and Performa 600
- Macintosh Quadra 700
- •Macintosh Quadra 900, 950, and Apple Workgroup Server 95
- Macintosh LC
- Macintosh LC II and Performa 400
- •Macintosh LC III and Performa 450, 460, 466, and 467
- •Quadra 605
- Power Macintosh 8100 Series

The 512K VRAM SIMM can be used in all these computers; however, the Macintosh LC family uses only 256K of memory.





SIMM, DRAM, 16MB, 80ns, 72-pin











Compatibility:

These SIMMs can be used in the following computers and video cards:

- Macintosh Color Classic
- •Macintosh Color Classic II/Performa 275
- Macintosh LC 520
- •Mac TV
- •Macintosh Ilvi, Ilvx, and Performa 600
- Macintosh Quadra 700
- •Macintosh Quadra 900, 950, and Apple Workgroup Server 95
- Macintosh LC
- •Macintosh LC II/Performa 400
- •Macintosh LC III/Performa 450, 460, 466, and 467
- •Display Card 4•8



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SIMM, VRAM, 512K, 80 ns, 160-pin







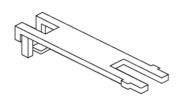
Speaker



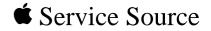




Strap, Power Supply, Pkg. of 5







Exploded View

Macintosh IIvx, Macintosh IIvi, Performa 600



