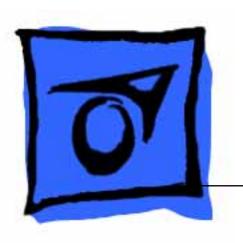
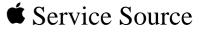
Service Source

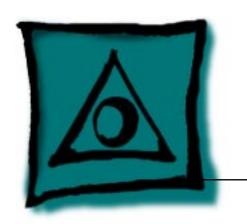


AppleCD 150/300

Apple CD 150 Apple CD 300







Specifications

AppleCD 150/300



Access Time

Characteristics 150

Average: 380 ms (typical) (Including Latency) Maximum (first to last block): 650 ms (typical)

Data-Streaming Mode 1: 150K/sec.

Rate Mode 2: 171K/sec.

Block Rate 75 blocks/sec.





(Including Latency)

Characteristics 300

Access Time Normal speed: 360 ms (typical)

Double speed: 295 ms (typical)

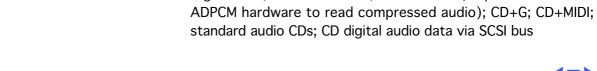
Data-Streaming Normal speed: Rate

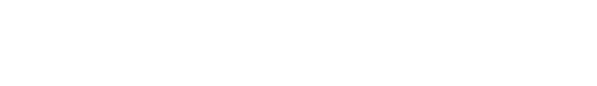
Mode 1: 150K/sec. Mode 2: 171K/sec.

Block Rate Double speed:

Mode 1: 300K/sec. Mode 2: 342K/sec. Normal speed: 75 blocks/sec.

Double speed: 150 blocks/sec.





Frequency Response 20–20,000 Hz



Audio Playback - 6

Operating

Temperature

Environmental - 7

41-104°F (5-40°C)

AppleCD 150: 10–90% noncondensin

Relative Humidity AppleCD 150: 10–90% noncondensing AppleCD 300: 5–90% noncondensing

Storage -22 to 122°F (-30 to 50°C)
Temperature



Physical - 9

Width: 7 in. (17.75 cm)
Depth: 13.1 in. (33.4 cm)

6.5 lb. (2.9 kg)

6.29 lb. (2.85 kg)

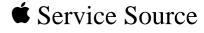
Height: 1.96 in. (5.0 cm)

Specifications

AppleCD 300

AppleCD 150: AppleCD 300:

Weight





Troubleshooting

AppleCD 150/300



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.



Symptom Charts

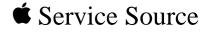
- Green power light is not on
- Replace power supply.
- 2 Replace drive mechanism.
- CD-ROM drive does not accept disc
- 1 Replace disc (if dirty or damaged).
- 2 Replace drive mechanism.
- Headphone jack does not operate correctly
- 1 Replace drive mechanism.
- 2 Replace power supply.
- Volume control does not operate correctly
- Replace drive mechanism.

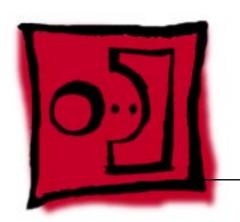
Speaker	jacks	do	not
operate			

- 1 Replace drive mechanism.
- 2 Replace audio-out assembly.
- 3 Replace power supply.

Macintosh cannot mount CD-ROM drive

- 1 Replace drive mechanism.
- 2 Replace power supply.
- 3 Replace SCSI-device-to-case cable.
- 4 Replace SCSI select switch.





Take Apart

AppleCD 150/300



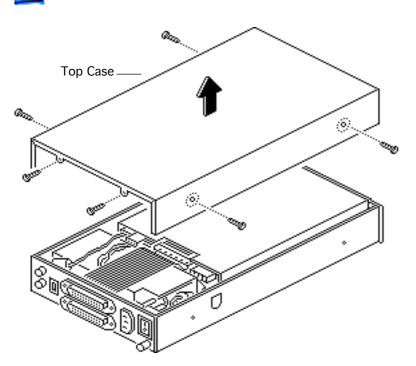
The CD-ROM drive is a mechanical device with moving parts. Rough handling can cause mechanical failures. Follow these guidelines when you handle or repair the CD-ROM drive:

- Switch off the power and make sure no SCSI devices are attached to the drive.
- Place the drive on a soft, grounded surface before starting repairs.
- Never transport the drive with a CD-ROM disc or caddy inside.



- Use the original shipping containers when you transport the drive.
- Never place an AppleCD 300 drive mechanism in an AppleCD 150 case. The SCSI-device-to-case cable will not connect correctly.



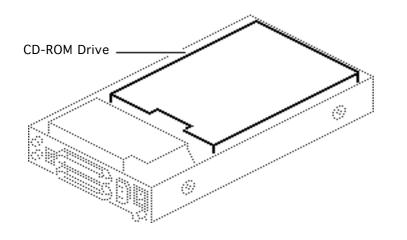


Top Case Guidelines

No preliminary steps are required before you begin this procedure.

- 1 Remove the six case screws.
- 2 Lift off the top case.



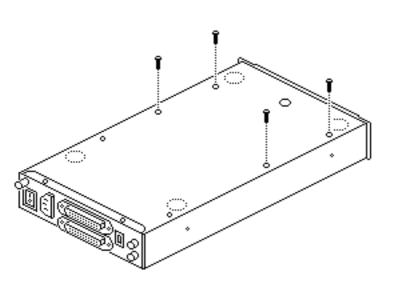


CD-ROM Drive

Before you begin, remove the top case:

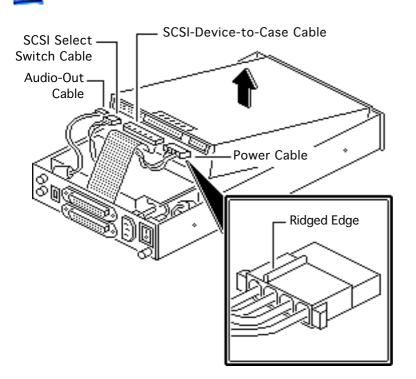
Caution: Review the ESD precautions in Bulletins/Safety.





1 Remove the four drive mounting screws from the bottom of the case.



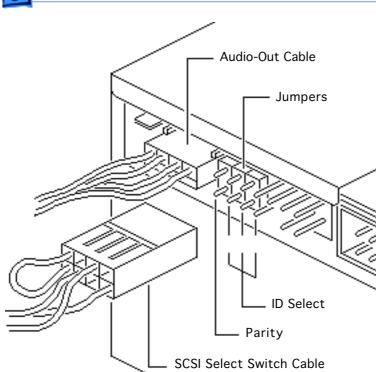


- 2 Hold the drive and turn over the case.
- B Lift the back of the drive and disconnect the following cables:
 - Audio-out cable
 - SCSI select switch cable
 - SCSI-device-to-case cable
 - Power cable
- Remove the drive from the case.

Replacement Caution:

Replace the power cable connector ridged edge up.





Replacement Note: Route the power cable beneath the SCSI-device-to-case cable.

Replacement Note: If you are replacing a defective drive with a new drive, remove the jumpers over the left three pairs of pins in the new drive's SCSI select switch connector.

Replacement Note: To reconnect the SCSI select switch cable, insert the cable connector on the left four pairs of pins in the drive connector. Make sure



the looped wire attached to the connector faces the audio-out cable.

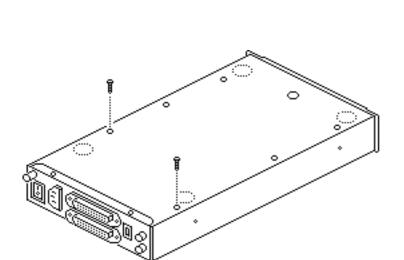


Power Supply

Power Supply

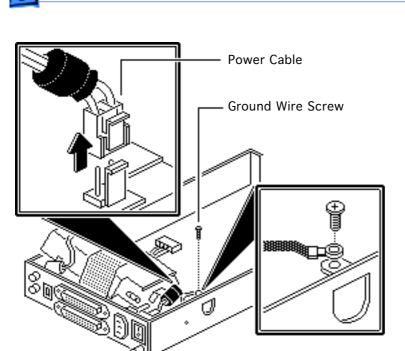
Before you begin, remove the following:

- Top case
- CD-ROM drive



1 Remove the two power supply mounting screws from the bottom of the case.



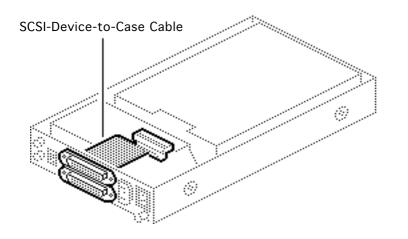


- 2 Hold the power supply and turn over the case.
- 3 Untape the cables from the top of the power supply.
- 4 Remove the ground wire screw.
- 5 Lift the end of the power supply farthest from the power cable, release the locking tab, and disconnect the power cable.
- 6 Remove the power supply.



Replacement Note: Replace the ground wire screw before reconnecting the power cable.





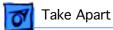
SCSI-Device-to-Case Cable

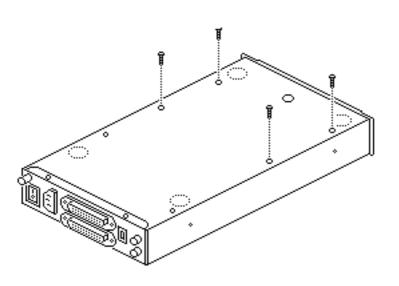
Before you begin, remove the:

• Top case

Caution: Review the ESD precautions in Bulletins/ Safety.

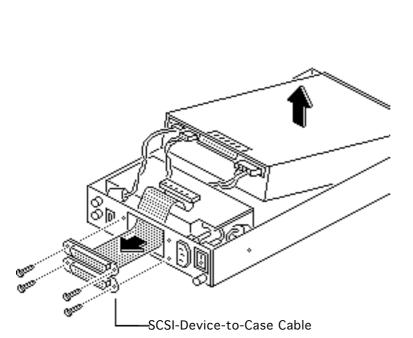






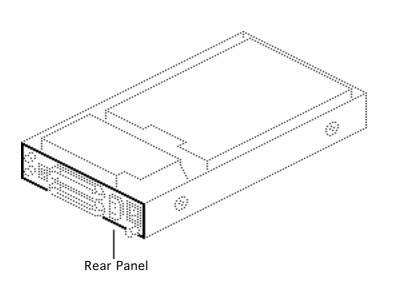
Remove the four drive mounting screws from the bottom of the case.





- 2 Hold the drive and turn over the case.
- 3 Lift the back of the drive and disconnect the SCSIdevice-to-case cable.
- 4 Remove the four cable mounting screws.
- 5 Pull the cable through the rear panel and out of the case.





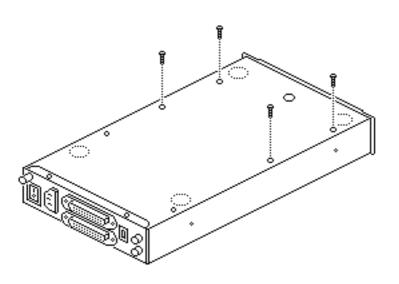
Rear Panel

Before you begin, remove the top case.

Caution: Review the ESD precautions in Bulletins/Safety.

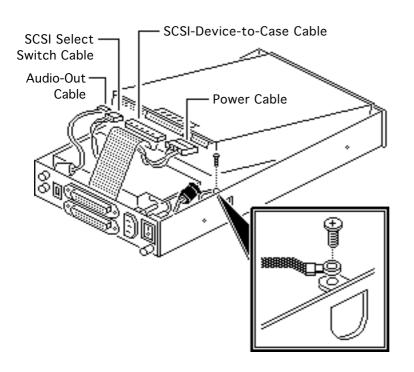






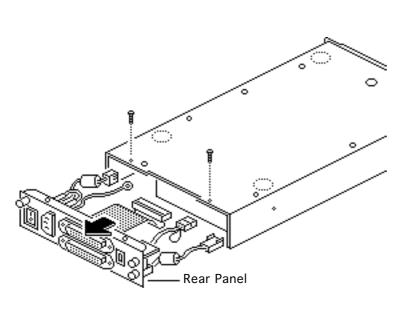
Remove the four drive mounting screws from the bottom of the case.





- Hold the drive and turn over the case.
- 3 Lift the back of the CD-ROM drive and disconnect the following cables:
 - Audio-out cable
 - SCSI select switch cable
 - SCSI-device-to-case cable
 - Power cable
- 4 Remove the ground wire screw.



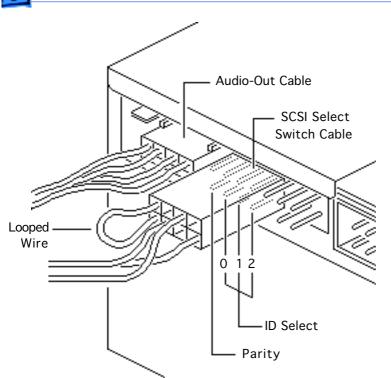


Replacement Note:

Replace the ground wire screw before reconnecting the power cable.

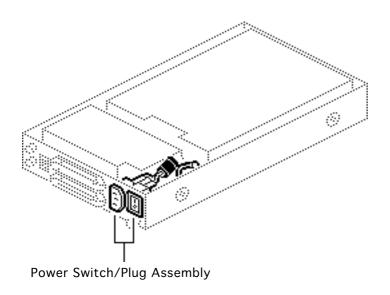
- Remove the two rear panel mounting screws.
- Remove the rear panel.





Replacement Note: To reconnect the SCSI select switch cable, insert the cable connector on the left four pairs of pins in the drive connector. Make sure the looped wire attached to the connector faces the audio-out cable.

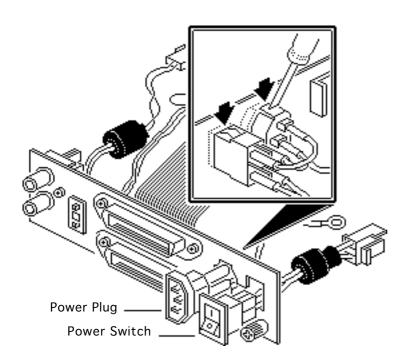




Power Switch/ Plug Assembly

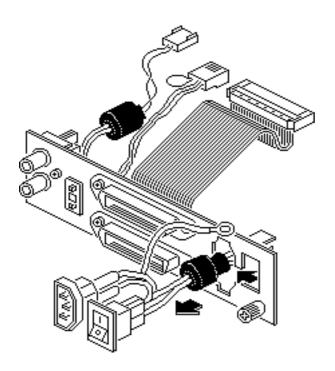
Before you begin, remove the following:

- Top case
- Rear panel



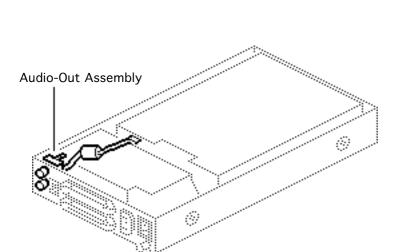
- Using a small flat-blade screwdriver, depress the bottom latch on the power plug and push the plug through the opening as far as it will go.
- Depress the top latch on the power plug and push out the plug.
 - Repeat the procedure for the power switch.





- Transfer the wires of the power switch cable across the small channel to the power plug opening.
- Remove the power switch/power plug assembly through the power plug opening.



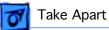


Audio-Out Assembly

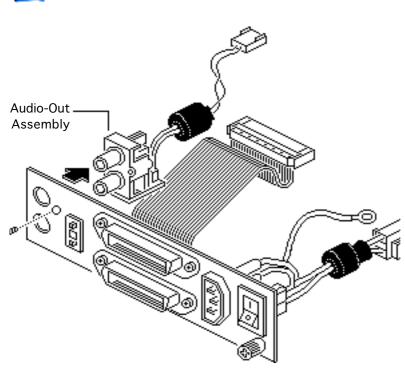
Before you begin, remove the following:

- Top case
- Rear panel



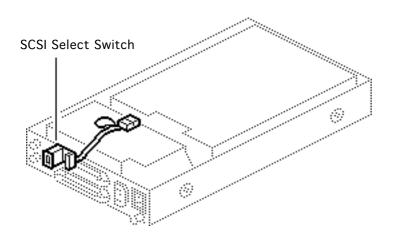


ke Apart Audio-Out Assembly - 25



- 1 Remove the mounting screw.
- 2 Remove the audio-out assembly from the rear panel.



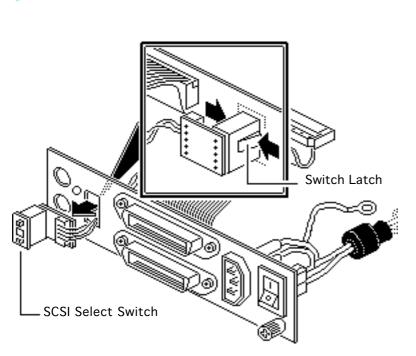


SCSI Select Switch

Before you begin, remove the following:

- Top case
- Rear panel
- Audio-out assembly





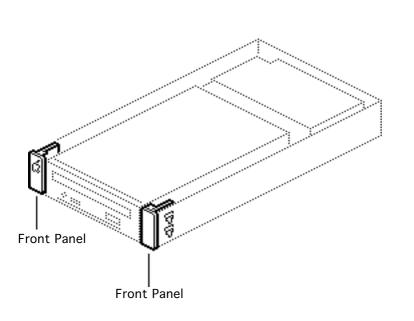
Note: Use a rocking motion to work the switch out of the opening in the rear panel.

- 1 Using a small flat-blade screwdriver, depress one of the two switch latches and push the switch through the opening as far as it will go.
- 2 Depress the other latch and push out the switch as far as it will go.
- Repeat the procedure until the switch works free.



4 Remove the switch assembly from the rear panel.

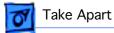


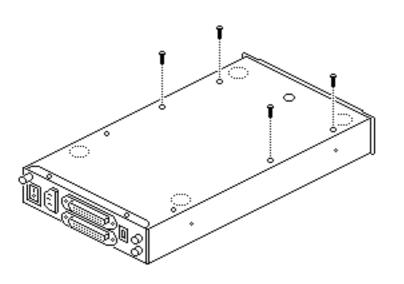


Front Panels

Before you begin, remove the top case.

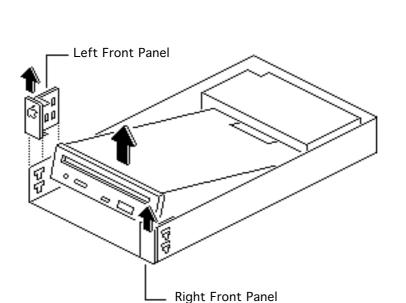
Caution: Review the ESD precautions in Bulletins/Safety.





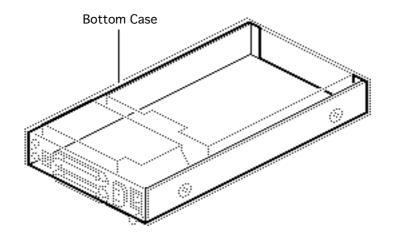
Remove the four drive mounting screws from the bottom of the case.





- 2 Hold the drive and turn over the case.
- 3 Lift the front of the drive.
- 4 Pull the left front panel straight up as far as it will go and remove it from the case.
- 5 Repeat for the right front panel.





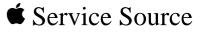
Bottom Case

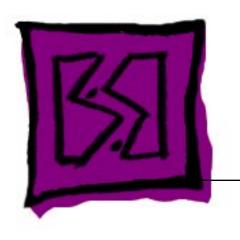
Before you begin, remove the following:

- Top case
- CD-ROM drive
- Power supply
- Rear panel

To replace the bottom case, perform the steps referenced above.





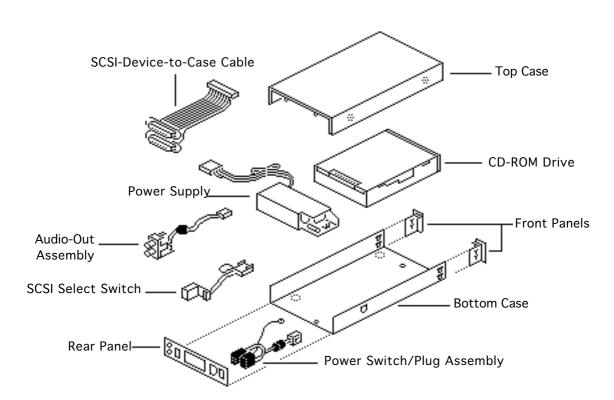


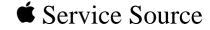
Exploded View

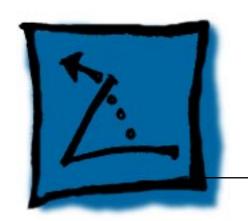
AppleCD 150/300



1





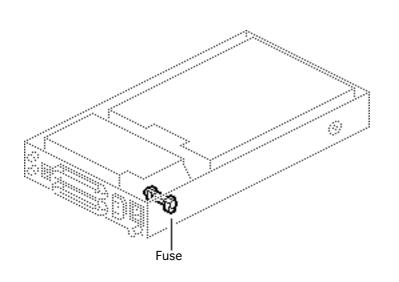


Additional Procedures

AppleCD 150/300





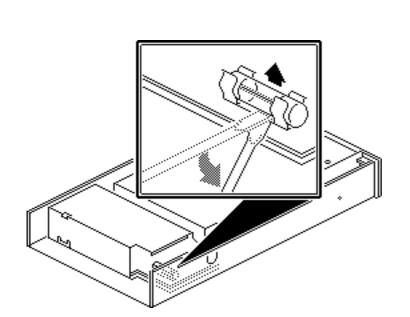


Fuse

Before you begin, remove the following:

- Top case
- Rear panel





Using a small flat-blade screwdriver, pry the fuse from the holder.

Replacement Note: The fuse is not a service part.
Replace the fuse with type MT4 250V2A, available at most electronic stores.

