



AppleCD 300e Plus/600e

AppleCD 300e Plus
AppleCD 600e





Specifications

AppleCD 300e Plus/600e





Characteristics

300e Access Time (Including Latency)

Normal speed: 410 ms (typical)

Double speed: 295 ms (typical)

600e Access Time

Random seek: 168 ms

Double access: < 200 ms





300e/600e Data-Streaming Rate

Normal speed (600e single speed):

Mode 1: 150K/sec.

Mode 2: 171K/sec.

Double speed (600e only):

Mode 1: 300K/sec.

Mode 2: 342K/sec.

Quad speed (600e only):

Mode 1: 600K/sec.

Mode 2: 684K/sec.



**Block Rate**

Double speed:

Mode 1: 300K/sec.

Mode 2: 342K/sec.

Quadruple speed (600e only):

Mode 1: 600K/sec.

Mode 2: 684.4K/sec.

Normal speed: 75 blocks/sec.

Double speed: 150 blocks/sec.

Quadruple speed: 300 blocks/sec. (600e only)

300e SCSI Transfer Rate

Approximately 2.5 MB/sec.

600e SCSI Transfer Rate

Approximately 5.1 MB/sec.





Rotational Speed	Normal speed: Approximately 230–530 rpm Double speed: Approximately 460–1,060 rpm Quadruple speed: Approximately 920–2120 rpm
300e Interfaces	One headphone jack; two SCSI 50-pin connectors; two audio output jacks
600e Interfaces	One stereo headphone jack; two SCSI 50-pin connectors; two stereo audio output jacks, front panel volume control, front panel LED busy indicator
Playback Medium	12-cm optical disc (any CD-ROM or audio compact disc is compatible) 8-cm optical disc (600e only)





300e Formats

Multisession Kodak Photo CD (QuickTime required); CD-ROM XA; CDI; standard audio CDs; CD-ROM

600e Formats

Multisession Kodak Photo CD; CD-ROM XA; CDI; standard audio CDs; ISO 9660/High Sierra; Macintosh HFS; CD+G; CD+MIDI





Capacity

Data Capacity

Mode 1: 656 MB

Mode 2: 748 MB

Recording Surfaces

1

300e Data/Block (Available to User)

Mode 1: 2,048 bytes

Mode 2: 2,336 bytes

600e Data/Block

Mode 1: 656 MB

Mode 2: 748 MB





Audio Playback

300e Playing Time	More than 1 hr.
600e Playing Time	74 mins., 42 secs.
Frequency Response	20-20,000 Hz
600e Stereo	44 kHz sampling rate





Environmental

**300e Operating
Temperature**

-41–131°F (5–55°C)

**600e Operating
Temperature**

-41–104°F (5–40°C)

Relative Humidity

5–90% noncondensing

**Storage
Temperature**

-22 to 122°F (-30 to 50°C)





Electrical

Line Voltage

100-240 VAC

Frequency

50-60 Hz

**300e Power
Consumption**

0.25-28 A





Physical

300e Dimensions

Height: 1.95 in. (4.9 cm)

Width: 7 in. (17.75 cm)

Depth: 12.9 in. (32.5 cm)

600e Dimensions

Height: 2.32 in. (5.9 cm)

Width: 6.22 in. (15.8 cm)

Depth: 13.1 in. (32.3 cm)

300e Weight

6.5 lb. (2.9 kg)

600e Weight

5.73 lb. (2.6 kg)





Troubleshooting
AppleCD 300e Plus/600e





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 drive assembly.

CD-ROM drive does not accept disc

- 1 Replace disc (if dirty or damaged).
- 2 Replace drive assembly.

Headphone jack does not operate correctly

- 1 Replace drive assembly.
- 2 Replace enclosure with power supply.

Volume control does not operate correctly

Replace drive assembly.

Speaker jacks do not operate

- 1 Replace drive assembly.
- 2 Replace enclosure with power supply.





Macintosh cannot
mount CD-ROM drive

- 1 Make sure tray is closed.
- 2 Replace drive assembly.
- 3 Replace enclosure with power supply.

Tray does not open

- 1 Press eject button.
- 2 Insert paper clip in hole next to eject button.
- 3 Replace drive assembly.

CD Plus (CD+)
format CD-ROM disc
causes stuttering
sound, and may not
mount.

Replace CD-ROM drive.





Take Apart

AppleCD 300e Plus/600e

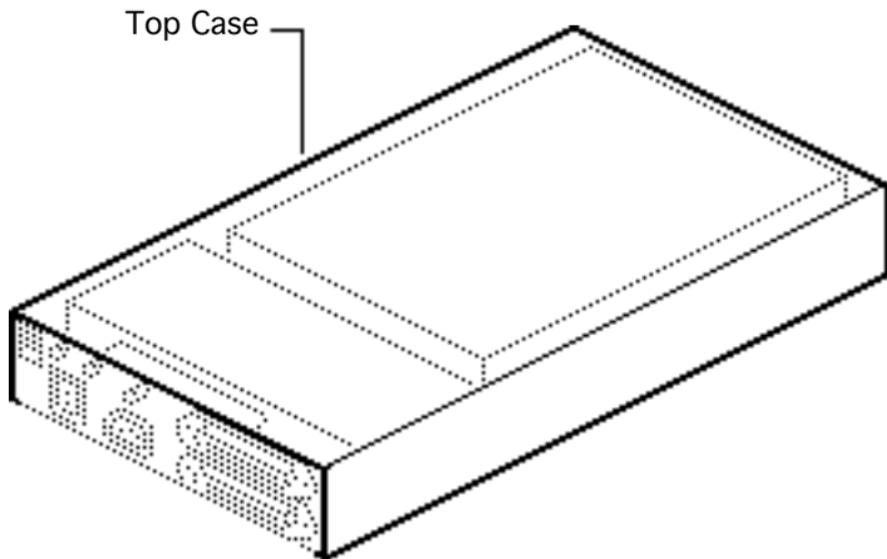




Top Case

No preliminary steps are required before you begin this procedure.

Caution: 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:



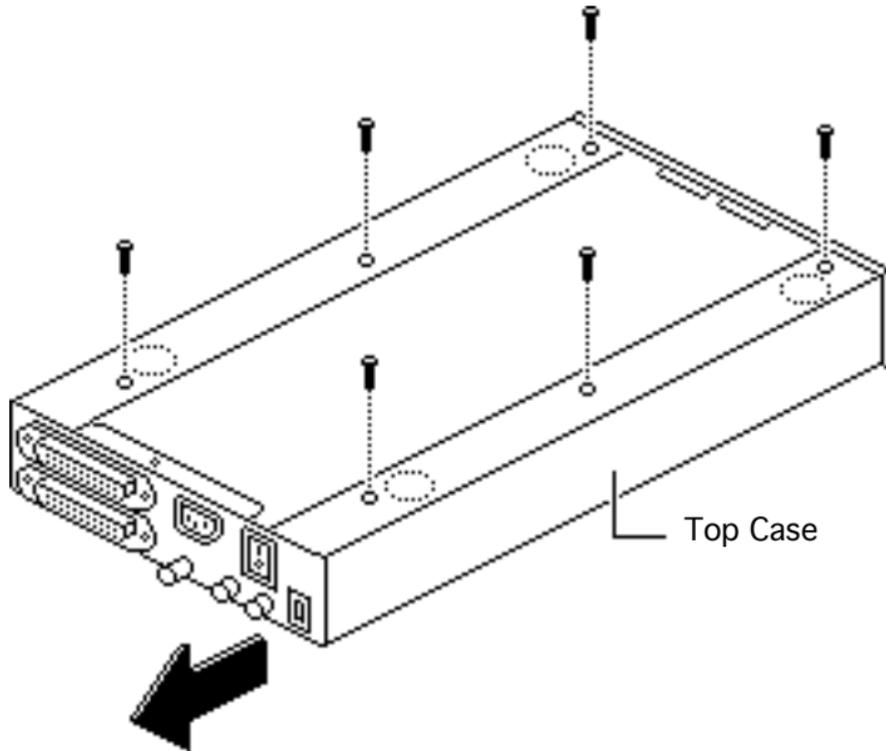


- Switch off the power and make sure no SCSI devices are attached to the drive.
- Place the drive on a soft, grounded surface before starting repairs.
- Never transport the drive with a CD-ROM disc inside.
- Use the original shipping containers when you transport the drive.



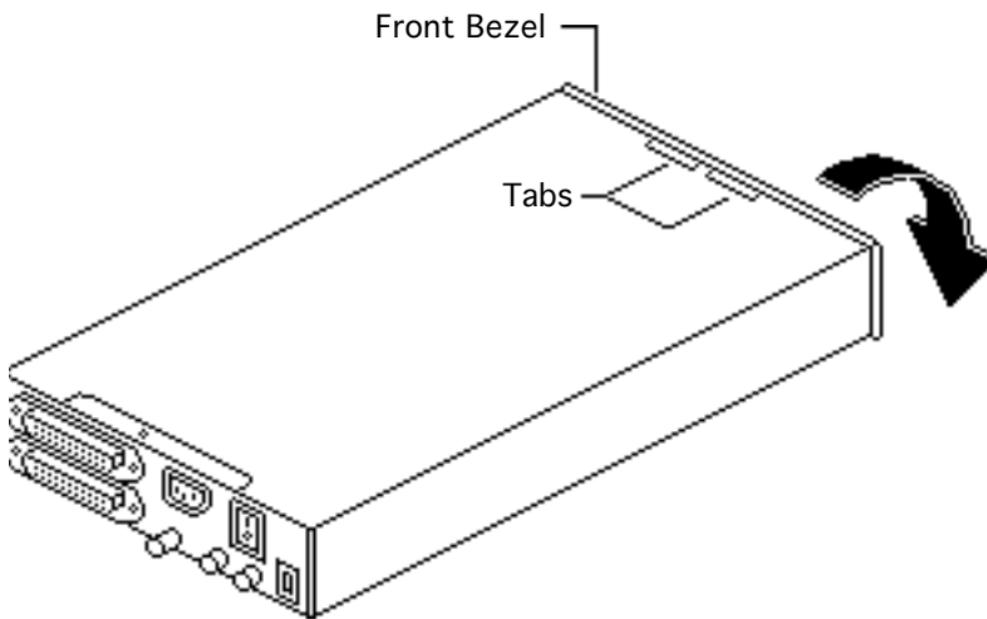


- 1 Remove the six case screws.
- 2 Slide off the top case.





- 3 Lift up the tabs and carefully remove the front bezel.

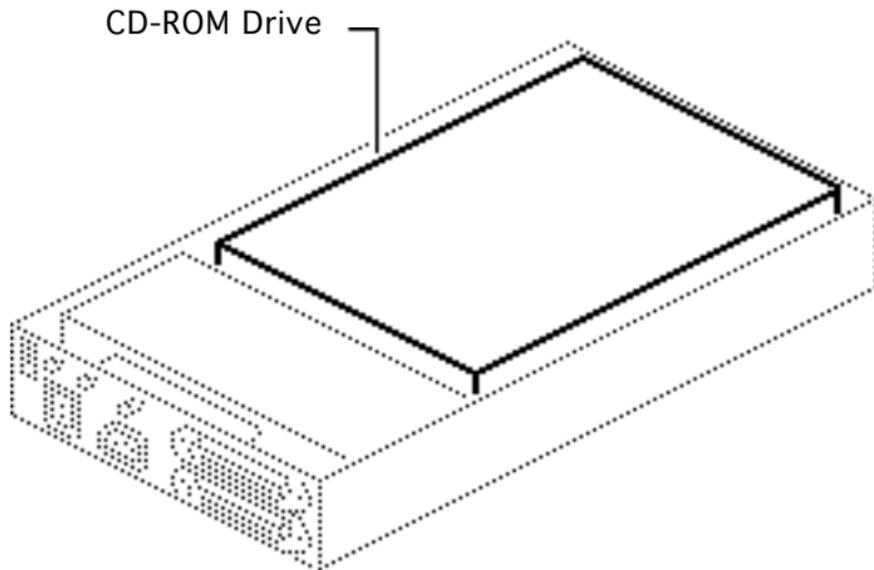




CD-ROM Drive Assembly

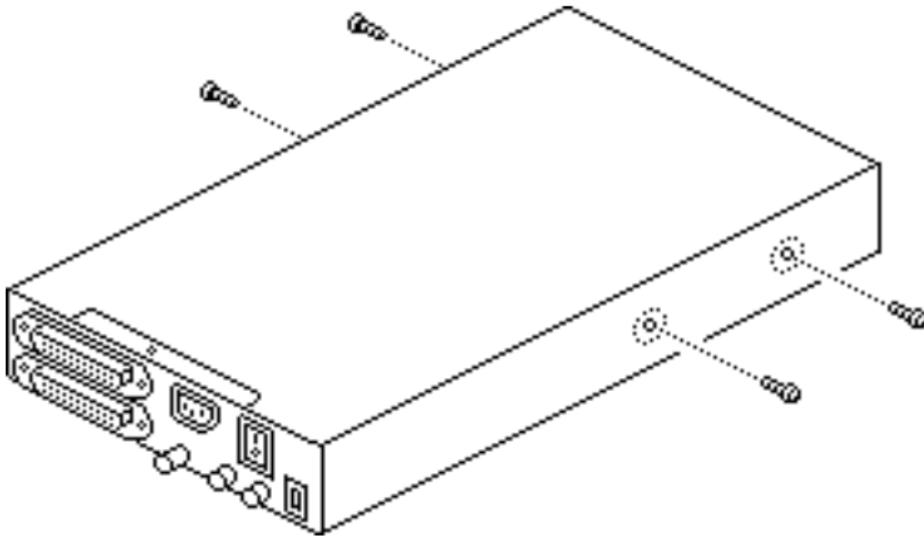
Before you begin, remove the top case.

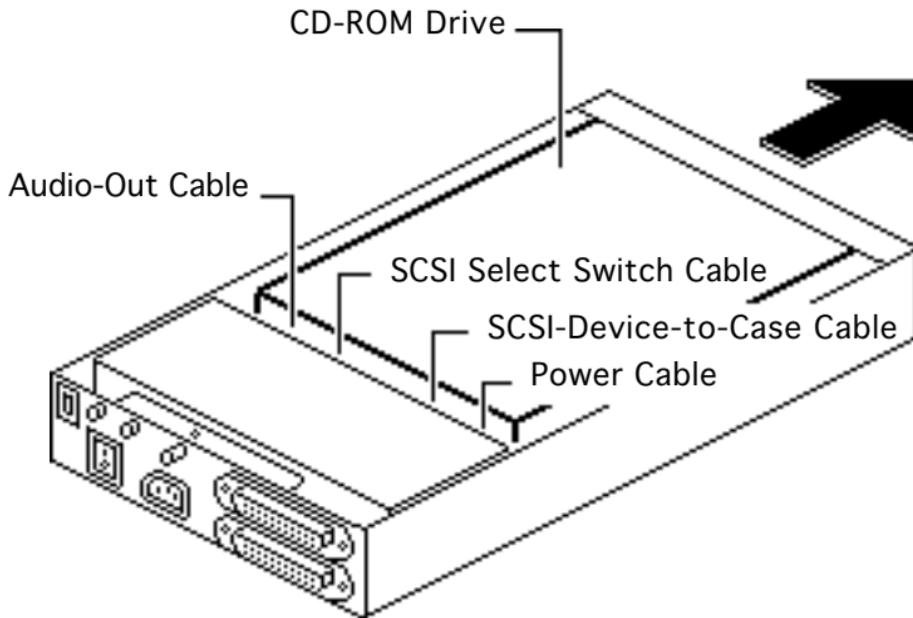
Caution: Review the ESD precautions in Bulletins/ Safety.





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





- 2 Hold the drive and turn over the case.
- 3 Slide the drive forward slightly and disconnect the following cables:
 - Audio-out cable
 - SCSI select switch cable
 - SCSI-device-to-case cable
 - Power cable
- 4 Remove the drive from the enclosure.



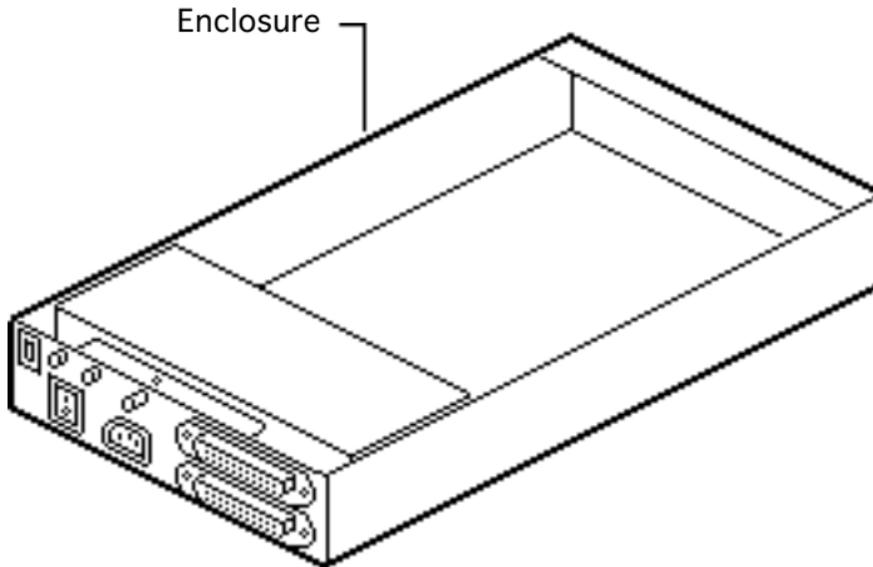


Enclosure

To access the enclosure,
remove the following:

- Top case
- CD-ROM drive assembly

Caution: Review the ESD
precautions in Bulletins/
Safety.





Exploded View

AppleCD 300e Plus/600e



