

PowerBook Duo 210, 230, 250, 270c: Simplified Take-Apart (3/94)

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TOPIC -----

Some instructions for this procedure -- take-apart for modem or logic board installation -- tell the technician to remove the display assembly and top case, remove the other modules, and then remove the "stiffener" (magnesium sub-frame.) Some technicians have reported that they have torn the video cable on the display while removing the center clutch cover.

This article provides a simplified procedure you may want to try. Essentially the center clutch cover doesn't need to be removed if you remove both the display assembly and the stiffener at the same time. (It's recommended that the dealer order the clutch cover kit for all Duo take-aparts.)

DISCUSSION -----

Take-Apart Procedure

- 1) Remove main battery.
- 2) Remove keyboard.
- 3) Remove end clutch covers.
- 4) Disconnect the hard drive cable from the logic board.
- 5) Remove the Case Top to reveal the hard drive screws.
- 6) Remove the three plastic tapping screws around the hard drive.
- 7) Remove backup battery connector (three-wire Red/White/Black on a three-pin connector) from the logic board and remove from unit.

8) Remove trackball assembly connector on logic board.

9) Remove the two screws holding the trackball assembly and remove from

unit.

- 10) Disconnect the display actuator switch (two-wire Red/Black on a six-pin connector) from the logic board.
- 11) Lift the microphone out of its holder on the stiffener (not necessary to completely remove from logic board.)
- 12) Remove stiffener, display assembly, and hard drive together. Be careful not to drop the hard drive.

13) Remove the logic board.

14) Remove On/Off card.

15) Install Express Modem.

Reassembly

Reassembly is the reverse of the above.

Article Change History: 7 Mar 1994 - Added the instruction to remove the case top to reveal screws.

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