Apple /// Computer Information
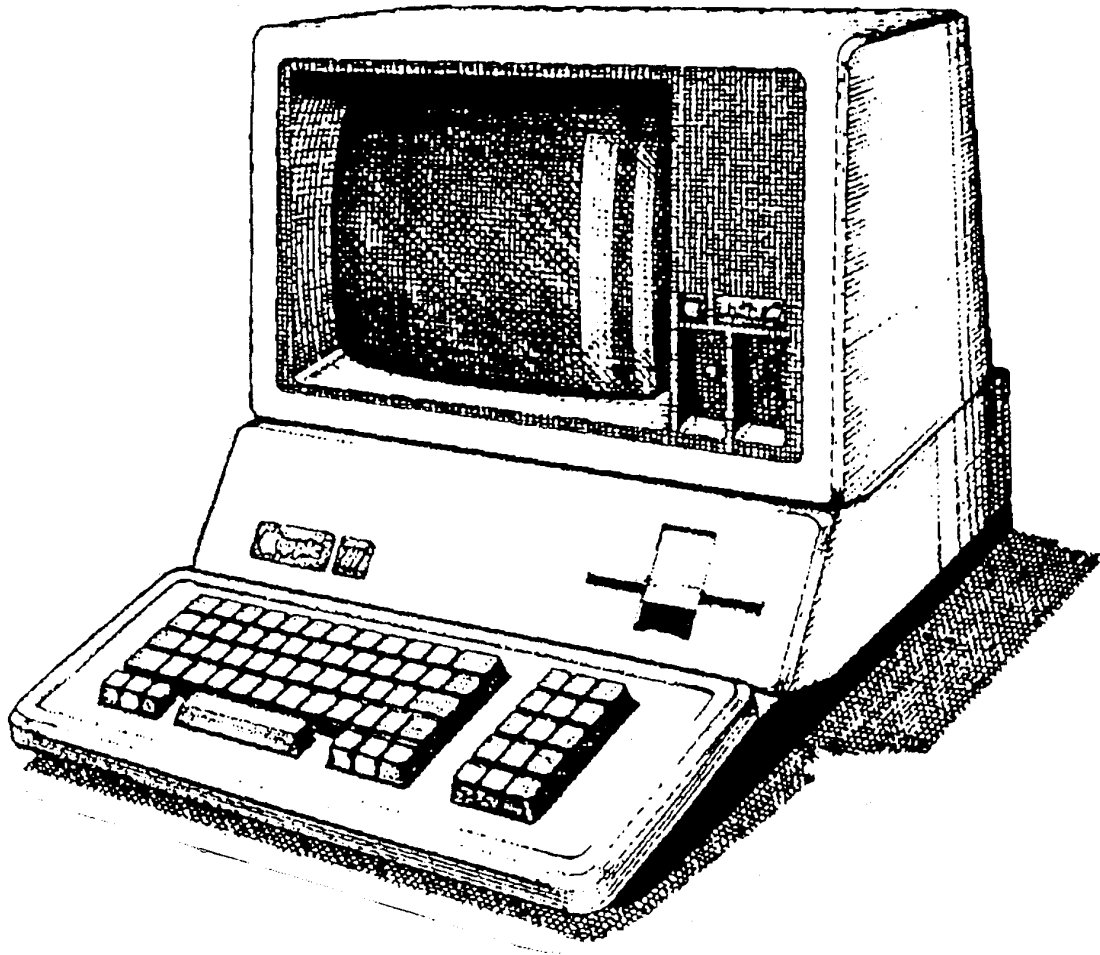
DOCUMENT NAME

HOW TO DISASSEMBLE A PROFILE
DISK DRIVE

105

Ex Libris David T. Craig

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Apple /// Computer Information

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2 pages

How to Disassemble a Profile Disk Drive
(by someone who took it apart upside down)

Gary Kato – 1989 or 1990

***** Step 0: Disconnect the power and interface cables from the Profile. I
***** would even suggest waiting a few minutes before starting to disassemble
***** the Profile. Some power supplies need time to leak stored current away.

***** Caution: The disk drive is a delicate instrument. Handle the Profile
***** carefully. You may want to work over a padded surface. Another good
***** precation is to wash your hanes so that you'll be less likely to have
***** it slip from your hands.

1. Turn your Profile upside down. Take out the 3 screws along the front of the
Profile. Turn it rightside up.
2. Look at the back of your Profile. Take out the 4 screws. These hold the back
plates onto the cover.
3. You can now take off the cover carefully. There's a cable that snakes along
the inside top of the cover that connects a disk drive board to the light in
the front of the Profile, so don't take it all the way off. Lift the cover up
a bit and tilt it so the back comes free. Once the back is free, you can move
the cover towards the front so that the retainer tabs on the cover don't get
stuck on the circuit boards.
4. Holding the cover up, disconnect the front light connector from the circuit
board in the Profile. It's the only cable connected to the cover.
5. You can now lift the cover off.

What you see now is the power supply on the left with the Profile controller
board on top of it. On the right, you see the Seagate hard disk drive (an
ST506 for a 5 Meg Profile, who knows what for a 10Meg) with 2 boards underneath
it. The higher board is the Motor Control Board. It makes sure the disk turns
at the appropriate speed. The lower card is the analog electronics card.

6. At this point, you can remove the 2 back panels that are behind the disk
drive and the power supply.
7. Now you'll want to remove the long back panel. Unscrew the 4 screws holding
it to the power supply, then the 2 screws on the bottom of the Profile behind
the disk drive.
8. Lift the panel out carefully. The retainer in the panel between the drive

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and the power supply may get stuck on some of the wires. Just move the wires out of the way and manuver the panel out.
9. Whew! Take a break if your hands are sweating.

OK! Time to get the drive and supply out of the case!
10. First, let's get the Profile controller board loose (the one on top of the power supply). It's held to the supply by one screw and 5 plastic connectors. Just undo the screw and one by one, squeeze the plastic "pins" and pull the board from them. Don't forget the one in the middle of the board! Once the board is free, disconnect the gray ribbon cable and the molex connector. When putting the Profile back together again, remember that the red side of the ribbon cable should be on the front side of the drive. The molex should only go in one way, but just in case, the black wire should be towards the front, the red wire towards the rear. The controller card is now free to be removed.
11. The last connector left is in mid-air, kind of like the type you see all over the place under the dash of your car. Pull it apart. This was kind of tough for me. The mid-air connector is keyed so you can't put it together wrong. Just in case, the two black wires of the connectors should be connected. This severs the connection between the drive and the power supply.
12. Now turn your Profile upside down so that it's resting on the disk drive itself. Put some padding down underneath the drive so that you have some protection in case it slips from your hands.
13. Under where the drive is (or on top since the case is upside down now), there are 4 screws that are recessed into the case. Unscrew these. Don't undo the two that lie flush with the case!
14. Now lift the supply/case off and Voila! There's the drive!
15. Set aside the drive (carefully) and do the same routine for the power supply. Turn the case upside down, undo the 4 screws, and now the power supply is free.

*** Congratulations! You just disassembled your Profile! ***

To put it back together, just reverse the steps! Remember that the switch and power cord connector for the Profile face to the back of the case. Also the round part of the drive faces the back of the case.

If you find yourself in a mess, feel free to leave a message for me here in MAUG or via EASYPLEX. Remember to use my account number 76074,1020 in the To: field of your message so I get notified that there's a message waiting for me.

Gary M. Kato [76074,1020]

**** And remember, be careful with that drive!

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