OKI C9600 / C9800 Series
Disassembly & Reassembly Procedures

Distributed at the C-Series Service Training Classes held during 2005

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This document describes the disassembly of the Oki Data C9600 / C9800 series of printers. It is to be used during Oki Data Service Training. It is not designed to be a self-directed course, as Oki Data Trainers will provide additional information as required during the course. We are not responsible for typographical errors nor are we responsible for manufacturing changes that are considered part of a product's life cycle.

This document is being provided in conjunction with an Oki Data sponsored and led course. Be aware that the machine you are working with may have already been disassembled, resulting in parts and / or screws being incorrectly replaced.

You are responsible for your own personal safety as you work through this course. You are expected to know how to safely operate, disassemble, and repair machines of this type. Oki Data is providing disassembly, troubleshooting, repair and reassembly instructions specific to this series of printers. Oki Data assumes that each student has already demonstrated their knowledge of basic electronics, troubleshooting, disassembly and reassembly of this type of equipment.

Important Safety Notes:

- This product generates potentially lethal voltages. While Oki Data has made every attempt to insure safe operation and voltage interruption by installing safety circuits, it is possible to by-pass these safety circuits. Oki Data will not be responsible for the safety of any attendee who knowingly by-passes any of these safety devices.

- These printers are very heavy. The C9000 series product weighs approximately 190 pounds. Safe lifting techniques are required and Oki Data assumes that the attendee is versed in established safe lifting techniques.

- These printers contain large amounts of metal that may have sharp edges or burrs on edges. Oki Data assumes no liability for carelessness that results in injuries to attendees. In short – Be Aware – Be Careful - Don’t Fool Around!

- If you are unsure of something – ask the Oki Data Trainer before continuing.

- Follow the disassembly instructions as they are written to insure your safety as well as your successful disassembly/reassembly of the printer(s) you’ll be working with.
Course Instructions:

1. The C9000 series weighs almost 190 pounds, so use caution and common sense when lifting, moving, or placing it on a surface.

2. Follow the procedures as they are written.

3. If you encounter any problems, notify the instructor.

4. When a procedure ends at a “Stop And Check” notify the instructor so he can check your work.

5. **NOTE**: Aluminum screws go into metal; Black screws go into plastic.

6. Use Electrostatic Discharge precautions when handling the electronics portions of the printers.

7. Pay very close attention to the wiring harnesses and how they are routed. This will save time when you reassemble your unit!

8. Watch for sharp edges and burrs on the metal covers and support brackets. This machine contains a lot of metal – **Be careful**!

9. Store the removed screws with the appropriate assembly they secure.

10. Notify the instructor if you have any left over parts/screws once you’ve completed the re-assembly. This is **IMPORTANT** since these are training machines and will be used for additional training classes.

11. Take your time – **There’s No Prize For First Place!**

12. We do not “booby trap” machines prior to disassembly or re-assembly. We may introduce problems after your unit is reassembled and tested: This is the best way to learn troubleshooting techniques.

13. Learn as much as you can - Enjoy the class – Ask questions

14. Remember; **It’s Your Course**!

15. When completing the course critique, be honest – Constructive Criticism is always welcome and it helps us to improve this course.
All directions are referenced from the “Front” of the machine

1. Install consumables / Remove drum and toner assemblies from the black bags and reinstall in your printer.
   1.1. Print the following pages:
      1.1.1. “Menu Map”
      1.1.2. “Demo Page 1”

2. Unplug the power cord from the wall and from the printer.
   2.1. Remove all consumables from the printer.
      2.1.1. Drum and toner assemblies go back in the black bags and fold the tops of the bag to block light leakage.
      2.1.2. Remove the Transfer Belt.
      2.1.3. Remove the Fuser assembly.
      2.1.4. Remove Waste Toner Box
   2.2. Close the printer cover.
3. Remove the Paper Cassette from the printer.

4. Remove the Rear Cover.
   4.1. Remove 5 screws from the Rear Cover.
   4.2. Remove the Rear Cover.
5. Remove the Right Side Cover.

5.1. Remove 2 screws from the Right Side Cover and use a flat blade screwdriver to release the four tabs. Push down on the top tabs and up on the bottom tabs.

5.2. Release the latch.

5.3. Remove the Right Side Cover by gently warping it outward.
6. Remove Rear Right Side Cover.

6.1. Open the Top Cover and open the Right Side Paper Guide Cover.

6.2. Remove the 2 screws.

6.3. Remove the Rear Right Side Cover.
7. Remove the Dummy Duplex Cover.

8. Remove the Left Side Cover.
   8.1. Remove the 4 screws.
   8.2. Remove the Left Side Cover.
9. Remove the Front Cover Assy.

9.1. Lift the Op Panel as far as possible and open the Front Cover Assy. Remove the 2 screws from the support straps.

**NOTE**: Be sure the Waste Toner Box has been removed.

9.2. Make sure the cover is open all the way – remove it by pushing to the left on the black hinges and moving the cover to the right.
10. Remove the Right Cover Guard
   10.1. Remove 1 screw.
   10.2. Remove Right Cover Guard.
10.3. Take note of the wire routing in the Right Cover Guard for the Waste Toner Box sensor and unthread.
11. Remove the Left Cover Guard

**NOTE:** Lift the Basket Assy.

11.1. Remove 2 screws and use a flat blade screwdriver to release the 3 latches.

11.2. Remove the Left Cover Guard.
12. Remove the Front Cover Guard

12.1. Remove 3 screws and remove the Front Cover Guard.

12.2. The Front Cover Guard has a very tight fit even with the screws removed. Gently work it off.
13. Remove the Op Panel.

13.1. Remove 2 screws.

13.2. Remove the Op Panel but do not let it drop as there is ribbon cable attached.

13.3. Release the 2 latches on the underside of the Op Panel.
13.4. Remove the cover.

13.5. Remove 1 screw and unplug the ribbon cable.
14. Remove the Plate Shield Assy. (Rear Metal Cover)

14.1. Be sure the Top Cover is closed. Loosen the 2 captured screws on the side and remove the 2 screws along the top.

**NOTE:** Be careful when handling any sheet metal as there some sharp edges left over from the manufacturing process.

14.2. Remove the Plate Shield Assy.
15. Remove the Engine Board Fan and Duct
   15.1. Gently release tab.
   15.2. Remove the Duct by pulling it outward.
15.3. Unplug the fan connector.

15.4. Release the tabs that secure the fan to the Plate Shield Box Assy. (Card Cage) and remove the fan by lifting up and out.
16. Remove the Controller Board

16.1. Remove two screws to remove the fan bracket. Take note that these screws are longer than rest.

16.2. Unplug the fan and remove the bracket. The rails for the wireless NIC may come loose.

16.3. Remove the remaining five screws.
16.4. Slide the Controller Board slightly to the right and remove.

17. Remove the Engine Board
17.1. Unplug 17 connectors and remove four screws.

**NOTE:** Prior to unplugging all of the wiring connectors from the engine controller board make note of the wire harness routing. Where do the various cables/harnesses enter the card cage, etc.?

It’s easier to note this now, when the machine is fresh, than to try and figure it out when you’re rushing to reassemble the unit.

17.2. Push the Engine Board slightly to the left - pull the bottom of the board out then remove entire board.

**NOTE:** If replacing a failed Engine Board, the socketed double eprom must be retained and inserted into the new Engine Board.

18. Remove the Plate Shield Box Assy. (Card Cage)

18.1. Remove 1 screw to release the Plate Clamp HCB (LED Head Cable clamp). Slide the white plastic bracket outward to release it from the Card Cage.
18.2. Remove 11 screws from the Card Cage.

18.3. Remove Card Cage.

**NOTE:** To help make the reassembly process easier, it is recommended that any of the cables and harnesses that enter the Card Cage from the bottom, be taped down in their relative positions as illustrated.
19. Remove the Eject-Assy. (Exit Guide)

19.1. Release the five tabs with a flat blade screwdriver – grasp the area marked by the oval and reach under the area marked with the arrow and press to release latches. Pivot the cover up to remove.

19.2. Unplug connector at upper right of the OR-S2R (exit sensor board).
19.3. Remove Face-up Stacker

19.4. Remove 2 screws - one at the front and one at the rear.
19.5. Release the tabs – two inside and one outside.

19.6. Lift Exit Guide up and out and unthread the connector through the side.
20. Remove the Belt Motor at the front of the unit.

20.1. Remove 2 screws and unplug connector.

20.2. Remove Belt Motor
21. Remove the Sensor-Registration Assy.

21.1. Remove the Board-Registration-Sensor(S2Z) cover.

21.2. Unplug the yellow wire harness connector.
21.3. Remove five screws and lift assembly. Take note of the junction connector. Unplug it if does not become disconnected while lifting the assembly.

21.4. Unplug the 2-pin purple harness from near the front of the machine and unthread from it’s channel and clamps.
22. Remove the Duct Gear Assy. and the Duct Drive Assy.

22.1. Release the tab at the rear and remove the Middle Cover.

22.2. Release the tabs and remove the Tube Guide.
22.3. Remove four screws holding the waste toner receptacles to the basket assembly.

22.4. Remove two screws next to the HVPS Cover.

22.5. Remove seven screws. The connector for the motor unplugs from underneath, not from the orange connector.

**NOTE**: The motor can be removed individually by removing the two screws that are diagonally opposite and unplugging from underneath.
22.6. The entire Duct-Gear-Assy can then be remove.
23. Remove the Multi-Purpose Tray.

23.1. Release the tab and remove the Sensor Board Cover.
23.2. Unplug the two connectors that come from the Multi-Purpose Tray and unthread them from the guides. Unplug the ribbon cable.

23.3. Open the Multi-Purpose Tray using the lever at the front of the unit. Remove one screw from the front stay.

23.4. Remove one screw from the rear stay. The rear stay may fall.
23.5. Release the Multi-Purpose Tray from the hinges and gently unthread the two connectors from step 22.2 through the channel.
24. Remove the Registration Unit (Right Paper Guide Assy)

**NOTE:** Be sure the Top Cover is open and the basket is up.

24.1. Remove four screws. The screw marked by the arrow will also remove the right basket latch.
24.2. Remove the Multi-Purpose Tray Lock Plate Assy.

24.3. Remove two screws from rear of Registration Unit.

24.4. Remove Registration Unit.
25. Remove the Paper Feed Unit

25.1. Remove Right Side Lower Access Cover.

25.2. Remove four screws and remove the Metal Right Side Cover.
25.3. Remove nine screws from the right side and one from the front. Unplug 3 connectors from the ORS2M (Motor Driver Board). Remove the Paper Feed Unit.

26.1. Remove two screws and release three tabs. Remove the HVPS cover.

26.2. Remove two screws and unplug four connectors. Gently slide the HVPS toward the rear of the unit until it clears the contacts and lift out.
27. Remove the Low Voltage Power Supply (LVPS).

27.1. Release the power switch linkage by lifting up and away.

27.2. Remove 14 screws.

27.3. Unplug four connectors and remove the LVPS.
28. Remove Motor-DC(ID) (Drum Motors)

28.1. Remove two screws and unplug the connector from the OR-S2M (Motor Driver Board) and not from the motor assembly.

**NOTE:** Each of the four motors is mounted with two screws. Also, the Black ID motor is mounted at a 90° angle to the other three.
29. Remove OR-S2M (Motor Driver Board)

29.1. Unplug remaining connectors and remove two screws.

29.2. Remove Motor Driver Board.

30.1. Using a flat blade screwdriver, push up to release the tab.

**NOTE:** Both the motors and the mounting plates are the same however the motors are mounted to the plates 180° opposite of each other. Be aware of this for reassembly.
31. Remove the OR-SGG (ID System SNS PWB) aka Drum Contact and Sensor Board Assy.

31.1. Remove four screws, one each from the Drum Position Home sensors. Use a flat blade to release the two Toner Shutter Home sensors and the Drum Up/Down Home sensor.

31.2. Use a flat blade screwdriver to release the tabs securing the main portion of the Drum Contact and Sensor Board Assy. and unplug one connector. Remove the board being careful of the drum contact springs as they may fall out.
32. Remove Fuser Motor

32.1. Remove two screws and unthread wire harness taking note of the routing for reassembly. Remove the Fuser Motor.