

OKIDATA® C3400

TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



OKIDATA® C3400 TONER & DRUM CARTRIDGE

REMANUFACTURING THE OKIDATA C3400 DRUM UNIT & TONER CARTRIDGE

By the Technical Staff at UniNet

REQUIRED TOOLS

1. Flathead screwdriver (small and standard size)
2. Phillips screwdriver
3. Toner grabber
4. Air compressor
5. 99% isopropyl alcohol
6. Cotton swab

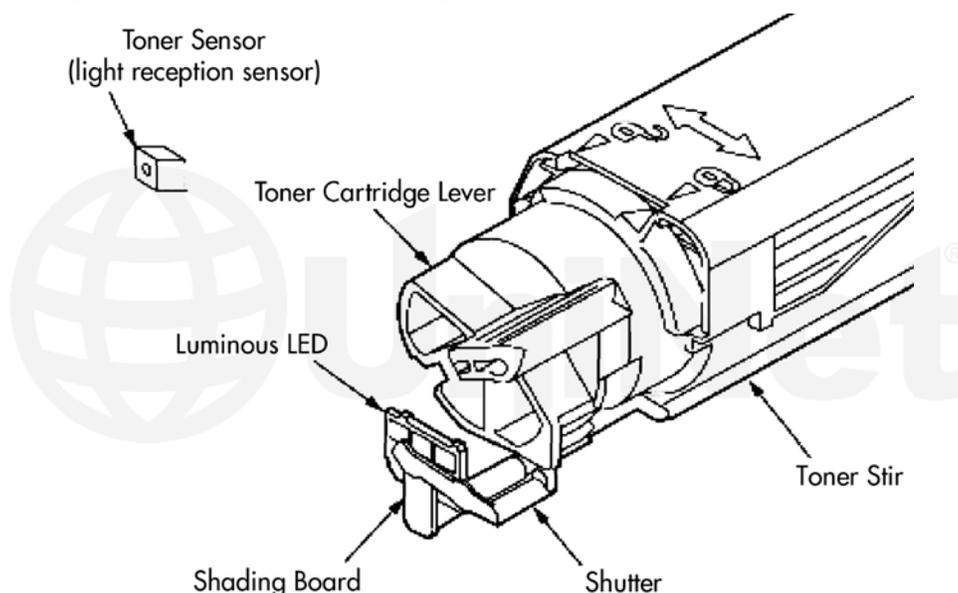
REQUIRED SUPPLIES

1. Absolute BLACK® replacement glossy toner (2,500 pages) for use in Okidata C 3400, 3300
2. Absolute CYAN® replacement glossy toner (2,000 pages) for use in Okidata C 3400, 3300
3. Absolute MAGENTA® replacement glossy toner (2,000 pages) for use in Okidata C 3400, 3300
4. Absolute YELLOW® replacement glossy toner (2,000 pages) for use in Okidata C 3400, 3300
5. Replacement smartchip (Black) for use in Okidata C 3400
6. Replacement smartchip (Cyan) for use in Okidata C 3400
7. Replacement smartchip (Magenta) for use in Okidata C 3400
8. Replacement smartchip (Yellow) for use in Okidata C 3400
9. Replacement smartchip for drum unit (K/C/M/Y)

TONER SENSOR DETECTION PRINCIPLE

Source: Okidata C3400 Maintenance Manual

“Detection of the low toner is performed by the toner sensor (light reception sensor) installed inside the equipment and the luminous LED installed inside the cartridge. The shading board is installed inside the ID and rotates synchronizing with the toner stir. The shutter is attached to the ID. The shutter synchronizes with the cartridge operation lever and the toner sensor can detect whether the cartridge is installed properly. If the toner sensor is stained by the toner, etc. or the ID unit and the toner sensor are not facing each other as specified due to improper setting of the ID unit or for other reason, the detection may not be executed normally, resulting in a toner sensor error (see diagram below).”



TONER COUNTER PRINCIPLE

Source: Okidata C3400 Maintenance Manual

“After the image data is developed into 2 value data to enable printing using the printer, the print dot number is counted by the LSI. The amount of the toner used is counted from the above count value and the remaining amount is displayed. On the other hand, detection of the low toner by the toner sensor is physically made when the amount of the toner remaining in the cartridge comes to be under certain amount.”

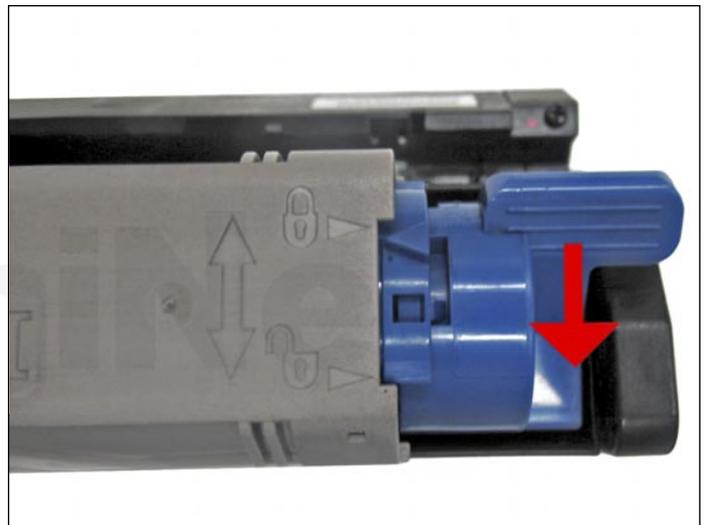
PRINCIPLES OF ID, BELT AND FUSING COUNTER

Source: Okidata C3400 Maintenance Manual

“ID Counter : 1 count is the value of one third of the amount of drum rotation when three A4 sheets of paper are continuously printed.

Belt Counter : 1 count is one third of the amount of the belt rotation when three A4 sheets of paper are continuously printed.

Fusing Counter : Standard is the length of Legal 13 inches sheet of paper. 1 count is the sheet of paper under that length and when the length is more than that, the number of count is decided by multiples of Legal 13 inches (number under the decimal point is rounded up).”



TONER CARTRIDGE INSTRUCTIONS

1. Identify whether you have a **Starter** cartridge or a **Standard** cartridge. Notice the waste section and chip compartment.

2. Separate the toner hopper from the drum unit by switching the blue handle to the unlocked position as shown.



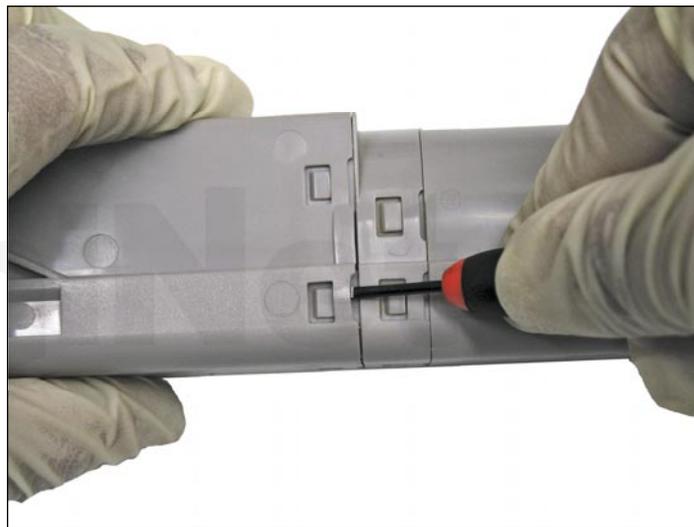
3. Push down the locking tab while you rotate the blue handle, which will make it easier to remove the rest of the blue portion.

NOTE: Be aware that toner may still reside inside the hopper and possibly spill out once the blue portion is removed.



4. Remove and clean the blue portion.

NOTE: The actuator will remain inside the hopper and cannot be dislodged from this position.



5. Release the interlocking tabs by using a small flat head screwdriver to raise one over the other as shown.



NOTE: Make sure you release the clips farthest from the blue handle.



6. Waste section removed.



7. Remove the hopper divider.



8. Remove the foam seal and auger. The cartridge can now be cleaned. Assemble the cartridge following the preceding steps in reverse.



9. **NOTE:** To easily install the blue handle, rotate the actuator until it is centered. This may require several turns and adjustments to center it. Once centered, insert the blue handle as shown.

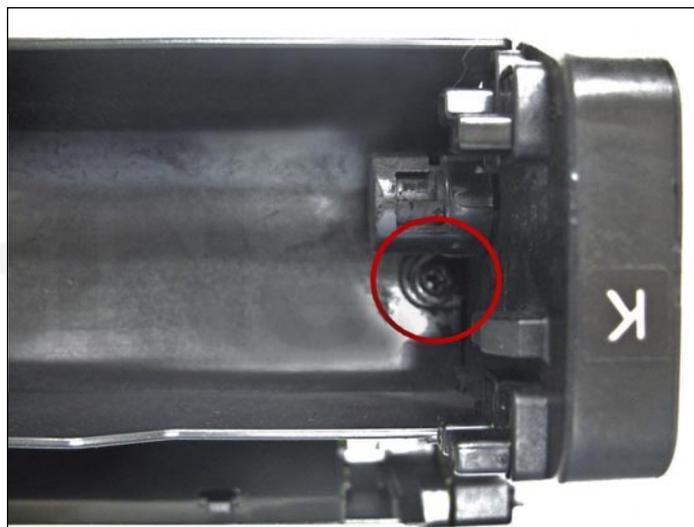
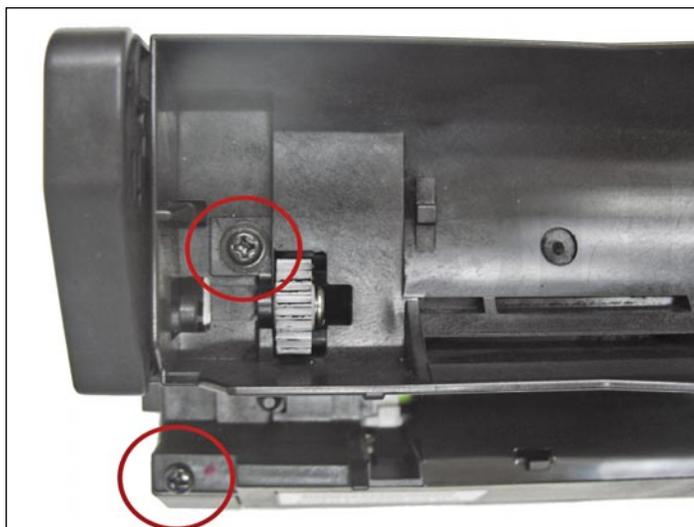


10. Locate the chip compartment on the top side of the cartridge opposite of the blue handle. Using a small, flat head screwdriver, pry off the cover.



11. Remove the used chip and install the new aftermarket chip.

NOTE: The circuit side of the chip should face away from cartridge when inserting. As mentioned before, the **Starter** cartridge will not have a chip compartment.



DRUM UNIT INSTRUCTIONS

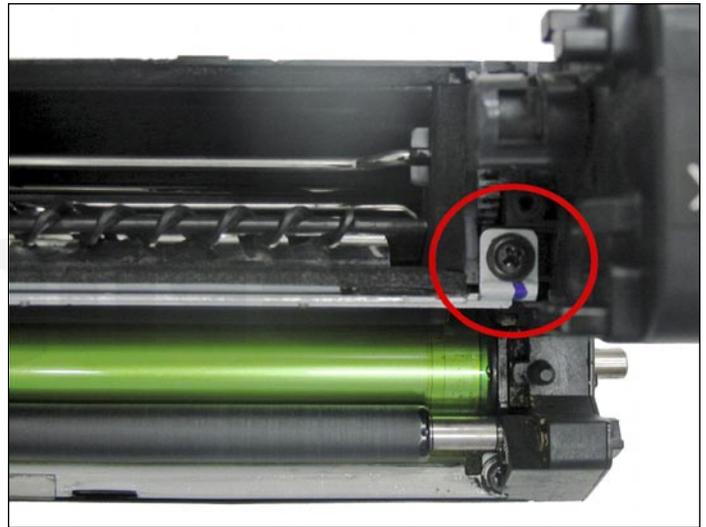
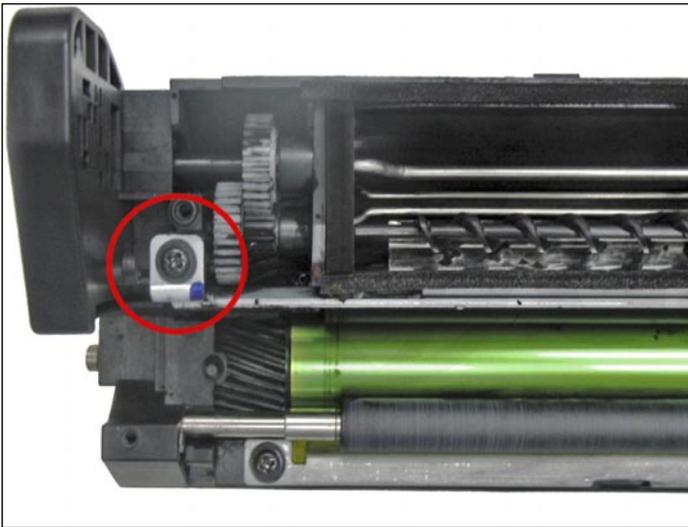
12. Remove the three screws from the top of the drum unit cover shown.



13. Turn the drum unit over so the bottom is facing up. Release the locking tabs by pressing them in using a flat screwdriver.



14. Remove the top cover, lifting the left side first and pulling away from the cartridge as shown.



15. Remove the two doctor blade screws shown.



16. Remove the doctor blade by flipping it 90 degrees to clear the metal extension as shown.



17. Clean the edge of the doctor blade using a cotton swab with 99% isopropyl alcohol first, then purified water. This will remove any residual toner.

NOTE: Repeat the process until the doctor blade is completely clean of toner residue.



18. Remove the two screws from the large end cap shown.



19. Carefully remove the large end cap.

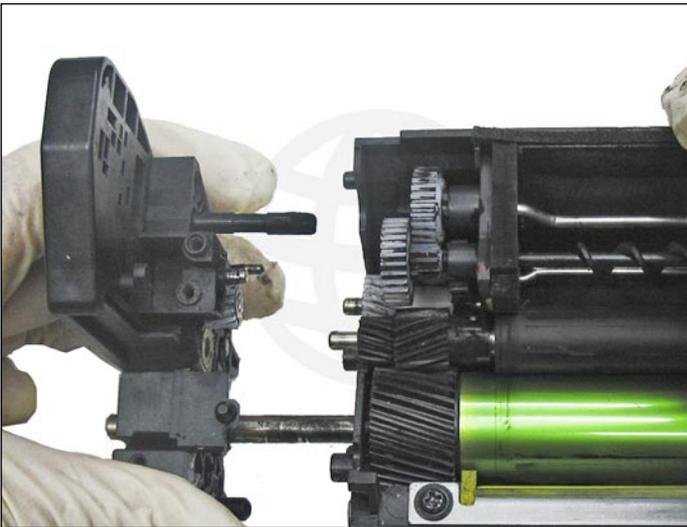
NOTE: Take hold of the PCR while doing this, as it will easily fall out. Remove the PCR as soon as it becomes free, then continue removing the end cap.



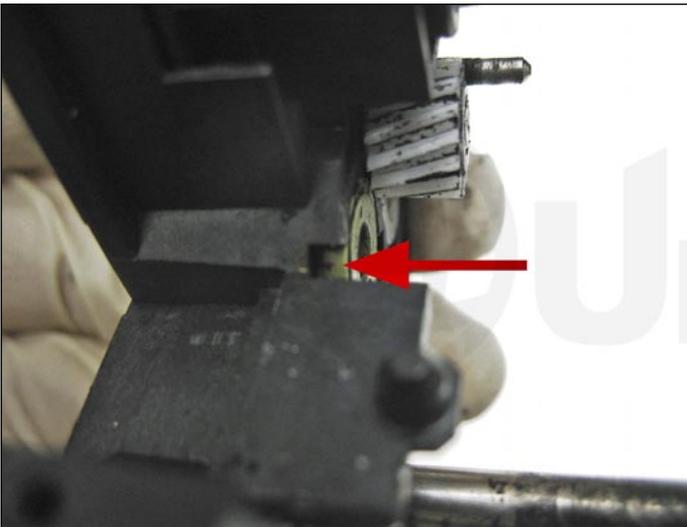
20. Remove the C-clip to unlock the drum axle shown.



21. Remove the two screws from the smaller end cap on the opposite side.

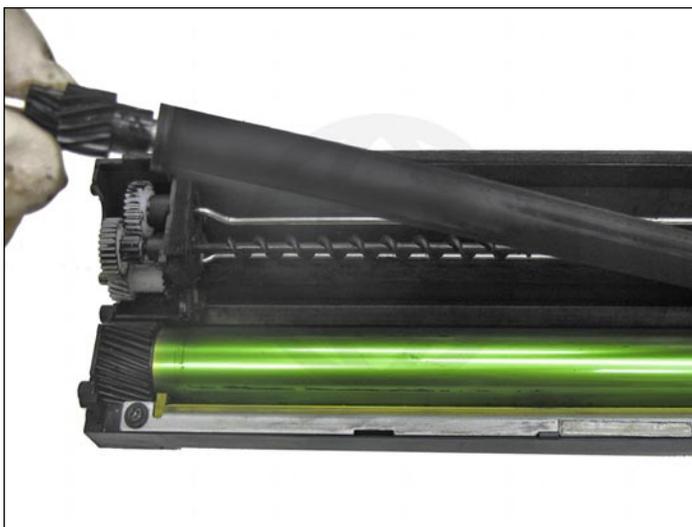


22. Slide the smaller end cap out completely, with the drum axle connected to it.



23. **NOTE:** The green gears have been adjusted to the right position by the manufacturer.

They have been clearly marked, and should line up accordingly with the small window as shown.

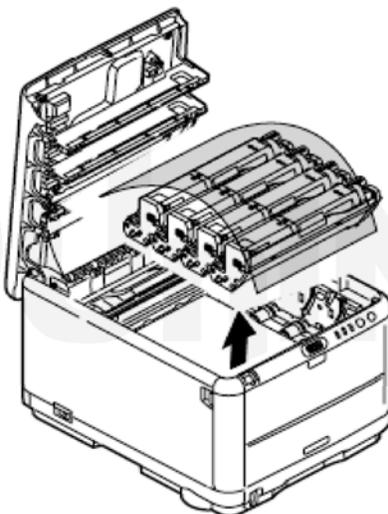


24. Continue by removing the developer roller.



25. Remove the drum.

NOTE: Clean the developer roller using lint free cloth only.



Source: Okidata C3400 Maintenance Manual

“Note! The image drum (the green cylinder) is very easily damaged, please be careful when handling it.

Don't put the image drum unit cartridge in direct sunlight or strong light (above 1500 lux).
And don't put them in indoor lighting condition for more than 5 minutes.”

NOTE: If you are planning on reusing the OEM drum, although not recommended as this is a 15,000 page drum unit, we do recommend you clean and cover the drum to protect it from light damage.



26. Finally, remove the supply roller assembly and clean the cartridge thoroughly.

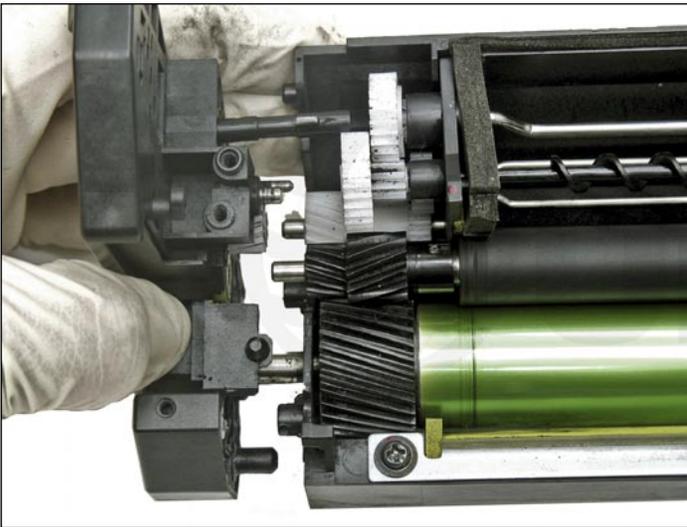
NOTE: It is recommended to replace the wiper blade every time you replace the drum.

Once the wiper blades are available, this will be the step to replace it in.



27. Once you have cleaned the cartridge, reassemble following the preceding steps in reverse.

NOTE: Be mindful about the two small gears shown.



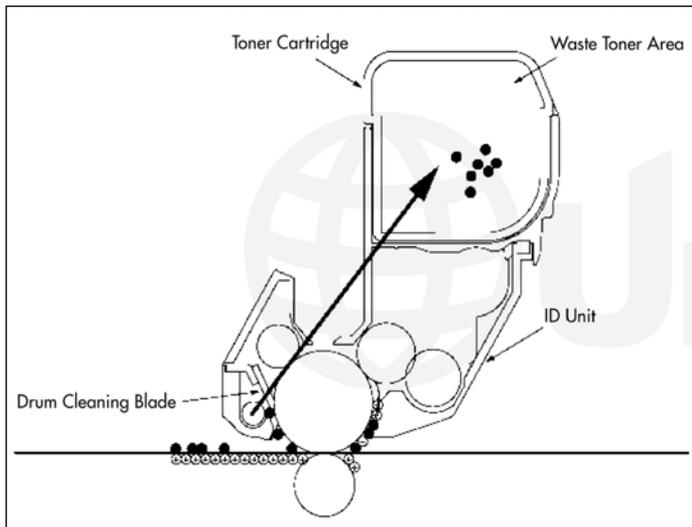
28. Install the small end cap and connected drum axle.

NOTE: Align the gears to their respective axles for a smoother installation.



29. Before installing the larger end cap clean out the waste transfer system. First pry off the lid using a small flat head screwdriver. Once clean install the larger end cap.

NOTE: Ensure the gears are in their correct position as they may cause noise if installed incorrectly.



30. The toner not transferred and remaining on the OPC drum is scraped away by the drum cleaning blade and is collected in the waste toner area of the toner cartridge.



31. We will need to insure that the reflective target is clean. To do so, remove the cover found in the smaller end cap as shown.



32. Clean the shown target using a small cloth with isopropyl alcohol and install the cover.