

# OKIDATA® C 3400

## CARTRIDGE REMANUFACTURING INSTRUCTIONS



OKIDATA® C 3400 PRINTER



DRUM AND TONER CARTRIDGE

# REMANUFACTURING THE OKIDATA C 3400 DRUM UNIT & TONER CARTRIDGE

## REQUIRED TOOLS

- Flat-head Screwdriver (small and standard size)
- Phillips Screwdriver
- Toner grabber
- Air Compressor
- 99% Isopropyl Alcohol
- Cotton Swab



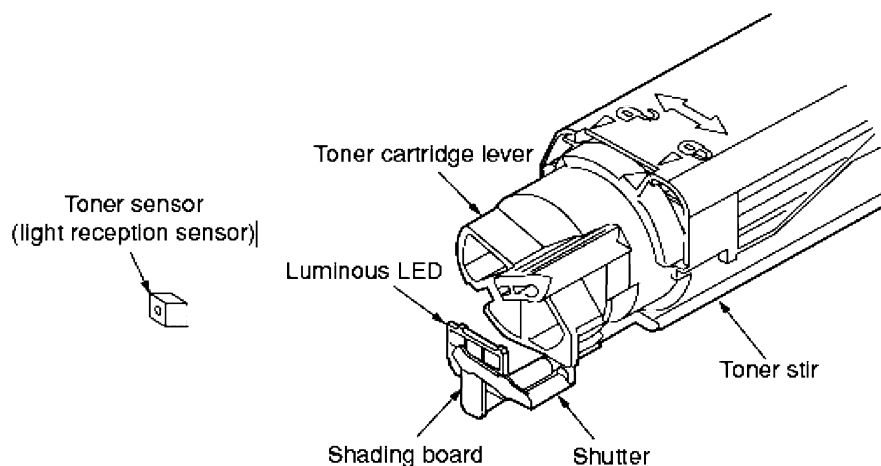
## REQUIRED SUPPLIES

- Okidata C 3400, 3300 Absolute Black™ glossy toner (2,500 pages)
- Okidata C 3400, 3300 Absolute Cyan™ glossy toner (2,000 pages)
- Okidata C 3400, 3300 Absolute Magenta™ glossy toner (2,000 pages)
- Okidata C 3400, 3300 Absolute Yellow™ glossy toner (2,000 pages)
- Okidata C 3400 Smartchip Black
- Okidata C 3400 Smartchip Cyan
- Okidata C 3400 Smartchip Magenta
- Okidata C 3400 Smartchip Yellow
- Okidata C 3400 Smartchip drum unit (K, C, M, Y)



## Toner Sensor Detection Principle

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. A 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.



## Toner Counter Principle

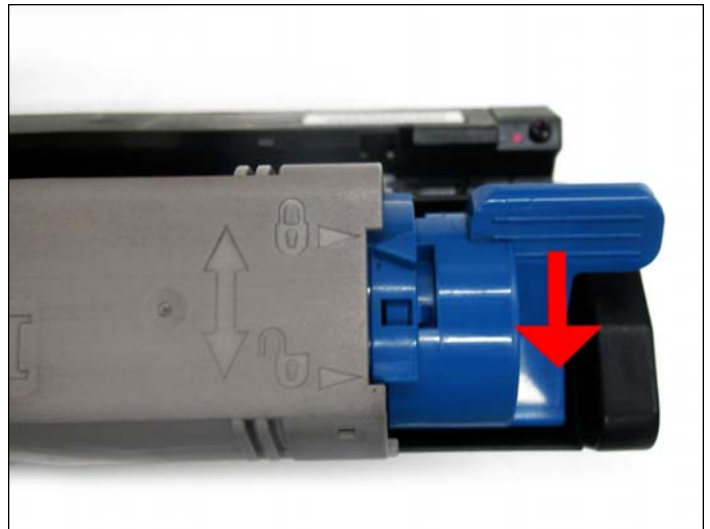
After the image data is developed into 2 value data to enable printing using the printer, the print dot number is counted by the LSI. The amount of the toner used is counted from the above count value and the remaining amount is displayed. On the other hand, detection of the low toner by the toner sensor 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

- 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.)



1. Identify whether it you have a starter cartridge or a standard cartridge. Notice the waste section and chip compartment.

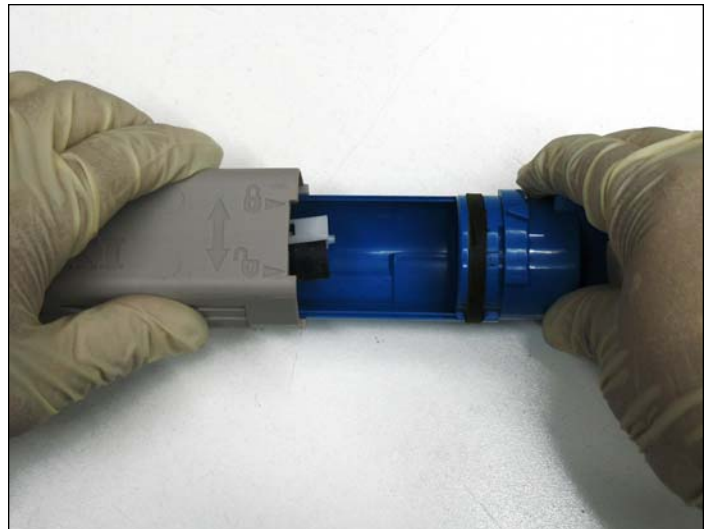


2. Separate the toner hopper from the drum unit by switching the blue handle to the unlocked position.



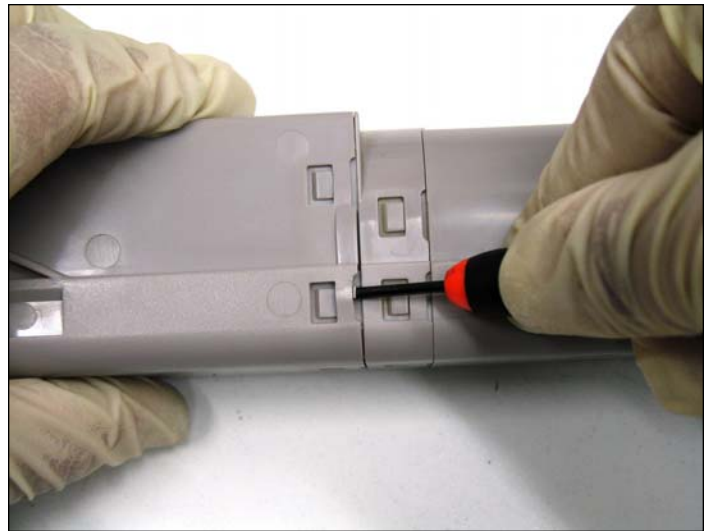
3. Push down the locking tab while you rotate the blue handle, this will make it easier to remove the rest of the blue portion.

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



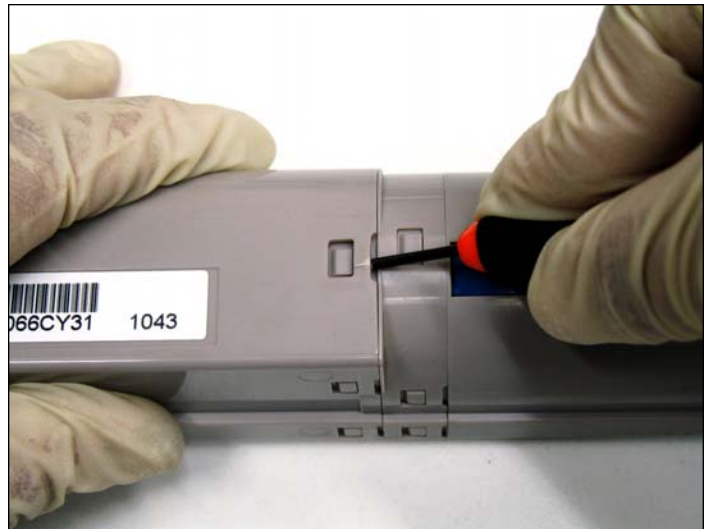
4. Remove the blue portion and clean.

**NOTE:** The actuator will remain in inside of 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.

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







6. Waste section removed.



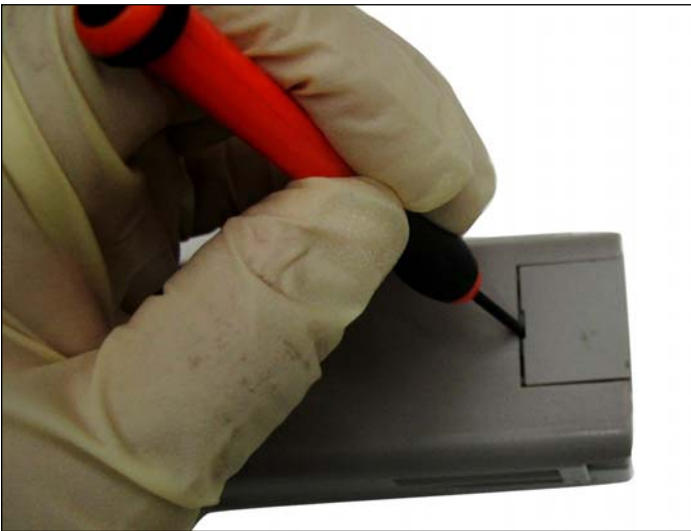
7. Remove the hopper divider.



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



9. **NOTE:** To make it easier to install the blue handle, Rotate the actuator until centered. May require several turns and adjustments to center. Once centered insert the blue handle as shown



10. Locate the chip compartment. Will be located in the top side of the cartridge, opposite of the blue handle. Using a small flat head screw driver, pry off the cover.



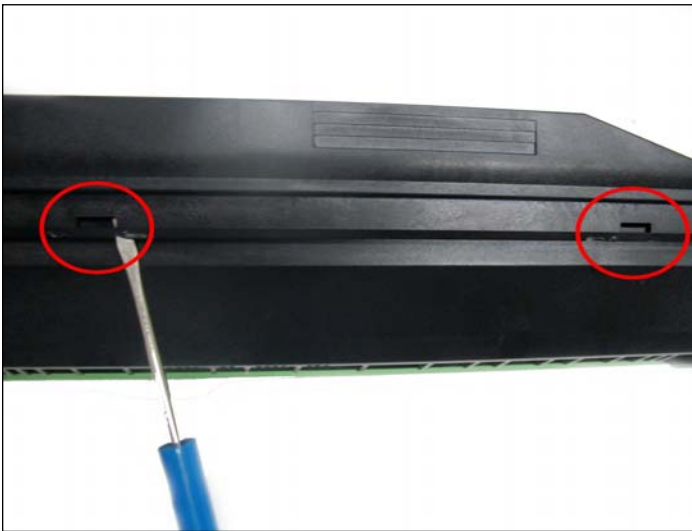
11. Remove the old chip and install the new aftermarket chip

**NOTE:** Circuits should face away from cartridge when inserting. As mentioned before the starter cartridge will not have a chip compartment.



**DISASSEMBLING THE OKIDATA C3400 DRUM UNIT**

12. Remove the top cover by first removing the three screws as shown.



13. Once the screws have been removed, flip the drum unit to the back side and release the inter locking tabs by lifting one over the other.

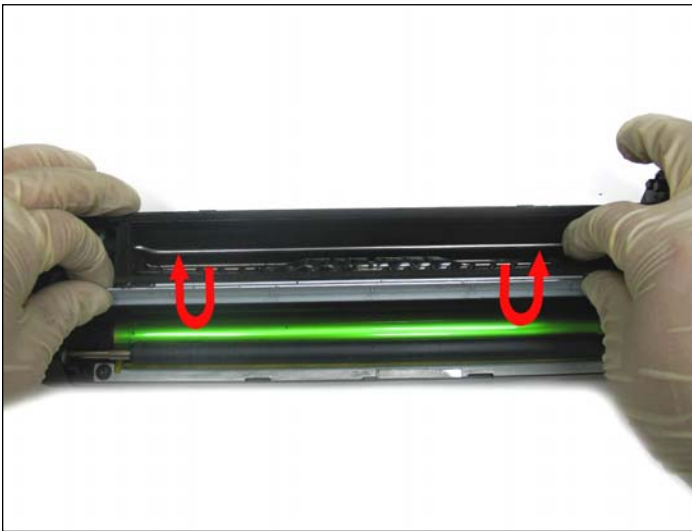


14. Remove the top cover by first lifting the left side and pulling away from the cartridge as shown.

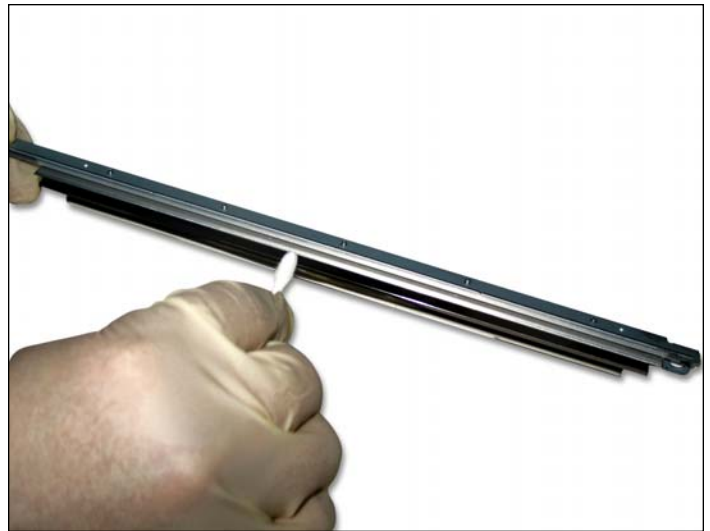


15. Remove the doctor blade by first removing the two screws that hold it in place.





16. Once free, rotate the doctor blade 90 degrees to clear the metal extension as shown.



17. Clean the doctor blade edge by using Isopropyl Alcohol first, then purified water. This will insure there is no toner residue stuck on the doctor blade

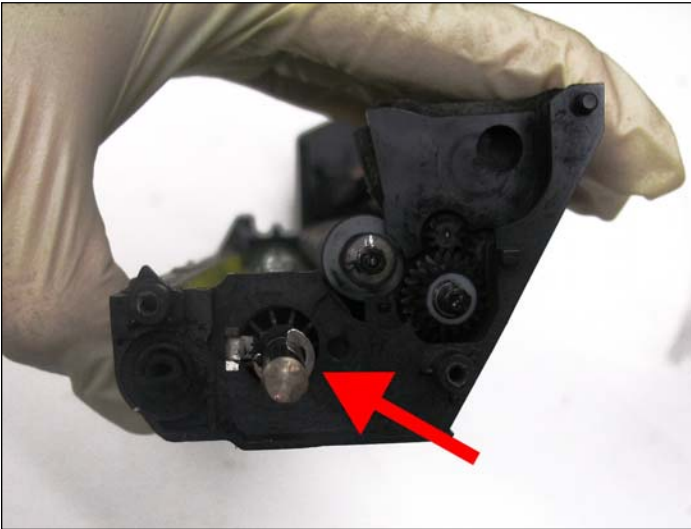
**NOTE:** Repeat the process until the doctor blade is completely rid of toner residue.



18. Remove the larger end cap first by removing the two screws as shown.



19. While removing the large end cap hold the PCR as it will tumble off when the end cap is being removed. Once you free the PCR remove it, then continue removing the end cap.



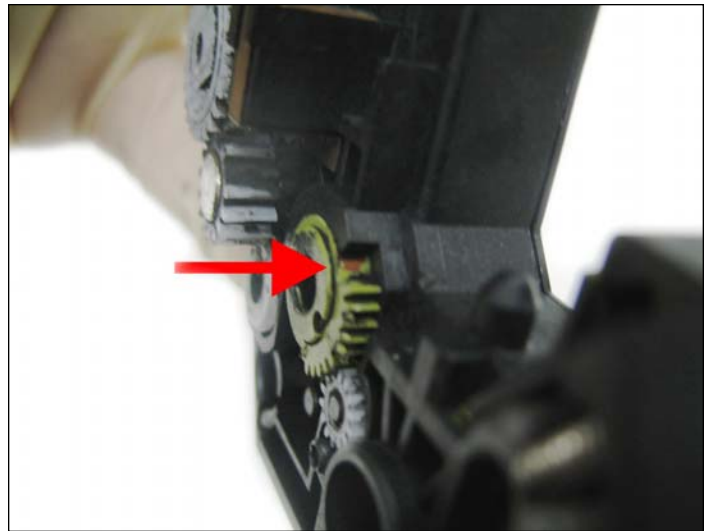
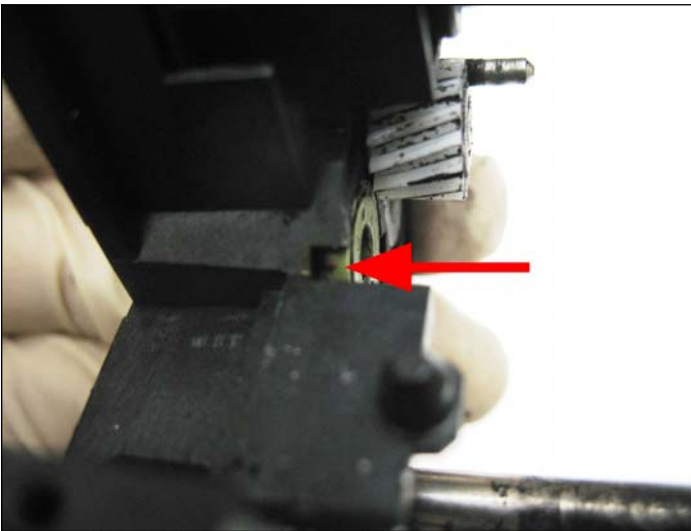
20. In order to remove the smaller end cap which is connected to the drum axle, you will first need to remove the C-clip that secures the drum axle.



21. Once the drum axle has been released from the opposite side, remove the smaller end cap by removing the two screws shown.



22. Once the drum axle has been released from the opposite side, remove the smaller end cap by removing the two screws shown Pull out the smaller end cap.



23. **NOTE:** The green gears have been adjusted to the right position by the manufacturer. They have been clearly marked, this mark should line up with the small window as shown.

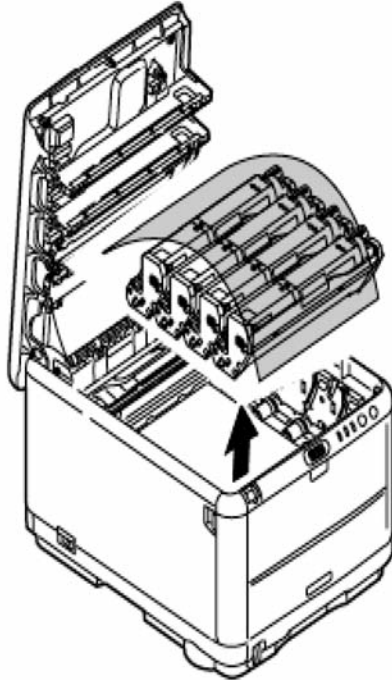


24. Continue by removing the developer roller.  
**NOTE:** Clean the developer roller using lint free cloth only.



25. Remove the drum.

- Note!**
- The image drum (the green cylinder) is very easy to be damaged, please be careful when handling it.
  - Don't put the image drum cartridges 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.

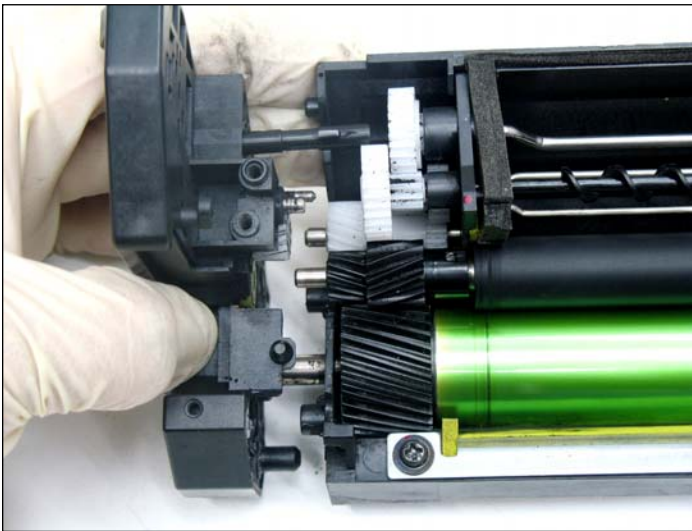
**NOTE:** It is recommended to replace the wiper blade every time you replace the drum, once the wiper blades are available, this will be the step to replace it in.



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

**NOTE:** Be cautious about the two small gears.





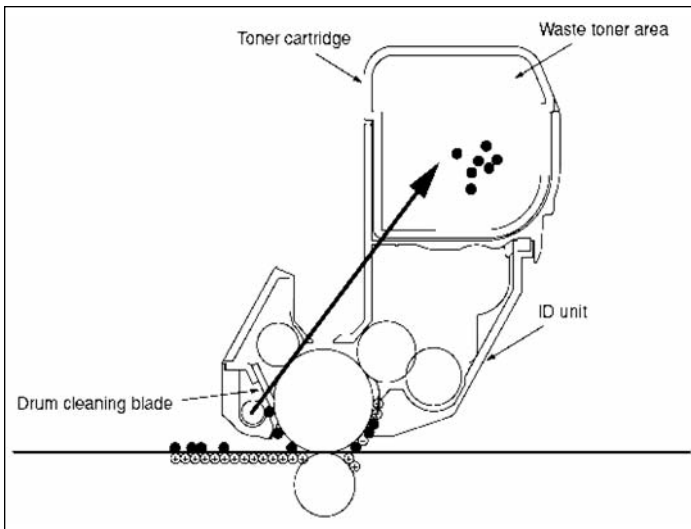
28. Install the small end cap containing the drum axle.

**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 they are 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 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 and isopropyl alcohol and install the cover.

#### NOTES