

# OKIDATA® B710/720/730 SERIES

## TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



OKIDATA B710/720/730 SERIES TONER CARTRIDGE

# REMANUFACTURING THE OKIDATA B710/720/730 SERIES TONER CARTRIDGE

By Mike Josiah and the Technical Staff at UniNet



First introduced in December 2010, the Okidata B710/720/730 series are based on a 52ppm(depending on the model), 1200dpi laser printer engine. The first page out is stated to be under 8 seconds. The processor is 600 MHz, and all come standard with 128Mb RAM, maximum 640Mb. These machines were designed for use as workgroup printers, so if you have a customer that has one, the cartridge volume will be on the high side.

With the list prices of these cartridges at \$159.99 USD for the low yield, and \$224.99 USD for the high yield, they are nice profitable cartridges, though a bit unique in their construction, they are fairly easy to remanufacture.

These cartridges use white plastic pins located on each side that lock the two halves of the cartridge in place. The heads of these pins have a one-way screw head on them.

We have contacted multiple specialty screw manufacturers to see if a special tool is available, but were not able to find one. They can be removed by inserting a 1" long #6 or #8 wood screw into the center of the pin. You can then twist the pin to release the two small tabs and pull it out. The following instructions will go more into detail on this.

## **MACHINES BASED ON THE OKIDATA B710/720/730 SERIES ENGINE**

**B710n / B710dn / B720n / B720dn / B730n / B730dn**

## **TONER CARTRIDGES USED FOR THESE MACHINES**

<b>52123601</b>	<b>15,000 pages (all models)</b>	<b>\$301.00 USD</b>
<b>52123602</b>	<b>20,000 pages (B720n/dn only)</b>	<b>\$335.00 USD</b>
<b>52123603</b>	<b>26,000 Pages (B730n/dn only)</b>	<b>\$368.00 USD</b>

With standard costs like these, the profit margins for remanufacturing these cartridges are nice!

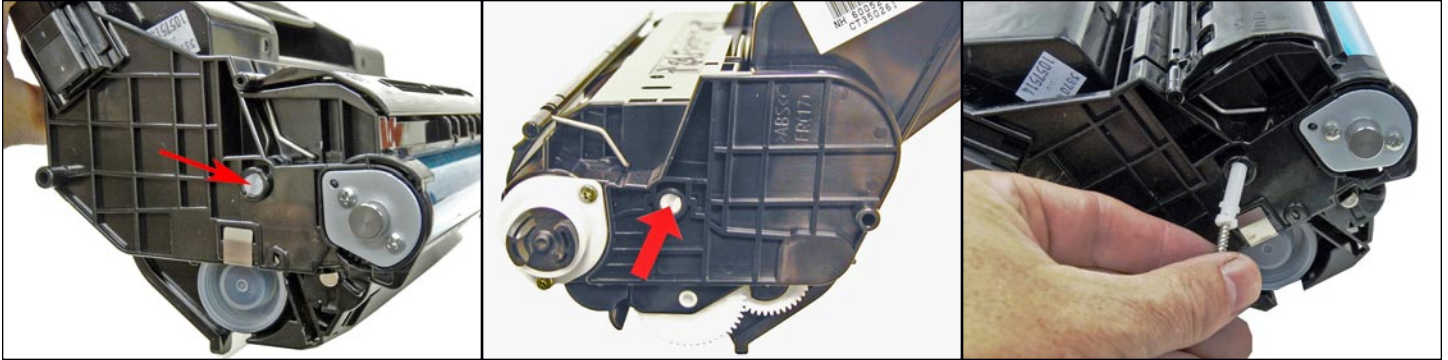
The 15K cores can be made into the higher yield cartridges. Check with your supplier for chip and toner load availability.

**SUPPLIES REQUIRED**

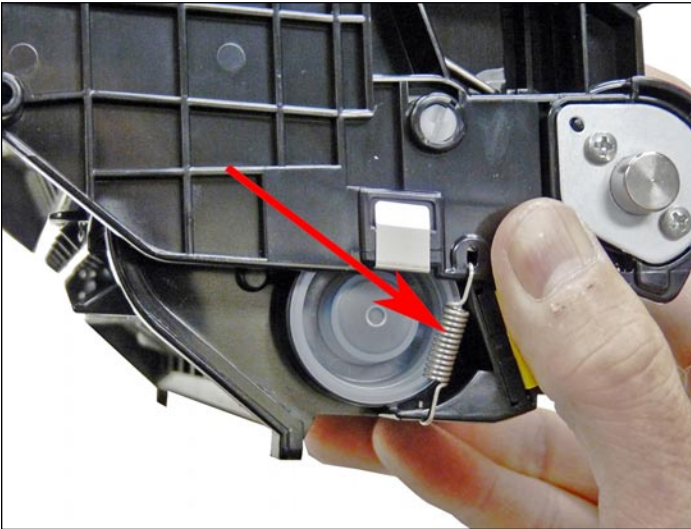
1. Replacement toner (700g) for use in the Okidata B700 series toner cartridge (15,000 pages)
2. New replacement chip
3. Sealing strip
4. New replacement locking pins (optional)
5. New drum (optional)
6. New wiper blade (optional)
7. New doctor blade (optional)
8. Cotton swabs
9. Isopropyl alcohol
10. Drum padding powder
11. Conductive grease
12. Dedicated magnetic roller cleaner

**TOOLS REQUIRED**

1. Phillips head screwdriver
2. Small common screwdriver
3. A 1" long #6 or #8 wood screw
4. Needle nose pliers
5. Spring hook
6. Vacuum approved for toner

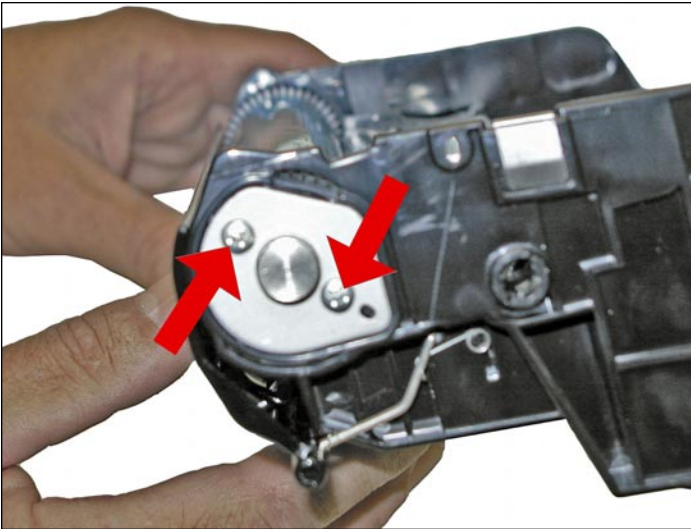


1. On either side of the cartridge is a white plastic pin with one-way screw heads. These pins are what hold and lock both halves together. Specialty drivers to remove them are not available, so the only way as of now to remove them is to insert a 1" long #6 or #8 wood screw into the center of the pin. Once the screw has been inserted, turn the pin/screw so that the two small tabs in the pin are free. Remove the pin. The head of the pin breaks easily so do not force the screw in too far, just enough to get a grip. New pins are available if they break on you.

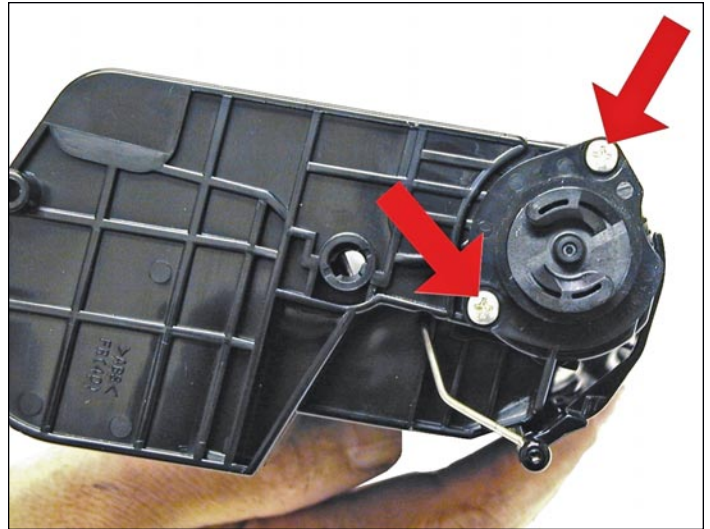


2. Remove the spring from the right (fill plug) side of the cartridge.

Separate the two halves by lifting the waste chamber straight up off the supply chamber.



3. Remove the two screws and metal drum axle pin from left side of the cartridge.



4. Remove the two screws and plastic drum bushing from the right side of the cartridge.

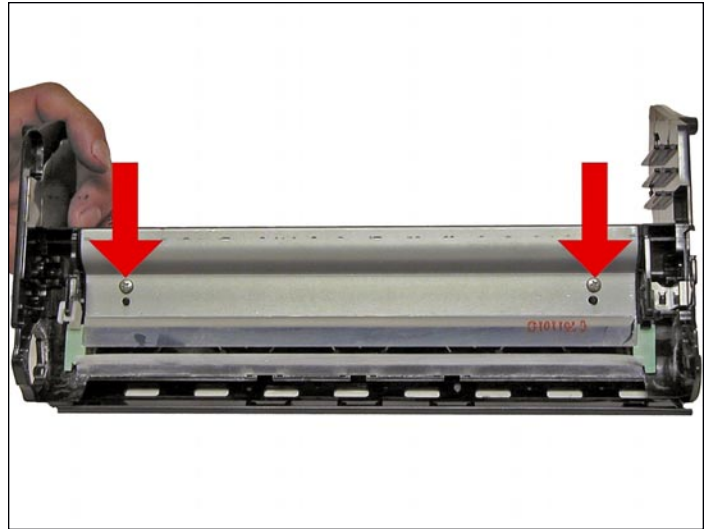




5. Remove the drum.



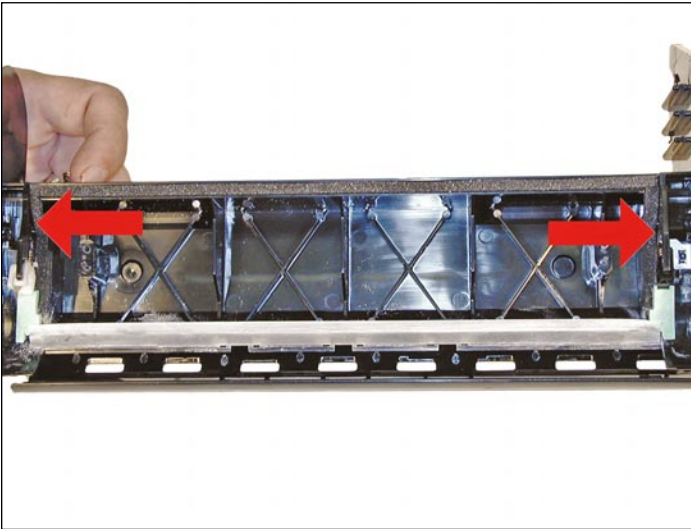
6. Remove the PCR from its holders.



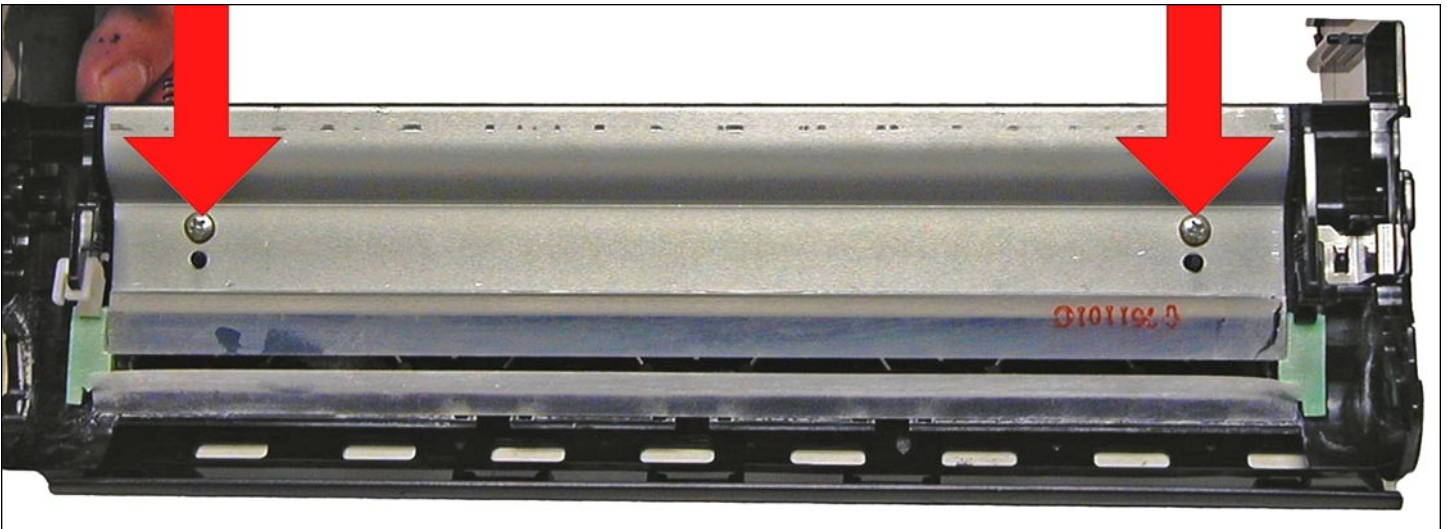
7. Remove the two screws and wiper blade.

This blade has a very tight fit.

Be careful not to break the alignment pins!



8. Clean out the waste chamber. Be very careful not to lose or damage the foam wiper blade seal.



9. Coat the wiper blade with your preferred lubricant, and install in the cartridge.

As stated previously, this blade has a very tight fit. Be careful not to break the alignment pins!

Install the two long screws the four short screws are for the drum axle pins only.



10. Clean the PCR contacts with a cotton swab and alcohol. Place a small amount of conductive grease on the black PCR holder.

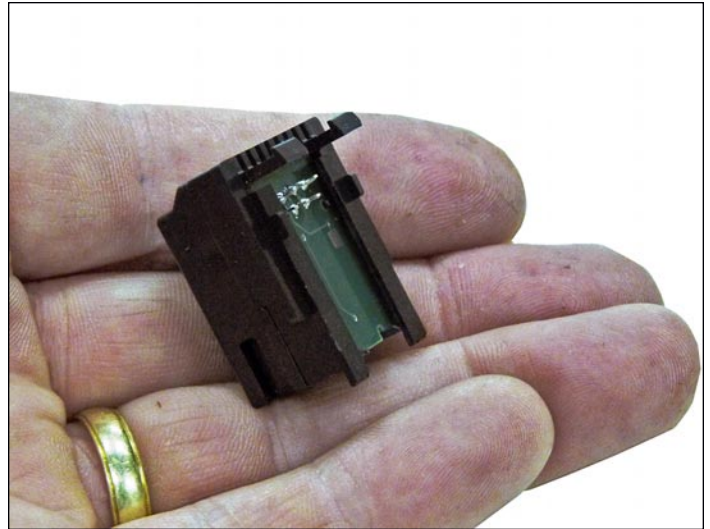


11. Clean the PCR with your preferred PCR cleaner, and install in the holders.



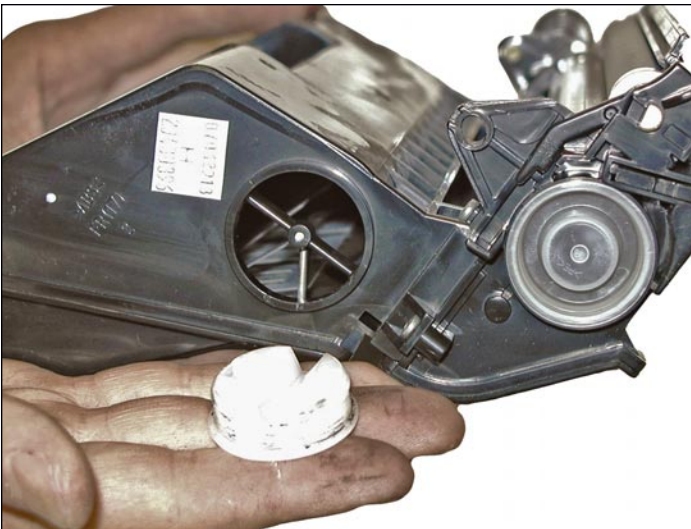
12. Install the drum, axle pins, and screws. Make sure that there is clean conductive grease on the drum axle pin shaft.



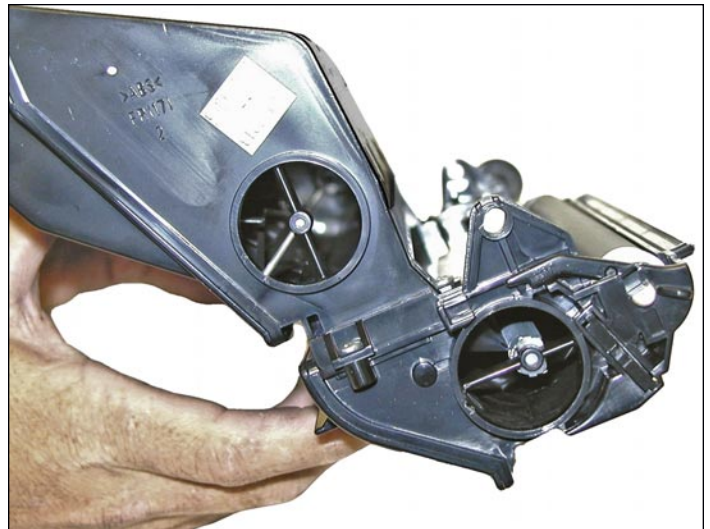


13. While the cartridge is apart this is the best time to remove the old chip.

Press in on the two tabs from the inside wall of the cartridge, and remove the chip.



14. With a small jeweler's screwdriver, pry out the upper fill plug. Dump out any remaining toner from the upper hopper.



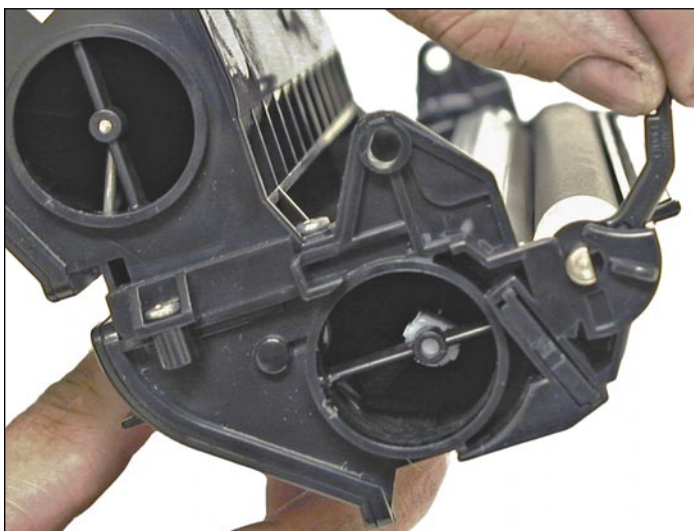
15. With the same jeweler's screwdriver, pry out the lower fill plug, and dump out any remaining toner from the lower section.





16. On the side opposite the fill plug, remove the two screws and end cap and gears as shown.

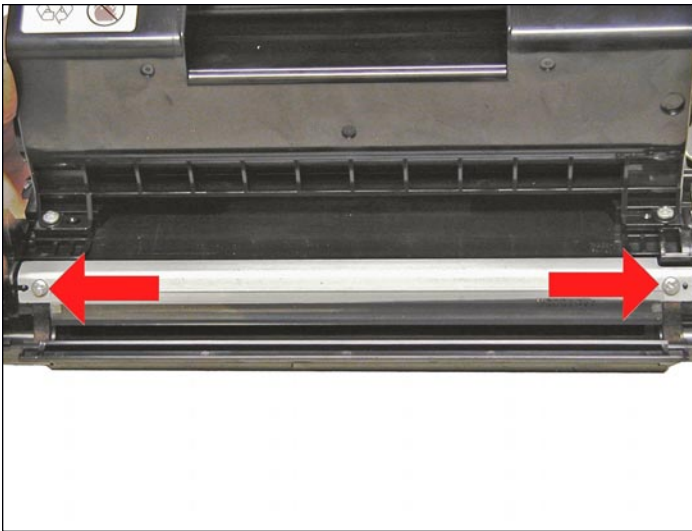
Leave the top large white gear in place.



17. Lift up the locking arm on the right side of the magnetic roller.

With the keyed shaft of the magnetic roller free, lift up on the keyed end by the locking arm.

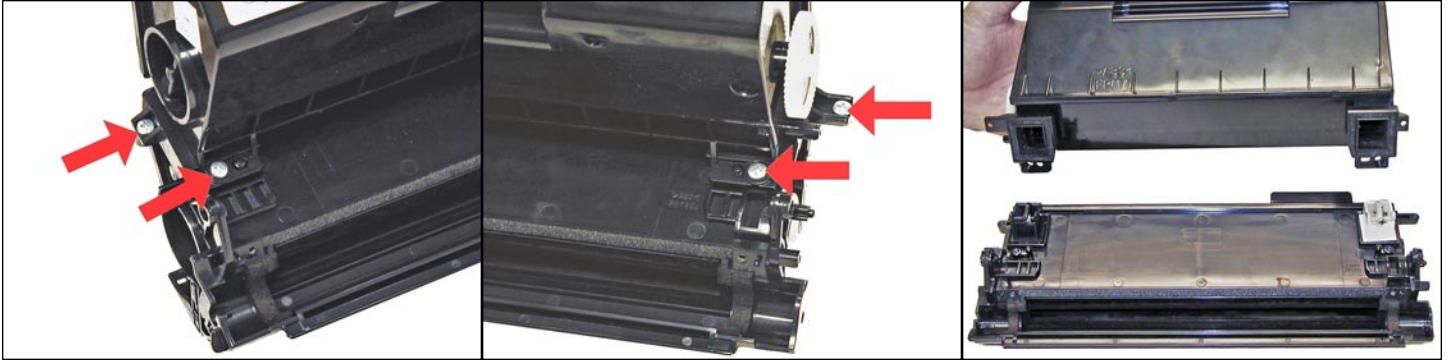
Pull the entire magnetic roller assembly free.



18. Remove the two screws and doctor blade.

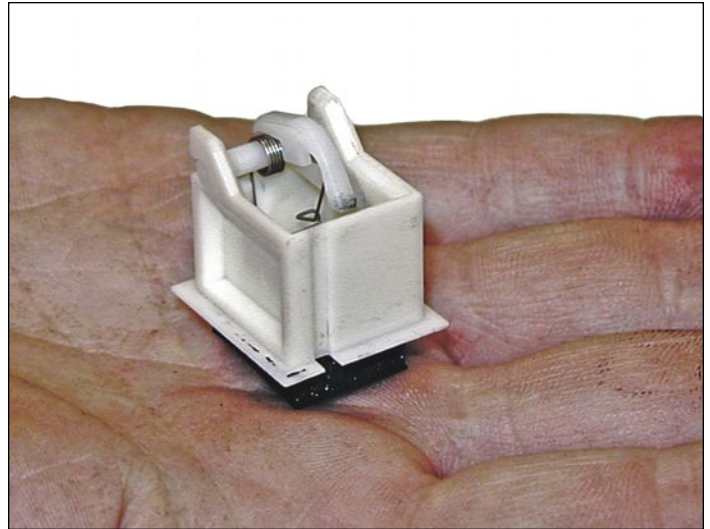
Watch out for the alignment pins!

Clean out any remaining toner.



19. Remove the four screws that hold the upper supply section to the lower.

Remove the upper section.

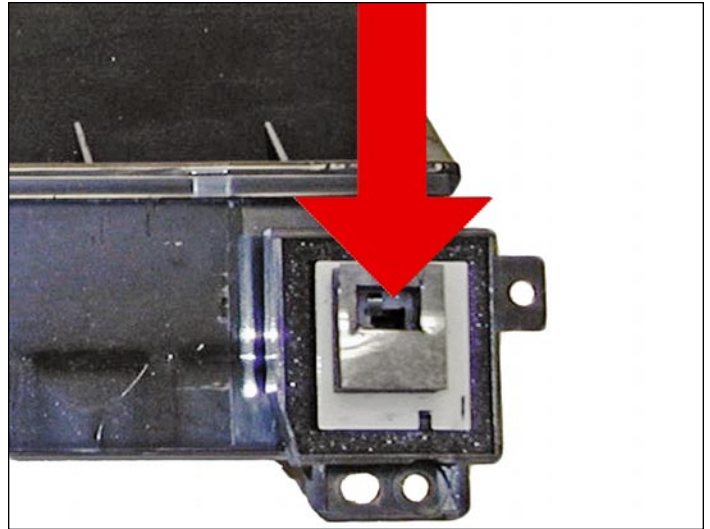
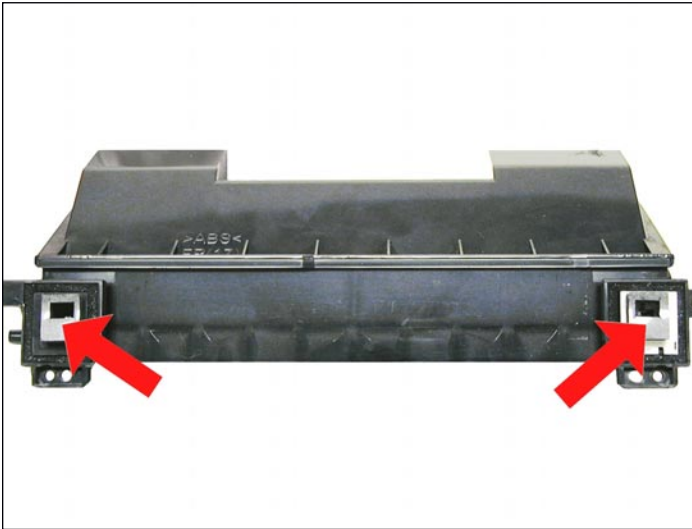


20. Remove the two agitators from the lower hopper and clean them off.



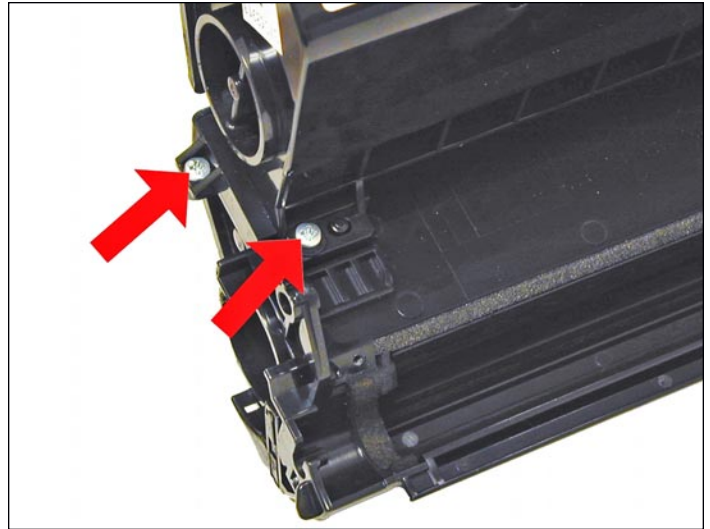
21. Thoroughly clean out both the lower and upper chambers. Be careful not to lose or damage the square foam seals on the lower chamber!



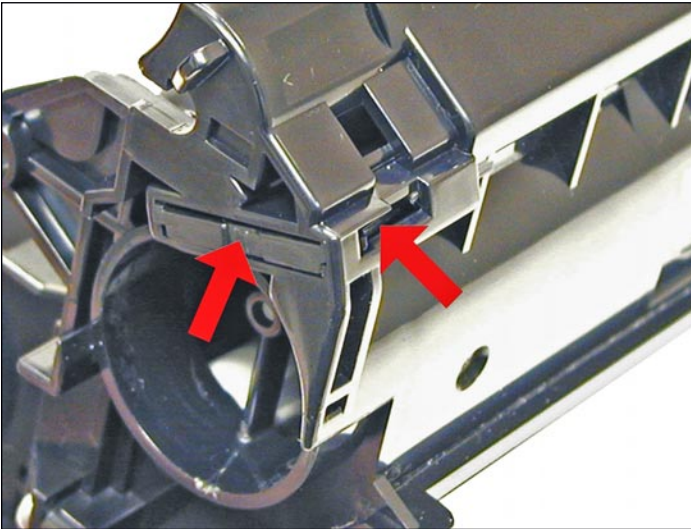


22. Install the two agitators.

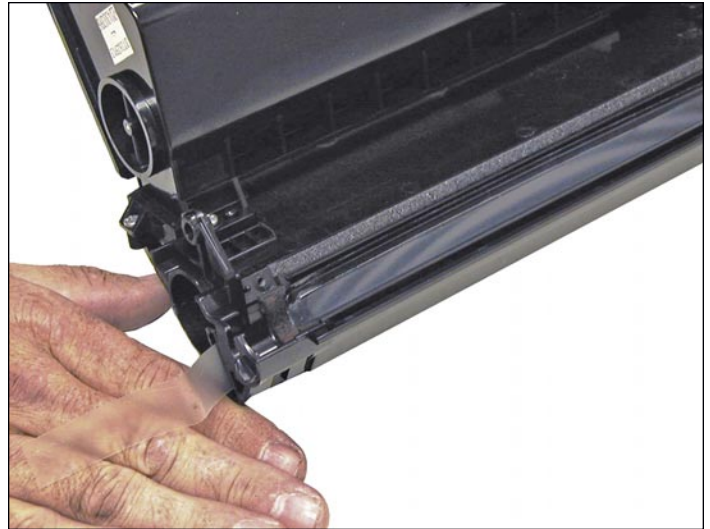
Make sure the rectangle hole is towards the top of the cartridge.



23. Place the upper chamber onto the lower, and install the four screws.



24. If you are installing a seal, on the lower section, remove the seal plug by pressing in on the side tab.

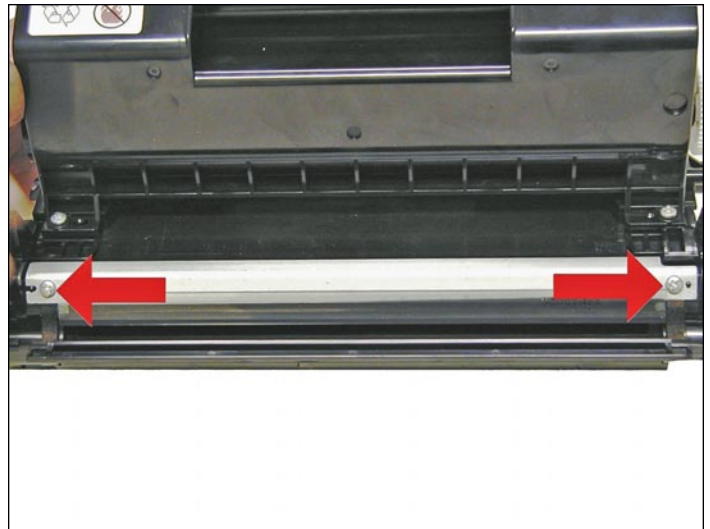


25. Install the seal.

Make sure the seal tab is slid into the seal tab slot.

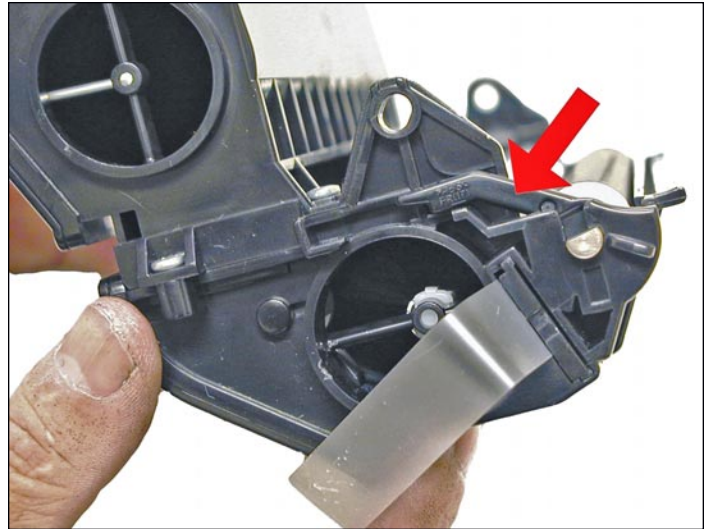


26. Install the seal plug.



27. Install the cleaned doctor blade and two screws.

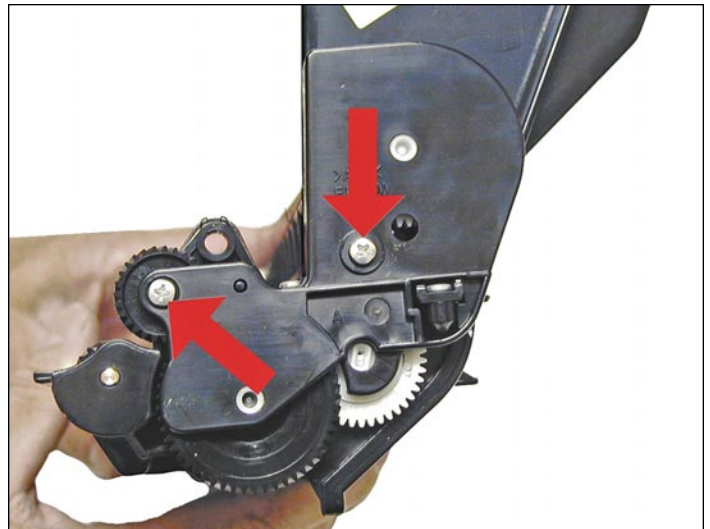
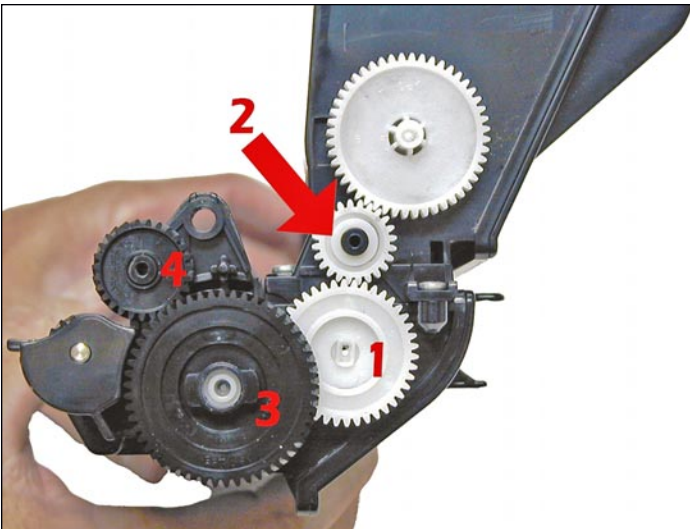
Be careful not to damage the alignment pins.



28. Clean the magnetic roller assembly with a dedicated magnetic roller cleaner.

Install the assembly left side (round shaft) first.

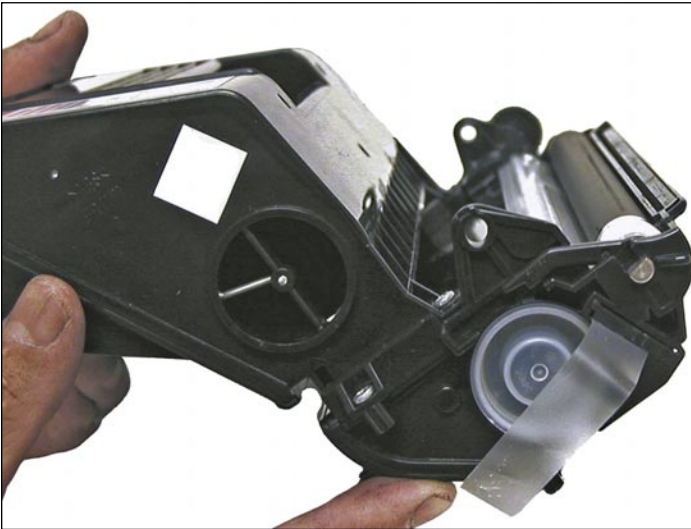
Make sure the locking arm is firmly locked in place.



29. Install the gears in the order shown.

Install the end cap and two screws.

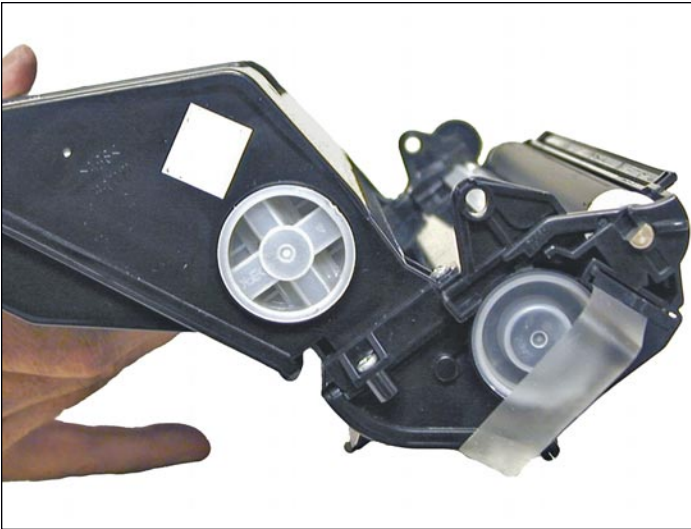




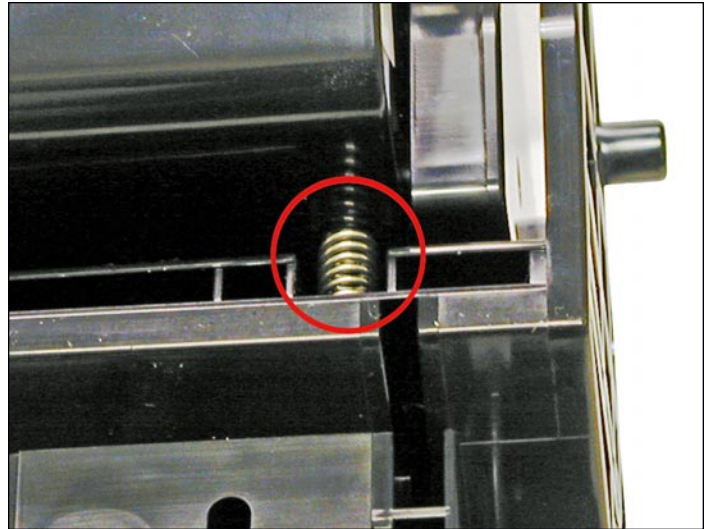
30. Install the lower fill plug.



31. Fill with 700g toner for use in the Okidata B700 series toner cartridge in the upper chamber.



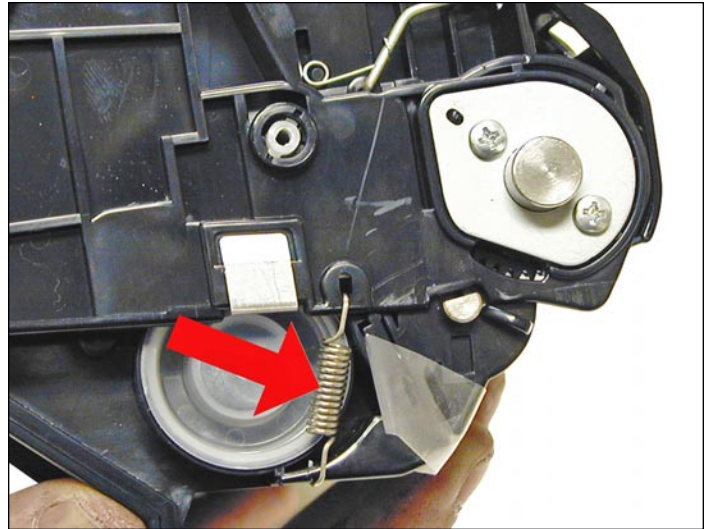
32. Install the upper fill plug, and check for leaks.



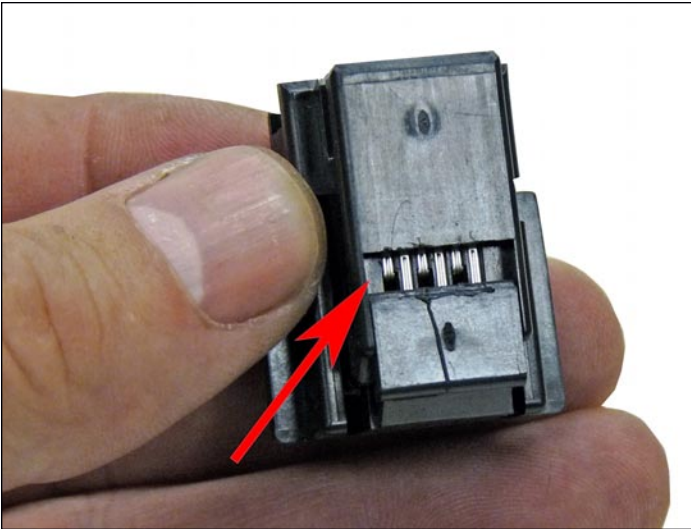
33. Install the toner supply section onto the waste chamber. Make sure the spring on the supply hopper fits into the plastic ring on the waste hopper.



34. Install the two white plastic locking pins.



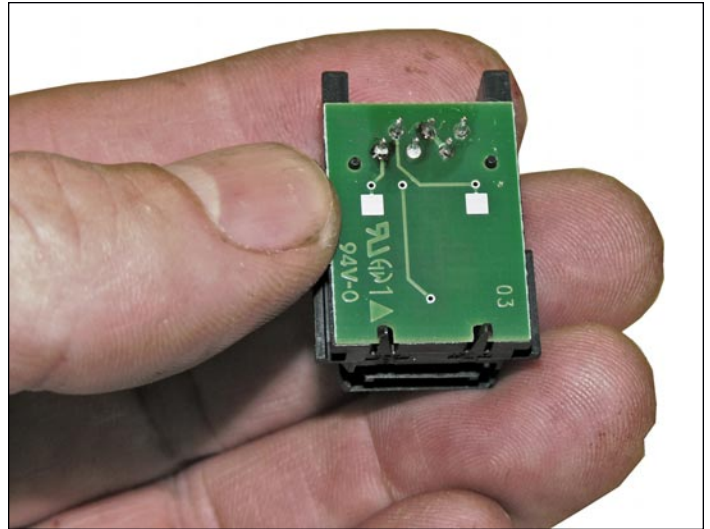
35. Install the spring onto the outside of the cartridge.



36. Replace the chip.

Use a thin screwdriver to separate the two halves as shown.

Replace the chip and re-install.



### CARTRIDGE DEFECT LISTING

We have found no strange defects related to these cartridges.

The following is a list of repetitive defects for the more common failures:

<b>94.4 mm:</b>	<b>OPC drum</b>
<b>94.2 mm:</b>	<b>Fuser assembly</b>
<b>52 mm:</b>	<b>Magnetic roller</b>
<b>51 mm:</b>	<b>Transfer roller</b>
<b>38 mm:</b>	<b>PCR</b>

### RUNNING TEST PAGES

1. Press <Enter> to go into the menu mode.
2. Press the Down Arrow button until Information Menu is highlighted.
3. Press <Enter>.
4. Press the Down Arrow button until Print Menu Map is highlighted.
5. Press <Enter> twice.
6. The Menu Map prints.

To run other pages, go to the configuration menu and follow the same basic steps as above.  
Pages available are the Page Count, Supplies Life, Network, and System Info.

### MACHINE ERROR CODES

The error codes in these machines follow the trend of using all English messages (no numeric codes).  
There is no need to list them here.