

# LEXMARK™ X340 • 342

## CARTRIDGE REMANUFACTURING INSTRUCTIONS



TONER CARTRIDGE



DRUM CARTRIDGE

# REMANUFACTURING THE LEXMARK X340/342N TONER & DRUM CARTRIDGE

By Mike Josiah and the Technical Staff at UniNet

Introduced in 2007, the Lexmark X340/342 multifunction printers are based on a Lexmark 27-30 ppm / 1200 dpi engine. This series of machines, as per Lexmark, has a new design that sets it apart from the competition. The “silent mode” optimizes set up to offer a series of printers a much lower sound level (from 53 dBA down to 49 dBA during printing). The machines also offer a new type of print head. Such a unit is said to possess smaller moving parts and increased reliability. As with most printers in the market today, this unit possesses a fusing system that from standby to printing, only takes 10 seconds to output the first page.

As with prior models, Lexmark divided the planet in regions and as a consequence, coded chips might be needed for each region. It is perhaps too early to say with certainty but it is possible that chips could be different for each region and there could be frequent firmware updating.

There are two cartridges used for this engine: a toner and drum unit. These machines also have standard and return program (prebate) cartridges. The drum unit is rated for 30,000 pages and the toner cartridges rated respectively for 3,000 and 6,000 pages at 5% (measured with method ISO/IEC1975). All have chips to shut them down.

**It should be noted that the OEM high yield toner cartridge only works in the X342 and not in the X340 as follows:**

<b>X340A11G</b>	<b>Standard returns toner cartridge (X340/X342n)</b>	<b>2,500 pages</b>
<b>X340H11G</b>	<b>High yield return toner cartridge (only for X342n)</b>	<b>6,000 pages</b>
<b>X340H22G</b>	<b>Photoconductor Kit</b>	<b>30,000 pages</b>
<b>X340A21G</b>	<b>Standard toner cartridge (X340/X342n)</b>	<b>2,500 pages</b>
<b>X340H21G</b>	<b>High yield toner cartridge (only for X342n)</b>	<b>6,000 pages</b>



## TONER CARTRIDGE

Toner cartridge shown with the felt style cover.



A sample of leakage found on just about every cartridge tested so far. None of the leakage showed on prints past the first or second pages, but it did show.

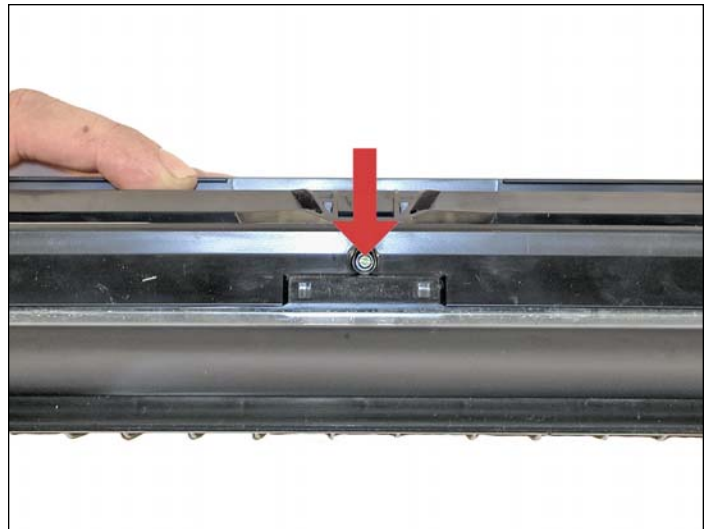
**TONER CARTRIDGE INSTRUCTIONS**

**SUPPLIES REQUIRED**

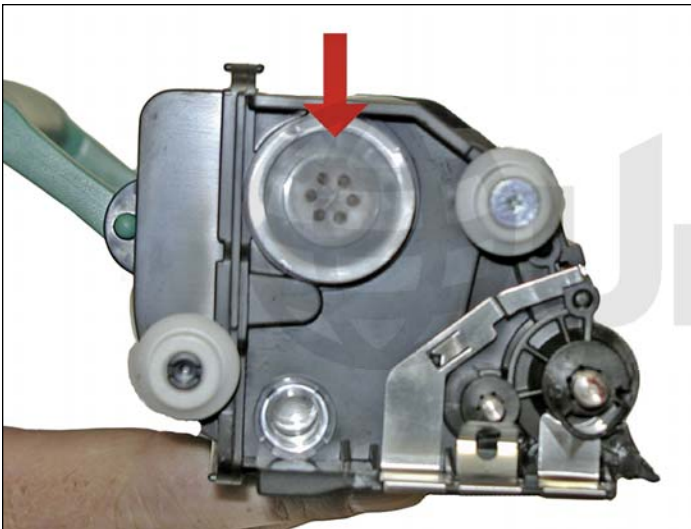
1. Toner for use in Lexmark X340 (75g standard yield)
2. Toner for use in Lexmark X340 (185g high yield)
3. Small bottle of acetone
4. Toner magnet cloths
5. Lint-free synthetic cotton 4"x 4" pads
6. 99% pure isopropyl alcohol
7. Cotton swabs

**TOOLS REQUIRED**

1. Phillips head screwdriver
2. Small common screwdriver
3. Vacuum approved for toner
4. Needle nose pliers



1. Remove the developer roller screw and cover.



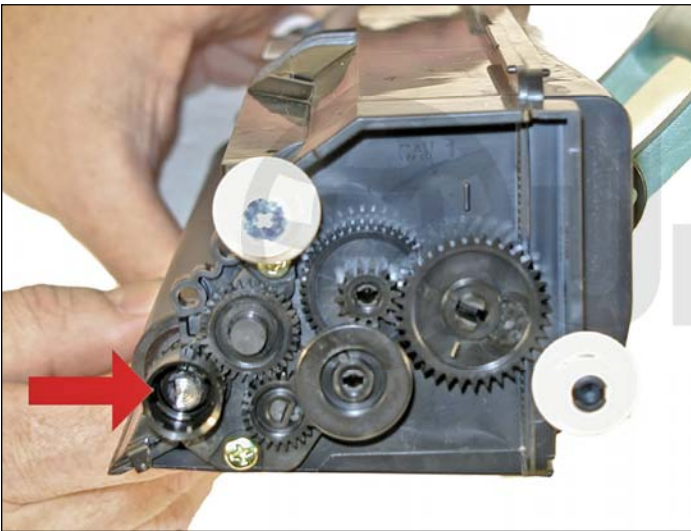
2. Remove the fill plug, and dump out any remaining toner.



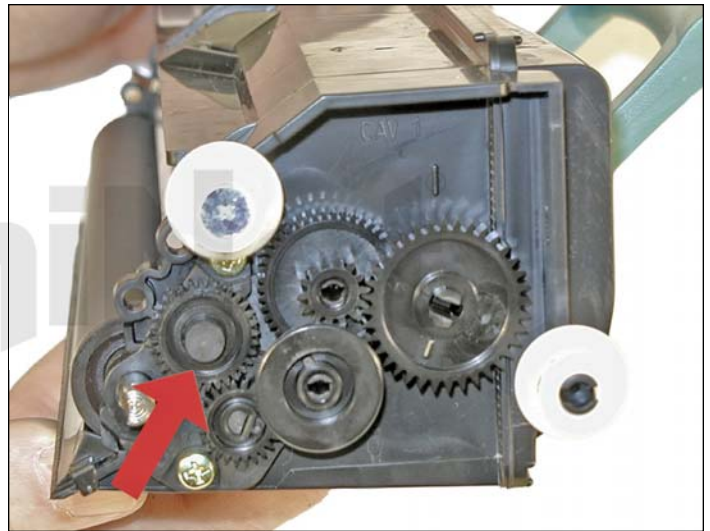
3. Remove the leaf spring.

The doctor blade is a new type and will come loose.

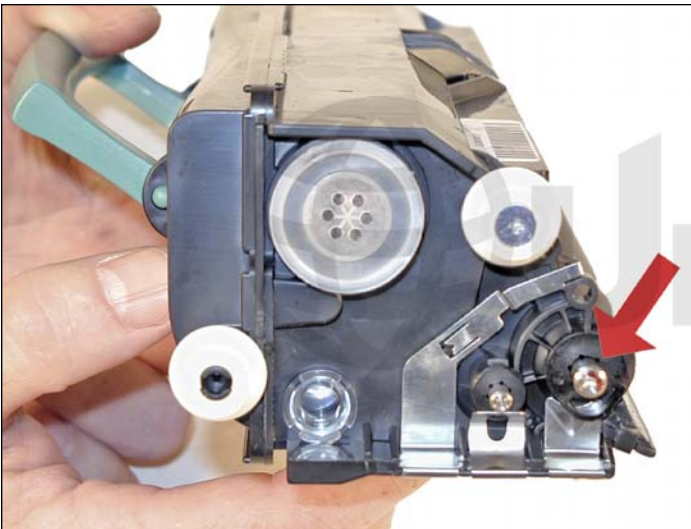
Place the blade aside.



4. On the gear side of the cartridge, remove the developer roller drive gear. This gear is on tight, and you may need a small screwdriver to pry it off.

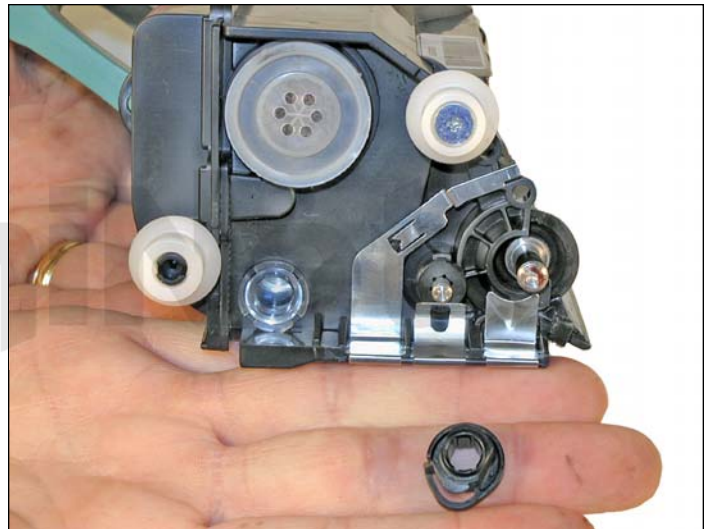


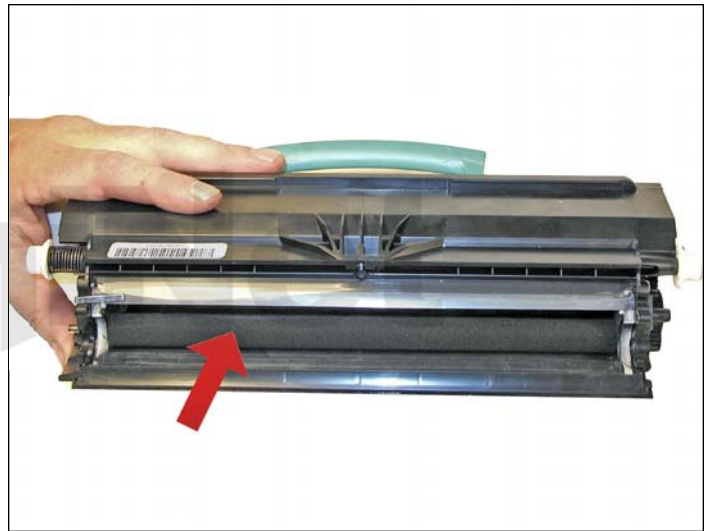
5. Remove the idler gear.



6. On the non-gear side, spin the developer roller bushing so that it comes free.

Remove the bushing.

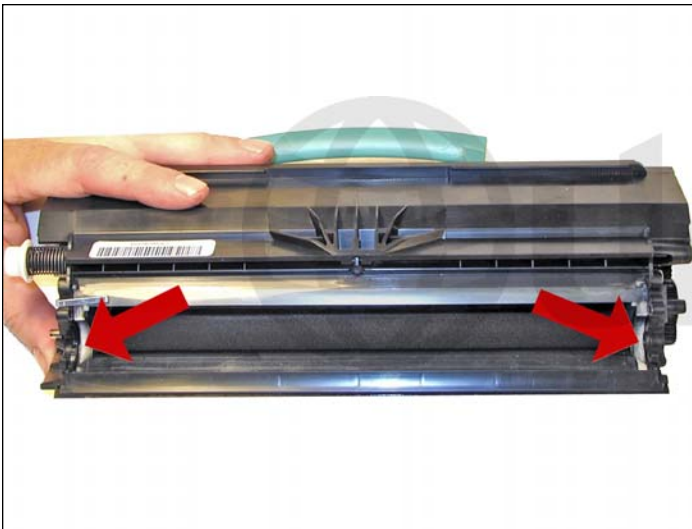




7. Remove the developer roller.

Clean the toner feed roller with compressed air if available.

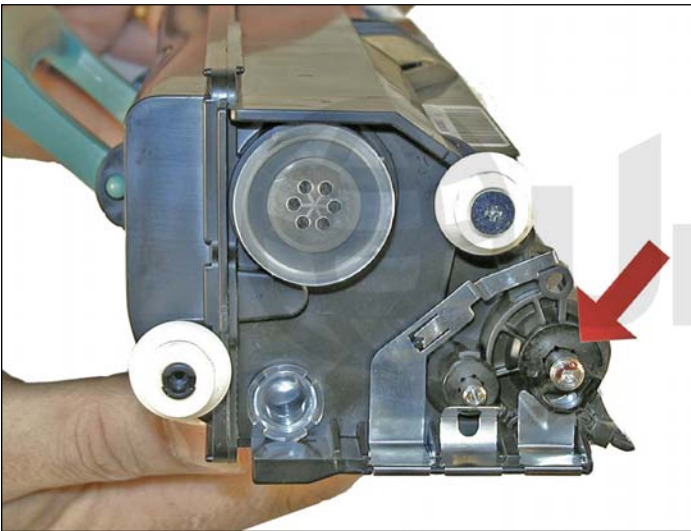
Clean the doctor blade with a cotton swab and 99% isopropyl alcohol.



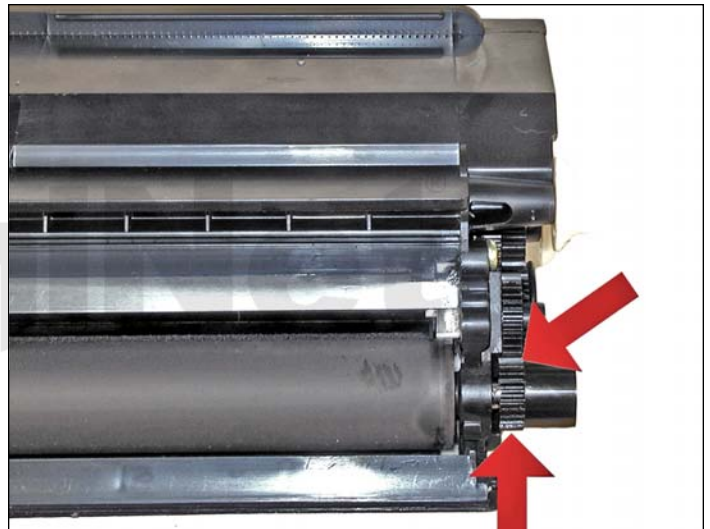
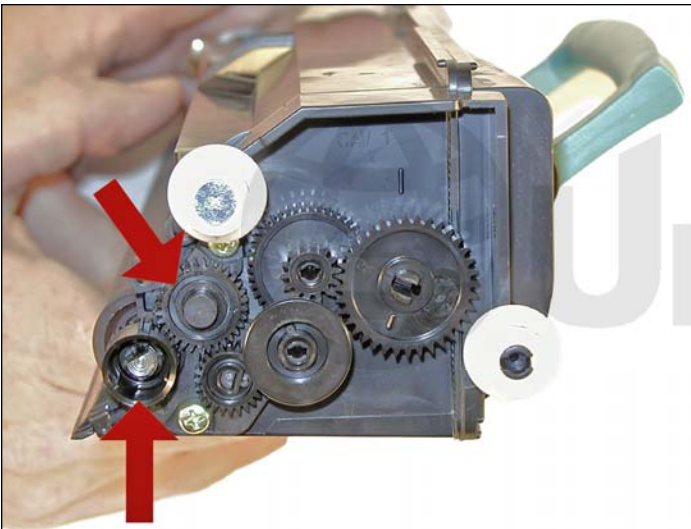
8. Clean the white developer roller seals with a cotton swab.



9. Wipe the developer roller with a clean lint-free cloth and reinstall the developer roller. At this point we do not recommend that any chemicals be used to clean this roller. Install the keyed end of the roller to the gear side.



10. On the non-gear side, install the developer roller bushing and spin it so it locks in place.



11. Install the idler gear and the developer roller drive gear.

Make sure the developer roller drive gear meshes properly with the idler gear and that it is fully seated.



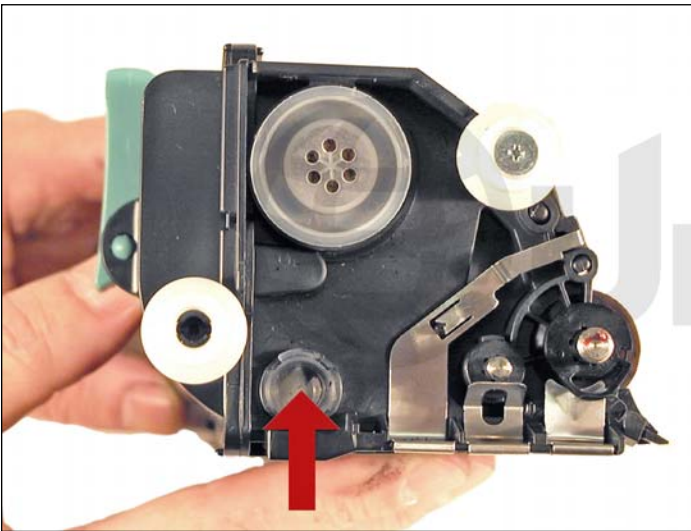
12. Install the doctor blade making sure it is positioned correctly and install the leaf spring.



13. Re-install the developer roller cover and screw.



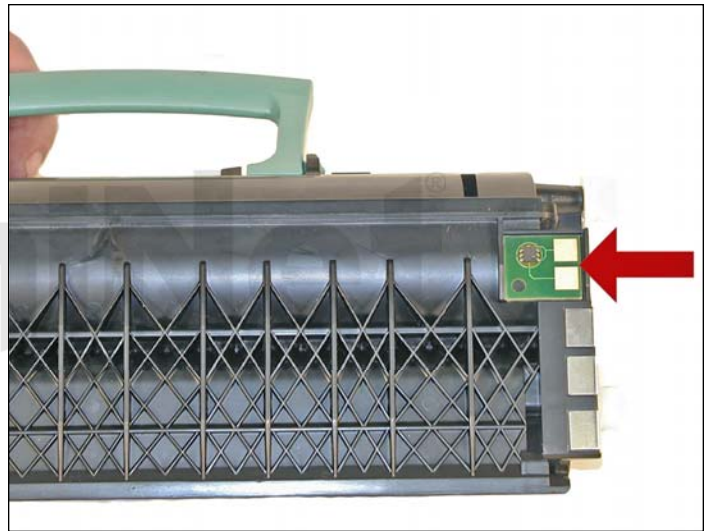
14. Fill the cartridge with the proper amount of toner and install the fill plug.



15. There is a small clear window located under the fill plug.

Make sure this window is clean.

It is used to determine toner low.



16. Replace the chip.



17. If the felt cover is available, wrap the cartridge as indicated. This cover helps protect the developer roller from damage.



**PRINTING TEST PAGE OR DEMO**

1. Press the Menu Key.
2. Information appears on the screen.
3. Press the “V” Key to confirm.
4. Press the down arrow key until you arrive at the Page Demo.
5. Press the “V” Key to confirm printing.

**CLEANING THE PRINTHEAD GLASS**

1. Open the front cover and remove the toner and drum cartridges.
2. Locate the glass printhead lens in a recess above the cartridge bay.
3. Wipe the glass down with a lint free dry cloth. Do NOT use any type of chemicals on the glass.
4. Re-install the cartridges and close the cover.

**REPETITIVE DEFECT CHART**

<b>PCR</b>	<b>38.2 mm</b>
<b>Developer roller</b>	<b>47.8 mm</b>
<b>Transfer roller</b>	<b>51.7 mm</b>
<b>Upper fuser belt</b>	<b>79.8 mm</b>
<b>Lower fuser roller</b>	<b>95.5 mm</b>
<b>OPC drum</b>	<b>96.7 mm</b>

**DRUM UNIT INSTRUCTIONS****SUPPLIES REQUIRED**

1. New replacement drum
2. New wiper blade
3. Cotton swabs
4. Isopropyl alcohol
5. Drum padding powder

**TOOLS REQUIRED**

1. Phillips head screwdriver
2. Small common screwdriver
3. Vacuum approved for toner
4. Needle nose pliers



1. Remove the E-ring from the small gear side of the drum axle shaft.



2. Remove the drum axle from the large gear side of the drum. If you try to pull it out from the small gear side, the shaft will jam up on the drum ground contact and damage the contact.



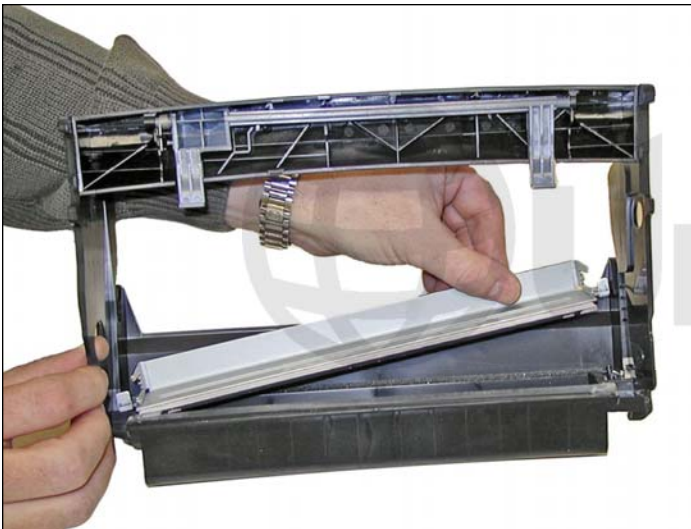
3. Carefully remove the drum.



4. Carefully lift out the PCR. The PCR holders will most likely come out with the PCR. This is OK. It makes it easier to re-install it later. Be very careful not to touch the roller with your skin. As with any PCRs, the oils naturally present in your skin will be absorbed by the roller and cause printing problems (extra marks on the page).



5. Remove the two screws from the wiper blade.



6. Remove the wiper blade and clean out any waste toner.



7. Install a new wiper blade coated with your preferred lubricant and two screws.

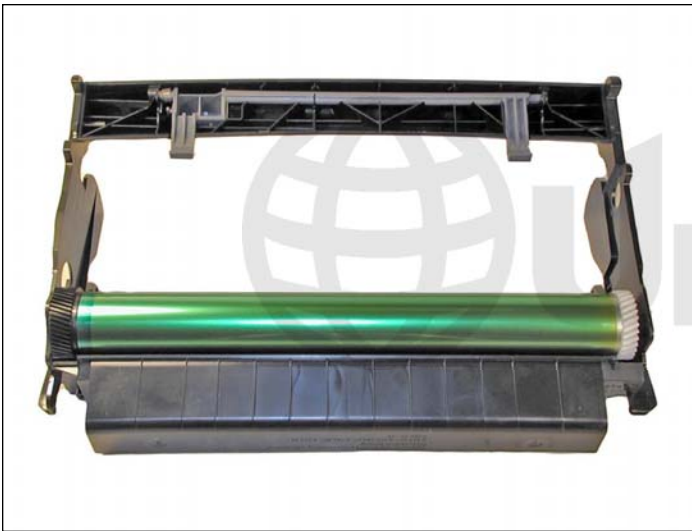


8. Clean the PCR holders with 99%pure isopropyl alcohol.

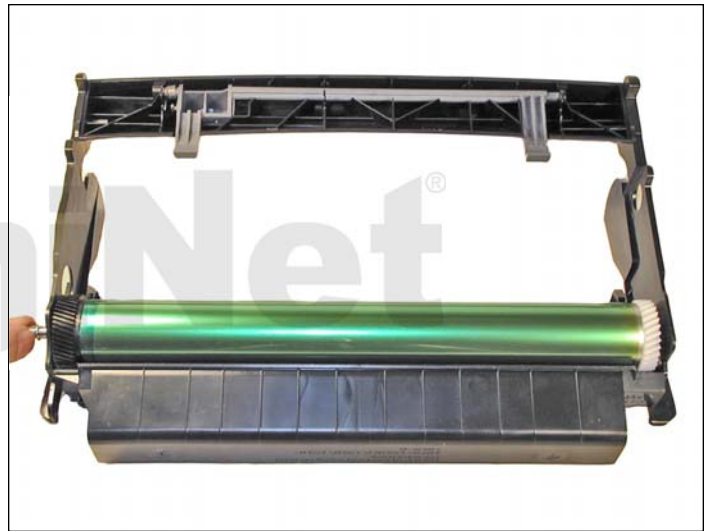
Snap on to the ends of the PCR.



9. Install the PCR and holders.



10. With the waste chamber facing you, install the drum so that the large gear is on the left side, spring on the small gear facing down.



11. Install the drum axle from the large gear side.



12. Install the E-ring on to the axle.



13. Just to make sure that everything is meshing properly and lubricated properly, rotate the drum by the large gear in the proper direction. This is always a good idea for drum units as a final check before installing the cartridge in your test machine.

#### CHANGING THE OPC UNIT

While changing the OPC unit you should reset the machine counters. Do so as follows:

1. Reset the X340/342 installing new module OPC
2. Open the front cover
3. Place the entire unit
4. Push the red Stop button for at least three seconds
5. The panel will indicate: Restoring PC Counter
6. Close the front cover. The printer is reset for 30,000 additional pages.