

# LEXMARK™ E260/360/460/X264/363/364 TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



LEXMARK E260/360/460/X264/363/364 TONER CARTRIDGE

# REMANUFACTURING THE LEXMARK E260/360/460/X264/363/364 TONER CARTRIDGES

By Mike Josiah and the Technical Staff at UniNet

The Lexmark E260/360/460 were introduced in December of 2008. They are replacing the E250/350/450 series of machines. These cartridges are not backwards compatible with the E250/450 series. The cartridges and chips are all new.

The new machines are based on a Lexmark 35 or 40ppm (depending on the printer), 1200 DPI engine. With a street price of around \$199.00 USD (August 2010) for the E260, these machines continue to be very popular. It should be noted that the new cartridges have chips with new code. New E260/360/460 chips while not available as of August 2010 should be available soon. The X264/363/364 chips are available now. There are also different chips used for different regions of the world.

As with most of the "E" series through the years, there are two cartridges used for this engine, a toner and drum unit. These machines also have standard and "Return" program (Prebate) cartridges and all have chips that shut them down. The "Return" chips must be replaced each cycle. It should also be noted that the OEM high yield cartridges only work in the E360 and E460 series, not the E260 series. Also the Extra high yield cartridges are only used in the E460 series. There is also a special 18,000 page EHY cartridge for use in the E462 Only. A listing of the cartridges available as well as US pricing follows. As simple as these cartridges are, there is plenty of room for a nice profit.

There are also a series of Multifunction machines based on this engine: the X264, X363 and X364. These machines also have their own cartridges. The main difference is that the chip is different.

## CARTRIDGES FOR USE IN THE E260/360/460 - USA & CANADA

Part#	Type	Yield	List Price
<b>E260A11A</b>	<b>Standard Return cartridge</b>	<b>3,500</b>	<b>USD\$133.41*</b>
<b>E260A21A</b>	<b>Standard cartridge</b>	<b>3,500</b>	<b>USD\$172.50*</b>
<b>E360H11A</b>	<b>High Yield Return E360/460 Only</b>	<b>9,000</b>	<b>USD\$258.50*</b>
<b>E360H21A</b>	<b>High Yield Standard E360/460 Only</b>	<b>9,000</b>	<b>USD\$297.50*</b>
<b>E460X11A</b>	<b>Extra High Yield Return cartridge E460 Only</b>	<b>15,000</b>	<b>USD\$335.50*</b>
<b>E462U11A</b>	<b>Extra High Yield Return cartridge E462 Only</b>	<b>18,000</b>	<b>USD\$372.00*</b>
<b>E260X22G</b>	<b>OPC Drum cartridge (All)</b>	<b>30,000</b>	<b>USD\$37.50*</b>

## CARTRIDGES FOR USE IN THE X264/X363/X264 - USA & CANADA

Part#	Type	Yield	List Price
<b>X264A11G</b>	<b>Standard Return cartridge</b>	<b>3,500</b>	<b>USD\$134.00*</b>
<b>X264H11G</b>	<b>High Yield Return cartridge</b>	<b>9,000</b>	<b>USD\$258.00*</b>

\*Pricing in U.S. American Dollars, current from August 2010.

**CARTRIDGES FOR USE IN THE E260/360/460 - EUROPE & THE MIDDLE EAST**

Part#	Type	Yield
0E260A11E	Standard Return cartridge	3,500
0E260A21E	Standard cartridge	3,500
0E360H11E	High Yield Return E360/460 Only	9,000
0E360H21E	High Yield Standard E360/460 Only	9,000
0E460X11E	Extra High Yield Return cartridge E460 Only	15,000
0E460X21E	Extra High Yield Standard cartridge E460 Only	15,000
0E462U11E	Extra High Yield Return cartridge E462 Only	18,000
0E260X22G	OPC Drum cartridge (All)	30,000

**CARTRIDGES FOR USE IN THE X264/X363/X264 - EUROPE & THE MIDDLE EAST**

Part#	Type	Yield
X264A11E	Standard Return cartridge	3,500
X264H11E	High Yield Return cartridge	9,000

**CARTRIDGES FOR USE IN THE E260/360/460 - ASIA PACIFIC REGION**

Part#	Type	Yield
E260A11P	Standard Return cartridge	3,500
E260A21P	Standard cartridge	3,500
E360H11P	High Yield Return E360/460 Only	9,000
E360H21P	High Yield Standard E360/460 Only	9,000
E460X11P	Extra High Yield Return cartridge E460 Only	15,000
E460X21P	Extra High Yield Standard Cartridge E460 Only	15,000
E462U11P	Extra High Yield Return cartridge E462 Only	18,000
E260X22G	OPC Drum cartridge (All)	30,000

**CARTRIDGES FOR USE IN THE X264/X363/X264 - ASIA PACIFIC REGION**

Part#	Type	Yield
X264A11P	Standard Return cartridge	3,500
X264H11P	High Yield Return cartridge	9,000

**CARTRIDGES FOR USE IN THE E260/360/460 - LATIN AMERICA**

Part#	Type	Yield
<b>E260A11L</b>	<b>Standard Return cartridge</b>	<b>3,500</b>
<b>E260A21L</b>	<b>Standard cartridge</b>	<b>3,500</b>
<b>E360H11L</b>	<b>High Yield Return E360/460 Only</b>	<b>9,000</b>
<b>E360H21L</b>	<b>High Yield Standard E360/460 Only</b>	<b>9,000</b>
<b>E460X11L</b>	<b>Extra High Yield Return cartridge E460 Only</b>	<b>15,000</b>
<b>E460X21L</b>	<b>Extra High Yield Standard Cartridge E460 Only</b>	<b>15,000</b>
<b>E462U11L</b>	<b>Extra High Yield Return cartridge E462 Only</b>	<b>18,000</b>
<b>E260X22G</b>	<b>OPC Drum cartridge (All)</b>	<b>30,000</b>

**CARTRIDGES FOR USE IN THE X264/X363/X264 - LATIN AMERICA**

Part#	Type	Yield
<b>X264A11L</b>	<b>Standard Return cartridge</b>	<b>3,500</b>
<b>X264H11L</b>	<b>High Yield Return cartridge</b>	<b>9,000</b>

The same drum cartridge (X260X22G) as noted above is used worldwide in both the printers and multifunction machines.

**MACHINES BASED ON THIS ENGINE**

**Lexmark E260d**  
**Lexmark E260dn**  
**Lexmark E360d**  
**Lexmark E362dn**  
**Lexmark E460dn**  
**Lexmark E460dw**  
**Lexmark E462**  
**Lexmark X264**  
**Lexmark X363**  
**Lexmark X264**

How to take test prints as well as cartridge troubleshooting are covered at the end of the article.

**TOOLS REQUIRED**

1. Toner approved vacuum
2. A small common screwdriver
3. A Phillips head screwdriver
4. Needle nose pliers

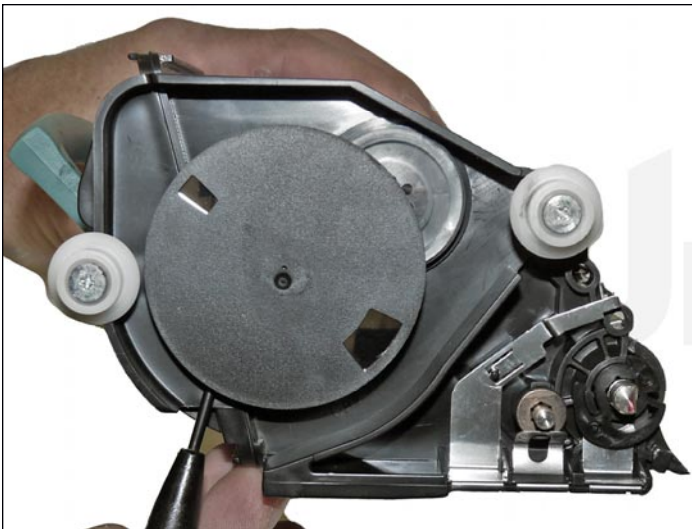
**SUPPLIES REQUIRED**

1. New toner for use in Lexmark E260/360/460/X264/363/364
2. Toner Magnet cloths
3. Lint-free synthetic cotton 4"x 4" pads
4. 99% pure Isopropyl Alcohol
5. Cotton Swabs



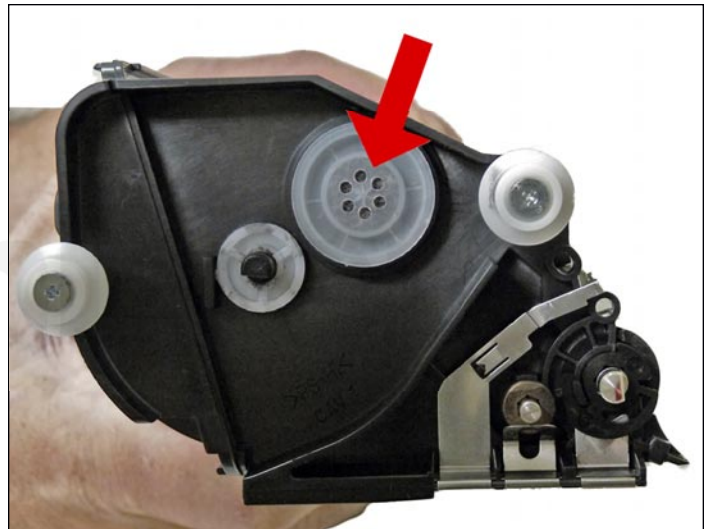
1. Remove the developer roller screw and cover. Remove the screw and bend the cover out from the middle.

There are two pins on each side that will break if you just pull it off.



2. Remove the encoder wheel.

Pry it off from the backside.



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

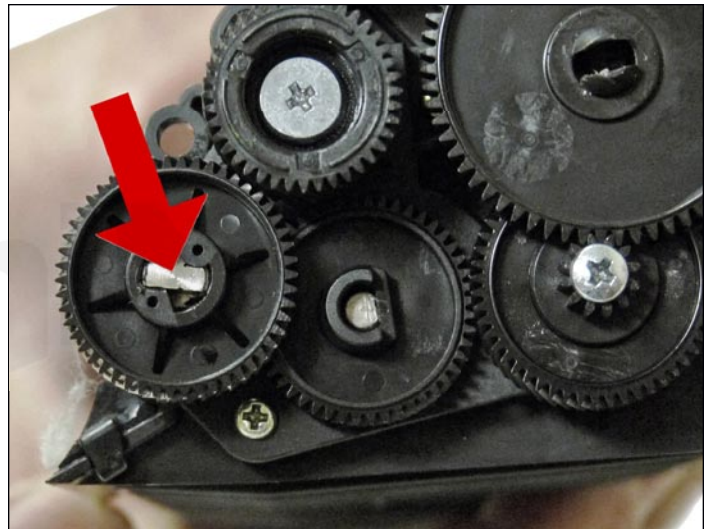
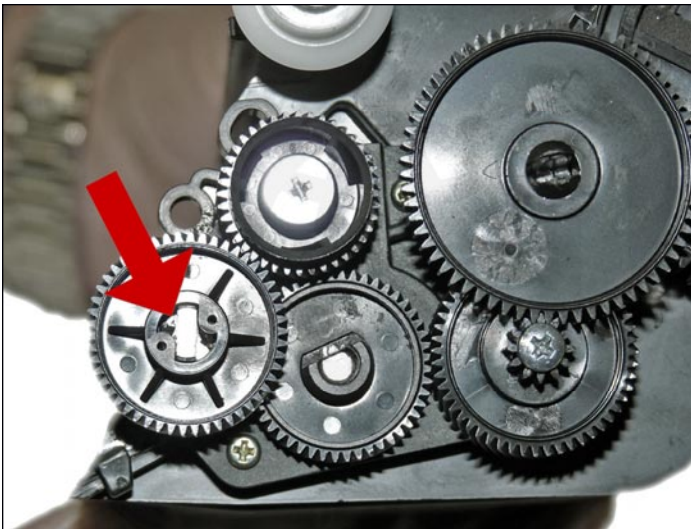




4. Remove the leaf spring.

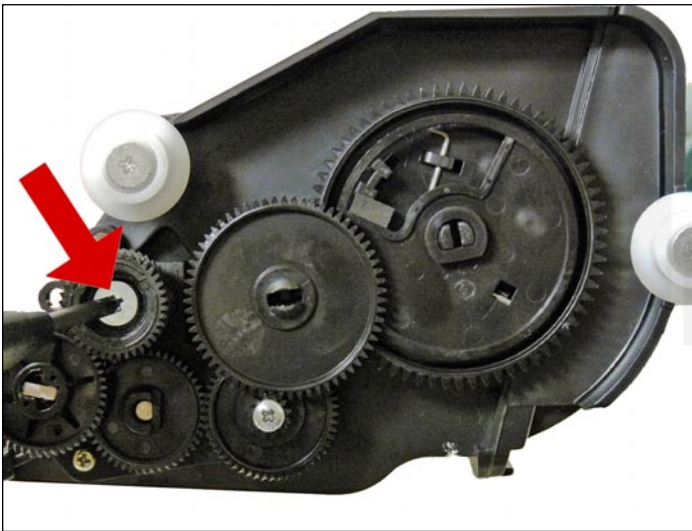
The doctor blade will come loose.

Place the blade aside.

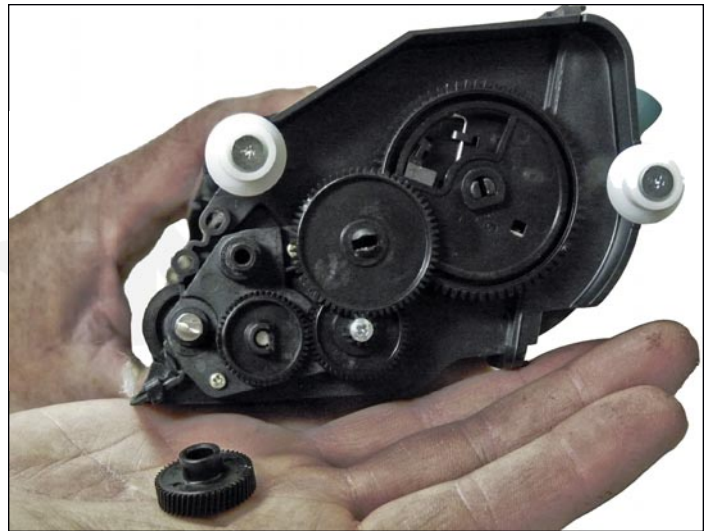


5. On the gear side of the cartridge, remove the developer roller drive gear. This gear locked on the shaft.

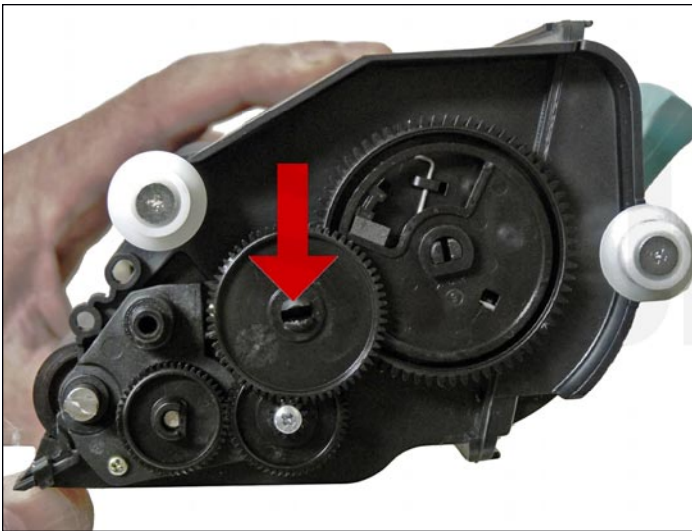
While holding the roller, turn the gear to the right to release the lock. The gear does not come off yet.



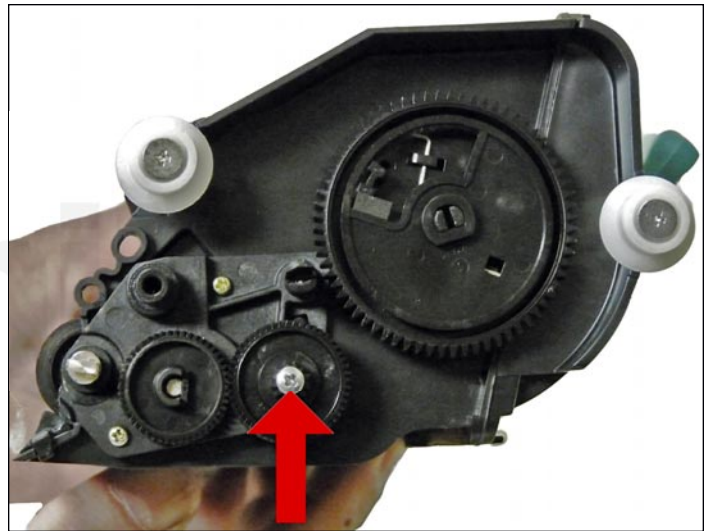
6. Remove the screw and the top idler gear.



7. Remove the developer roller drive gear.

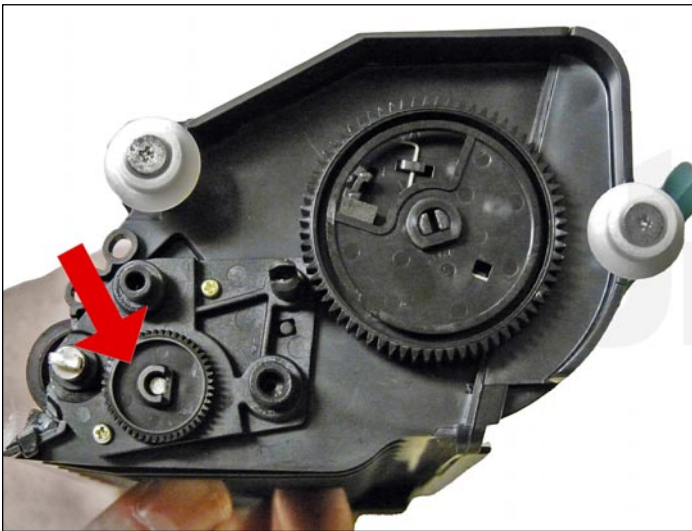


8. Remove the large idler gear by pressing in the two clips in the center of the gear.



9. Remove the screw and lower idler gear.

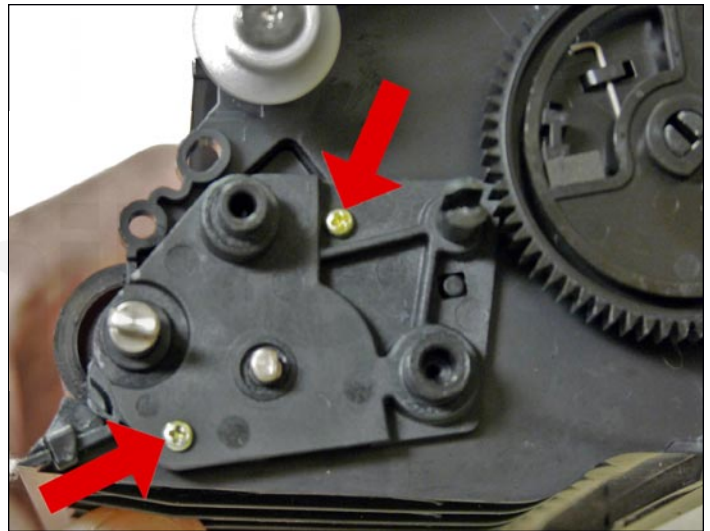




10. Remove the feed roller gear.

This has a tight fit.

Pry off carefully.

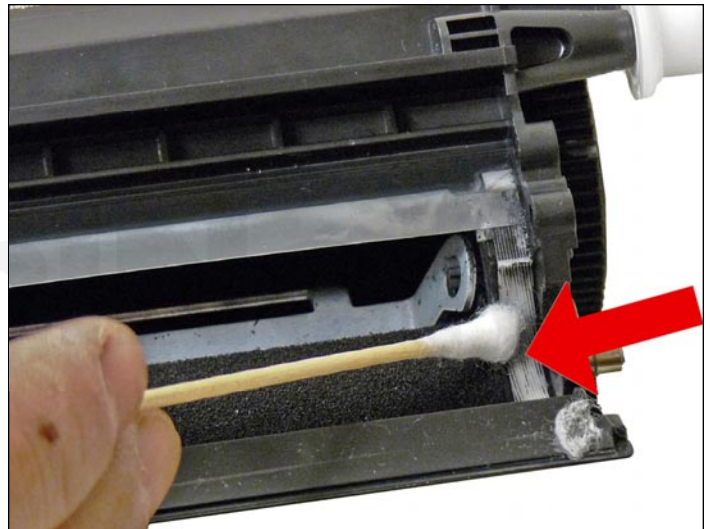


11. Remove the two screws and the gear plate.



12. Remove the developer roller.

Clean the toner feed roller with compressed air.



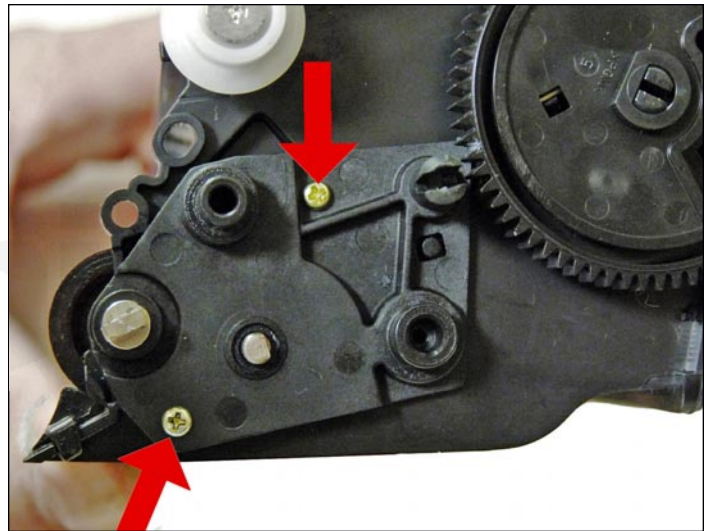
13. Clean the white developer roller seals with a cotton swab.



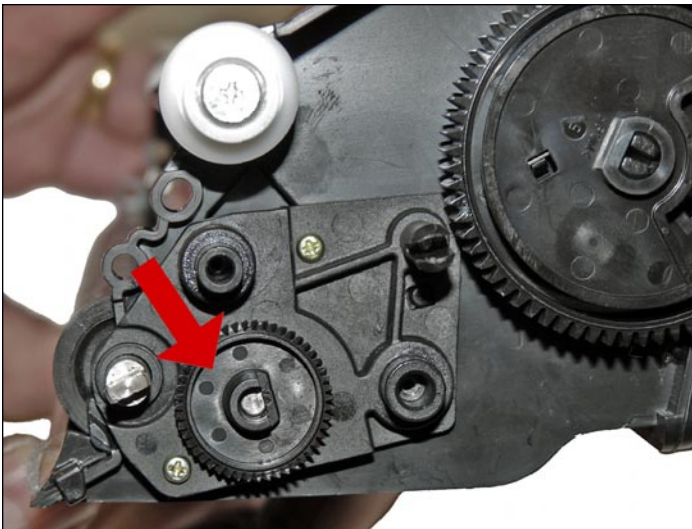


14. Wipe the developer roller with a clean lint free cloth and re-install the developer roller. At this point we do not recommend that any chemicals be used to clean this roller.

Install the keyed end of the roller to the gear side.

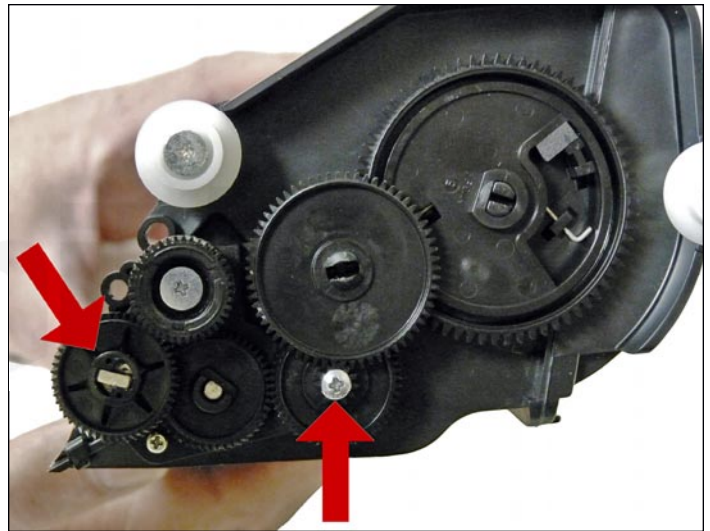
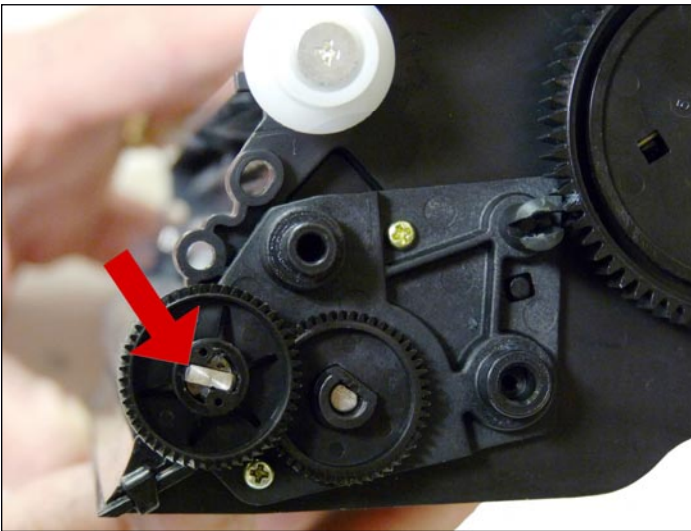


15. Install the gear plate and two screws.

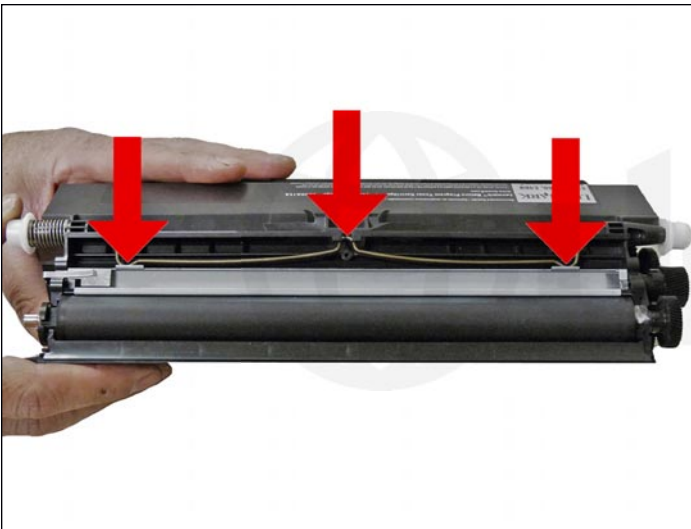


16. Install the feed roller gear.

This gear has a tight fit, so make sure it is fully seated.



17. Install the developer roller gear (lock it in place), top idler gear with screw, the bottom Idler gear with screw, and the large idler gear (snaps in place).



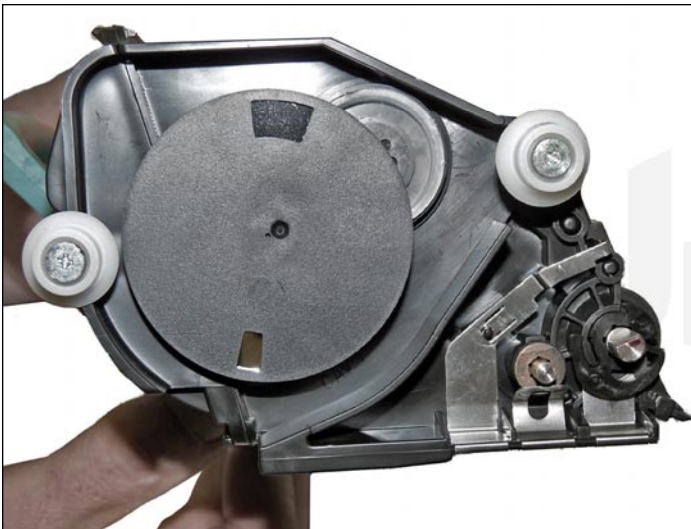
18. Install the doctor blade making sure it is positioned correctly and install the leaf spring.



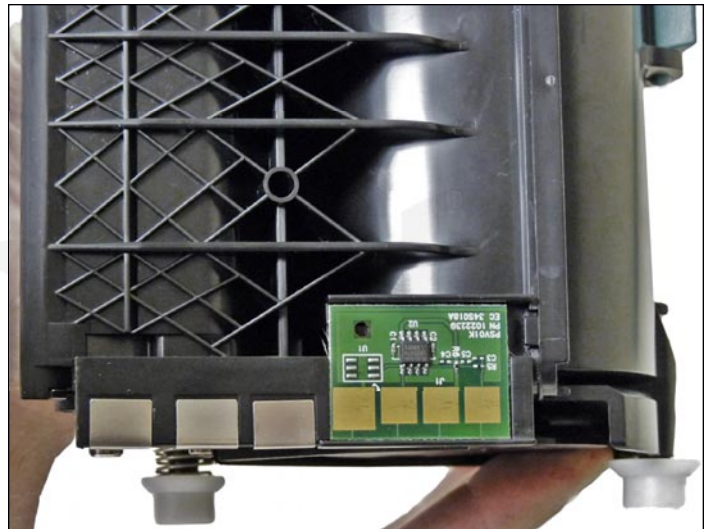
19. Re-install the developer roller cover and screw.



20. Fill the cartridge with the proper amount of toner for the Lexmark E260/360/460/X264/363/364 and install the fill plug.



21. Install the encoder wheel.



22. Replace the chip.

**NOTE:** It's possible to install the chip backwards. To ensure proper operation, please make sure to install the chip per the picture.





23. If the felt cover is available, wrap the cartridge as shown.

This cover helps protect the developer roller from damage.

Aftermarket covers are in development.

#### PRINTING TEST PAGES FOR E360/E460/X363/X364

1. Press the “Key” button on the control panel
2. Press the “Down Arrow” until UTILITIES MENU appears on the display
3. Press the “Select” button
4. Press the “Down Arrow” until the PRINT MENUS, PRINT STATS, or PRINT FONTS appears on the display.

#### REPETITIVE DEFECT CHART

<b>38.8 mm:</b>	<b>PCR</b>
<b>48.3 mm:</b>	<b>Developer roller</b>
<b>52.4 mm:</b>	<b>Transfer roller</b>
<b>80.0 mm:</b>	<b>Upper fuser belt</b>
<b>98.3 mm:</b>	<b>OPC drum</b>

#### PRINTER ERROR CODES

Most error codes are in plain English so we will not repeat them here, but a few are numeric. There are quite a few of the “XX” numbers under each category. We have just listed the basics here.

<b>30.XX:</b>	<b>Cartridge errors</b> There is a mechanical issue with the cartridge or the chip is bad
<b>31.XX:</b>	<b>Defective cartridge errors</b> Either the cartridge is missing, the chip is bad/or missing or the chip reader in the printer is defective.
<b>200.XX:</b>	<b>Paper jam</b>
<b>920.XX:</b>	<b>Variable fuser error</b>
<b>921.XX:</b>	<b>Variable fuser error</b>
<b>922.XX:</b>	<b>Variable fuser error</b>