

# LEXMARK® E260 • 360 • 460

## TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



LEXMARK® E260 • 360 • 460 TONER CARTRIDGE

# REMANUFACTURING THE LEXMARK E260/360/460 TONER CARTRIDGES

By Mike Josiah

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 (December 2008) 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 should be available as you read this. There are also different chips used for different regions of the world. It is too soon to say for certain, but I think it is a safe guess that it is the chips that are different.

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. A listing of the available cartridges as well as US pricing follows. As simple as these cartridges are, there is plenty of room for a nice profit.

**NOTE:** These cartridges are not backwards compatible with the E250/450/series. The cartridges and chips are all new.

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

Part#	Type	Yield	List Price
E260A11A	Std. Return Cartridge	3,500	\$95.50*
E260A21A	Standard Cartridge	3,500	\$122.50*
E360H11A	HY Return E360/460 ONLY	9,000	\$175.50*
E360H21A	HY Standard E360/460 ONLY	9,000	\$202.50*
E460X11A	EHY Return Cartridge E460 ONLY	15,000	\$321.50*
E460X21A	EHY Standard Cartridge E460 ONLY	15,000	\$348.50*
E260X22G	OPC Drum Cartridge (All)	30,000	\$37.50*

\*Pricing, in US American dollars, from December 2008

## CARTRIDGES FOR USE IN THE E260/360/460 - EUROPE AND THE MIDDLE EAST

Part#	Type	Yield
0E260A11E	Std. Return Cartridge	3,500
0E260A21E	Standard Cartridge	3,500
0E360H11E	HY Return E360/460 ONLY	9,000
0E360H21E	HY Standard E360/460 ONLY	9,000
0E460X11E	EHY Return Cartridge E460 ONLY	15,000
0E460X21E	EHY Standard Cartridge E460 ONLY	15,000
0E260X22G	OPC Drum Cartridge (All)	30,000



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

Part#	Type	Yield
E260A11P	Std. Return Cartridge	3,500
E260A21P	Standard Cartridge	3,500
E360H11P	HY Return E360/460 ONLY	9,000
E360H21P	HY Standard E360/460 ONLY	9,000
E460X11P	EHY Return Cartridge E460 ONLY	15,000
E460X21P	EHY Standard Cartridge E460 ONLY	15,000
E260X22G	OPC Drum Cartridge (All)	30,000

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

Part#	Type	Yield
E260A11L	Std. Return cartridge	3,500
E260A21L	Standard cartridge	3,500
E360H11L	HY Return E360/460 ONLY	9,000
E360H21L	HY Standard E360/460 ONLY	9,000
E460X11L	EHY Return cartridge E460 ONLY	15,000
E460X21L	EHY Standard Cartridge E460 ONLY	15,000
E260X22G	OPC Drum cartridge (All)	30,000

The same drum cartridge as noted above is used worldwide.

**MACHINES BASED ON THIS ENGINE ARE THE:**

**Lexmark E260d**  
**Lexmark E260dn**  
**Lexmark E360d**  
**Lexmark E362dn**  
**Lexmark E460dn**  
**Lexmark E460dw**

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

**TOOLS NEEDED**

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

**SUPPLIES NEEDED**

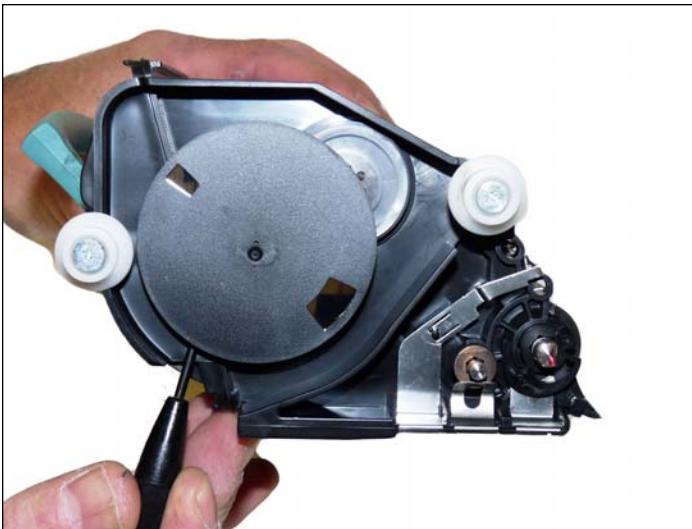
1. Lexmark E260/460 toner:
  - 120g for the low yield E260
  - 310g for the high yield E360
  - 514g for the extra high yield E460
  - (Preliminary weights testing is on-going)
2. Toner Magnet cloths
3. Lint-free synthetic cotton 4"x 4" pads
4. 99% pure Isopropyl Alcohol
5. Cotton Swabs



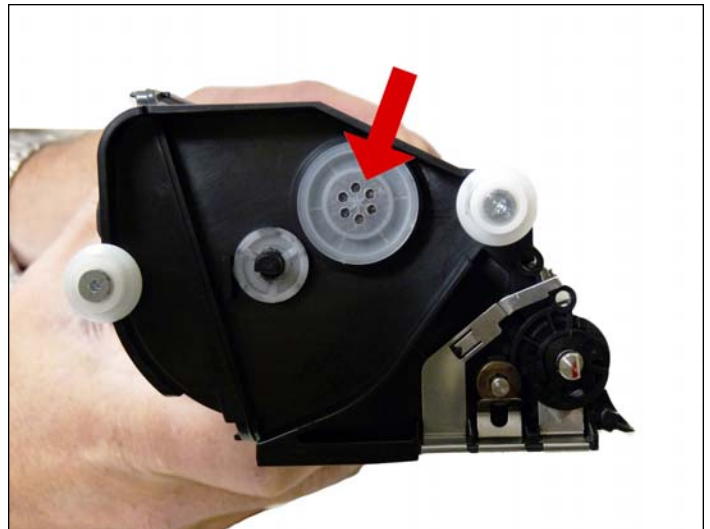


1. Remove the developer roller screw and cover. Remove the screw and bend the cover out from the middle.

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.

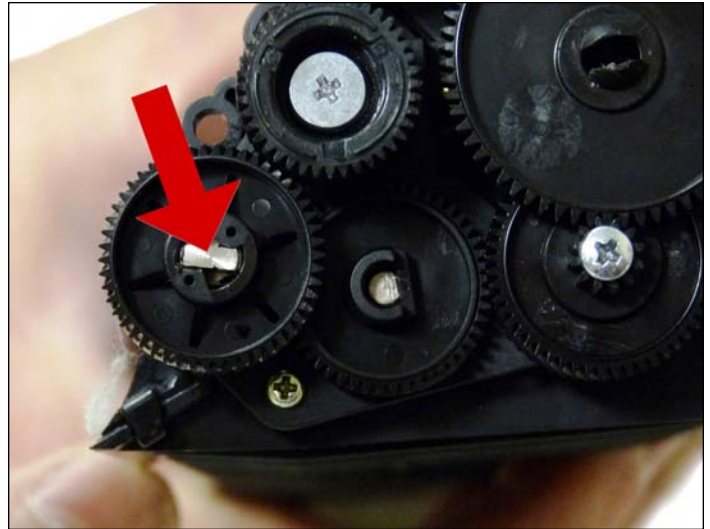
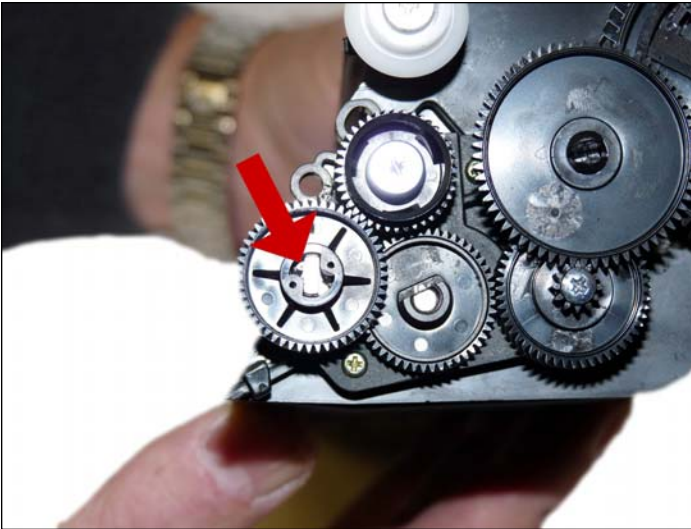


3. Remove the fill plug, and dump out any remaining toner.



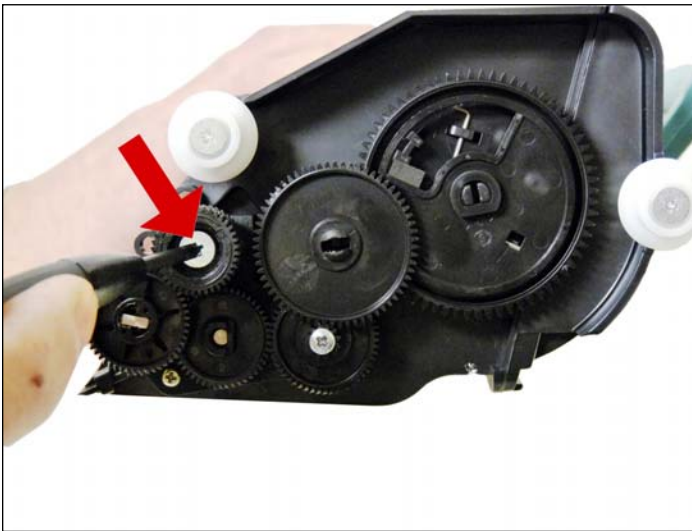
4. Remove the leaf spring.

The doctor blade will come loose. Place the blade aside.

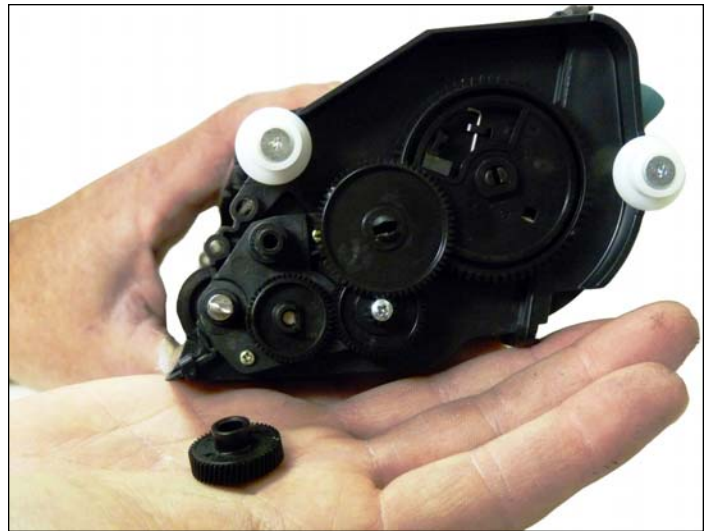


5. On the gear side of the cartridge, remove the developer roller drive gear. This gear locked on the shaft.

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.



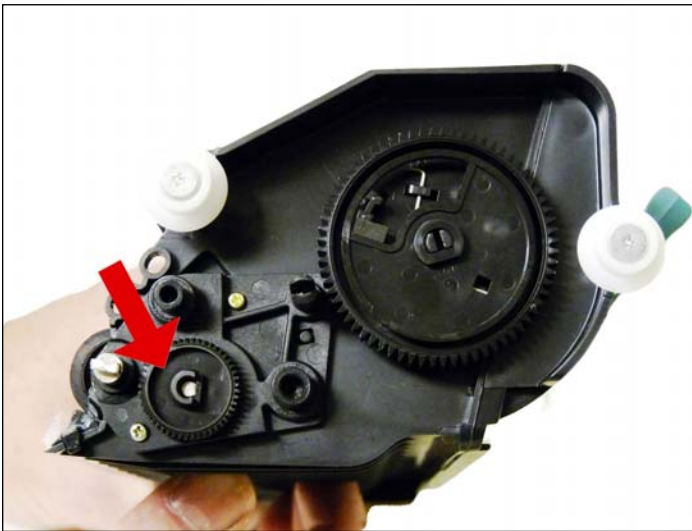
7. Remove the developer roller drive gear.



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

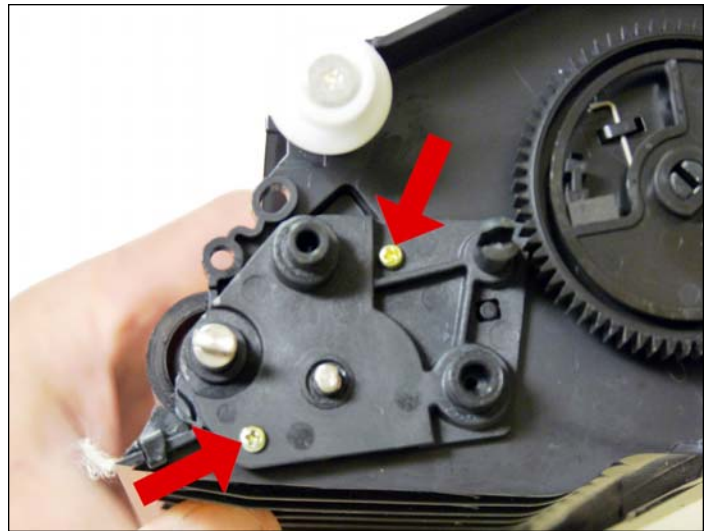


9. Remove the screw and lower idler gear.



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.

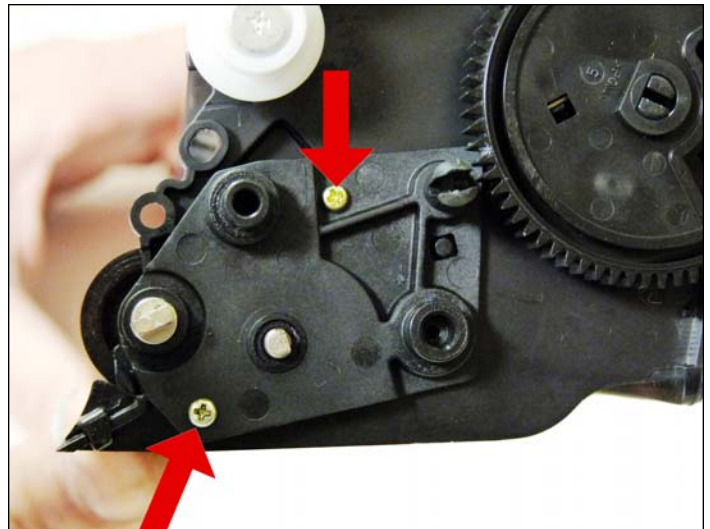
Clean the toner feed roller with compressed air.



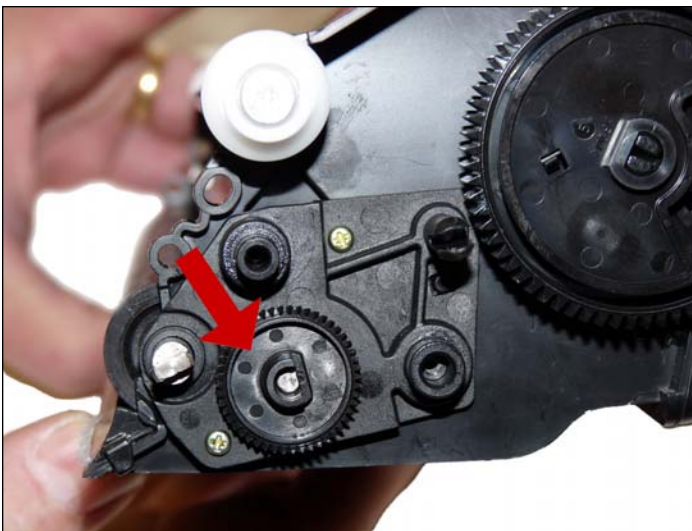
13. Clean the white developer roller seals with a cotton swab.



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.



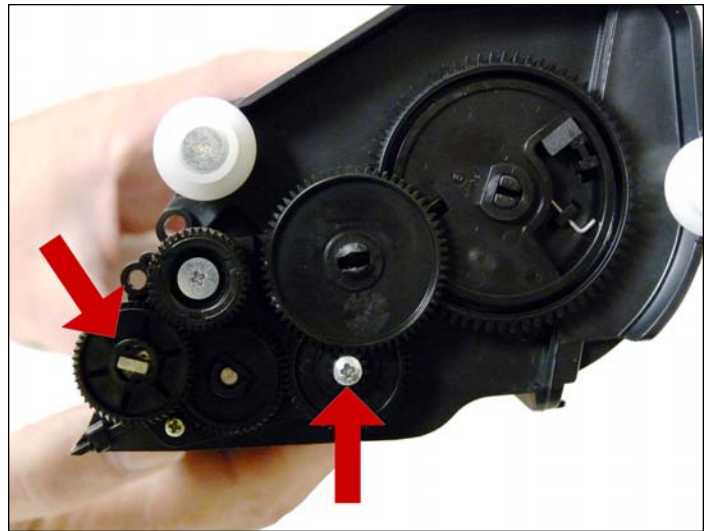
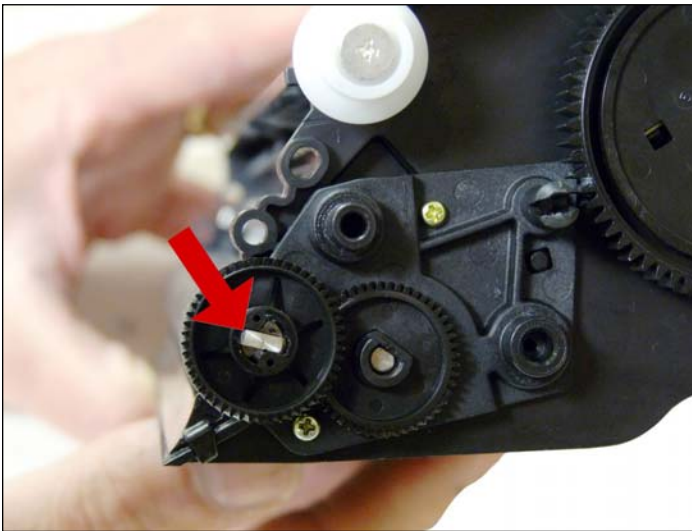
15. Install the gear plate and two screws.



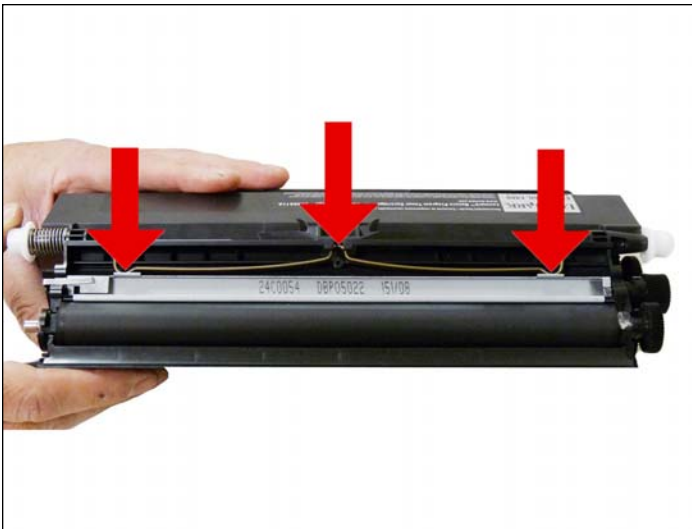
16. Install the feed roller gear.

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

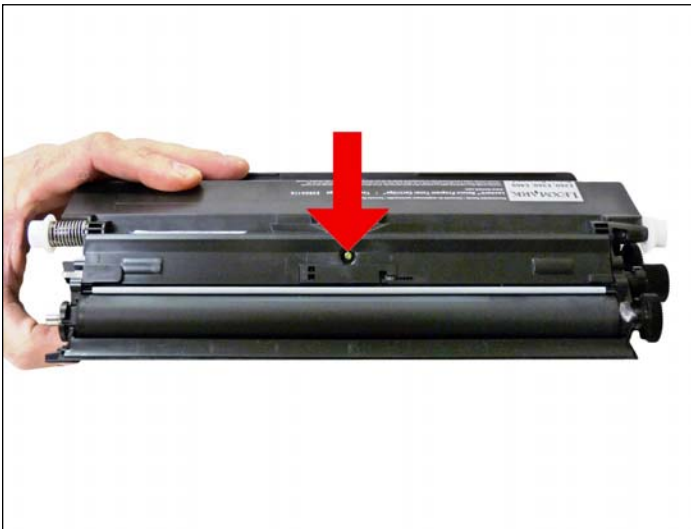




17. Install the developer roller gear (lock it in place), top idler gear and screw, the bottom Idler gear and screw, and the large idler gear (snaps in place).



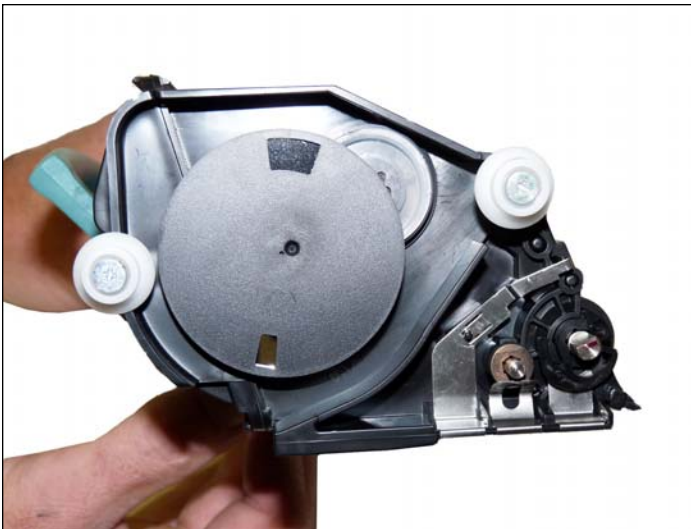
18. Install the doctor blade making sure it is positioned correctly and install the leaf spring.



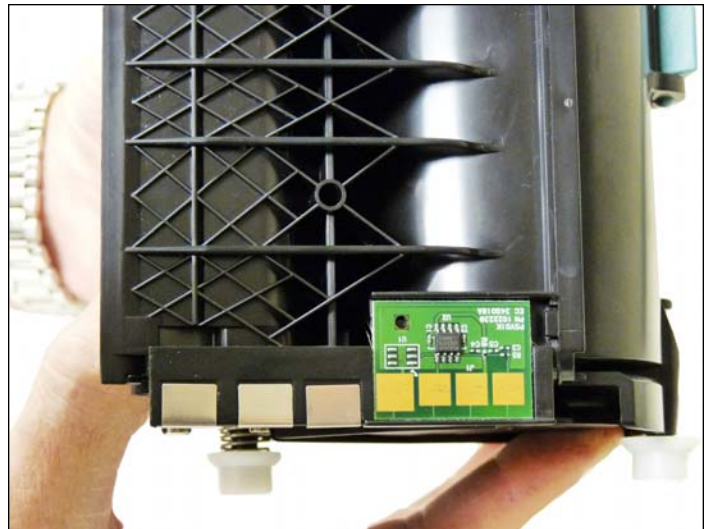
19. Re-install the developer roller cover and screw.



20. Fill the cartridge with the proper amount of E260 toner and install the fill plug.



21. Install the encoder wheel.



22. Replace the chip.



23. If the felt cover is available, wrap the cartridge as indicated. This cover helps protect the developer roller from damage. Aftermarket covers are in development.

#### PRINTING TEST PAGES E460 SERIES

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

38.8mm	PCR
48.3mm	Developer Roller
52.4mm	Transfer Roller
80.0mm	Upper fuser Belt
98.3mm	OPC Drum

#### 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.

#### 30.XX Cartridge Errors:

There is a mechanical issue with the cartridge or the chip is bad

#### 31.XX Defective Cartridge Errors:

Either the cartridge is missing, the chip is bad/or missing or the chip reader in the printer is defective.

#### 200.XX Paper Jam

#### 920.XX Fuser Error

#### 921.XX Fuser Error

#### 922.XX Fuser Error