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Remanufacturing the Lexmark X215 Toner Cartridge



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Remanufacturing the Lexmark X215 Toner Cartridge

0342

First released in March 2004, Lexmark X215 multi function machines are based on one of Samsung's newest engines. The X215 series runs at 17 ppm with a maximum resolution of 600 dpi.

Currently only the X215 is based on this engine. The feed rollers, transfer roller, and fuser assy. are all rated for 60,000 pages.

The X215 cartridge looks similar in style as the SCX-4216, but is different enough to warrant its own separate instruction. Like some of the other newer Samsung engines, this cartridge will not fit in a modified E210 machine. The drum, rollers, and blades are all unique to this cartridge.

If a cartridge is installed in a machine with a blown fuse and toner low has already reached, the message "Invalid cartridge" will appear on the display and the machine will not print. The fuse must be replaced each cycle.

These cartridges do not have a drum cover, and come new with a piece of heavy paper taped around the cartridge. (See Figure 1) The X215 also does not use a seal. All new cartridges opened so far have shown some toner leakage on the drum that would have shown on any prints.



Figure 1

The standard cartridge (Lexmark part# 18S0090) comes new with 90g toner, and is rated for 3,000 pages at 5% coverage.

SUPPLIES REQUIRED

Toner approved vacuum.
A small Common screw driver
A Phillips head screwdriver
Needle nose pliers

TOOLS REQUIRED

90g Toner
Fuse: 63mA, 250V, 5x20mm, fast-acting glass type
Conductive Grease
Drum lubricating powder

DISASSEMBLY

- 1) Place the cartridge with the handle facing up. Remove the 5 top cover screws. See Figure 2
- 2) Underneath the handle of the cartridge to the right and left, there are 2 plastic tabs GENTLY press them in, and lift that side of the cover up. See Figure 3
- 3) On the front edge of the cartridge, there are two more tabs. Press these two tabs in, and lift the cover off. See Figure 4

CAUTION: The upper half of the toner hopper is being removed. If there is a lot of toner left in the hopper, it can dump out all over! Vacuum the hopper clean.

- 4) With the toner hopper away from you, remove the three screws on the left side end cap. Remove the end cap. See Figure 5



Figure 2



Figure 3



Figure 4

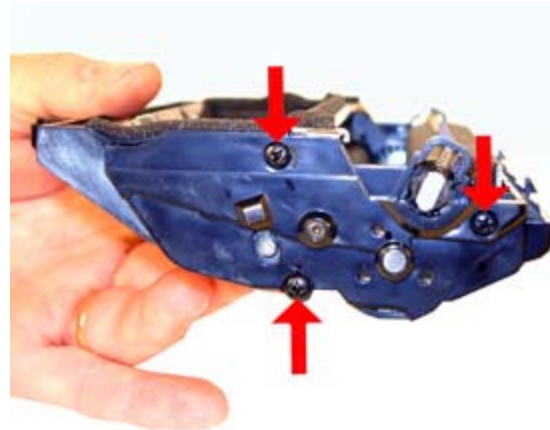


Figure 5

5) Remove the three screws on the right side end cap. Remove the end cap. See Figure 6

6) Also on the right side there is a series of gears under the end cap. Make a note of the location of each gear, and remove them. See Figures' 7 & 8

7) Remove the PCR. See Figure 9

8) Clean the PCR with your normal PCR cleaner.

WARNING: Do not clean the OEM PCR with alcohol, as this will remove the conductive coating from the roller. If the PCR is an aftermarket, follow the cleaning methods recommended by the manufacturer. If the PCR is an OEM, we recommend it be cleaned with your standard PCR cleaner.



Figure 6



Figure 7



Figure 8

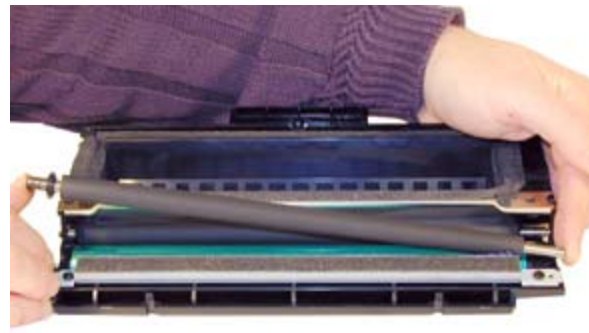


Figure 9

9) There are 2 screws on the PCR cleaner Assy. Remove them and gently pry the blade up. Note that there are not any alignment tabs or posts to worry about. This PCR cleaner also has what can be considered a wiper blade. It is a very flimsy blade attached to the metal bar. Wipe this blade down with a clean lint free cloth before re-installing. See Figures 10 & 11

10) It is very important that the PCR cleaner be cleaned. Vacuum or blow off any residual toner from the foam/felt.

11) With the PCR Cleaner Assembly removed, the drum can easily be removed by lifting it out. See Figure 12

12) Clean out any remaining toner from the cartridge.

13) Press in on the bottom tab of the Developer roller plate (Right Side) to release it. See Figure 13



Figure 10



Figure 11



Figure 12

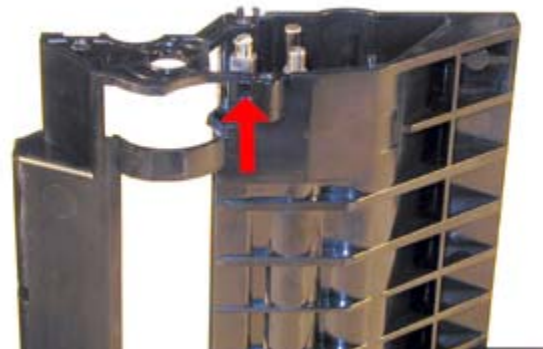


Figure 13

14) Carefully pry the metal washer off the developer roller shaft, slide the entire plate towards the edge of the developer roller cavity, and lift up. The Plate should come loose. See Figure 14

15) Gently pry out the roller plate from the cartridge. The foam seal, and plastic flat washer will come out with it. Be careful not to damage the foam seal, or lose the flat washer. See Figure 15

16) Remove the Developer Roller. Be careful not to damage or lose the flat washers on the roller. See Figure 16

17) It is highly recommended that the Doctor Blade be cleaned. Failure to do so will cause streaking. The Doctor Blade can be cleaned with out removing it. Dampen a cotton swab with alcohol, and clean the blade. Be careful not to press too hard and damage the blade. If the blade has a heavy buildup of toner on it, clean it with Acetone, and then alcohol. Removing the blade is difficult because of the foam seals attached. If the seals are torn, the cartridge will leak. That is why we do not recommend it. Once replacement Dr. Blades are available, they will have to come with replacement foam. See Figure 17



Figure 14

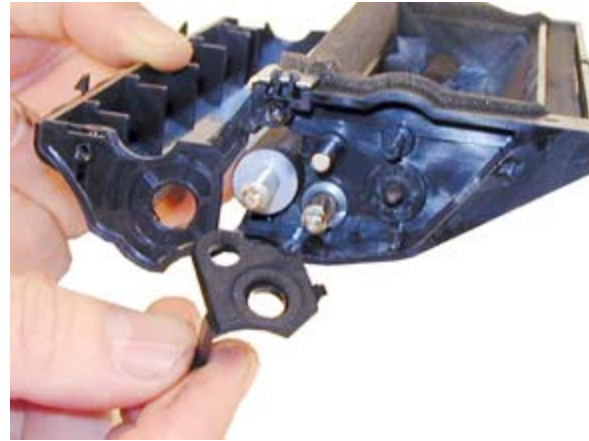


Figure 15



Figure 16



Figure 17

18) Replace the Developer roller and flat washers. Make sure the keyed end of the shaft is on the gear side. See Figure 18

19) If no grease is left on the gears and gear shafts, or it is contaminated with toner clean it all off. Replace it with white lithium grease. Be sure to clean and grease the gear shafts, and inside the gear.

20) Replace the roller plate, flat washer, and 5 gears. When installing the plate, do the opposite of how it came out. Keep it towards the front edge so that the small tab on top fits behind the wall of the cartridge. Look carefully at the picture of the gears. Each gear must fit in this exact way. The gears labeled in order of installation. See Figure 19

21) Install the new drum in place. See Figure 20

22) Install the PCR cleaner Assy. and two screws. See Figure 21



Figure 18

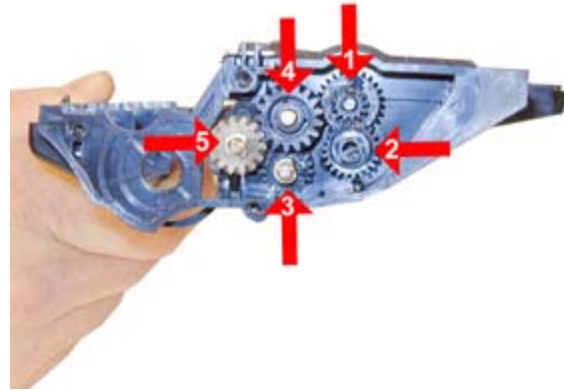


Figure 19

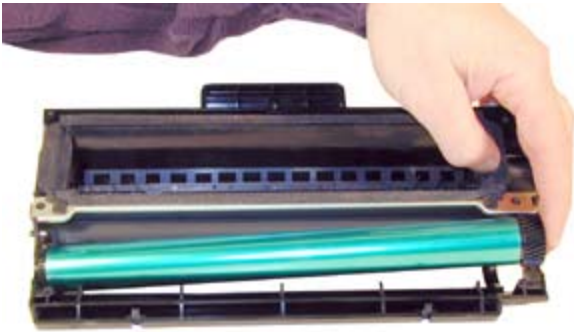


Figure 20



Figure 21

23) Clean the conductive grease off the left side (Non Gear) end cap and replace with fresh grease. Replace the end cap and three screws. See Figure 22

24) Install the PCR. See Figure 23

25) Install the right side end cap, and screws. Make sure the PCR fits correctly in its holder, and all the gears are aligned. See Figure 24

26) Fill the hopper with 90g of the SF-5100 toner. See Figure 25

This can also be done through the fill plug, but the fill plug tends to leak and will probably have to be sealed with silicon.

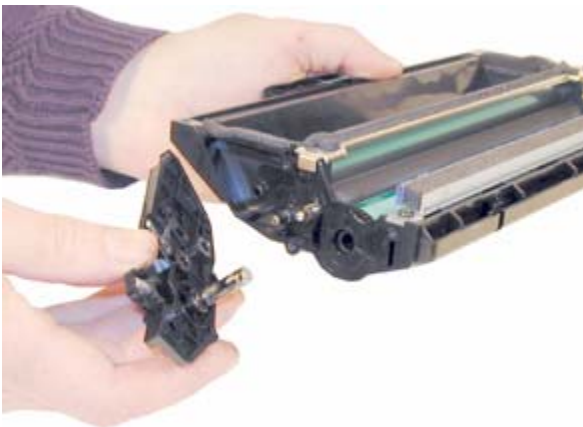


Figure 22



Figure 23

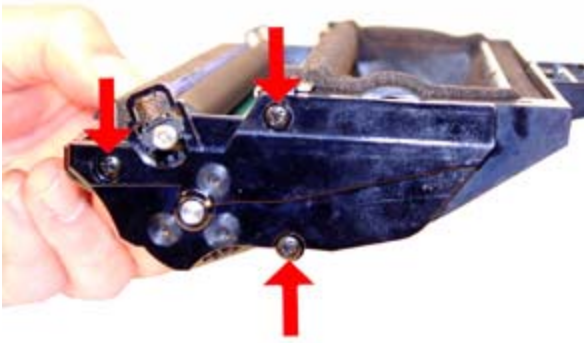


Figure 24



Figure 25

27) Carefully snap the cover on making sure all the tabs lock in place. See Figure's 26 & 27

28) Install the five screws in the top cover. See Figure 28

29) Replace the fuse on the top of the cartridge with a new 63mA fuse. Be careful not to break the plastic clamp. See Figure 29



Figure 26



Figure 27



Figure 28

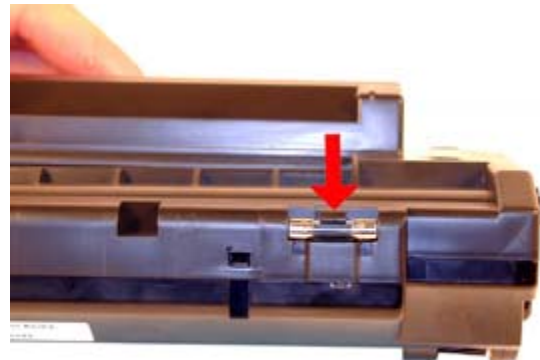


Figure 29

RUNNING A CLEANING PAGE:



The X215 has the ability to run its own cleaning page. This page according to Lexmark will clean any toner particles off the drum that may be stuck there.

Press the MENU key on the front panel until "MACHINE SETUP" appears.

Press "SELECT"

Press the Right or Left arrow until "CLEAN DRUM" shows on the display. (This is the first option in the Maintenance menu)

Press "SELECT"

A Cleaning page will then print.

CLEANING THE MACHINE:



Other than the cartridge bay, the document feed rollers and scanner must also be cleaned.

Lift up the top cover. There is a white roller attached to the lid. Clean the roller with a soft lint free cloth and water. DO NOT use any chemicals on this roller!

In the center of the lid is the white Document Cover. Clean any marks off the cover.

The scanner glass is located to the left of the document glass. Clean both with a soft lint free cloth. If stubborn dirt will not come off, dampen the cloth with water, and dry the glass. Be careful not to scratch the glass!

COMMON CARTRIDGE PROBLEMS:



A **Dirty or Bad Primary Charge Roller (PCR)**; located Inside the cartridge, this will show on the test print as vertical gray streaks down the page, as a gray background throughout the page, as ghosting where part of a previously printed area is repeated, or as a mark that repeats every 40mm.

Dirty PCR Connection; This will show as horizontal dark black bars across the page, or as shading throughout the page.

Scratched Drum; This is shown by a very thin, perfectly straight line that runs from the top to the bottom of the test page.

Chipped Drum; This will show as a dot or series of dots that repeat every 78mm.

Light Damaged Drum; This will show up as a shaded area on the test print that should be white. Again this will repeat every 78mm.

Bad Wiper Blade; This will show as either a gray line approximately 1/8" thick, or as shading across the entire page. In either case there will be a film of toner on the drum surface.

Bad Developer Roller; This will show up as light print or as a mark that repeats every 45mm

MACHINE ERROR CODES:



The error codes for these machines are all in English and are self-explanatory. The biggest problems you will run into are paper jams, and a dirty ADF/Main scanner. Keeping the machine clean with periodic maintenance will take care of most of them.

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