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Remanufacturing the Lexmark W812 Toner Cartridges



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Remanufacturing the Lexmark W812 Toner Cartridges

0303

First introduced in October 2002, the W812 machine is based on a 26ppm, 1200dpi Fuji-Xerox laser printer engine. This engine is capable of printing on 11" x 17" paper. The exact engine number is not known, but if Fuji-Xerox has kept with past practices, it would be the XP-26 (26ppm). The cartridge itself is very easy to remanufacture, and with list prices above \$200.00USD per cartridge, a nice profit maker as well. While as of this writing, only the toner is available. Drums, wiper blades, doctor blades, and seals are in development. The cartridge is rated for 12,000 pages and is loaded with 550g of toner. These machines tend to be used as workgroup printers, so if you have a customer that has one, the cartridge volume will be on the high side.

These cartridges have white pins located on each side of the cartridge that lock the two halves of the cartridge in place. The heads of the pins have what looks like one way screw heads on them. See Figure 1 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 and pull it out.

These cartridges also have a chip that tells the machine what brand of cartridge it is (Lexmark, IBM etc.) and also monitors the toner low. The housing for the chip consists of two plastic parts, and the board. See Figure's 2 & 3. From our initial tests the cartridge can be recycled at least one time with no issues. Testing is still ongoing, and we will publish an update when it is complete.

The machines that are based on the XP-26 engine are as follows.

Epson LP-8100
Epson LP-8700
IBM InfoPrint 1226
IBM InfoPrint 1226 tn
Lexmark W812
Lexmark W812 tn
Lexmark W812 dtn

Printer error codes as well as how to run test prints will be discussed at the end of this article.

SUPPLIES REQUIRED



- 550g XP-26 toner.
- New drum (Check for availability)
- New Wiper Blade (Check for availability)
- Sealing Strip (Check for availability)
- Cotton Swabs
- Isopropyl Alcohol
- Drum Padding Powder
- Conductive Grease
- Dedicated Magnetic Roller Cleaner

TOOLS REQUIRED



- Phillips head screw driver.
- Small Common screwdriver
- Needle Nose pliers
- Spring Hook
- Vacuum approved for toner

DISASSEMBLY



Orient the cartridge so that the handle is towards you (Spring on the right).

1) On either side of the cartridge is a white plastic pin with one way screw heads. These pins are what holds and locks 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 # or #8 wood screw into the center of the pin. Rotate the pin, and pull out to remove. Leave the screws in so they can easily be installed. See Figures 4, 5 & 6



Figure 1



Figure 2

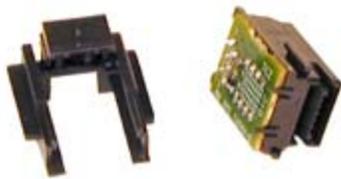


Figure 3



Figure 4



Figure 5



Figure 6

- 2) Remove the spring from the right side of the cartridge. See Figure 7
- 3) Remove the two screws and metal drum axle pin from the black gear side of the drum. See Figure 8
- 4) Remove the two screws and white plastic drum axle pin from the white gear side of the drum. See Figure 9
- 5) Remove the drum. See Figure 10

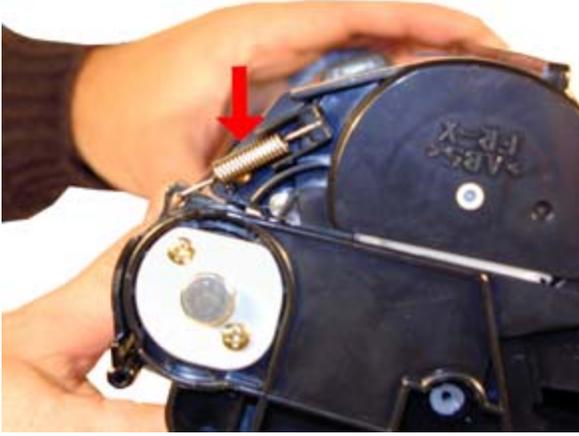


Figure 7

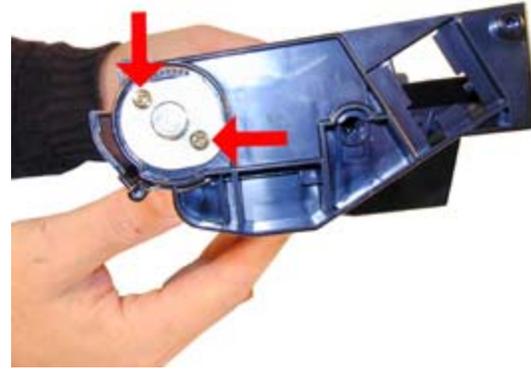


Figure 8



Figure 9



Figure 10

6) Remove the PCR from its holders. See Figure 11

7) Remove the two screws and wiper blade. See Figure 12

8) Clean out the waste chamber. Be very careful not to lose or damage the foam wiper blade seal. This seal is very fragile and a vacuum/compressed air cleaning system will damage it if you are not careful. Note that the waste chamber is very small for this size cartridge. This is the first Fuji-Xerox system I have seen that is efficient in the use of toner. See Figure 13

9) Coat the wiper blade with your preferred lubricant, and install in the cartridge. Install the two long screws the four short screws are for the drum axle pins only. See Figure 14



Figure 11



Figure 12

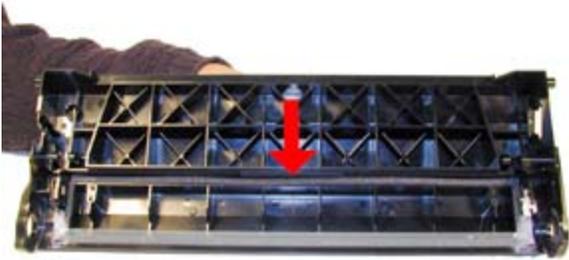


Figure 13

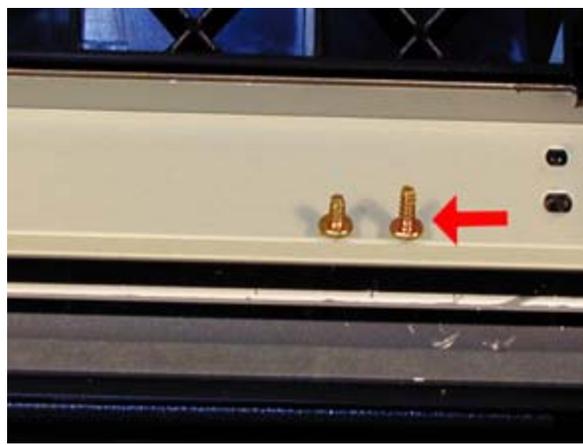


Figure 14

10) Clean the PCR contacts with a cotton swab and alcohol. See Figure 15

11) Clean the PCR with your preferred PCR cleaner, and install in the holders. See Figure 16

12) Install the drum, axle pins, and screws. Make sure that the metal axle pin is on the black gear side, and the white plastic pin is on the white gear side. See Figures 17 & 18.

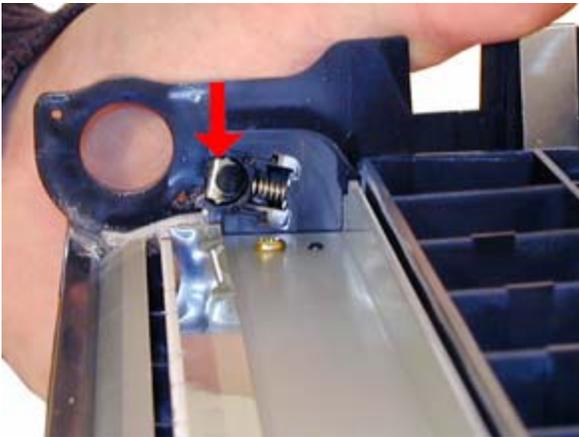


Figure 15



Figure 16

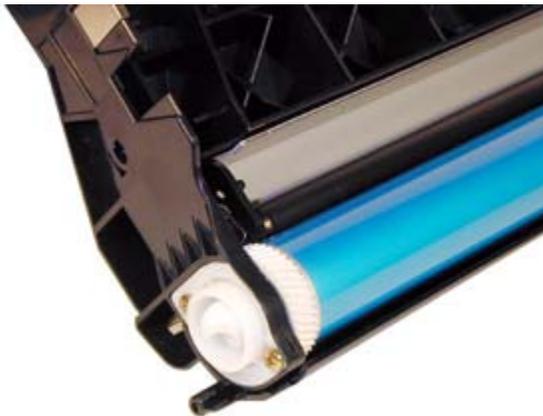


Figure 17

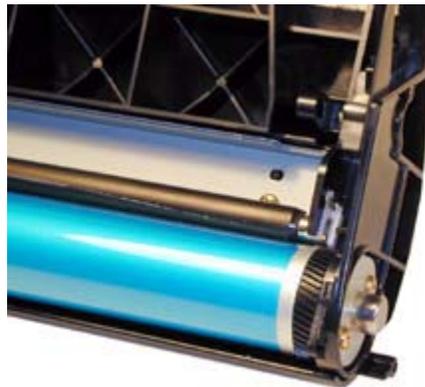


Figure 18

13) Although the toner hopper can be cleaned and filled through the fill plug, it is recommended that the magnetic roller be removed and cleaned. This will also be necessary to do once a seal is available.

14) With the pair of needle nose pliers, pull the fill plug out. Grasp the plug by the cross braces, and pull. This method does not damage the plug seal. Be careful not to damage the contact that over hangs the fill plug. It does not have to be removed, just be careful. Dump out any remaining toner from the hopper. See Figure 19

15) On the side opposite the fill plug, Remove the two screws and end cap. See Figure 20

16) With the keyed shaft of the magnetic roller free, lift up on the keyed end. Pull the entire magnetic roller assembly free. See Figure 21

17) Remove the two screws and doctor blade. Clean out any remaining toner. See Figure 22



Figure 19

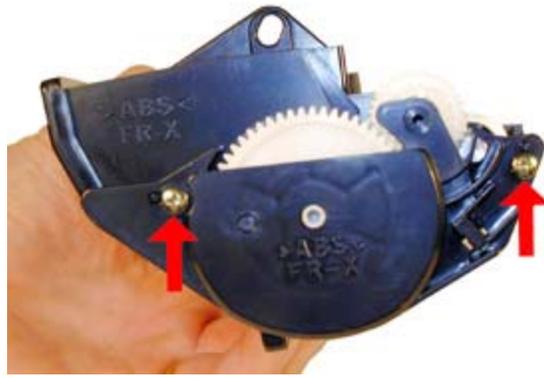


Figure 20



Figure 21



Figure 22

18) When a seal is available, it should be installed now. Make sure the seal tab is slid into the seal tab slot. See Figure 23

19) Install the cleaned doctor blade and two screws. Be careful not to damage the alignment pins. See Figure 24

20) Clean the magnetic roller assembly with a dedicated magnetic roller cleaner. Install the assembly left side (round shaft) first. Keep the flat side of the keyed shaft facing the gears. See Figure's 25 & 26



Figure 23

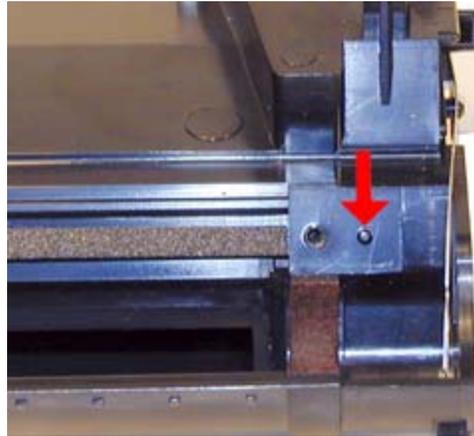


Figure 24



Figure 25

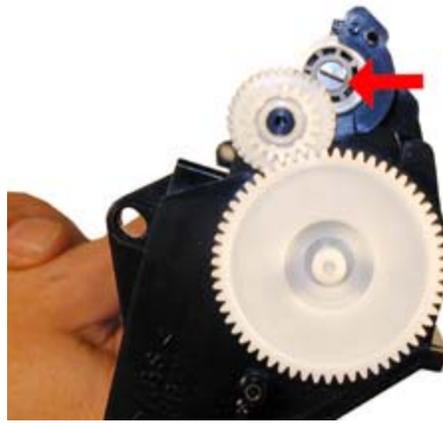


Figure 26

21) Install the end cap, make sure the keyed end of the magnetic roller is in its slot. The gear posts must also align to the end cap holes. Install the two screws. See Figure 27

22) Fill with 550g XP-26 toner. See Figure 28

23) Install the fill plug, check for leaks. See Figure 29

24) 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. See Figures' 30 & 31.



Figure 27



Figure 28



Figure 29

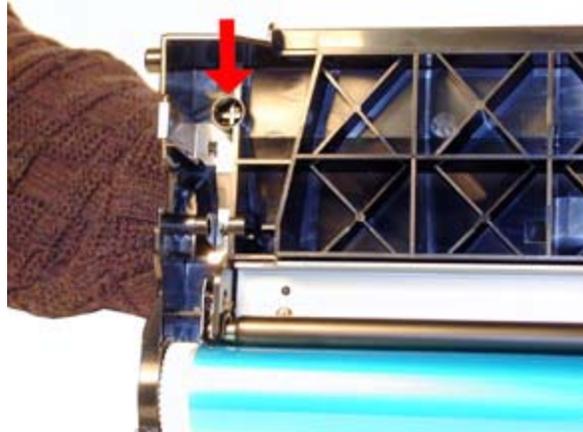


Figure 30



Figure 31

25) Install the two white plastic locking pins. Rotate them so that they lock. Be careful not to rotate the pins to far, or force them to turn. Forcing them will cause the small locking tabs to break off. See Figure 32

26) Remove the two screws from the white pins. See Figure 33

27) Install the spring onto the outside of the cartridge. See Figure 34

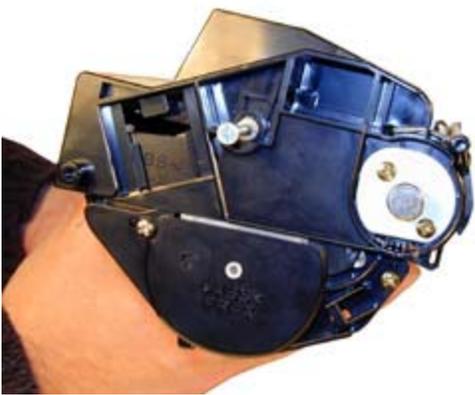


Figure 32

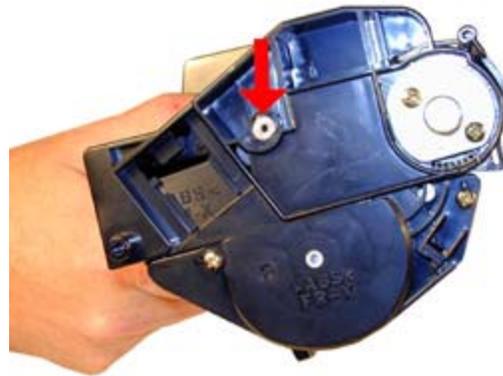


Figure 33



Figure 34

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.

94mm OPC Drum
36mm PCR
52mm Magnetic Roller

RUNNING TEST PAGES



Press the MENU button until "UTILITIES MENU" is displayed.
Press SELECT
Press the MENU button until the test print desired is displayed.
Press SELECT

The test prints available are:

PCL FONT LIST
PS FONT LIST
MENU MAP
DEMO PAGE

MACHINE ERROR CODES



The error codes in these machines follow the trend of using all English messages (No Number Codes). The modules in the printer are the "Smart Type", where they can report a problem to the main board. All messages are self-explanatory (failed fuser says BAD FUSER). Paper jams indicate where the jam is located etc.

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East Coast Distribution Center
95 Orville Drive
Bohemia, New York 11716
T: 800.221.3516 F: 888.791.9188

West Coast Sales Office
674 County Square Drive #303D
Ventura, California 93003
T: 800.211.4238 F: 800.869.8467

International Sales
T: +1 631.590.1040 F: +1 631.218.3285
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