

TECHNICAL DOCUMENT



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Fuji-Xerox XP-8/16 Toner Cartridges

DOC-0263

OVERVIEW



These instructions cover the recycling of the Fuji-Xerox XP-8/16 toner cartridge used in laser printers, using the Fuji-Xerox XP-8/16 Engine.

First introduced in January of 1995, this laser engine has been known by more than one name. The following table lists some of the more popular printers, their engines and specs. The main difference between the different engine versions (other than PPM and DPI), seems to be the maximum allowable paper size and maximum printed area. Some of the GCC machines can take paper sized at 12" x 21" and print at a maximum of 11.69" x 20". This allows printers to run proof copies with full bleed, and/or crop marks. While the basic engine is different from printer to printer, the cartridges all use the same components. This is not a complete list of all the machines that use this engine. GCC has 6 models and DataProducts has 8.

MANUFACTURER/ PRINTER ENGINE	CARTRIDGE	PART #	PPM	DPI	PAPER SIZE
BGL Mark 9516	XP-16E	MK16-EPC	16	400	11 x 17
BGL Mark 9508	XP-8E	MK08-EPC	8	600	11 x 17
DataProducts Typhoon 8	Ninja A3	313143-504	8	600	11 x 17
DataProducts Typhoon 16	Harana	313143-504	16	600	11 x 17
Epson EPL 9000	Ninja A3	SO51022	8	600	11 x 17
Epson LP-8200/8300(Japan Only)	?	LPA3ETC2	8	400	?
GCC Elite XL-608	Ninja A3	AC15616	8	400	11 x 17
GCC Elite XL-1208	Ninja A3	AC15616	8	1200	12 x 21
Xerox 8808	Ninja A3	13R00528	8	800	11 x 17

These cartridges have an average list price of \$195.00, since they are used in specialized machines, they are not discounted that much. This makes them a very high profit cartridge to do. They are also fairly simple to recycle. Basically they are Fuji-Xerox's version of the Canon BX cartridge. Since most of these machines are used by printers, it is highly recommended that the drum and wiper blades be replaced. New Magnetic rollers are not currently available.

SUPPLIES REQUIRED



- 310g XP-8/16 toner.
- New drum (Recommended)

- New Wiper Blade (Recommended)
- Cotton Swabs (CT-100)
- Isopropyl Alcohol (FR-8)
- Kynar Drum Padding Powder
- Dedicated Magnetic Roller Cleaner
- High quality silicon tube

TOOLS REQUIRED



- Phillips head screw driver.
- Small Common screw driver
- Needle Nose pliers
- Hot Glue Gun
- Caulking Gun
- Safety goggles and breathing mask.
- Vacuum approved for toner

WARNING: Always wear safety goggles and breathing mask when working with or around toner. Do not disperse the toner into the air. Use approved toner vacuums and filters at all times

Approved Vacuum systems:

Toner approved vacuum. The Atrix HCTV Canister Style vac. or the Atrix AAA style Portable vac. Some type of approved toner vacuuming system is important because toner consists of very fine particles that will pass right through a normal vacuum filter, and blow out the exhaust

DISASSEMBLY



1. Push the two side pins in with a small screwdriver or punch. If you are going to re-use the drum, (Not Recommended) be careful not to let the pins fall on the drum. See Figure #1
2. Remove the White drum axle screws and pin. See Figure #2
3. Remove the drum. See Figure #3
4. Remove the PCR. See Figure #4



FIGURE 1

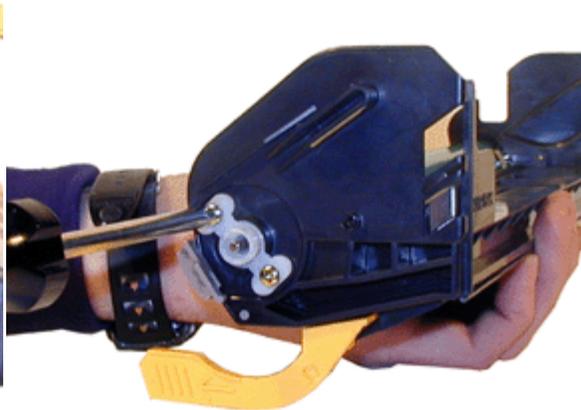


FIGURE 2

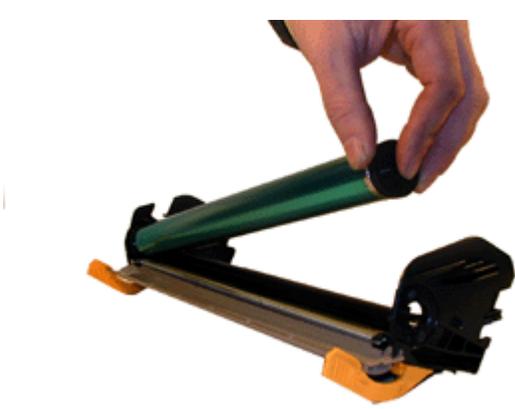


FIGURE 3



FIGURE 4

5. If you are not replacing the Wiper Blade, tap the waste chamber upside down and vacuum/blow off any remaining toner. Be very careful not to damage the recovery blade. See Figures #5 and 6. Skip to step 14.
6. To replace the wiper blade the cover of the waste chamber must be removed. This can only be done by spitting the chamber apart.
7. Remove the drum cover. Don't lose the spring! See Figure #7
8. Remove the two handles and screws. See Figure #8



FIGURE 5

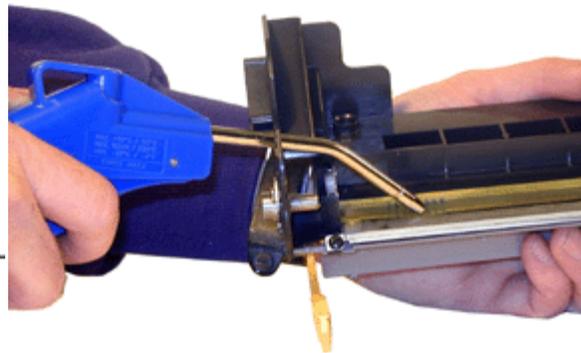


FIGURE 6

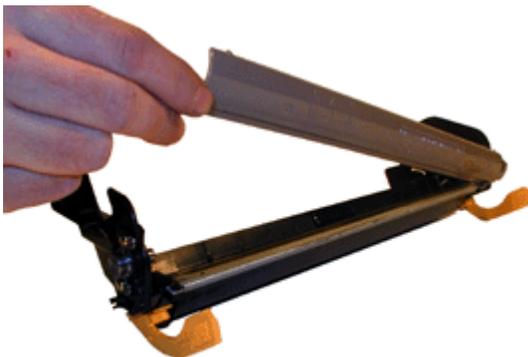


FIGURE 7



FIGURE 8

9. Carefully cut along the top seam of the chamber with a sharp sturdy razor knife. (Don't use the breakaway type). Continue to cut and pry until the cover comes loose. Be careful not to damage the recovery blade! See Figure #9

HINT: Don't try to cut it all at once and cut along the long seam first.

NOTE: As always when doing something like this, cut away from yourself, and always be aware of your finger

placement. It is very easy to slip if you press too hard!

10. Cut away the silicon seal around the wiper blade. See Figure #10
11. Remove the two screws and black spacers from the wiper blade. See Figure #11.
12. Remove the wiper blade. See Figure #12



FIGURE 9

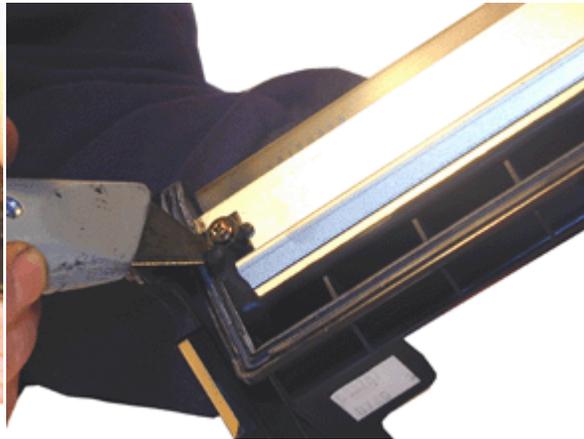


FIGURE 10



FIGURE 11



FIGURE 12

13. Install the new blade and put a bead of high quality silicon around the metal edge. Install the two spacers and screws. See Figure #13
14. Put a bead of silicon around the lip of the cover and re-install the cover. It is a good idea to put a few rubber bands around the chamber to hold the cover in place while the silicon dries. To make things easier, leave a small area at each corner free of silicon, and put a small amount of hot glue there. Install the cover. See Figure #'s 14, 15, and 16.



FIGURE 13



FIGURE 14



FIGURE 15



FIGURE 16

15. Even though seals are not currently available, it is still recommended that the magnetic roller and doctor blade be removed and cleaned.
16. On the right side of the toner supply remove the two screws and cover. See Figure # 17.
17. Remove the Magnetic roller assembly. Blow or vacuum off any remaining toner and clean with a dedicated magnetic roller cleaner. Place aside. See Figure #18.
18. Remove the two screws and doctor blade. Clean the blade with a cotton swab and alcohol. See Figure #19.
19. Remove the fill plug and vacuum/blow out the chamber.
When a seal becomes available, it should be installed now.
20. Replace the doctor blade, magnetic roller assembly, cover and all screws. Make sure that the stationary magnet fits into it's keyed slot. See Figure #20.

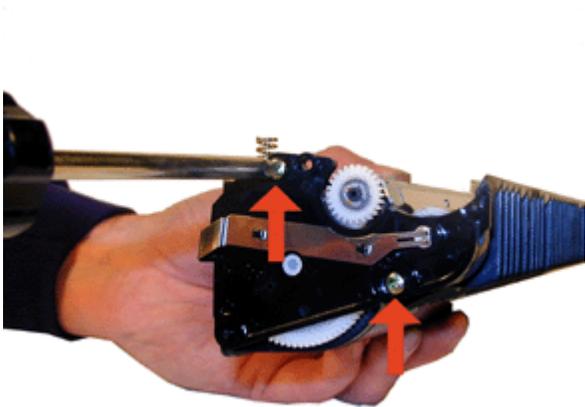


FIGURE 17



FIGURE 18

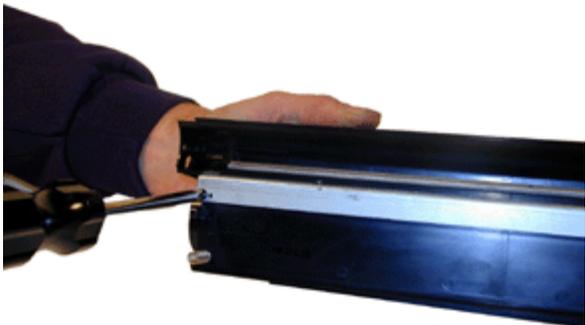


FIGURE 19



FIGURE 20

21. Fill the chamber with 310g of XP-8/16 toner, replace fill plug. See Figure #21.
22. Spin the Magnetic roller in the proper direction to make sure that everything is aligned properly.
23. Clean the PCR with your favorite PCR cleaner. Install into the waste chamber. See Figure #22.
24. Lightly coat the drum with Kynar and install in the cartridge. Make sure that the PCR stays clean. Spin the drum in the proper location to make sure the drum is properly lubricated. See Figure #23.
25. Place the two halves together, and install the two pins. Since these pins can be pushed in so easily, it is not necessary to replace them with after market pins. See Figure #24.



FIGURE 21



FIGURE 22



FIGURE 23

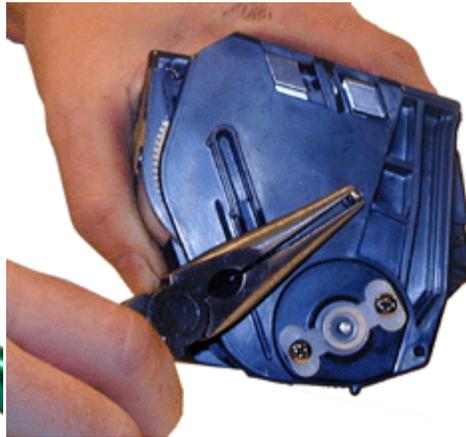


FIGURE 24

26. Replace the two handles and screws. See Figure #25.
27. Install the drum cover. Install the spring as shown. See figure #26



FIGURE 25



FIGURE 26

The cartridge is done!

TROUBLE SHOOTING



There are really no unique problems with these cartridges. They are similar enough to the BX cartridge that a BX troubleshooting chart can be used if you have a problem.

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RECOMMENDED SUPPLIES



Microsoft OLE DB Provider for ODBC Drivers error '80004005'

[Microsoft][ODBC Microsoft Access Driver]General error Unable to open registry key 'Temporary (volatile) Jet DSN for process 0x3464 Thread 0x1f48 DBC 0x8468464 Jet'.

/script/catSearch.asp, line 58