

FUJI-XEROX® XP-8 • 16

TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



FUJI-XEROX XP-8 • 16 TONER CARTRIDGE

REMANUFACTURING THE FUJI-XEROX XP-8/16 TONER CARTRIDGES

By Mike Josiah and the Technical Staff at UniNet

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.

The following is not a complete list of all the machines that use this engine. GCC has six models, and DataProducts has eight.

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	S051022	8	600	11 x 17
Epson LP-8200/8300 (Japan Only)	NA	LPA3ETC2	8	400	NA
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 \$215.00 USD* since they are used in specialized machines, they are not discounted that much. This makes them very high profit cartridges to remanufacture. They are also fairly simple to recycle. They are basically 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.

List price in U.S. American Dollars.

SUPPLIES REQUIRED

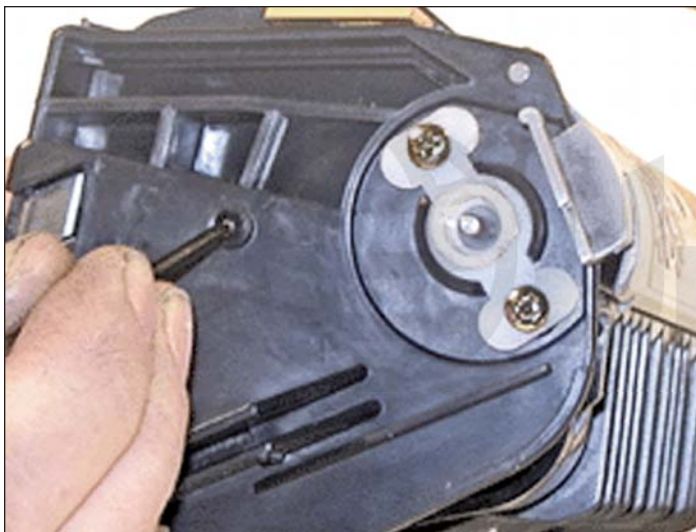
1. Toner for use in Fuji Xerox XP-8/16 (310g).
2. New drum (recommended)
3. New wiper blade (recommended)
4. Cotton swabs
5. Isopropyl alcohol
6. Kynar drum padding powder
7. Dedicated magnetic roller cleaner
8. High quality silicon tube

TOOLS REQUIRED

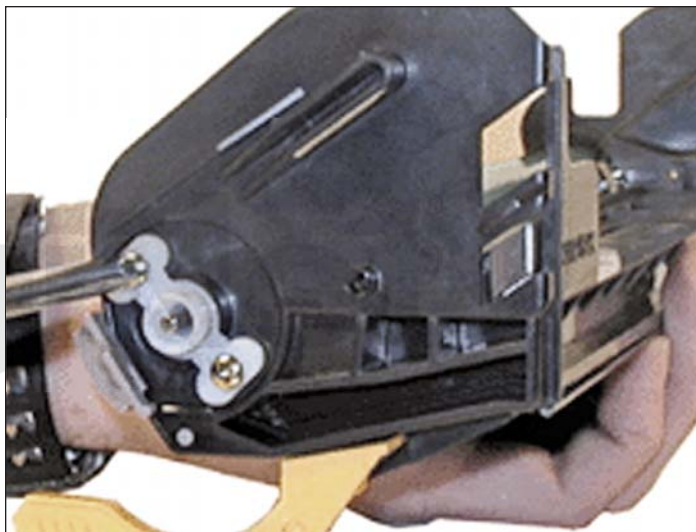
1. Phillips head screwdriver
2. Small common screwdriver
3. Needle nose pliers
4. Hot glue gun
5. Caulking gun
6. Safety goggles and breathing mask
7. Vacuum approved for toner

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: The Atrix HCTV Canister Style vacuum, the Atrix AAA Style portable vacuum, or other toner approved vacuum recommended. 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.



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.



2. Remove the white drum axle screws and pin.



3. Remove the drum.



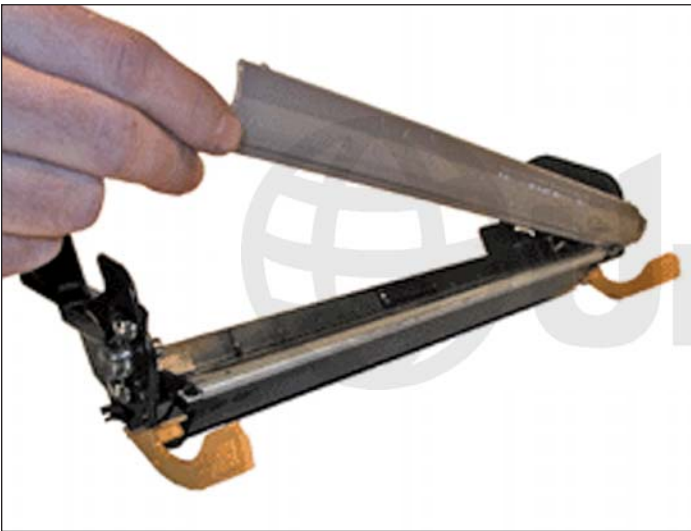
4. Remove the PCR.



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.

Skip to step 13.



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. First, remove the drum cover. Don't lose the spring!

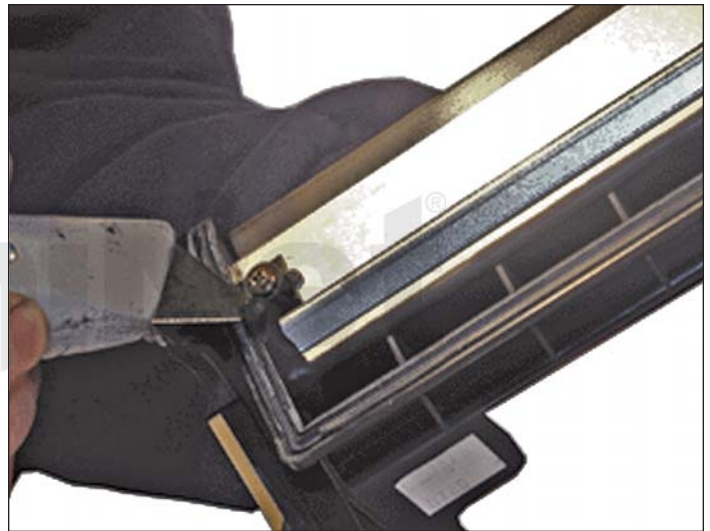


7. Remove the two handles and screws.



8. Carefully cut along the top seam of the chamber with a sharp sturdy razor knife (do not use the breakaway type). Continue to cut and pry until the cover comes loose. Be careful not to damage the recovery blade! **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!



9. Cut away the silicon seal around the wiper blade.



10. Remove the two screws and black spacers from the wiper blade.



11. Remove the wiper blade.

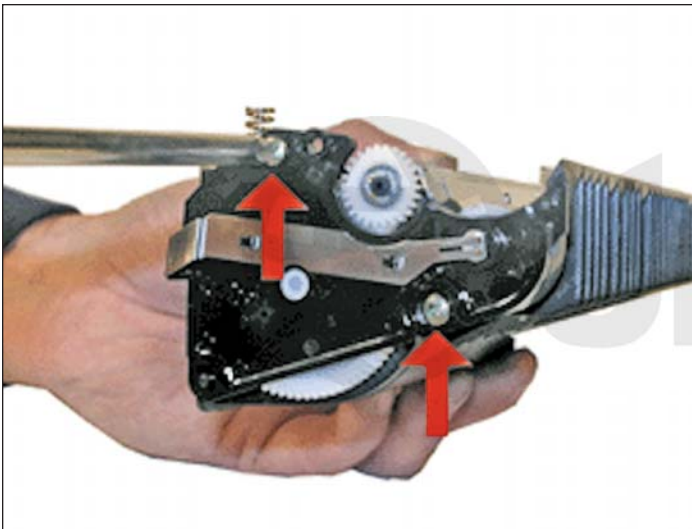


12. Install the new blade and put a bead of high quality silicon around the metal edge. Install the two spacers and screws.



13. 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.

Even though seals are not currently available, it is still recommended that the magnetic roller and doctor blade be removed and cleaned.



14. On the right side of the toner supply remove the two screws and cover.

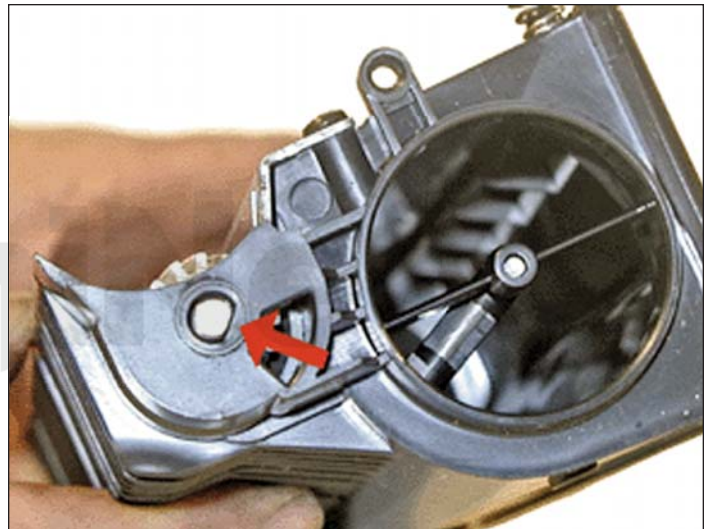


15. Remove the magnetic roller assembly. Blow or vacuum off any remaining toner and clean with a dedicated magnetic roller cleaner. Place aside.



16. Remove the two screws and doctor blade. Clean the blade with a cotton swab and alcohol.

Remove the fill plug and vacuum/blow out the chamber. When a seal becomes available, it should be installed now.



17. Replace the doctor blade, magnetic roller assembly, cover, and all screws. Make sure that the stationary magnet fits into its keyed slot.



18. Fill the chamber with 310g of toner for use in Fuji Xerox XP-8/16, and replace fill plug.

Spin the magnetic roller in the proper direction to make sure that everything is aligned properly.

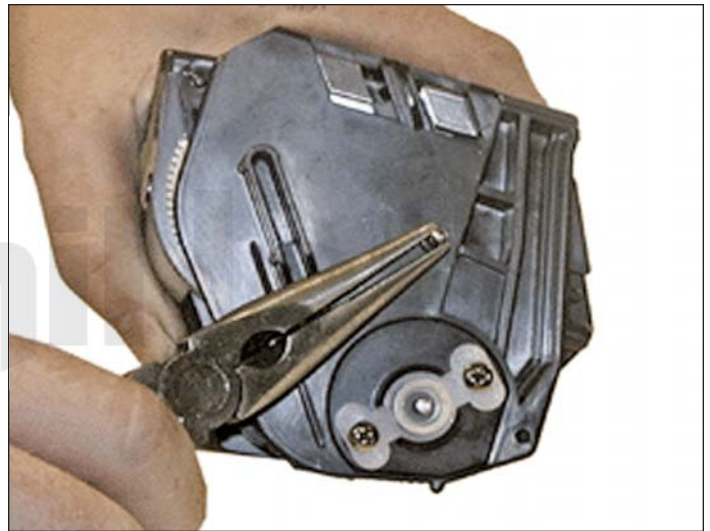


19. Clean the PCR with your favorite PCR cleaner.

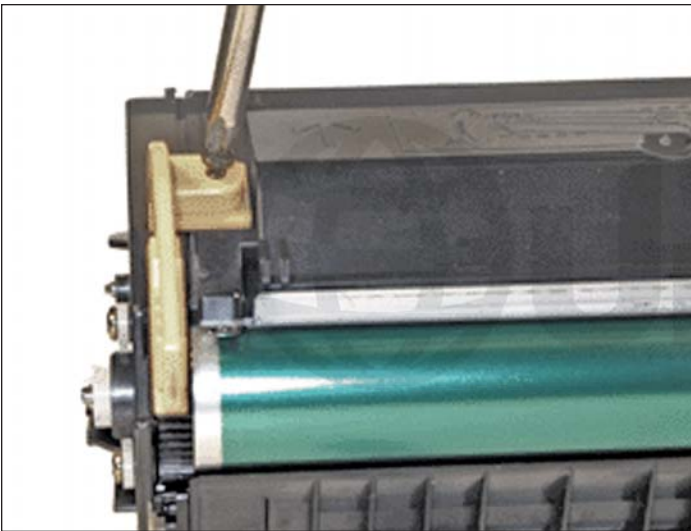
Install into the waste chamber.



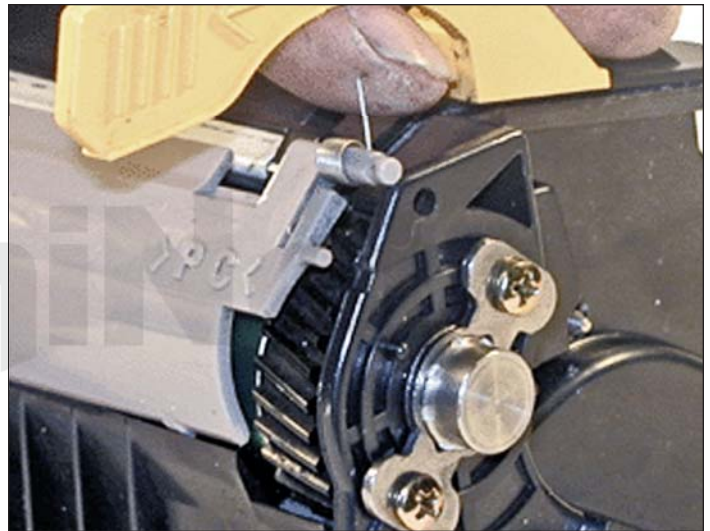
20. Lightly coat the drum with Kynar and install in the cartridge. Make sure that the PCR stays clean. Spin the drum in the proper location to make sure the drum is properly lubricated.



21. 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 aftermarket pins.



22. Replace the two handles and screws.



23. Install the drum cover.

Install the spring as shown.

The cartridge is done!

TROUBLESHOOTING

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.