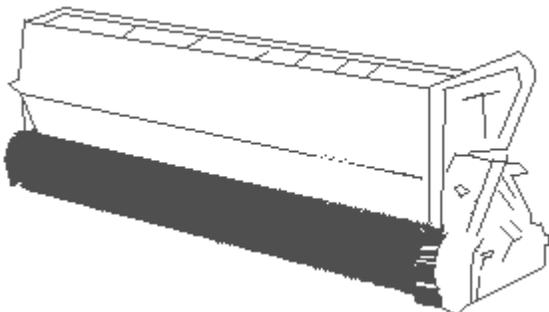


TECHNICAL DOCUMENT



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Fuji XP-11, Xerox 4030 OPC Cartridges

DOC-0239

OVERVIEW



These instructions cover the recycling of the Xerox 4030 OPC cartridge used in Xerox 4030 laser printers. The 4030 printer is a 11 ppm, 300 dpi machine that uses a two cartridge system. The OPC (part # 13R32) cartridge is rated at 20,000 pages. An interesting point on this cartridge is that in the Xerox catalog, this cartridge is listed as either being new or re-manufactured! The customer does not have a choice!

The purpose of this procedure is to vacuum out toner that will have spilled inside the cartridge during shipping and/or rough handling, to clean the Waste chamber, and to replace the OPC Drum with a new Long Life Replacement Drum,(Drum-4030), and Wiper Blade (WB-4030). This procedure should also be used to examine the internal parts of the cartridge for possible damage, or wear should the printing of the cartridge be poor and not correctable by any other means.

SUPPLIES REQUIRED



- Long Life OPC Drum
- Wiper Blade
- Emery Cloth or Fine grit sand paper
- Cotton Swabs (CT-100)
- Drum Padding Powder (DPP)
- Isopropyl Alcohol (FR-8)
- Super Glue

TOOLS REQUIRED



- Phillips head screw driver.

- Small Common screw driver
- Hammer
- 12" Long 1" thick wooden dowel
- Hack Saw
- Heat gun or Hair dryer
- Leather work gloves
- Vacuum approved for toner
- Safety goggles and breathing mask.

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 HCTV canister style vacuum or the Atrix AAA portable style vacuum. 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. This procedure should be read in it's entirety before proceeding with the actual recycling process.

PREPARE WORK AREA



1. Before proceeding with the following procedure you should have a work area available with approximately 4' x 3' clear space. It should be covered with some disposable paper since toner will spill on this area. It is recommended that brown craft paper be used and taped to the work area. This will hold the paper in place when trying to vacuum toner from the paper.
2. A garbage can with a strong plastic liner should be adjacent to the work area to empty used toner. It should be at least 2' deep to prevent toner from clouding up and over the top of the bag during disposal.
3. Have a few rags available and some disposable paper towels. TM-1 Toner Magnets are perfect for this.
4. The work area should be capable of being ventilated, if by accident toner becomes dispersed into the air. An exhaust fan in one window is recommended for ventilation.

If the Circulation of air in the work area room is combined with other rooms in the building, toner dust may be carried into the other rooms. A separate and isolated HVAC system is recommended for the work area room.

DISASSEMBLY



1. Turn the cartridge so that the label is facing down.
2. Remove the four Phillips head screws from the top cover.
3. Remove the top cover, and metal bracket.
4. Carefully lift out the Corona Wire Assembly, place aside.
5. Remove the "C"-Ring from the right side drum axle.
6. Remove the gear, slide the pin out from the axle, and remove the small bushing.
7. On the opposite side of the cartridge, remove the black bushing on the drum axle by pushing in on each side of the tab, and working loose.
8. Remove the drum and drum axle pins. Note that the longer of the drum axle pins is on the gear side of the cartridge.

NOTE: The drum axle pins in this cartridge are actually part of the hub. Each axle pin is approximately 1 1/2" in length.

It is not recommended that the OEM OPC drum be re-used.

CLEANING THE DEBRIS CAVITY



There are two Phillips head screws that hold the Wiper blade on. Remove these screws, and the wiper blade. Vacuum the Debris area and packing blade clean.

NOTE: Be very careful not to bend or otherwise damage the small thin recovery blade located next to the Wiper Blade. If this blade is bent down lower than the height of the wiper blade, toner will accumulate on top of the blade and spill into the printer. If the blade does get bent, it may be possible to carefully bend the blade up equal to or slightly higher than the Wiper Blade.

RE-ASSEMBLE THE CARTRIDGE



1. Coat the new Wiper blade with zinc Sterate (not Kynar), and replace in the cartridge.

The hubs on this OPC drum are easily broken, and can be difficult to remove. We have found the best way to remove them is the following procedure.

2. Cut the old OPC drum in half with the hack saw.
3. Heat the hub end of each drum half with the heat gun or hair dryer until the glue is softened. Be careful not to melt the plastic! Knock out the hub from the inside with the 1" wooden dowel and a hammer.

CAUTION: The metal drum section will be hot. It is recommended that you wear gloves when heating or handling the drum halves.

4. Take the new OPC drum and lightly sand the area INSIDE the OPC Drum where the metal part of the contact hub will touch. This will insure a good electrical contact.

NOTE: It is a good idea to "dry fit" the contact hub in the sanded side first and check the contact with an OHM meter. The reading should be a direct short, or no more than 1 or 2 ohms. If you are not sure how to do this, please see document # 4019 on our Fax Back system.

5. Place a few drops of super glue on the inside of the OPC Drum, and insert the hubs.

NOTE: Be very careful not to get any glue on the contact part of the hub, as this will insulate the hub from the drum and cause serious print defects.

6. Once the glue has dried, (approximately 5 minutes). Coat the NEW OPC Drum with DPP (Zinc Sterate) and place the Drum in the cartridge. Remember to place the long drum axle pin on the gear side of the cartridge.
7. Carefully remove the solid metal cover from the Primary Corona Wire. It will unsnap from each end, with a small lip in the center.
8. Clean the Primary Corona Wire Assembly with the Isopropyl Alcohol, and a cotton swab. Run the swab carefully along the wire and the wire guides. Be very careful not to break this fragile wire. If there is any toner remaining in the assembly blow it off with a can of clean air. Be certain to blow away from yourself and only after all heavy signs of toner have been removed.
9. Replace the Corona Wire Assembly. (It will just sit in place.)
10. Replace the Top Cover, metal bracket, and four Phillips head screws.
11. Wrap the cartridge in the black paper, and bubble wrap that the new OPC was packaged in. Store in a foil bag.

RESETTING THE PRINTER



This procedure is normally done by the user each time a cartridge is changed.

1. Install the new OPC cartridge.
2. With the printer off, press and hold the reset button located next to the power cord. While still holding the reset button in, turn the printer on.

The Printer is reset!

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RECOMMENDED SUPPLIES



[Microsoft][ODBC Microsoft Access Driver]General error Unable to open registry key 'Temporary (volatile) Jet DSN for process 0x3464 Thread 0x1914 DBC 0x8473d24 Jet'.

/script/catSearch.asp, line 58