Technical Document

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Sharp JX-9600 Toner Cartridges
DOC-0182

OVERVIEW

The Sharp JX-9600 laser engine is a 600 dpi, 6 PPM laser used in laser printers, and plain paper fax machines. This engine uses both an OPC cartridge, Part # JX-96DR, or FO-48DR (fax), and a toner cartridge, Part # JX-96ND, or FO-48ND (fax). The toner cartridge comes complete with a felt wand. The toner cartridge is rated for 15,000 pages at 5% coverage. Removing the toner cartridge is not easy in that it is housed under the paper output, and OPC drum cartridge. A new toner cartridge comes with a light shield for the drum to protect it while the toner cartridge is being exchanged. Laser printer and Fax cartridges have slightly different shells, and cannot be interchanged.

This cartridge also uses a reset fuse system to reset the counter, and calibrate the printer. When a new cartridge is installed, the fuse is detected by the main board, and starts the mixing cycle. During this mixing readings are taken. Once an average reading has been established, that reading is stored in memory, and the fuse is blown. Because of this method, the initial mix of toner to developer (carrier) is extremely important. Our part # 9600 is designed to work with the OEM developer (Carrier), and give consistent results.

The re-manufacturing process is different for this cartridge in that the remaining toner/carrier mixture is not removed. The new toner is added to the remaining mixture, and the cartridge sealed up. The carrier will usually last for 3 to 4 cycles, before it wears out and starts to print light. If by mistake, the old toner/carrier mixture was vacuumed out, the cartridge will still work but it print extremely light.

REQUIRED TOOLS

1. Razor Blade Knife

2.   Soldering Iron (Optional)

3.   Phillips head screwdriver

4.   small common screwdriver

5.   Toner approved vacuum (For vacuuming the exterior of the cartridge only, and toner supply area only)

   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 type toner vac, 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.

SUPPLIES REQUIRED

1.   1 bottle 9600 Toner

2.   1 Felt Wand

3.   1 Fuse-9600 to reset the counter

4.   Wire leads (See Text)

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.
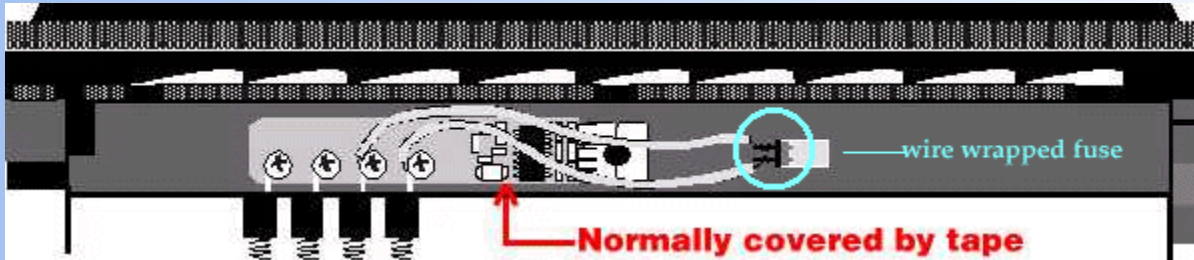
RECHARGING YOUR CARTRIDGE

1.   Turn the cartridge so that the two Phillips head screws are visible. Remove the two screws.

2.   Take the razor blade and cut along the seam between the Magnetic Roller, and the foam.

3.   Lift the Supply Chamber up while holding the opposite side down. Be very careful not to let any of the developer spill out. If turned upside down the chamber will leak.

DO NOT CLEAN OFF THE MAGNETIC ROLLER OR CLEAN THE HOPPER OUT as it contains the carrier. Once the carrier is removed the cartridge becomes useless. The magnetic roller is a very durable steel roll, but care should still be taken when handling it to avoid scratching the surface.

4. On the back side of the developer section, there are four screws that hold the contact screws in place. The fuse should be placed across the two inner screws. To verify you have the correct screws, hold the cartridge so that all four screws are on the left side. The two screws on the right side are the correct ones. The easiest way to install the fuse is to solder leads to the fuse and wrap the opposite end around the screws. We are currently searching for a wired socket for this fuse which will make this process faster and easier.

SHARP JX-9600 FUSE PLACEMENT

5. Take the Supply chamber, remove the fill plug, and vacuum clean

6. Fill with new 9600 toner, and replace the fill plug.

7. Re-assemble the two halves. Remember to place the fuse in the small area between the two sections.

8. Replace the two screws. It is not necessary to place any tape along the seam that was initially cut.

9. The felt wand should be replaced each cycle.

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 0x698 Thread 0x1164 DBC 0x97a4004 Jet'.

/script/catSearch.asp, line 58