

TECHNICAL DOCUMENT

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Minolta SP-302 Toner Cartridges

DOC-0183

OVERVIEW

These instructions cover the disassembly of the Minolta Sp-302 toner cartridge. The Minolta Sp-302 laser engine is a 6 PPM, 600 DPI engine used in the IBM/Lexmark Optra E, and Optra EP printers. This engine uses both a toner, and OPC Cartridge. The Lexmark part number for the toner cartridge is 69G8256, and the part # for the OPC cartridge is 69G8257. The toner cartridge is rated for 3000 pages at 5% coverage, while the OPC cartridge is rated for 20,000 pages. The purpose of this disassembly is to vacuum out toner that will have spilled inside the cartridge during shipping and/or rough handling, to clean the debris cavity and to fill the toner supply housing with new toner. The disassembly can also be used to examine the internal parts of the cartridge for possible damage should the printing of the cartridge be poor and not correctable by other means.

This procedure should be read in it's entirety before proceeding with the actual recycling process.

REQUIRED TOOLS

The tools needed to successfully and safely recharge toner cartridges are as follows:

1. Toner approved vacuum. The ATRIX HCTV shop vac style toner vac, or the ATRIX AAA/Omega-S portable toner vacuums.
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.
2. A small screw driver (Common Style)
3. A Phillips head screwdriver with removable tips
4. Needle Nose Pliers

SUPPLIES REQUIRED

1. SP-302 black toner 85g
2. Toner Magnet cloths
3. Lint-free synthetic cotton 4"x 4" pads (PW-96)
4. Black Poly Bag
5. 99% pure Isopropyl Alcohol (FR-8)
6. Can of clean compressed air

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.

CLEANING THE TONER SUPPLY HOUSING



1. Before cleaning the toner supply, first rotate the magnetic roller by hand and observe the layer of toner applied to the magnetic roller. The toner should form an even consistent layer of toner with no clumps or lumps showing. Should the layer of toner be thicker in some areas the magnetic roller should be cleaned using a soft dry lint free cloth. If there are small areas without toner on the Magnetic roller sleeve that show up as circular lines, the Doctor Blade is either dirty and should be cleaned, or worn out and should be replaced.
 2. Remove the fill plug on the end of the cartridge. Dump the toner out of this housing and discard. Vacuum the outside of the housing and the magnetic roller. Turn the magnetic roller a few times to vacuum all sides of the roller. Inserting the vacuum end up to the fill hole while turning the magnetic roller aids in complete toner removal.
 3. To fully clean this cartridge, the Magnetic Roller Assembly must be removed. We recommend removing it in order to assure a quality cartridge.
 4. Locate the spring loaded cover that protects the magnetic roller. Remove the cover by prying out on both ends where they contact the cartridge. Make sure you note the position of the spring before removing.
 5. Remove the two springs located on either end of the hopper.
 6. Remove the End Caps from both sides of the Magnetic Roller.
 7. Remove the Magnetic Roller Assembly, and the plastic shims on both sides.
 8. Clean the Magnetic Roller Sleeve with a lint free cotton cloth, and place aside
 9. Remove the two screws and the Dr. Blade, vacuum out the inside of the hopper
- NOTE:** When vacuuming the hopper be very careful not to damage the small roller located inside.
10. Clean the Doctor Blade with a lint free cotton cloth. If the blade has a build up of toner, clean the blade with Acetone. Make sure the blade is dry before installing.
 11. Re-assemble the cartridge by reversing steps 1-9
 12. Fill the cartridge with SP-302 toner (85g).

Felt wands are not used in this laser engine.

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RECOMMENDED SUPPLIES



[Microsoft][ODBC Microsoft Access Driver]General error Unable to open registry key 'Temporary (volatile) Jet DSN for process 0x3c30 Thread 0x3e7c DBC 0x840f024 Jet'.

/script/catSearch.asp, line 58