

TECHNICAL DOCUMENT

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Canon 1010 OPC Cartridge

DOC-0211

OVERVIEW



These instructions cover the recycling of the Canon 1010 OPC cartridge used in Canon 1010, 1020 copiers. The 1010 copier is a 10 cpm machine that uses a two cartridge system. The OPC (part # F43-2101) cartridge is rated at 20,000 pages, and the toner tube (Part # F41-6601) is rated for 2000 pages at 5% coverage. The NP-1010 OPC cartridge is actually a PC-Mini A-30 cartridge that has been converted into a two cartridge system. By doing this, both components can be made more durable, and the toner can be replaced with a simple tube when it runs out.

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-PC3GF), and Wiper Blade (WB-SX). 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.

REQUIRED TOOLS



- Phillips head screw driver.
- Small Common screw driver
- 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/Omega-S portable style 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.

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

REQUIRED SUPPLIES



- Long Life OPC Drum (Drum-PC3GF)
- Wiper Blade (WB-SX)
- Cotton Swabs (CT-100)
- Isopropyl Alcohol (FR-8)

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. With the drum facing you remove the two screws on the left side of the cartridge
2. Slide the corona wire cleaning blade out and remove the end cap.
3. Remove the four screws on top of the cartridge (waste chamber) remove the plate and vacuum out the waste toner.
4. On the left side of the cartridge remove the screw holding the drum axle pin in (the side with the small gear).
5. Remove the axle pin and remove the drum. Vacuum any extra toner left over in the cartridge. Since this cartridge is rated for 20,000 pages, it is not recommended that the Drum (OEM, or replacement) be re-used.
6. Remove the corona wire by pressing the left side in and prying up and out. (just like an SX cartridge)
7. Remove the two screws holding the wiper blade down, and carefully pry up the wiper blade. Dump any toner into the garbage and Vacuum thoroughly. The wiper blade should be replaced each cycle.

Coat the edge of the WB lightly with a small amount of new PC toner, and replace the blade on the waste chamber. It is not recommended that any type of padding powder be used in PC cartridges, as it can react with the toner, and cause the toner to stick to the OPC drum. An easy way to coat the edge of the blade is to use a cotton swab dipped in toner.

NOTE: Be very careful not to bend or otherwise damage the small thin recovery blade located next to the Wiper Blade was located. 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

8. Clean cartridge completely. Install a new PC-MINI drum (part # Drum-PC3GF). Changing the gears is not necessary.

At this point it is a good idea to manually spin the OPC drum a few turns to ensure that the Wiper Blade is properly lubricated with toner, (Turn it against the edge of the wiper blade). The OPC drum should turn freely. If it does not, remove the OPC drum and re-coat the edge of the Wiper Blade with PC toner.

9. Re-Assemble the cartridge by reversing steps 3.1-3.8 .
10. Wrap the cartridge in the black paper, and/or bubble wrap that the new OPC was packaged in. Store in a foil bag.

The felt wands used in this machine are identical to the ones used in Canon PC-Mini copiers (FW-PC3). One new wand comes with the toner kit.

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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 0x8437024 Jet'.

/script/catSearch.asp, line 58