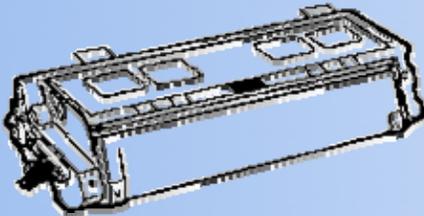


TECHNICAL DOCUMENT



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Panasonic KXP-4450 OPC Cartridges

DOC-0205

OVERVIEW



These instructions cover the recycling of the Panasonic KX-P4450 OPC cartridge used in laser printers, and plain paper fax machines using the Panasonic 4450 engine.

The purpose of this procedure is to vacuum out toner that will have spilled inside the cartridge during shipping and/or rough handling. We highly recommend that you replace the OPC Drum with a new Long Life Replacement Drum, and also replace the Wiper Blade. 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
- Needle Nose Pliers
- 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 Atrix HCTV Canister Style vac. or the Atrix AAA style Portable vac. 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, creating a real mess.

REQUIRED SUPPLIES



- Drum-4450 Long Life OPC Drum & replacement fuse

- WB-4450 Wiper Blade
- RB-4450 (Optional)
- Cotton Swabs
- DPP Drum Padding Powder (Zinc Sterate)
- Isopropyl Alcohol

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. 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 workplace 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.

DISASSEMBLY



1. On the side of the cartridge that has the Green Stripe, there are 4 Phillips head screws. Remove all four screws.
NOTE: Do not remove the screw on the small, round, spring loaded end cap.
2. Remove the entire end cap and vacuum clean. Vacuum the end of the cartridge at this time also.
3. Turn the cartridge so that the corona wire assembly is on top, and the label is facing you. On the front edge of the cartridge you will see three Phillips Head screws. Remove these screws.
4. On the left side of the cartridge, you will see two plastic tabs, press these tabs in and lift off the top cover.
5. Remove the OPC Drum and place aside.

CLEANING THE DEBRIS CAVITY



1. Vacuum the Debris area clean. Make sure that the small rubber pick-off finger is clean also.
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. If this blade cannot be repaired so that it is perfectly straight, replace it with part # RB-4450.
2. Carefully remove the three small wiper blade springs.
3. Rock the Wiper Blade back and fourth a few times. Notice that it is held in by two small pins (one on each side). With a pair of sharp wire cutters, pry the two pins out, and remove the wiper blade. (Get the edge of the cutters under the pin head, and pry out).
4. Vacuum the entire waste area clean, make sure that the red felt is not loose or torn.

RE-ASSEMBLE THE CARTRIDGE



1. Lightly dust the new WB-4450 with zinc sterate (not Kynar), and replace in the cartridge. Insert both pins, and

replace all three springs. Place this assembly aside.

2. Take the Top Cover and vacuum clean
3. Turn the Top Cover so that the label is on top, and facing you. On the left side is a small green Printed circuit board, held in by one screw. Remove the screw and board.
4. Un-solder the original fuse from the PCB Board, (small & black, looks like a transistor). Solder in the new replacement fuse, making sure you have a good electrical contact, and replace the board on the cartridge. ** See NOTE: at the end of this instruction. This fuse serves as the counter re-set for the printer, if you have a bad electrical contact, the counter will not reset.
5. 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. Make sure to clean the grid also.
6. Coat the new OPC Drum with DPP (Zinc Sterate) and place the Drum in the lower half of the cartridge.
7. Take the Top Cover and snap back into place, making sure that both of the plastic tabs are securely in place.
8. Replace the front three Phillips head screws.
9. Replace the right side end cap, and the four screws.
10. Store in a light-proof foil bag.

NOTE: If you have a machine and wish to test the cartridge, do not change the fuse until after it has been tested. If you change the fuse first, it will blow and reset your test machine. Your customers machine will still show the change drum message, and will not print.

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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 0x2de8 Thread 0x3ad0 DBC 0x3f3b014 Jet'.

/script/catSearch.asp, line 58