

TECHNICAL DOCUMENT

Disassembly Instructions

Panasonic 4420 Toner Cartridges

These instructions cover the disassembly of the Panasonic 4420 toner cartridges. The purpose of this disassembly is to vacuum out toner that will have spilled inside the cartridge during shipping and/or rough handling, 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.

Required Tools

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

1) Toner approved vacuum. The Atrix HCTV canister type toner vac, or the Atrix AAA/Omega style toner 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, creating a real mess.

2) A pen type soldering iron

3) A small pair tweezers, or a pair of needle nose pliers.

4) 4420 Toner, Felt-4420, SS-4420, and the replacement Micro-fuse.

Prepare Work Area

2.1) 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.

2.2) An empty 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.

2.3) Have a few rags available and some disposable paper towels. Toner Magnet cloths are perfect for this.

2.4) 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.

Replace the Toner

3.1) Vacuum the exterior of the cartridge.

3.2) Remove the fill plug from the toner cartridge. Dump the remaining toner into the garbage, and vacuum clean. Make sure that the bottom slit area is clean.

3.3) Install the SS-4420 across the bottom slit.

3.4) Fill the cartridge with 200 grams 4420 toner and replace the fill plug.

Replace the Micro Fuse

4.1) Locate the small PCB (Printed Circuit Board) on the gear side of the cartridge.

4.2) Remove the PCB by pressing down on the tab at the bottom.

4.3) With the soldering iron, remove micro fuse on the back side of the PCB, and replace with the new fuse supplied with the 4420 toner.

4.4) Snap the PCB back into place.

CAUTION : Make sure that you do not drop solder anywhere on the PCB, if this happens clean it off immediately. Solder dropped in the wrong place can cause a "short", which can cause damage to the machine, and/or operator.

Do not leave the Soldering iron in one place on the PCB too long, as this will cause the copper pads to lift off the PCB, making it un-useable.

Replacing the toner without changing the fuse will not work. The fuse allows the printer to reset for another 3000 pages.

The Toner Cartridge is now ready to use, but there is one final step that must be completed. The waste toner collection bottle must be thoroughly cleaned out, and replaced or "U28 Toner Cup Full" Message will appear.

4.5) Remove the old felt from the wand and replace with the Felt-4420 supplied with the toner.

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