

Printer – Saving \$\$

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- **Ink Cost Facts**

- Ink Cartridges hold as little as 7ml of ink.
- 7 ml is, it's 7/1000ths of a liter.
- It takes over 100 of these to make a liter
- More than 300 to make a gallon.
- This means printer ink is about **\$6,000 a gallon**

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- **Care for Epson and other inkjet printers**
- 1. Ink is a lubricant for the print heads.
- 2. Some color ink is used, if only printing black .
- 3. Printing with a color missing, could destroy that print head from the heat and friction of running without ink. (no lubricate it.)

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- **Warning about running out of ink**
- Printer printing without ink:
 - air would get into the jets
 - residual ink remaining will coagulate.
- Air in the tiny jet tubes can also break the vacuum effect
 - needed to continue pulling ink into to the head.
- May permanently prevent those heads from ever printing again.

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- **To prevent this from happening,**
- many printers report – “cartridge is out of ink”
 - when there is still some Ink left – 40% left
 - force you to replace the ink before it runs out.
- printer doesn't know how much ink is really left.
 - It estimates.

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- Take a half-empty cartridge out and put it back.
 - This can fool the printer – thinks a new cartridge.
 - It will continue printing after the ink has run out,
 - which could lead to that print head failing.
- Playing games like this is false economy.
 - You save a dollar's worth of ink at the risk of your whole printer.

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- **Bottom Line:** Always replace ink cartridges when empty.

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- **Must Do**
- Leave your printer **on**.
- If you turn your printer **off**, the next time you turn it **on** it will do a cleaning which wastes a lot of ink.
 - You don't want to waste 1-2 ml on a cleaning.
- Excess ink is soaked up -waste pad.
 - When waste pad is full, printer stops working.
 - The cost of repairing it is more than a new printer.
- **Bottom Line:** Shutting off an inkjet between uses can actually shorten its life.

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- **Power for your Printer.**
- Never Power down printer through a power strip.
 - Shut down a printer by pressing its power button,
 - it goes through a shut down routine designed to **clear the ink from the heads.**
 - If you use a power strip, NO ‘Clear Heads’
 - the ink in the heads will clog and you may have to throw the printer away.
- **Bottom Line:** Leave your **printer on.**

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What to do if your printer stops printing a color?

- Call the printer manufacture
 - walk you through solving the problem.
- Under no circumstances:
 - tell them you used third-party ink cartridges.
 - They will stop talking to you.

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- Can't solve the problem over the phone:
 - and your printer is still under warranty,
 - they will FEDEX you a new one.
 - You will then return the bad one to them in the same box –
 - removing the cartridges from the printer first.

Printer Cartridge General Tips

- 1. open the air hole.
 - If air can't get in, ink will NOT get out.
- 2. Run 'replace Cartridge procedure' from the computer - not the printer.
- 3. Printer does not recognize the cartridges :
 - immediately, turn the printer off for a minute.
 - remove the cartridges:
 - turn the printer off and on with no cartridges.
 - reinsert the cartridges and turn the printer off and on again.

Refilling Cartridges

- **NOTE: On refilling Printer Cartridges.**
- Adding ink to cartridge while in printer will not help.
 - Go through the replace cartridge procedure.
- For best results:
 - remove the cartridge from the printer.

Refilling Cartridges

- **Refilling ink cartridges - hazardous to your printer**
- Deliberately designed not to be refilled.
- Contains a chip –measures amount of ink remaining.
- Cartridge is empty, the chip is set to empty.
- Putting more ink in will not solve this.
 - Chip has to be reprogrammed to a full state.
 - Newer chips -designed not to allow reprogramming.
 - Therefore this procedure often fails.

Refilling Cartridges

- 1. Before refilling: cover the air hole at the top.
 - this will reduce leakage.
- 2. Immediately cover the bottom hole:
 - (where the printer punctured the cartridge)
 - with scotch tape,
 - being careful not to cover any portion of the chip on the front.
- 3. Be careful not to overfill.
 - There must be some air space above the ink level or the pressure can cause it to leak or spew ink.

Refilling Cartridges

- 4. After refilling:
 - uncover the air hole at the top.
 - Do NOT remove the tape on the bottom.
 - Allow the printer to puncture it.
 - printers like a tight seal between the head and the cartridge
 - tape on bottom ensures that.

My Ink Sources

- WWW.CCS-Digital.com (718)-868-3000)
Epson Printers – Talk/email to ‘izzy’
– Lots of Good info on Printers & Cartridges.
- www.inkquik.com
All other Printers
- Good Prices on remanufactured cartridges.

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