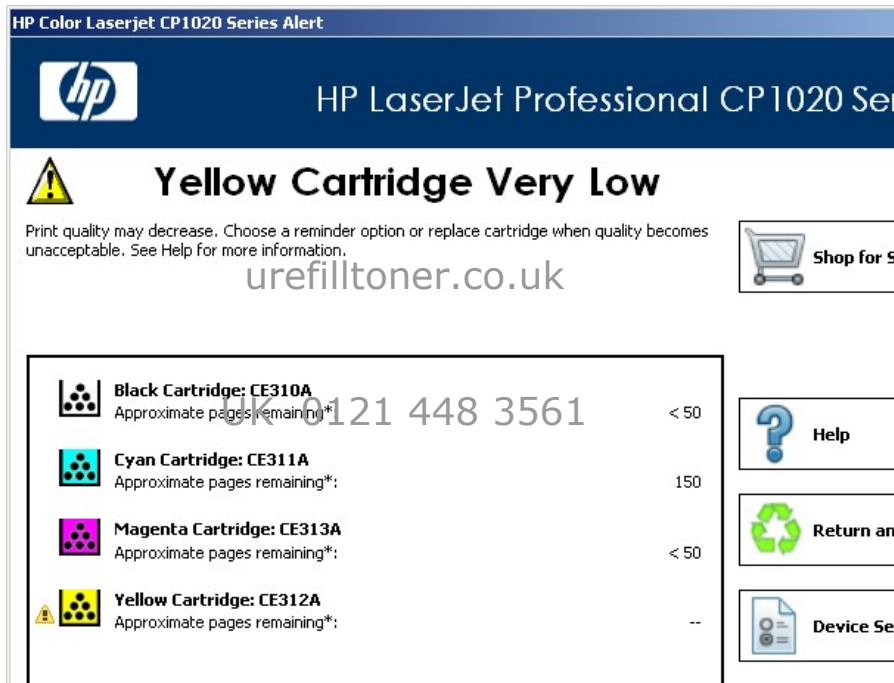# HP Pro CP1025/CP1025nw refill instructions

Suitable for both "introductory cartridges" (that come with the machine) and subsequent bought cartridges.
Before use, familiarise yourself with the safety information on pages 4 and 5.
Consider doing the refill on top of sheets of old newspaper in case of accidental spills.

At "[COLOUR] Cartridge Very Low" message, click Continue and carry on printing till fade out

As you use your printer, there'll come a point where it won't let you print anymore. The "toner" and "attention" (exclamation mark) lights photo on your printer's control panel flash. You get this computer screen pop-up :

CLICK CONTINUE and then carry on printing until you get actual toner fade out.

Note: the machine's default setting is for this behaviour to happen at the "Cartridge Very Low" status. However, you can change this setting as follows and if you do, you'll be able to print directly to fade out with none of the above symptoms.

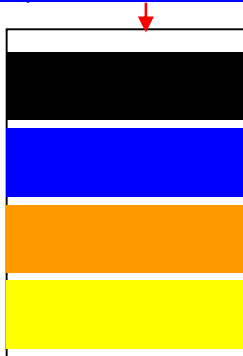**To change to "Continue to print" at Cartridge Very Low status:**

> Windows system tray: double click printer icon
> Select Device Settings
> Select System Setup
> From "At Very Low" drop-down list, select **Continue**
> Select **OK**

Knowing which cartridge is fading

You'll see immediately that something's going on with your prints. But colour laser printers suffer from a lot of different print defects, so you need to check that what you're seeing is to do with fade out and not something else. Here's an example of the kind of counter-intuitive effect you can get when a colour laser printer fades out. The cyan cartridge is fading and what should be royal blue comes out pink ———————

It's crucial to know which of the four cartridges to refill, so if you're not sure, print this 4 colour swatch. Download it from:

http://www.urefilltoner.co.uk/downloads/toner-refill-fade-out-swatch.pdf

Or you can roll your own, for example, in Microsoft Word:
Start a new document > View > Toolbars > make sure Drawing is ticked
Autoshapes > basic shapes > click the rectangle
Draw rectangle across whole width of page
Right click your rectangle > format autoshape > set fill colour from drop down box: black.
Repeat to make rectangles coloured blue, light orange and yellow.

Print the sheet a few times and identify the fading cartridge as follows:

Colours affected on swatch	Cartridge fading
Black only	Black
Blue only	Cyan
Blue and orange	Magenta
Yellow and orange	Yellow

Having identified the fading cartridge, just refill it according to the "How to refill it" section on page 3.

Important: only refill the cartridge that's showing signs of fading

Don't refill a cartridge until it has shown at least the first signs of fade out. Don't "top up" all the cartridges while you're doing one. The laundry list of things that can go wrong with this approach is as long and dreary as the websites that promote it. Make up your mind right now to just refill each individual cartridge as and when it fades out.

Protect developer roller while handling, keep from direct sunlight

Protect the developer roller at all times. If you're refilling a bought cartridge re-fit the orange shipping cover. If refilling an introductory cartridge, use cover from a bought cartridge if you have one. Take extra care if handling without cover.
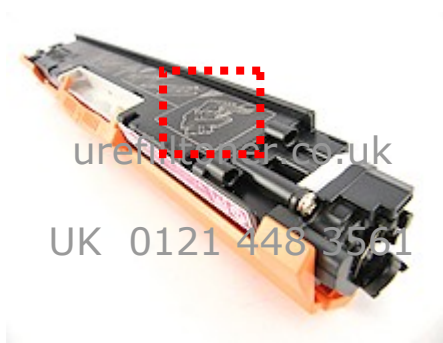
"Carousel" design of printer

In recent years, HP have favoured the superior "one pass" approach in all of their low end colour lasers. With the CP1025, though, they return to the "bad old days" of the carousel design (also known as the "tumble dryer" or "laser printer roulette").

In a word, carousels are unreliable. If you find you're getting completely garbled print output with whole colour strata juxtaposed into the wrong position – often accompanied by unusual whirring sounds – it's your carousel mechanism. This is beyond the scope and efficacy of the products supplied by U Refill Toner Ltd. Your first line of defence should be to consider claiming under the terms of the printer's warranty.

How to refill it

1) Turn on melting tool and leave to warm up for 5 minutes (see page 4 for guidance on safe use of melting tool)
2) Find position for refill hole as shown

3) Melt your hole (see page 4 for guidance on safe use of melting tool). Press lightly. If tool is hot, hole will be made easily.
4) Before opening toner bottle, shake vigorously.
5) To avoid leakage of microfine toner, wrap any kind of tape around join between spout and bottle: selotape, brown parcel tape, gaffa tape etc.
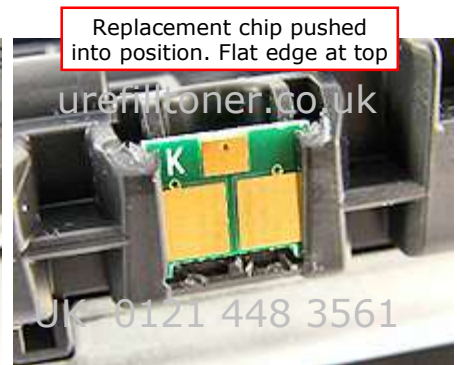6) Hold cartridge upright with one hand. Use other hand for bottle.

7) Jam spout into vertical cartridge and, keeping spout jammed in with distinct pressure, lean cartridge back to about 45 degree angle.
8) Wait for a count of 10 for toner to flow in.
9) Keeping spout in hole, rotate bottle down to below horizontal.
10) Hold finger firmly over end of spout and shake bottle again.
11) Repeat shake and pour until all toner is gone.
12) Use alcohol swab to clean up any stray toner around hole.
13) Seal hole with any tape that's wide enough. Cut out a patch to suit as shown right. Note: it needs to be cut to the right size, ending up like this

Changing the chip

Note: because it's not necessary for a successful refill, a chip is **not supplied** with this Starter Kit.

However, a chip might be important to you if you want to preserve HP-style toner status messaging. For that reason, compatible chips are available at urefilltoner.co.uk and we show you how to change them here:

1) Identify chip.
2) Taking all precautions against personal injury, cut off 2 pieces of plastic that hold chip.
3) Prise/slide old chip up and out.
4) Push replacement chip into place with brass contact plates facing out as shown.

Replacement chip pushed into position. Flat edge at top

Use and safety of the melting tool

The tool needs at least 5 minutes to reach an efficient melting temperature.

To melt a hole, apply a light force similar to pressing on paper with a ballpoint pen. Ease off the pressure as the tool sinks into the plastic.

During the first 6 minutes of the first ever use, smoke will come out of the heated part of the tool as manufacturing lubricants burn off. This is normal.

Use a screwdriver to push out the residual plastic plug while the tool is still hot.

Occasionally, the plastic plug falls inside the cartridge. Try and get it out using tweezers or pliers if you can. A piece of plastic this size inside the toner compartment doesn't usually do any harm, but be aware that it's there and retire the cartridge if it shows signs of physically jamming.

Important safety information

- To be used only by a competent, risk-aware adult.
- Use only in a well-ventilated situation. As with the combustion of any organic substance (such as petrol or tobacco) a cocktail of gases can be produced and some of these are harmful or at least irritant.
- All metal parts of the tool get dangerously hot. Never touch any metal part of the tool, including the steel shaft near the plastic handle.

- When not in hand, the tool is designed to be rested at an angle created by the flange of the handle, keeping the hot parts suspended above your surface. But take care that the power cable doesn't force the handle to rise and the hot end of the tool to dip.
- Take care not to melt through the tool's own electric cable.

- Do not use the tool with the end-piece or blank filler tip removed.
- Turn off and unplug the tool as soon as you've melted your hole. Leave to cool at least 2 metres away from your toner pouring area.
- Do not leave on for more than 30 minutes at a time.
- After use, allow the tool to cool down naturally. Do not immerse in water.
- Take all precautions for the use of a powered hand tool. Use eye and hand protection.

Assumption of risk notice

We ourselves have no hesitation in researching and refilling cartridges using the melting technique in a well-ventilated room. However, the company gives no warranties, neither explicit nor implicit, as to the safety of melting holes in toner cartridges or the use of the melting tool. Any activity or process has an element of risk. The onus is on you, the purchaser, to assess any possible risk, including the inaccuracy or incompleteness of currently available information. If you decide not to go ahead, return the product to us and we'll cheerfully refund your money. This offer is additional to your statutory rights.

©® Ownership of all intellectual property relating to the melting tool has been asserted and secured.

Safety Data HP CP type toner

Only to be used by a competent risk-aware adult. Not to be used by children. Avoid inhalation of product. Avoid eye and skin contact. Do not ingest. Avoid sources of ignition while pouring and at all times.

1 Identification of the substance and the company

Product name	HP CP1025 type refill toner
Part no.	HPCP1025BOTB, HPCP1025BOTC, HPCP1025BOTM, HPCP1025BOTY
Supplier	U Refill Toner Ltd. Contact details as per page header

2 Hazards identification

Classification		Not believed to be classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.
Acute health effects		
	Skin contact	Unlikely to cause skin irritation
	Eye contact	May cause irritation
	Inhalation	Irritation to respiratory tract if exposed to large amounts of toner dust
	Ingestion	Unlikely when used as intended. Acute oral toxicity is believed to be low
Potential health effects		
	Routes of exposure	Skin contact, eye contact and inhalation. Ingestion unlikely.
Chronic health effects		Prolonged inhalation of excessive amounts of any dust may cause lung damage
Carcinogenicity		Carbon black is classified by IARC as group 2B (possible human carcinogen). Carbon black in this preparation, due it its bound form, is not believed to present this risk. Carbon black is present only in black toner.

3 First aid measures

Inhalation	Move person to fresh air. If breathing is difficult, obtain medical assistance
Eye contact	Flush with plenty of low pressure water for at least 15 minutes. Do not rub eyes. Remove contact lenses to ensure thorough flushing.
Skin	Wash with water, obtain medical attention if ill effects occur
Ingestion	Rinse out mouth with water. Drink one or two glasses of water. If large quantity swallowed seek medical advice

4 Fire fighting measures

Hazardous combustion products	Carbon monoxide and carbon dioxide
Extinguishing media	Water, dry chemical, carbon dioxide or foam
Special fire fighting procedures	Avoid inhalation of smoke. A self contained breathing apparatus and suitable protective clothing should be worn.
Unusual fire & explosion hazards	Toner is a combustible powder; formation of an explosive dust-air mixture is possible. Avoid all ignition sources if toner has been dispersed in air.

5 Accidental release measures

Spill/leak procedure	Sweep up or vacuum spilled toner and transfer into sealable waste container. Sweep slowly to minimize generation of dust. If vacuum is used, the motor must be rated as dust tight and safely applicable to the vacuuming of toner dust. Residue can be removed with soap and cold water. Garments may be washed or dry-cleaned after removal of loose toner.
Environmental precautions	Do not flush into surface water or sanitary sewer systems. Dispose of waste material in accordance with all applicable laws.

6 Handling and storage

Handling	Keep containers closed when not in use. Handle and open containers with care. Use with adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Keep away from sources of heat, sparks and open flames.
Storage	Store at room temperature in the original container. Keep container tightly closed and dry. Do not store with strong oxidizers.

7 Exposure controls and personal protection

UK exposure guidelines	WEL: 10mg/m3 (inhalable dust), 3mg/m3 (respirable dust)
Personal protective equipment	
Eye / face	Wear dust resistant safety goggles if there is danger of eye contact
Hands / skin	Wear protective gloves
Respiratory protection	Wear approved respirator for dust when exposure exceeds permissible limits
Additional measures	Use in a well ventilated area. Use engineering controls to reduce air contaminants to permissible limits. Wash hands after use.

8 Toxicological information

Oral toxicity	Tests on toners have indicated there is no evidence of acute oral toxicity. Acute oral toxicity is believed to be low.
Inhalation toxicity	No data
Eye irritation	Not believed to be classified as irritant according to OSHA HCS and EU 67/548/EEC as amended
Sensitization	Not believed to be classified as sensitizer according to OSHA HCS and EU 67/548/EEC as amended
Chronic toxicity	No data
Carcinogenicity	Carbon black is classified by IARC as group 2B (possible human carcinogen). Carbon black in this preparation, due it its bound form, is not believed to present this risk. Carbon black is present only in black toner.
Mutagenicity	Negative (AMES test)
Reproductive toxicity	Not classified as toxic according to EU 67/548/EEC as amended

9 Ecological information

Not tested for ecological effects

10 Disposal considerations

Collect into tightly sealed containers. Dispose of waste in accordance with all local laws. Do not throw in open fires in order to prevent risk of dust explosion.

11 Transport information

General	Not regulated

12 Other information

Labelling EU 67/458/EEC	
R & S phrases	Not required
Hazard symbol	Not required

Notice. All safety information is given to help facilitate the safe use of this product and is based on information obtained from the manufacturer. This information is believed to be correct, but does not purport to be all-inclusive and shall only be used as a guide. U Refill Toner Ltd makes no warranty, express or implied, as to the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and / or compliance with local laws and regulations.

All information offered is believed to be true and is offered for consideration in good faith. However, U Refill Toner Ltd gives no warranties, neither explicit nor implicit as to the completeness or accuracy of any information offered nor the ultimate safety of refilling toner cartridges in any manner described or suggested nor the ultimate safety or hazardousness of products supplied by U Refill Toner Ltd. The onus is on the purchaser to evaluate all possible risk, including the possible incompleteness or inaccuracy of currently available information, and by proceeding to use the refill product or products, the purchaser thereby assumes all risk of peril or injury howsoever arising.

If you the purchaser decide not to go ahead with refilling for whatever reason, simply return the product or products to U Refill Toner Ltd and we will cheerfully refund your money. Your statutory rights are unaffected.

Please, tell three people what you've done

HP, we admit it. This is our begging act. Have you saved money by using our DIY kit? Did you feel a touch of pride as your cartridge *did* print again? Maybe you found some environmental satisfaction? Or perhaps you feel it should be refilled "because it's there".

We sincerely hope we've helped float your boat in some way. And if so, then please help our voice in the wilderness and tell at least three people about what you did with your empty cartridge. Why not send a link to urefilltoner.co.uk to some friends you know have printers?

The phrase "carbon footprint" hadn't been coined in 1992 when we started selling our trend-bucking "guerrilla re-cycling" products. Refilling with just toner *more or less halves CO^2* compared with making the toner plus the whole structure of a cartridge to put it in*.

We're asking for your support to create a kind of benign chain-reaction effect. Yes, we stand to make money from that, but we believe that the battle to reduce CO^2 output does have to be commercialised. That's to say, when the capacity of individuals to make voluntary self-sacrifice reaches a limit, what will take up the slack? In the same way that carbon big-foot companies need money to keep doing what they do, so does a carbon twinkle-toes.

Environmental organisations make us aware of a pyramid of priorities. **Re-use**, in the sense of directly using a resource again, is more beneficial than re-cycling (normally taken to imply an industrial process such as re-pulping paper fibre).

So, one last time for the planet, please advocate urefilltoner.co.uk if you feel our existence is preferable to our non-existence. Keep refilling in the free world.

*Sources:

Dr. M. Gell, "Carbon Footprints and Ecodesign of Toner Printer Cartridges", Xanfeon Energy & Environmental Services, UK, 2008. Dr. Gell calculates a 52% reduction in carbon footprint by refilling a cartridge 3 times and replacing the OPC drum once. We think the DIY refill case is even more favourable because the following carbon loads included in Dr. Gell's assumptions don't apply: manufacture/transport of replacement OPC drum, triple transport of empty cartridge to remanufacturing facility and energy consumed during remanufacturing at facility. In addition, the footprint of the delivery transport is smaller because toner weighs only a fraction of a whole cartridge.

Centre For Remanufacturing & Reuse (commissioning body), "The Carbon Footprint of Remanufactured Versus New Mono-toner Printer Cartridges". The authors conclude that, based on their data, a remanufactured mono (i.e. black & white laser printer) cartridge has a "46% lower carbon footprint than a corresponding new cartridge".

Berglind & Eriksson, "Life Cycle Assessment of Toner Cartridge HP C4127X", University of Kalmar, Sweden, 2002.

Refills by you … thanks to you …..

Thanks for refilling the toner cartridges in your printer. We invented "do-it-yourself" toner refills in 1992, "melt & pour" in 1996 and put "unplug & pour" into internet-speak in 2002. We've never tried to patent or otherwise restrict the use of these ideas.

If you liked our product, please recommend us to friends and colleagues. We've survived for over 20 years – fighting giant corporations that dwarf us – thanks to your custom and recommendation. No one here takes that, or you, for granted.

U Refill Toner. Now needed more than ever. Now refined more than ever.

✓   more than halve the cost

✓   halve CO$_2$

✓   defend your consumer choices and right to reuse

URefillTon
.c

*Original and largest selling
do-it-yourself toner refill*

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