

How to refill your HP Pro CP1525n/CP1525nw toner cartridges

Also suitable for: CM1415fn, CM1415fn

Suitable for HP cartridge codes: CE320A, CE321A, CE322A, CE323A (also somewhat confusingly referred to by HP as 128A black, 128A cyan etc. so much for the idea of a unique reference to avoid confusion!)

Consider doing the refill on top of sheets of old newspaper in case of accidental spills.

"Introductory cartridges" can be refilled, but beware

The new machine arrives with a set of so-called "introductory cartridges" (quoted by HP as yielding 750 pages). They have both smaller toner and smaller waste compartments than the cartridges you subsequently buy.

This starter kit and our refill bottles are directed towards the ongoing "bought" cartridges in the sense that the weight of toner supplied matches the higher yield of the bought cartridges. *Not all of the toner we give you will fit in an introductory cartridge: to avoid mess, pour in about half a bottle at a time* (we remind you again in the flow of the instructions).

At "[COLOUR] Cartridge Very Low" message, press OK button 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 "attention" (exclamation mark) light on your printer's control panel will flash, along with the following rolling display message



PRESS the **OK** button 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:

On the control panel, press the **OK** button

Use arrows to select **System Setup** menu, press **OK**

Use arrows to select **At Very Low** menu, press **OK**

Use arrows to select **Black or Colour Cartridge(s)** menu, and press **OK**

Select the **Continue** option, press **OK**

Any pop-up alerts on your computer monitor will merely reflect messages shown on the printers control panel. Just ignore them: they go away when you follow our method with the control panel.



Knowing which cartridge is fading

If your printing profile stays about the same, it'll likely be the cartridge you first had the "Cartridge Very Low" message about.

You'll see from your prints that something's fading, but depending on what you're printing, it's not always obvious which colour is the culprit. The mainly blue image shows the kind of counter-intuitive effect you can get.

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/cmykVerticalTest.pdf>



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 starting 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.

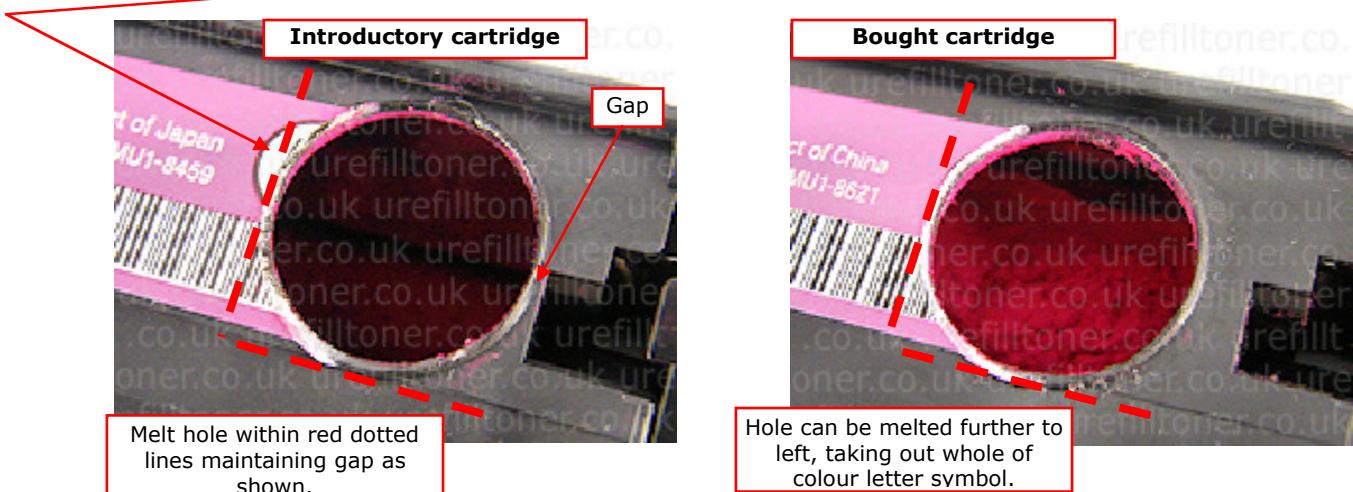
Protect blue OPC drum while handling, keep from direct sunlight



Protect the blue OPC drum at all times. Never expose it to direct sunlight and expose to ambient light as little as possible. 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.

How to refill it

- 1) Turn on melting tool and leave to warm up for 5 minutes (see page 6 for guidance on safe use of melting tool)
- 2) Find position for refill hole as shown. Note: "introductory cartridge" hole is more demanding. It has to be further to right as shown cutting "M" symbol almost in half.



- 3) Melt your hole (see page 6 for guidance on safe use of melting tool). Press lightly. If tool is hot and hole is just in right position, 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: sellotape, 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.

Introductory cartridges only: take a look inside hole. Stop if you can see toner level is close to hole. Go carefully if filling some more. Not all of the toner will fit in an introductory cartridge. Save some toner for next time.

10) Hold finger firmly over end of spout and shake bottle again.

11) Repeat shake/pour until all toner is gone (*not for introductory cartridges*)

12) Use alcohol swab to clean up any stray toner around hole.

13) Apply plug by marrying inside edges of melted hole with plug's groove.

14) In the case of holes that weren't "cleanly" melted, small amounts of toner may escape around edges of plug. It's no big deal. Just clean up stray powder so you get a good seal, then seal with bathroom sealant or rubbery glues like Copydex.





Empty waste at end of 2nd refill (maybe sooner for “introductoryies”)

Or wait for streaks, then empty straight away

Emptying waste is messier than a refill

As these machines print, they produce waste toner. It's sneakily stored inside an empty chamber inside the toner cartridge. If the waste fills up completely, you'll start to get “waste streaks” like this cyan one vertically down the page (could also be black, pink or yellow of course, according to the colour of the cartridge).

For the CP1525 family, this is highly likely to happen during the running of 3rd refill (be aware, could be slightly sooner for introductory cartridges). So the preventative route, if you want to empty the waste, is to do it at the **end of the second refill**.

If you like to wing it, it **is** viable, to deliberately wait for the first signs of waste streaks and empty the waste at that point. Don't delay though. Very soon after the appearance of waste streaks, the compacted waste scratches the OPC drum and the cartridge is rendered useless - whether you then empty the waste or not.

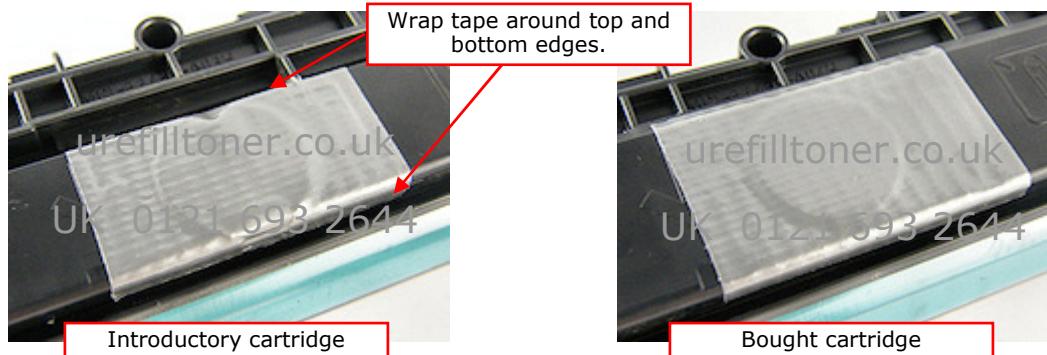
We say “if” you want to empty the waste, because it's your call. Emptying the waste is messier than just refilling.

If you're up for it, though, here's how it's done:

1. Melt waste hole as shown. Note: more care required when melting hole in introductory cartridge - waste compartment is narrower than on the bought cartridge.



2. Shake waste toner straight into an outside bin: do not expose the pale blue OPC drum to direct sunlight.
3. Wipe stray toner from cartridge surface with absorbent paper.
4. Outside of cartridge can optionally be cleaned with vacuum cleaner fitted with the “hairy” attachment. However, take great care not to scratch the very delicate pale blue OPC drum surface and only perform surface cleaning: do not penetrate into crevices.
5. Use alcohol swab to clean and prepare flat surfaces around hole.



6. Seal hole with any tape that's wide enough. Some duct tape's included in the kit to get you started (you'll need to cut the patch supplied to the right size - it mustn't have any loose ends that aren't stuck to cartridge).
7. Occasionally check the cartridge to make sure the seal's holding. Tiny leaks can be sealed bathroom sealant or rubber-based glues like Copydex.

Any tape (that's wide enough) will do

This starter kit includes some duct tape patches (also known as “Gaffa tape”) to make sure you have everything on hand for your first successful refill. For this application, though, the type of tape you use isn't all that important. For future refills, use any tape that's wide enough to cover the hole as shown.





The more important factor is that the flat surfaces the tape must stick to have no toner dust on them: hence the alcohol swabs for cleaning.

Having said that, duct tape does work well, so you might want to get a roll in for the future.

Changing the chip (or not!)

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



About this “how to refill your own toner” guide

These CopyLeft instructions from <http://www.urefilltoner.co.uk/> are the same as those included with our HP CP1525n, CP1525nw, CM1415fn, CM1415fn toner refill Starter Kit.

A Starter Kit is our “zero to hero” kick-start. It’s got all the materials and know-how you need to refill your empty cartridge the right way. First time.

These instructions show you **how we did it**, not how we imagine it could be done. In the case of the HP CP1525n, we successfully did this refill over 20 times and clocked up 7,686 prints on the machine. In the later stages, most of the prints were sent out to customers in the form of catalogues.

This document, which avoids refill disaster through detailed guidance on the **critical issue of when to refill**, contains all substantial information needed for a successful refill assuming you’re taking advantage of U Refill Toner Ltd / <http://www.urefilltoner.co.uk/> products.

Click link below to get this and many more HP laser printer refill kits (UK and most of Europe)
http://www.urefilltoner.co.uk/toner_refill_printers.aspx?manufacturer=Hewlett+Packard

◎ Copyleft Terms

U Refill Toner Ltd., the author of this technical document under UK and International law, hereby grants unlimited reproduction and sharing, by whatever means, for **non-commercial purposes**. For the avoidance of doubt:

- 1) Only the whole document, in its entirety, is covered by this Copyleft. Copying and reproduction of sections will constitute a breach.
- 2) U Refill Toner Ltd and <http://www.urefilltoner.co.uk/> must be accredited as the originators of this literary work.
- 3) Reproduction of the contents of this document, in whole or in part, for the purposes of facilitating, or as the object of, any kind of commercial transaction is explicitly prohibited. Although, if you’re in the toner refill business and you want to use *concepts* found here to give your customers a better experience when refilling toners, please be our guest.

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 CO₂
- ✓ stop being a doormat for big manufacturers



Original and largest selling
do-it-yourself toner refill