

HP P1566/P1606dn refill instructions

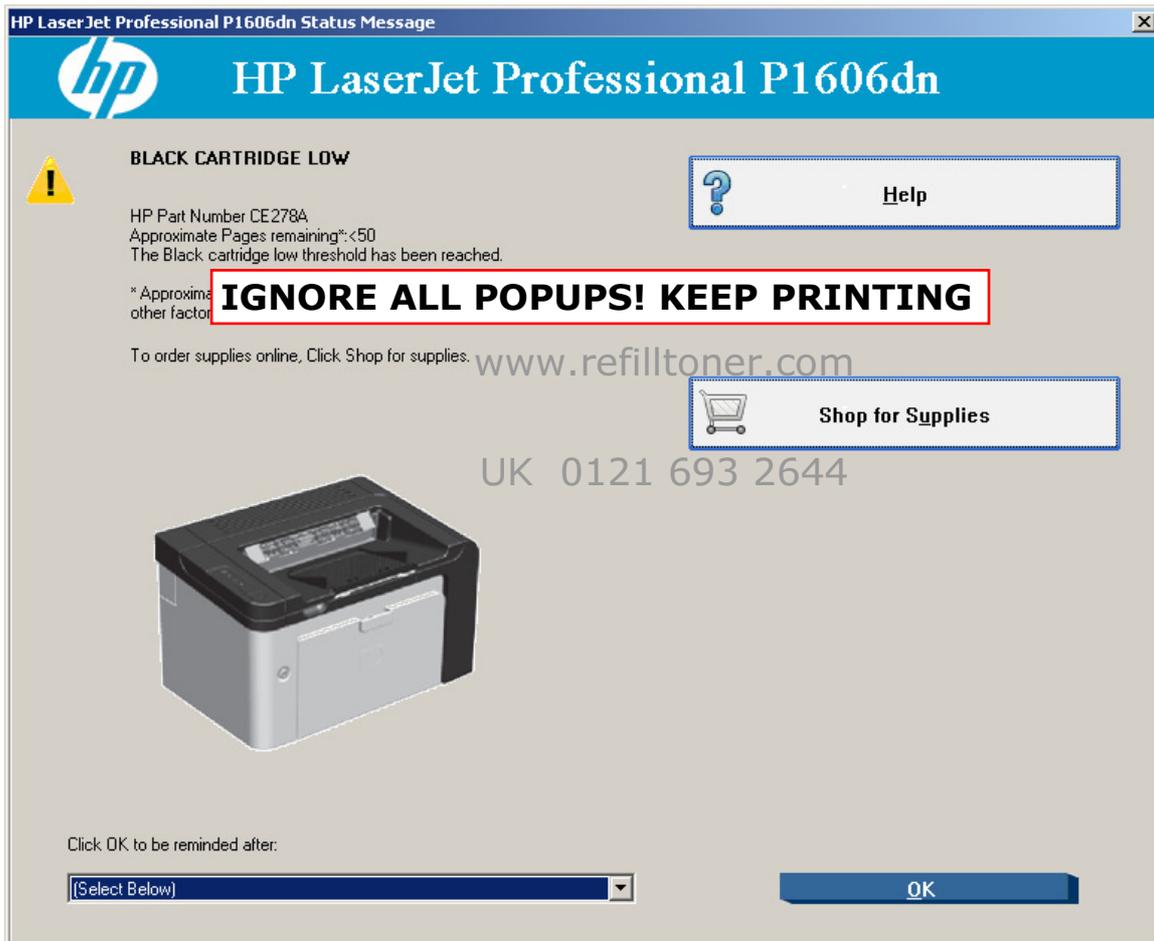
Before use, familiarise yourself with the safety information on pages 6 and 7.
Consider doing the refill on top of sheets of old newspaper in case of accidental spills.

If refilling "starter cartridge", use about half bottle at a time

The machine arrives with a so-called "starter cartridge". It has less toner in than the standard cartridge (code CE278A) that you can subsequently buy and so, of course, prints less copies.
Our toner bottle is aimed at the standard cartridge and about one quarter of it (20g) will not fit into the starter cartridge. To avoid spillage, when refilling the starter, put about half a bottle in at a time.

Ignore all messages, run till fade out, shake and run to fade out 2 more times before refilling

Ignore any messages, flashing lights or popups whatsoever as long as you can keep printing. Carry on printing until you get fade out from actual lack of toner powder in the cartridge.



**IGNORE TONER LIGHT, BOTH
"ON STEADY" AND
"BLINKING". KEEP PRINTING!**

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) Fill groove of a plug all way round with silicon glue
Leave aside to start drying.



- 3) To try and get waste spreading evenly, tap all way along waste compartment and shake cartridge from side to side in orientation shown.



- 4) Melt your hole in position as shown (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.

- 5) Before opening toner bottle, shake hard for 10 seconds.
- 6) To avoid leakage of micro fine toner, wrap any kind of tape around join between spout and bottle: selotape, brown parcel tape, gaffa tape etc.
- 7) Hold cartridge upright with one hand. Use other hand for bottle.

- 8) Jam spout into vertical cartridge and, keeping spout jammed in with distinct pressure, lean cartridge back to about 45 degree angle.



- 9) Wait for a count of 10 for toner to flow in.
- 10) Keeping spout in hole, rotate bottle down to below horizontal
- 11) Hold finger firmly over end of spout and shake bottle again.
- 12) Repeat steps 8-11 until all toner is gone.
- 13) Use alcohol swab to clean up any stray toner around hole.
- 14) Apply previously silicon-glued plug by marrying inside edges of melted hole with plug's groove. Wipe off any large globules of glue from around flange of plug
- 15) End



How to empty the waste

You need a vacuum with the "hairy" attachment on. Irreparable damage to internal cartridge seals can result if a vacuum is used with anything other than the hairy attachment on. Only use vacuum for cleaning stray toner powder, not for sucking up the bulk of any big piles of toner.

1. Melt hole here for starter cartridge or here for bought cartridge

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2. Shake waste straight into an outside bin, but do not expose cartridge to direct sunlight
3. Using hairy vacuum attachment, carefully clean up outside of cartridge
4. Clean surface around hole with swab or absorbent paper
5. Fill groove of plug all way round with sealant as in step 2 page 3, extra sealant will need to be in place around starter cartridge in this area to prevent any leakage.

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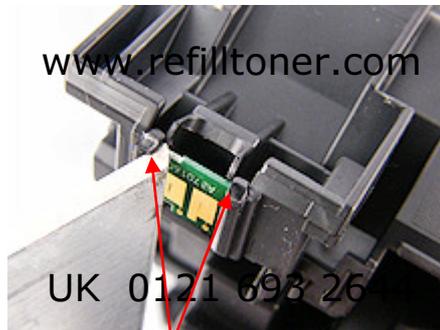
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6. Apply plug by marrying inside edges of melted hole with plug's groove
7. Wipe off any large globules of glue from around flange of plug

How to change the chip (not necessary for a successful refill)

We used our P1606dn to print production quantities of the black and white section of our catalogue. In our experience, you can refill indefinitely without needing to change the chip. **For that reason, a chip is not included in this starter kit.** But if you need OEM-style messaging to help users in a network, or you just don't like the warning lights on the machine, you can change the chip as follows. (The chip is available at www.refilltoner.com under HP P1566 or P1606dn.)

1) Identify chip



2) Taking all precautions against injury, cut off 2 pieces of plastic that hold chip

3) Prise old chip up and out

4) Push new chip firmly into place with brass contact plates facing out



Note about sealant

The kit comes with a tube of silicon glue to get you started. Bathroom sealant or a rubber based glue like Copydex works the same way, so you might want to have some handy for the future.

Don't update your firmware

Although the cartridge does have a chip, we found in our work with the machine that at no time did the chip come into play or interfere with our ability to refill and print. A firmware update could change this behaviour. **Do not allow the printer to update firmware across the internet.** Disable any default options to do this.

*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".

Berglund & Eriksson, "Life Cycle Assessment of Toner Cartridge HP C4127X", University of Kalmar, Sweden, 2002. The authors state (Abstract page I) that from the point of view of environmental load, "the re-use alternative is full measured two times better ...". Although they point out that the main environmental load is, in fact, associated with paper.

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.

Now needed more than ever. Now refined more than ever.

- ✓ cut CO₂
- ✓ sabotage "designer waste"
- ✓ save money

<http://www.urefilltoner.co.uk>

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