BILL'S HOME TECH

Home & Small Business Tech Solutions

AN EXTENDED GUIDE · NO. 2167

Updated November 2026

"Replace Cartridge" When the Cartridge Is Full

When the printer insists on a new cartridge that clearly isn't empty — what's really going on, and how to clear it

Plain-English printer help from:
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Tech Made Simple. Service Made Personal.

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SUMMARY

The 60-Second Version

A "replace cartridge" warning on a full cartridge is usually a recognition problem, not empty ink. Take the cartridge out and click it back in firmly, remove any protective tape, and gently wipe the gold contacts with a dry cloth. Restart the printer so it re-reads the cartridges, and choose "continue" if it offers to carry on.

Third-party or refilled cartridges, and HP firmware "dynamic security" updates, can trigger false or deliberate rejections. A nozzle check shows whether a color is genuinely empty; if one slot rejects every cartridge, suspect the printer, not the ink.

1 The Short Version

A "replace cartridge" warning does not always mean the cartridge is empty. Printers judge cartridges by electrical contact and by a small chip, and when that reading fails — a smudge on the contacts, a cartridge not quite clicked in, or a chip the printer does not recognize — it cries out for a replacement even when there is plenty of ink. The first moves are to reseat the cartridge and clean its contacts; most false alarms clear right there.

- The warning is often about recognition, not an actually empty cartridge.
- Start by taking the cartridge out and firmly clicking it back in.
- Gently clean the gold contacts — a smudge is a common cause.
- Third-party or refilled cartridges and firmware updates can trigger false warnings too.

WATCH OUT

If the warning appeared right after you installed a new cartridge, the most likely causes are a strip of protective tape left on, the cartridge not fully seated, or a chip the printer wants a moment to read. Reseating a fresh cartridge firmly clears a great many of these.

2 Why a Full Cartridge Gets Rejected

Modern cartridges carry a tiny electronic chip that tells the printer what they are and roughly how much ink they hold. The printer reads that chip through small metal contacts. If the contacts are dirty, the cartridge is slightly loose, or the chip is unfamiliar, the printer cannot confirm a healthy cartridge — and it defaults to warning you to replace it, whether or not there is ink inside.

So a "replace cartridge" message is often really "I cannot read this cartridge properly." That is good news, because a reading problem is usually fixable in a couple of minutes, whereas a truly empty cartridge is not.

> **GOOD TO KNOW**
>
> The ink-level number a printer shows is an estimate from the chip, not a measurement of the liquid inside. That is why a cartridge can read "empty" with ink still in it, or get flagged for replacement when it is nearly full — the chip and the reality have simply drifted apart.

3 Reseat the Cartridge

The simplest and most effective first step is to take the cartridge out and put it back firmly. This re-establishes the electrical contact that the warning usually comes down to.

1. Turn the printer on and open the cartridge door so the carriage slides to the center.
2. Press and lift the flagged cartridge out of its slot.
3. Check for any protective tape still on the contacts or nozzles and remove it.
4. Push the cartridge firmly back until it clicks solidly into place.
5. Close the door, let the printer settle, and see if the warning clears.

WATCH OUT

Be gentle but firm — a cartridge that is not fully clicked in is one of the most common reasons for a false "replace" warning. If it does not seat with a reassuring click, take it out and try again rather than forcing it at an angle.

4 Clean the Contacts

If reseating alone does not clear it, a smudge of dried ink or dust on the gold contacts may be blocking the reading. A careful, dry cleaning often does the trick.

1. Remove the cartridge and find the small gold or copper contacts on it.
2. Wipe them gently with a dry, lint-free cloth or a clean coffee filter.
3. Look into the printer's slot and gently wipe the matching contacts there too, if you can reach.
4. Let everything stay dry, reinstall the cartridge firmly, and test.

WATCH OUT

Use only a dry cloth on the electrical contacts — never water or alcohol-soaked wipes, which can leave residue or cause a short. And never touch the contacts with bare fingers more than you must; skin oils can interfere with the reading.

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5 Clear a False Alarm

Sometimes the cartridge is fine and the printer just needs to be told to carry on. Many printers have a way to acknowledge the warning and keep printing, especially for a "low" rather than "empty" message.

1. Read the printer's screen for an "OK," "Continue," or "Proceed" option and choose it.
2. If it warns the cartridge may be low or counterfeit, confirm you want to continue if you trust the cartridge.
3. Turn the printer off and on once to let it re-read all cartridges fresh.
4. Print a test page.

> **GOOD TO KNOW**
>
> A simple off-and-on restart makes the printer re-read every cartridge from scratch, and that alone clears many stuck warnings. It is always worth trying before deciding a cartridge is genuinely bad.

6 When It's a Third-Party or Refilled Cartridge

If you fitted a cheaper non-HP, non-Canon, or refilled cartridge, the printer may flag it specifically because it does not recognize the chip or because the maker's software is designed to discourage off-brand ink. This is common and not always a sign the cartridge is bad.

- The printer may warn the cartridge is "not genuine" or "counterfeit" — often you can choose to continue.
- A refilled cartridge keeps the old chip, so its ink-level reading will be wrong — that is expected.
- Some printers, especially HP+ models, will flatly refuse non-genuine cartridges by design.
- If a third-party cartridge simply will not work, the maker's ink policy may be the reason, not a defect.

> **WATCH OUT**
>
> Printer makers walk a fine line between warning you and blocking you. If an off-brand cartridge is being refused outright, that is usually the printer's ink policy at work — and whether to fight it, switch cartridges, or rethink the printer is a good thing to talk through before spending more on ink.

7 The Firmware "Dynamic Security" Trap

Some printers, HP's in particular, receive software updates that tighten which cartridges they accept — a feature HP calls "dynamic security." A cartridge that worked last month can suddenly be rejected after an automatic update, which feels exactly like a cartridge going bad but is not.

- If a once-working third-party cartridge suddenly stops, a firmware update may have blocked it.
- This has been the subject of real controversy and even lawsuits; you are not imagining it.
- Genuine cartridges are unaffected by these updates.
- Managing firmware settings to avoid this is possible but fiddly and model-specific.

> **WATCH OUT**
> Letting a printer update its own firmware automatically is usually fine, but on printers with this cartridge-blocking behavior it can suddenly lock out ink you have already bought. If this has bitten you, it is worth a conversation about settings rather than simply buying more cartridges.

8 Check the Cartridge Really Isn't Empty

Of course, sometimes the simplest explanation is right and the cartridge genuinely is out of that color. A quick nozzle check settles it — it shows which colors are actually printing.

1. From the printer's Maintenance menu, print a "nozzle check" or "print quality" page.
2. If a color's block is missing entirely, that cartridge may truly be empty — replace it.
3. If all colors print but the warning persists, the issue is recognition, not ink.
4. Keep the nozzle check to compare after any change.

9 When the Chip Is Truly Dead

Occasionally a cartridge's chip genuinely fails, and no amount of reseating or cleaning will make the printer read it. In that case the cartridge, full or not, has to be replaced — the ink inside is sadly unreachable without a working chip.

- A brand-new genuine cartridge that is never recognized may have a faulty chip — return it under warranty.
- A refilled cartridge with a worn chip may simply be at the end of its useful life.
- If one specific slot never reads any cartridge, the problem may be the printer's contacts, not the cartridge.
- Keep your receipt and packaging in case a genuine cartridge needs returning.

GOOD TO KNOW

If every cartridge you try in one particular slot gets rejected, the trouble is more likely the printer's own contacts or carriage than a run of bad cartridges. That points to a repair question rather than another trip to buy ink.

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10 What the Different Warnings Actually Mean

Printers use several similar-sounding messages, and knowing which one you are seeing points you to the right fix. They are not all the same, and some are far less serious than they sound.

The message	What it usually means
Cartridge low	Still has ink; you can keep printing for a while

Cartridge empty	May still have ink; often a chip estimate, not a measurement
Cartridge problem / missing	A recognition or seating issue — reseat and clean contacts
Non-genuine / counterfeit	An off-brand chip; often you can choose to continue
Incompatible cartridge	Wrong number for this model, or blocked by firmware

If the message is "low" or "empty," try simply continuing — there is often plenty of ink left. If it is "problem," "missing," or "incompatible," the reseating and contact-cleaning steps are your path, not a new cartridge.

11 When the Carriage Won't Move to Reach the Cartridge

On many inkjets the cartridges ride on a carriage that slides to the center when you open the door, so you can reach them. If it will not move — or an error says the carriage is jammed — you cannot reseat anything until that is freed.

1. Turn the printer off and back on; the carriage often re-centers itself on startup.
2. With the printer on and the door open, gently check for a scrap of paper or packing material blocking the carriage.
3. Remove any obstruction you can clearly see, without forcing the carriage.
4. Close up, let it reset, then open again to reach the cartridges.

> **WATCH OUT**
>
> Never drag the carriage hard across the printer by hand — you can damage the belt that moves it. Clear visible obstructions gently, and if it still will not budge, stop and get help rather than forcing it.

12 Store and Handle Cartridges Properly

How cartridges are stored and handled before they go in affects whether the printer accepts them cleanly. A little care here prevents many recognition warnings.

- Keep spare cartridges sealed in their packaging until you need them.
- Store them upright, away from heat and direct sun, so the ink does not dry or leak.
- Handle a cartridge by its body, not its gold contacts or nozzle strip.
- Install a cartridge soon after unwrapping — an exposed cartridge can dry out and then read as faulty.

> **GOOD TO KNOW**
>
> A cartridge left unwrapped on a shelf for weeks can dry at the nozzles and then get flagged the moment you fit it — which looks like a dead cartridge but is really just one that was left open too long. Opening a fresh one only when you are ready to use it avoids this.

13 Buy Ink So This Happens Less

A few habits around buying and fitting ink head off most false warnings before they start.

- Buy from reputable sellers to avoid counterfeit cartridges, which trigger warnings and can leak.
- Check the cartridge number matches your exact printer model before buying.
- Fit cartridges with clean, dry hands and remove all protective tape.
- If you print a lot, consider a refillable tank printer, which sidesteps cartridge chips entirely.

14 When to Call Bill

Clearing a stubborn “replace cartridge” warning is usually a matter of reseating, a gentle contact clean, and a restart — and this guide gets most people there. But cartridge chips, firmware lockouts, and the maker's ink policies can turn a simple ink change into a maze, and there is no reason to keep buying cartridges while you guess.

I will find out whether it is a reading hiccup, a chip problem, a firmware lockout, or a genuinely empty cartridge, clear it, and help you decide the cheapest honest way to keep the printer fed — including whether a tank printer would save you money over time. No more flashing warnings over a cartridge that is perfectly full.

- The warning will not clear no matter how you reseat or clean the cartridge.
- A once-working cartridge was suddenly rejected after an update.
- You are unsure whether to keep buying genuine ink or change approach.
- One slot rejects every cartridge — a sign of a printer-side fault.

CHEAT SHEET

Everyday Cheat Sheet

Keep this by the printer. Reseat and clean before you ever buy a new one.

I want to…	Do this…
Clear a false warning	Reseat the cartridge firmly until it clicks, then restart the printer
Fix a recognition error	Gently wipe the gold contacts with a dry cloth, reinstall
Check it's really empty	Print a nozzle check — a missing color means truly empty
Off-brand cartridge refused	Choose "continue" if offered; some printers block non-genuine ink
Suddenly rejected after update	Firmware "dynamic security" may have blocked it — ask before rebuying
Still won't read	One slot rejecting every cartridge points to a printer fault
Get help	Call Bill: (330) 200-8042

BEFORE YOU GO

A Note From Bill

A quick note from Bill. I write these guides to make home tech a little less frustrating, and I do my best to keep every step accurate and up to date. Still, every home, device, and setup is a bit different, so I can't promise a guide will match yours exactly or fix your particular problem. These guides are for general information only — they're not professional, legal, or financial advice, and they don't replace your device's own manual or the manufacturer's instructions. Please go slow, use your own good judgment, and use everything here at your own risk. If a step involves electrical wiring, a gas appliance, a water heater, plumbing, or climbing a ladder — or if anything just doesn't feel safe — please stop and call a licensed professional (or give me a call at 330-200-8042). Bill's Home Tech and Bill Davis can't be responsible for any damage, data loss, or injury that results.

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GOOD TO KNOW

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