

## How to Refill HP Cartridge in General

HP Cartridges either comes in **2 Cartridges - Black and Tri-Colour (Cyan, Magenta & Yellow)** type or with **4 individual colour cartridges (Black, Cyan, Magenta & Yellow)**. The 2 Cartridges type majority had Print Head mounted on the cartridge while the 4 individual colour cartridges will have Chip set mounted below the cartridges.

### 2 Cartridges Type – Black & Tri-Colour Cartridges

**Example – HP 60 and HP 61 pictures of the product** as shown below are for illustration, description, comparison, explanation, reference and self-explanatory purpose only.



*Note: The colour chamber location might change during production. To ensure correct colour chamber User need to insert needle and/or toothpick into the respective hole before refilling it. Thus the error and mistake shall be prevented.*

### How to Refill the Black and Tri-Colour Cartridges?

#### Before Refilling the Inkjet Cartridges

- 1) **When User purchased new cartridge from the Original HP** – ensure the **cap or seal is kept for future refilling** purpose. **Do not throw it away**. Otherwise User need to use plastic sheet to tape the Print Head before refilling. **Do not tape it directly over the shining Print Head as the adhesive might damage it.**
- 2) **Prepare a working area cover with old newspaper, in case of any spillage.**
- 3) Ensure the cartridge **is refill, reuse and recycle immediately** once indicate as **“Empty”**. Failing to do so might causes the **internal sponge dried up, unable to absorb and/or crystallise**. Thus the shelf life expired, clog, blocked and/or internal seal damage. Result in **no ink solution flow out or leaking heavily**. User has to scrap the cartridge and to replace new original cartridge for the next recycle purpose.

#### During Refilling Process

- 1) **Remove the HP Label** on top of the cartridge to locate the holes.
- 2) **Black Cartridge** – Locate the hole at the centre of the cartridge for refill.
- 3) **Tri-Colour Cartridge** – Two at the bottom (base) and one at the top of the cartridge form in the shape of triangular. User must ensure the correct colour chamber before refilling it to prevent error and mistake as specified in the notes above.

- 4) If the hole on the cartridge is too small, use the Ring Screw provided in the Nippon-ink Refill Kit set to rim it in order to enlarge the hole. Big enough for the needle to insert and to pump the ink colour solution slowly.
- 5) Nippon-ink ink solution are **packed in vacuum syringe** ready for use with **3 simple Steps – Remove, Insert and Pump (RIP):**
  - a) **Remove sealed Rubber Cap** from the syringe-tapped tip.
  - b) **Insert Needle** onto the syringe-tapped tip, ready to use.
  - c) **Pump the ink solution Slowly** into the correct colour chamber.
- 6) Upon completion, **leave the cartridge upright position for at least half an hour** before removing the tape from the Print Head. Later do a **Simple Test before installing** into the printer.
- 7) **Important Test Procedure** – Remove the tape from the Print Head and clean off any excess ink. Thereafter **lift the cartridge up for about 15 seconds to ensure the ink does not drip continuously like raining**. If such incident happen, please **do not use the cartridge and scrap it immediately**. Replace a new original cartridge before you recycle it. **Slight ink flow out is acceptable**.
- 8) **Must Do Procedure (Important)** - Install into the printer and do a cleaning process to charge the ink. The charging help to **mixed and aligned the ink ions, clear off any air bubbles in the chamber and to remove any excess ink found outside the sponge**. Otherwise User might encounter no ink, missing lines, smudge and/or smear incident.
- 9) **Important Instruction** – **Do not overfill or fill to the top**. The sponge must absorb the ink solution. Any excess ink outside the sponge might cause poor print quality like smudge, smear messy and dirty situation.
- 10) **Recommendation** – **For Nippon-ink Black syringe pump half tube**, balance ink cap back with the rubber stopper i.e. Black tube can use twice. **For Nippon-ink Colour (Cyan, Magenta & Yellow) syringe pump 1/3 (one third of the tube) due to per chamber is only 10 ml**. therefore colour tube can be used 3 times per tube.
- 11) To understand better about Nippon-ink Refill Kit Set premium, benefits and advantages, please refer to the comparison on Nippon-ink Refill with Others for your reference and self-explanatory on URL: <http://www.nippon-ink.com/ezfiles/g-cap/img/img/42579/RefillInkKitSetComparison.pdf>

#### 4 Individual Colour Cartridges – For Black, Cyan, Magenta and Yellow.

**Example – HP 564, HP 920, HP 940 etc. pictures of the product** for illustration, description, comparison, explanation, reference and self-explanatory purpose only.

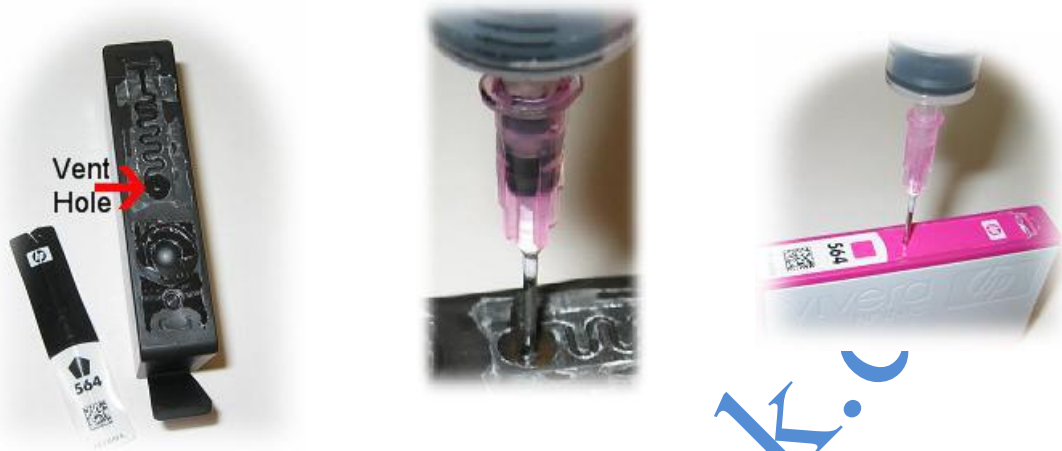
#### How to Refill each individual Colour Cartridge?

##### Before Refilling the Inkjet Cartridges

- 1) **When User purchased new cartridge from the Original HP** – ensure the **cap or seal is kept for future refilling** purpose. **Do not throw it away**. Otherwise User need to use plastic sheet to tape the Print Head before refilling. **Do not tape it directly over the shining Print Head as the adhesive might damage it**.
- 2) **Prepare a working area cover with old newspaper, in case of any spillage**.
- 3) Ensure the cartridge **is refill, reuse and recycle immediately** once indicate as **“Empty”**. Failing to do so might causes the **internal sponge dried up, unable to absorb and/or crystallise**. Thus the shelf life expired, clog, blocked and/or internal seal damage. Result in **no ink solution flow out or leaking heavily**. User has to scrap the cartridge and to replace new original cartridge for the next recycle purpose.

## During Refilling Process

- 1) **Remove the HP Label** on top of the cartridge to locate the holes, pictures as shown below.
- 2) **Black and Colour individual Cartridge** – Locate the vent hole at the centre of the cartridge for refilling as indicated on the pictures shown below.



- 3) If the hole on the cartridge is too small, use the Ring Screw provided in the Nippon-ink Refill Kit set to rim it in order to enlarge the hole. Big enough for the needle to insert and to pump the ink colour solution slowly.
- 4) Nippon-ink ink solution are **packed in vacuum syringe** ready for use with **3 simple Steps – Remove, Insert and Pump (RIP)**:
  - d) **Remove** sealed **Rubber Cap** from the syringe-tapped tip.
  - e) **Insert** Needle onto the syringe-tapped tip, ready to use.
  - f) **Pump** the ink solution **Slowly** into the correct colour chamber.
- 5) Upon completion, **leave the cartridge upright position for at least half an hour** before removing the tape from the Nozzle. Later do a **Simple Test before installing** into the printer.
- 6) **Important Test Procedure** – Remove the tape from the Nozzle and clean off any excess ink. Thereafter **lift the cartridge up for about 15 seconds to ensure the ink does not drip continuously like raining**. If such incident happen, please **do not use the cartridge and scrap it immediately**. Replace a new original cartridge before you recycle it. **Slight ink flow out is acceptable**.
- 7) **Must Do Procedure (Important)** - Install into the printer and do a cleaning process to charge the ink. The charging help to **mixed and aligned the ink ions, clear off any air bubbles in the chamber and to remove any excess ink found outside the sponge**. Otherwise User might encounter no ink, missing lines, smudge and/or smear incident.
- 8) **Important Instruction** – **Do not overfill or fill to the top**. The sponge must absorb the ink solution. Any excess ink outside the sponge might cause poor print quality like smudge, smear messy and dirty situation.
- 9) **Recommendation** – **For Nippon-ink Black syringe pump half tube**, balance ink cap back with the rubber stopper i.e. Black tube can use twice. **For Nippon-ink Colour (Cyan, Magenta & Yellow) syringe pump 1/3 (one third of the tube) due to per chamber is only 10 ml**. therefore colour tube can be used 3 times per tube.
- 10) **To understand better about Nippon-ink Refill Kit Set premium, benefits and advantages**, please refer to the comparison on Nippon-ink Refill with Others for your reference and self-explanatory on URL: <http://www.nippon-ink.com/ezfiles/g-cap/img/img/42579/RefillInkKitSetComparison.pdf>

## How to Default and/or Reset the Software after Refilling the Cartridge?

**The methods and procedures stated below used as guideline for User reference only.**

Nippon-ink unable to provide guarantee that it shall work because the original tend to modify, change, amend, update, upgrade, edit, add, remove and/or relocate the technological software program (hidden) plus it varies from individual brands, type and model respectively. Therefore it does not have any one solution to fix all problems. **User must agree and accept to use it as a trail and error at his or her final discretion, calculated risk, personal liabilities and full responsibilities.** Nippon-ink shall not be responsible and/or liable to any User for using the methods and procedures as provided and stated below. It subject to changes without any advance notices given.

*Note: User must refill the cartridge before ink run out, empty or dried up before the system cut off by the software program and/or Print Head been "Burned Out" that cause the holes been fused together result in clog and blockage situation.*

**Previous Old Method and Current Design Procedures.**

- 1) **User need to press and hold for 10 to 15 seconds** on the button of the On/Off Switch; Feeder Switch; Resume / Cancel Button or Reset Button that are available on the machine.
- 2) **User need to perform the following steps as indicated below:**
  - a) **Step 1** - Go to **C:\Program Files\HP** and Delete all the files in this Folder.
  - b) **Step 2** - Go to **Start >> Printer and Faxes** and select your current printer. Point your mouse cursor to the printer and then right hand click to locate >> **Properties >> Ports and Uncheck to "Enable bi-directional Support"**.
  - c) **Step 3** - Go to **Start >> All Programs >> HP >> "Your Printer Name" >> then Below "Add a device option"** delete all the things except Uninstall option.
  - d) Ensure you refill your ink cartridge before the ink is out and/or indicated as **"Empty"**.
  - e) The actual HP Driver Files are located at >> **C:\WINDOWS\system32\spool**. Therefore your printer still able to operate with it basic applications minus off the HP Solution Centre program.
- 3) User need to - **Disable Ink Checking - Digital Imaging Software - Automatic Software Updates**. User can try to experiment on those item been disabled and not to disable if you intend to keep the application software. It up to User's preferences needs and wants.
  - a) **Solution 1** - Go to **"Run"** and enter Configuration – go to Services Tab - Uncheck - HP digital services, maybe another HP\*\*\*\*\* (cannot remember the actual name).
  - b) Later go to **"Control Panel"** look for **"System & Security – Administrative Tools"** Then click **"Services"** Locate HP Cue Discovery Services follow by Right Hand Click from the mouse and select **"Disable"** by locating HPQCXS08. Then Right hand click from the mouse to **"Disable"** it.
  - c) Reboot your computer system. Upon completion your ink monitor is now been disabled and you unable to see the ink level from your computer. When you click on the HP Solution Centre, you will receive a message that your system is incomplete or error in your system that you need to reinstall.
  - d) **Solution 2 – To restore the Ink Level, go to HP URL:**  
<http://h10025.www1.hp.com/ewrf/wc/document?lc=en&dlc=en&cc=us&docname=c01569439&product=467982> and/or [http://www.fixya.com/support/t1664150-problems\\_refilling\\_hp60\\_cartridge](http://www.fixya.com/support/t1664150-problems_refilling_hp60_cartridge) dated 21 March 2011.
- 4) **This reset method might work on some HP printer (By Trail and Error method).**
  - a) **Required 2 Others and 1 Refilled Cartridges** – Put in the refill cartridge to allow the printer to recognise and print the alignment page. Then remove it and replace by the First Other cartridges to allow the printer to recognise and print the alignment page.
  - b) Remove the First Other cartridge and replace it with Second Other cartridge to allow the printer to recognise and print the alignment page. Now remove the Second Other

cartridge and to replace back your Refill cartridge. It will print the alignment page and estimated the ink level as “Full”.

- c) The refill cartridge can print even when the ink indicator level shows low or empty.
- d) **Reason** – Suspect the memory able to recognise 3 times only, thereafter it might goes back to full level after the third try.

**5) User needs to disconnect the computer system and isolate the printer.**

- a) Disconnect all the cables from the computer to the printer and remove all the accessories like camera, flash card, memory card etc.
- b) Connect the printer power cord directly to the power socket and open the cover to remove the cartridges. The cartridge position might lock at certain location that you need to shift it out slowly in order to remove the cartridges. Then close the cover and off the printer.
- c) Once the printer is off remove the power cord from the socket and/or machine. Wait for at least 1 to 3 minutes before switching on the printer. The purpose is to remove off all the memory contains inside the machine.
- d) Reconnect the power cord and switch on the printer. You might receive an error message or “*Missing Cartridges*”. Open the cover and replace the cartridges back to the printer.
- e) Connect the printer back to your computer system. It might work, if not off and restart your computer and printer.



**6) User needs to tape some contact points located at the cartridge Print Head location.**

- a) Cut an adhesive tape to blank off the contact points on the Print Head at the Right hand side, second column contact pads. Then put the cartridge into the printer to allow it to recognise and print the alignment page. Later remove the cartridge.
- b) Do the same method again by blanking off the contact points on the Print Head at the Left-hand side, second column contact pads. **Do not remove the previous tape that blank off on the Right hand side.** Reinstall the cartridge to the printer to recognise and print the alignment page. Later remove the cartridge again.
- c) Now remove all the adhesive tape from both sides. Reinstall the cartridge back into the printer. The ink level should show full.
- d) If the system does not work please check that the tape are properly covered the second column and does not affect or cover other pads. If Yes, please repeat the method as stated above from item 6 (a) to (c).

- e) If after checking and confirmation it still unable to work please try the method stated on item 6 (a) and change the item (b) to Left hand side last column contact pads. While the item (c) remain as before.



### Precaution and False Alarm on Cartridge Problem

- 1) **Overfill Problem** – Different cartridge size and number has its own capacity limit. Example HP 60 and HP 60 XL is the same cartridge except the ink capacity inside the cartridge is different. Therefore User cannot refill the ink capacity for HP 60 as the same for HP 60 XL. Thus the excess ink might leak and smear all over or drip out continuously when the tape been removed from the Print Head. **Reason** – HP 60 the sponge is smaller in capacity than HP 60 XL as indicated on the picture shown above.
- 2) **Ink Level unable to Monitor and View due to Non-Transparent Casing** – User need to gauge, estimate and to check physically on every cartridge for the ink level. Either the user uses weight and/or shakes it to estimate the ink amount in the cartridge.
- 3) **Print Head Clog and Blockage Problem** – Some might claim that the clog causes by the Compatible and/or Refill ink residue. **Why 100% using Original cartridges the Print Head still Clog and blocked?** To proof the case, let do a simple experiment – Open any brand of A4 paper that you can find. Take at least 25 sheets and use a cloth to wipe it. Upon completion, **check the cloth and you will discover many tiny fibres struck on the cloth, why? Imagine the Print Head wipe from left to right at the top position till it ended. Worst the Print Head is built-in and unable to remove.** For use on Brother's and Epson's models are Built-in while Canon's is removable. Whereas HP, Lexmark and some Canon's model are located at the cartridge. **User needs to do simple periodic maintenance.**
- 4) **Unable to Default the Software Program after Refilling the Cartridge** – The **program are set by the manufacturer** and you unable to change. Worst the printer varies from brand type and model that it was not standardised.
- 5) **Original Claim to void User Warranty for using Refill Ink Cartridge** – User can check with **CASE and Ministry of Trade and Industries (MTI) on the Anti-Competition Acts 2004 Division 2, Section 34 Clause 1 to 5** stipulated at the MTI web at [www.mti.gov.sg](http://www.mti.gov.sg) for your reference and self-explanatory. Nippon-ink unable to provide any legal advice.
- 6) **User has limited knowledge on the Printer Operation** – With the patent restriction, User has to change their mindset in order to **gain benefit in the Cost Saving** of using Nippon-ink Refill Ink Kit set and other advantages plus to save the earth through recycling process.
- 7) **User claim that Refilling method is Messy and Dirty (Troublesome)** – As explained above Nippon-ink has **3 simple Steps – Remove, Insert and Pump (RIP)** at items 4 or 5 of the Refilling method. For better understanding on Nippon-ink Refill Kit Set benefits and advantages please refer to the Comparison at URL:

- 8) **User not IT Savvy (Ordinary User only) and unwillingly to Try due to Fears, Doubts and Uncertainties** – The Original might use various strategies to discourage, stop, prevent, distort, restrict, reduce, minimise, set barrier and/or obstacles in the open market competition. Such Fears, Doubts and Uncertainties tactics generated shall affect those small company and player, especially when User has limited product knowledge.

**Refill Methods for Other Models**



*The Refill ink and Cleaning method were used as demonstration, illustration, comparison and explanation purpose for User to understand, act as guideline, reference and DIY (Do-It-Yourself). The respective Original OEM Brands did not support, approved nor endorsed it. User is doing at his or her own risk and fully (100%) responsible (take ownership) for whatsoever decision and/or action been taken. Nippon-ink supply the Ink Solution with accessories is bound by limited liability due to certain constraint, limitation and/or restriction beyond Nippon-ink control. Nippon-ink cannot guarantee the method can work successfully as the manufacturer might change, modify, amend, delete, add on, eliminate, remove, block, prevent, stop, restrict and/or distort the system respectively without any warning and notice given. Nippon-ink unable to provide any legal advice. All other Rights reserved.*

**Why Pay More? You Can Save & Provide Green Environment**  
**Support - Purchase – Use Nippon-ink Refill & Cartridges.**





**Disclaimer Clause:** All Brand Name, Logo, Trademark, Part Number, Picture, Design, Patent, Copyright and Technology belong to the respective owners in charge. It use for descriptive, illustrative, comparative and explanation purpose only. All respective brands of empty cartridges are recycled, reuse and/or remanufacture by either End-User (DIY) or through Third Parties. Nippon-ink provides the Ink solution only. This is not a genuine Original cartridge and it does not belong to any brands like Brother, Canon, Dell, Epson, HP, Lexmark, Minolta, Ricoh, Panasonic, Samsung and Xerox etc. Nippon-ink and G-Cap is not related, associated, affiliated nor supported and/or endorsed by any of the brand names specify above. All other Rights reserved.

www.nippon-ink.com

www.nippon-ink.com