

REFILLING THE CANON PG-40 & PG-50 INK JET CARTRIDGES.

NOTE: When removing cartridge from printer make sure not to touch the contact points or print head of your cartridge.

1. Remove cartridge from printer and rest on a secure non-static surface.



2. Remove top label. Take a box cutter or similar style razor (Exact as an example) and wedge underneath label to raise the top corner.



3. Peel back the label until it is completely off the cartridge. This will expose the vent hole of the cartridge



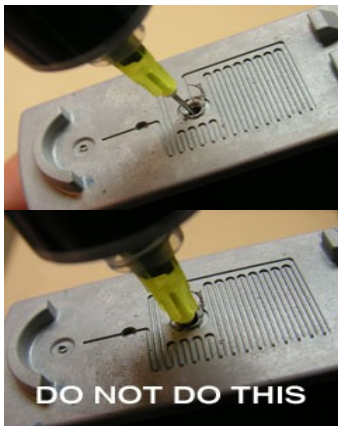
4. Take twist tool (eyelet screw is included in kit. a drill bit will also work but is most certainly not required.) and enlarge the cartridge vent hole. The eyelet screw which we include with our kits is an excellent size for a 20g blunt needle as you will see in step 6.

5. Fill injector with 10cc of black ink.

Once a cartridge is declared empty by a printer the ink level indicator for that cartridge will be disabled. Though the first refill will be a full refill as the ink level indicator will state ink level is low (or out) the refills that follow will vary. It is good to start with an amount such as 10cc which the cartridge should readily accept and add more if needed.



6. Insert needle into vent hole down into cartridge sponge material. Do not insert all the way into the cartridge. Note on the image to the right that there is adequate room for air to get out of the cartridge on the side of the needle. Slowly inject ink into cartridge. The slower the better. As soon as you see any ink coming from the fill hole stop injecting ink. If cartridge takes full 10cc you can repeat the process starting with additional 8cc. Cartridges can take as much as 18cc based on average refills when cartridge is just about out of ink.



If you are weighing your cartridge to determine amount of ink in the cartridge a good place to stop on a PG-40 is somewhere around 50 grams.

New, these cartridges are a total weight of 45 grams with ink The sponge material will hold more ink then is originally in the cartridge.

Check bottom of cartridge to make sure there is no ink at the print head level. If there is ink on the print head blot with coffee filter or non abrasive cloth. Do not scrape cartridge, just blot.

Note: If you have correctly filled the cartridge you should not see any ink at the bottom of the print head.

Insert cartridge back into printer and run a single head cleaning. It is also recommended that you perform the printers standard print head alignment same as when you install a new ink jet cartridge

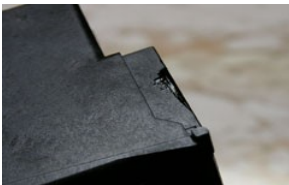


ADDITIONAL NOTES:

DO NOT PUT TOP LABEL BACK ON.

It is recommended that you do not replace the original top label of the cartridge. Incorrectly attaching the label to the top of the cartridge can prevent ink from coming out of the cartridge.

The PG-40 & PG-50 tend to collect ink on the sides of the cartridge during normal use. The cartridge shown on the right is OEM cartridge just after first use and before any refill. Ink builds up quickly in this area and should be cleaned off each time the cartridge is removed from printer. Gently wipe off ink using a paper towel.



Refilling the Canon 41 51 FINE & 52 FINE ink jet cartridges

NOTE: When removing your cartridge from the printer make sure not to touch the contact points or print head of your cartridge.

1. Remove cartridge from printer and reset on a secure non-static surface.



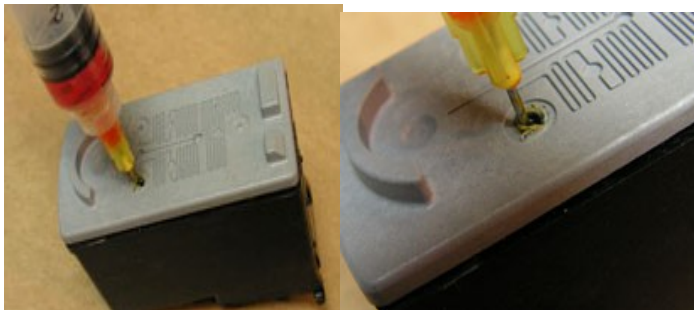
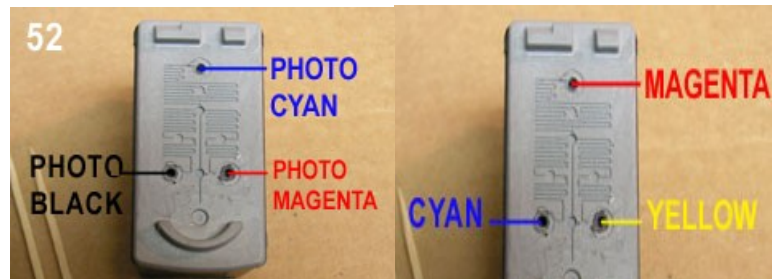
2. Remove top label. The easiest way to remove the top label is to take a box cutter or similar style razor (Exact as an example) and wedge underneath label to raise the top corner

3. Peel back the label until it is completely off the cartridge. This will expose the vent holes of the cartridge.



4. Take twist tool (eyelet screw, drill bit) and enlarge the cartridge vent holes. Or you can use the drill and the drill bit, just make sure that the drill bit just a little bigger than needle. The eyelet screw which we include with our kits is an excellent size for a 20g blunt needle

5. Locate the color you wish to refill. Take injector and attach blunt needle to injector. Fill injector with desired amount of ink (See Chart #1 below for details)



Insert needle into vent hole down into cartridge sponge material. Do not insert all the way into the cartridge. Note on the image to the left that there is adequate room for air to get out of the cartridge on the side of the needle. Slowly inject ink into cartridge. The slower the better.

Note: Each time the cartridge is removed from the printer an "empty cartridge" message appears and a blinking amber light will come on, on the printer. Holding the paper feed button down for 3-5 sec. will allow you to override the counter.

CHART #1 - Refill quantities

The refill quantities are not exact. This is due to the fact that there will not be equal amounts of ink left in the cartridge every time you refill. As an example if you were to print a great deal of green logos you would have less Cyan and Yellow than Magenta. The amounts below were the average amounts filled on 6 consecutive refills refilling 6 different cartridges (3 #51 cartridges and 3 #52 cartridges) for a total of 36 complete cartridge refills. (1ml = 1cc)

Canon #51 FINE Cartridge

Cyan 2.5 ml (max 3 ml)
Magenta 3.0 ml (max 3.3 ml)
Yellow 2.5 ml (max 2.8ml)

Canon #52 FINE Cartridges

Photo Cyan 3.0 ml (max 3.2 ml)
Photo Magenta 2.5 ml (max 2.5 ml)
Photo Black 2.5 ml (max 2.6 ml)

Note: It is not required to replace the top label of the cartridge. It is actually beneficial to have the top label off the cartridge as this prevents blocking the air vent at the top of the cartridge.