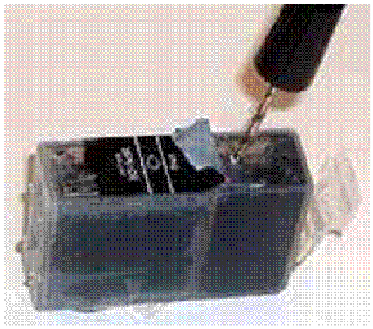
Step-by-Step Instructions

(PRINT this set of instructions, to follow every time you refill your cartridge)

CANON CLI-221BK Black Dye, CLI-221Y Yellow, CLI-221C Cyan, CLI-M Magenta and CLI-Grey

Canon PGI-220BK Black Pigment



Black & Color Cartridges

Items needed: gloves, hand-drill, plugs, black dye, cyan, magenta, and yellow inks, Use black pigment for the PGI-220BK Black pigment, paper towels, review hints & tips and check list.

Syringe: Attach needle tip (located inside station # 4) to the syringe tightly. Unscrew lid on ink bottle. Puncture silver seal with needle tip making a small hole in the center of seal. Using the correct color pull the correct amount of ink into the syringe. Rinse syringe and needle tip after every use and before using syringe

with another color. Rinse syringe and needle tip with water until the water runs clear.
Note: After refilling, your printer will read the cartridge as empty. You may have to hold down the paper feed button for 5 seconds to override the ink level counter. Each time the cartridge is removed from the printer an "empty cartridge" message appears and blinking amber light will come on. Holding the paper feed button (OK button/or Stop/Reset Button) down for 5 sec. will allow you to override the counter. A chip resetter is also sold separately: Call 559-439-5850. The chip resetter will make refilled cartridges read as new.

1. Cover the outlet hole with the orange outlet seal that came with the cartridge (a rubber band will hold this in place) or with your finger over the outlet port while wearing latex gloves or with some vinyl tape to prevent ink loss during refilling. You can hold and push down against a stack of napkins or paper towels so the ink will not be able to flow out until you plug the cartridge.

2. Use the hand drill located in your parts pack to make a small filling hole. Drill a small hole into the reservoir side of the cartridge. Drill fill hole as shown in picture

3. Slowly release thru the syringe up to 9 ml. of Black Ink or up to 4 ml of Color Ink slowly into the filling hole until the chamber is almost full.

4. Seal the hole using a plug located in your parts pack. (You can also use a glue gun or candle wax to seal the hole) Put your finger on the plug and push until it is seated well in the hole. This hole must be sealed air tight or all your ink will drip out.

5. Remove the orange outlet seal (or your finger, or the vinyl tape) from the outlet hole.

6. Replace the cartridge and run 1 - 3 cleaning cycles as per printer instructions. Or print 2 pages at this test site: http://www.inkonline.net/support/colorinktest Color Ink Test
http://www.inkonline.net/support/blackinktest Black ink test

7. Troubleshooting: If you have trouble getting your cartridge to print and the sponge side of the cartridge looks dry then drill a hole (or burn a hole with a hot paper clip) into the top of the sponge side of the cartridge. Stick the syringe needle into the sponge and fill with ink. You do not need to seal this hole.

If you are filling cartridges to use later, leave the orange outlet seal rubber banded onto the cartridge. This will prevent your sponge from drying out.

On the CLI-221 and PGI-220 series cartridges, there is an electronic counter embedded in a small computer chip. This counter starts at a high number and decreases for every character printed. Eventually, the counter reaches zero. At this point, an error message is generated by the printer. If you click "OK" to the error message, the printer will continue to print. If you have trouble getting your printer to print because it thinks the cartridges are empty. . Reset the printer by pushing the paper feed button or OK button or Hold the Stop/Reset button in for 5 seconds until the light goes out. Note: this will not reset the ink level back to full but it will let you print.
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