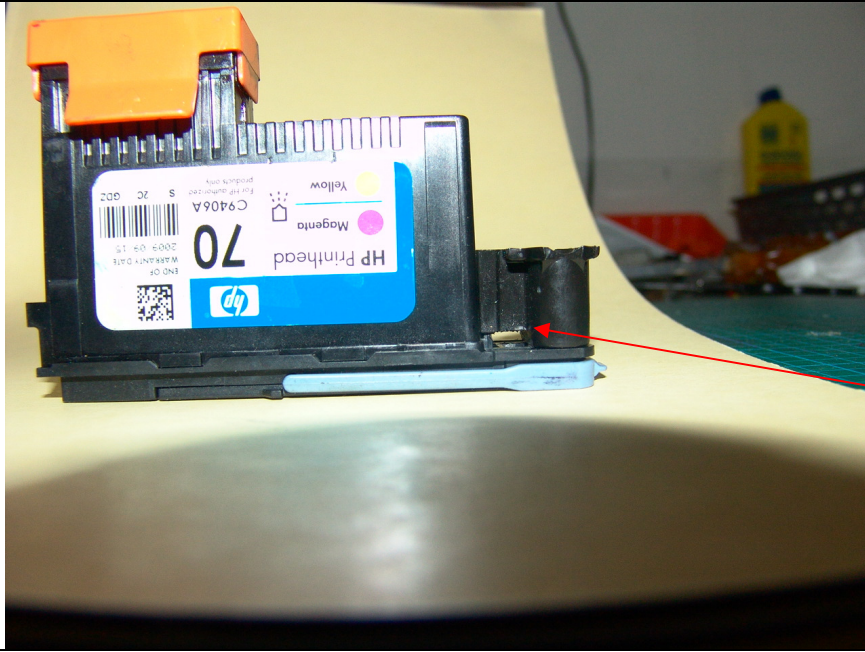
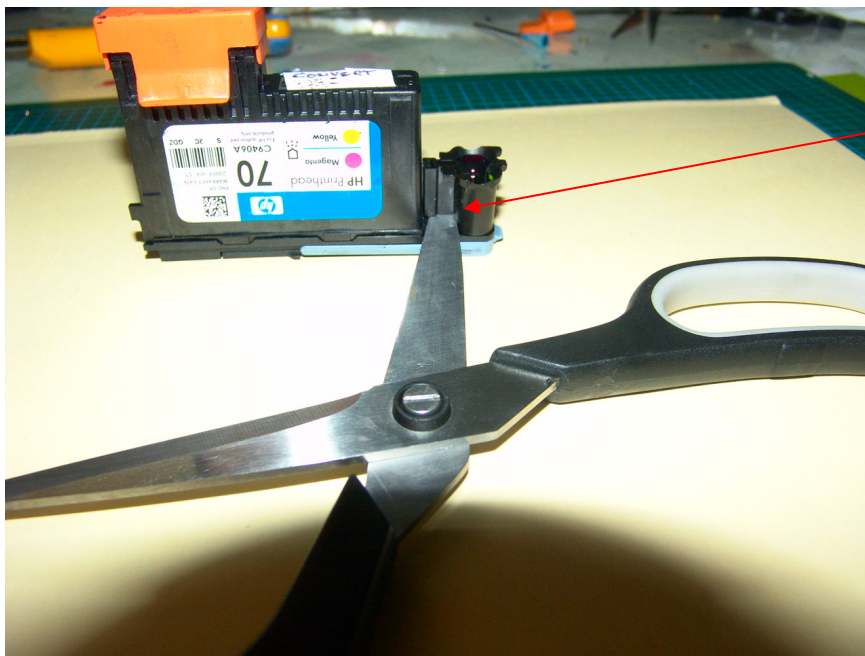


Cleaning, or simply refilling a HP-70 printhead



The only delicate part of this cleaning job is not to loose the two steel balls that are located under the cap you are just about to remove. These balls are there to control the ink flow. You must continuously take great care not to loose one.

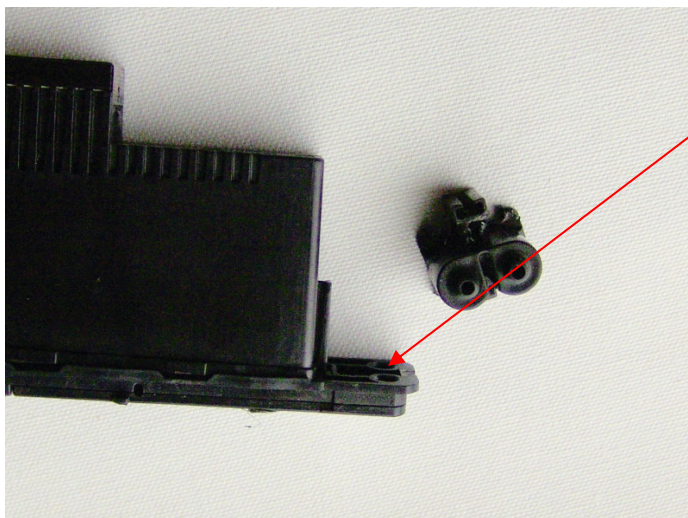
1 Place the printhead upside down and locate this hole.



2. Insert one blade of scissors as far as you can into that hole, and twist counterclockwise, to unclip the the plastic cap (containing the “ink inlet needles”) from the head itself ; you will hear a clear “click” indicating that it is unclipped.

3. **Gently** slide up the cap to remove it completely

Work slowly, preferably in a large pan. Be **very careful** when unclipping this assembly, because the two very small steel balls are located underneath : each one in its hole of the cartridge cover, just where the assembly clips in.

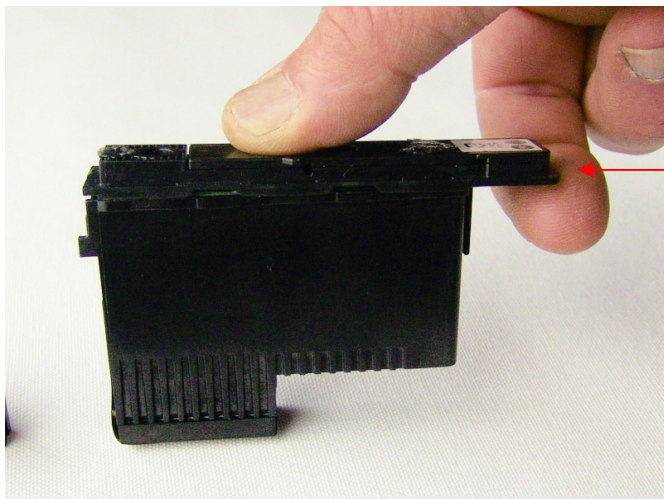


4. Once the cap is removed, wipe off the excess of ink in the head cover holes to make sure that the steel balls are still in there. Watch : they may stick on the paper towel...

If one of these balls comes out, just drop it back in its hole.



5. Blocking the steel balls holes with your index, thus retaining them in place, turn the printhead upside **up** .



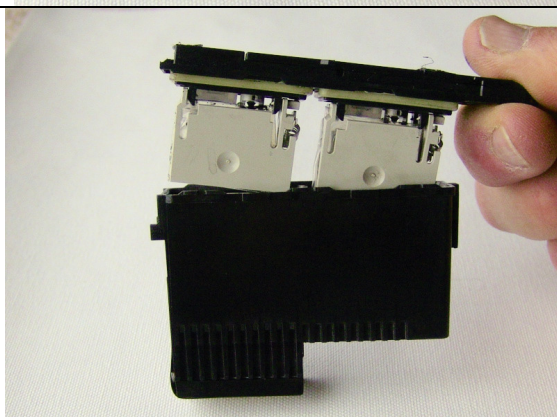
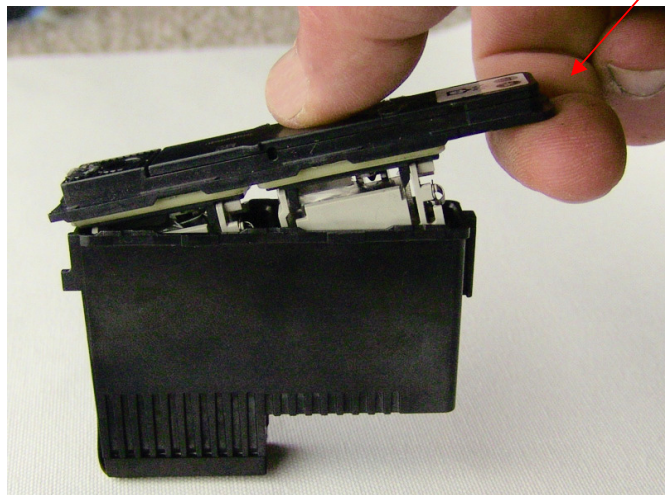
6. Remove the assembly completely by prying it a little, **while continuing to secure the steel balls in place with your index** :

Pry the top cover with two fingers. It is just fitted tight, no screws no glue. Simply pry upward with your finger as shown.

While doing this, use your finger to **block the two holes that contain the small steel balls**.

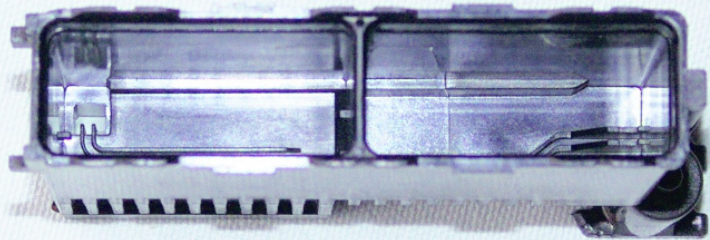
Put the cover assembly upside down on the table so the steel balls won't fall out of their holes, while cleaning the printhead. Check again that the steel balls are still there.

At this point, if you just wanted to refill the printhead, go to step 10.

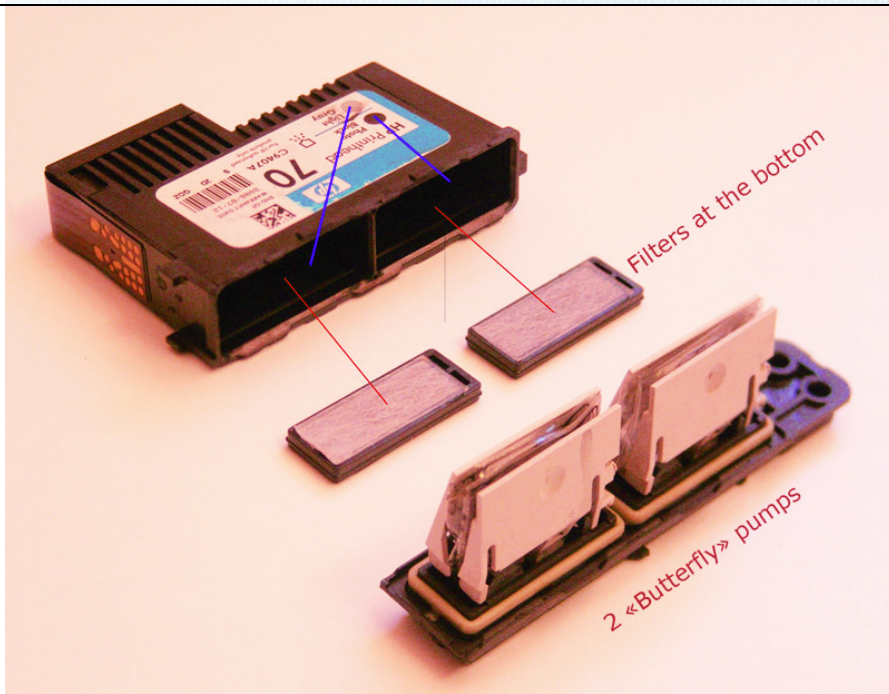


7. Put the cover assembly upside down so the steel balls won't fall out of their holes. Check again that the steel balls are still there.

At this point, if you just wanted to refill the printhead, add 4ml in each tank and go to step 11 "Closing the printhead".



8. This picture shows the inside of the printhead, except that here the paper filters have been removed. Yours will have a paper filter in each tank.



9. To clean the head, you will need gloves, a bottle of alcohol, and one gallon of distilled water.

- Rinse the filters under water tap (not necessary to use distilled water) on both sides, until it does not color water anymore. Dry with paper towel
- One at a time, fill each printhead reservoir with distilled water, block it with the palm of your hand (wearing gloves of course), shake rapidly for 8 to 10 seconds and empty it. Repeat until water is almost clear (lightly coloured).
- After having cleaned both sides, fill them with alcohol and let soak for one night.
- Empty the reservoirs from their alcohol and repeat step 2 to see if you can still remove some ink.

10. Fill each reservoir with 4 ml of the corresponding ink color.

12. Put back the mechanism in place ([cover/butterfly pump](#) assembly) : gently but firmly press on the cover plate so the silicon seal all around will clip tight inside.

Note that closing the printhead creates a little air pressure inside so the head will leak for a while. This is normal. Simply wipe with a thick paper towel until the excess of ink is absorbed. Once the leak is light, proceed to next step.

13. Once again, place the printhead upside down, and slide in place the plastic cap wich contains the “ink inlet needles”. For the last time, check for the presence of the two steel balls. Press firmly on the plastic cap and push it until it clicks.

14 Wipe off the excess of ink from the nozzle band, until the leak is very light. Then you can reinstall the printhead in the printer.

15 .You will now have to print a few pages full with only this printhead two colours before the printhead is clear of any alcohol left inside and re-primed properly.

Doing some clean cycle will also help and accelerate the reprime process. To make that “waste printing” efficient, download our [“Colour test sheet”](#) from our web site, open it in Photoshop, display only one of the two printhead colours and resize that colour patch to full page. Of course you can use standard cheap paper to print those pages, testing with a glossy photo paper from time to time to see if printing becomes better.

Note also that even if your print head shows light lines on the test print, it is most probably still capable of printing with excellent results : when the test page is printed, the NEDD does enter into action, so you have a raw print result; to see the real thing, with the NEDD doing his job, check, download and print our.

Problem ? Something not clear ? Please email us for [support](#) at