



The CartClip® Activator > fig. A

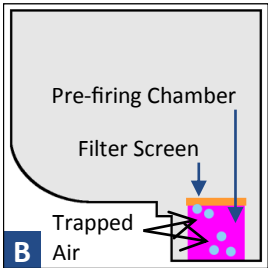
The CartClip® Activator set has been designed to be the perfect pre-firing chamber priming tool for ink jet cartridges. The following functions are possible:

- Removing trapped air bubbles from the pre-firing chamber.
- Filling the pre-firing chamber with solid air free ink without using expensive vacuum filling equipment.

User Instructions for: 40100046, CartClip® Activator for Hewlett Packard 78/23/17/41

Content: 3 Clips - one for each colour (C, M, Y) with seal; 3 syringes (1 ml)

The sealing gaskets of the syringes are liable to abrasion. The syringes are consumable supplies which can be ordered separately from us.

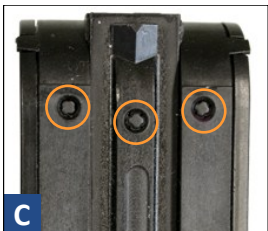


The "Pre-Firing Chamber" > fig. B

The pre-firing chamber is the area between the filter screen and the nozzles, this area must be solid ink with no air bubbles present to enable the mechanics of the cartridge to function. The ink transfer from the foam to the nozzles heaters is made inside.

What happens if the "Pre-Firing Chamber" contains air bubbles?

The first and most obvious signs that there are air bubbles in the pre-firing chambers are the appearance of white lines in the print or in extreme cases, complete ink starvation to a specific colour. This is due to the air bubble blocking the path of the ink to the nozzles.



Re-Filling an empty cartridge

- 1) Using a blunt tool to push the three breather plugs into the cartridge body. > fig. C
Optional (if cartridge is older than 48 hours or has minor cross contamination):
 A) Using a syringe and needle with the correct length and deliver 3 ml of warm reverse osmosis water directly above the pre-firing chamber. **DO NOT USE TAP WATER!**
 B) Centrifuge the water out through the nozzles for 5 minutes.
- 2) Place the cartridge into a standard clear Bowajet CartClip.
- 3) Using a needle that is long enough to be directly above the pre-firing chamber *without* piercing the filter screen. Then slowly deliver the appropriate amount of ink (e. g. C6578A 3 x 16 ml).
- 4) Remove the cartridge from the clip and gently wipe the jet plate with a water dampened tissue paper.



Priming a re-filled cartridge

- 1) Place the cartridge into the YELLOW Activator clip.
Note: All steps using the Activator Clip MUST be carried out with the syringe vertical at all times.
- 2) Operate the 1 ml syringe a few times to ensure that the plunger is operating smoothly.
- 3) Fill the syringe with ink to the 0.7 ml mark on the syringe barrel and insert it with the jet plate facing up into the connector of the clip.
- 4) While keeping the syringe perfectly vertical and the syringe plunger between your thumb and forefinger, slowly withdraw the plunger to the 0.8 ml mark on the syringe barrel *and now hold*. You should now see an air bubble slowly growing at the tip of the syringe. > fig. D
 If the air bubble stays still, the syringe plunger should be slowly withdrawn a further 0.1 ml, the aim is to pull the air bubble out so that it floats out through the ink to the syringe plunger. The air bubble can now be seen rising through the ink, with a second following close behind. > fig. E
- 5) This process should be repeated until all air bubbles are removed.
- 6) Slowly deliver the ink from the syringe through the nozzles and *stop* at the 0.2 ml mark on the barrel of the syringe to allow the pressure between the syringe and the cartridge to equally balance out. > fig. F
- 7) Repeat these steps for the remaining colours, but ensure the jet plate is cleaned immediately after removing the cartridge from the clip. Failure to do this may result in cross colour contamination.
- 8) After the cartridge has been re-filled gently press the cartridge onto several damp layers of tissue paper in order to let the cartridge leave a good "foot print".
- 9) Carry out your selected test pattern.



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