

HSAJET[®] Print Cartridge Maintenance & Handling

Inks for HP TIJ 2.5

Inks for industrial
printing markets



Nozzle-to-Paper Distance

One of the most important keys to having crisp, sharp text and graphics is setting the proper nozzle-to-paper distance. HP recommends a nozzle-to-paper spacing of 1.0 mm to 1.5 mm. Higher nozzle-to-paper spacing degrades print quality (fuzzy text), because the ink droplet is less likely to hit the targeted area of the paper.

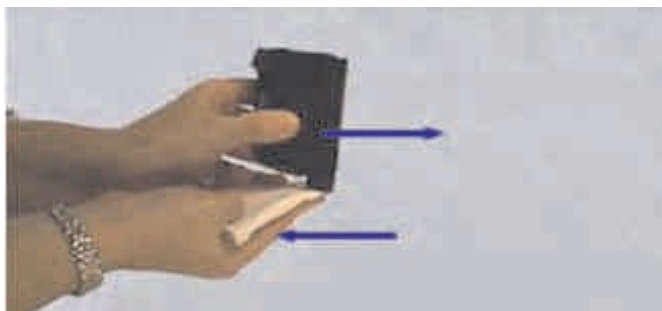
Print Cartridge Cleaning

Wiping:

Another key to maintain good print quality is proper cleaning of the print cartridge. During printing; ink-spray, paper fibers and dust can build up on the print cartridge.

These can eventually degrade the print quality. When this occurs, the print cartridge should be wiped with a wet fiberless cloth.

Wipe slowly across the long-axis with the print cartridge facing down (as shown). Do not apply excessive force, as this could scratch the nozzle area.



A cloth should be :

- ✓ Soft
- ✓ Fiberless
- ✓ Moist with water*

Should not be:

- ✗ Abrasive
- ✗ Made of small fibers
- ✗ Dry or containing
- ✗ Chemical additives

*de-ionized is best, but tap works

The cloth must be soft so that it does not scratch the print cartridge. It should be fiberless because small fibers from the cloth can be left behind and block the nozzles of the print cartridge.

The cloth must be moistened with liquid or it may scratch the print cartridge. Scratches on the print cartridge prevent the ink from coming out of the nozzle straight.

If the ink drops or do not come out of the nozzles straight, they will not land on the paper in the proper place causing fuzzy text.

De-ionized water is better than tap water because tap water contains minerals that can leave behind deposits in the chambers. During wiping the water cleans out the nozzles and the firing chambers.

A small amount of water mixes with the ink in the chambers.

HP Inks

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Purging the Nozzles :

If the print cartridge is left inactive for a period of time, ink may dry in the nozzles. Dried ink clogs the nozzles and causes ink plug. As a result of the ink plug, white streaks will be visible in the printed text or graphic. Printing alone may not remove ink plugs from the nozzles.

To obtain better print quality, purge the ink plug. This is accomplished by wiping the nozzle plate until ink is drawn out and absorbed into the cloth. Then print a few lines of text or graphics at high resolution.

Procedure :

This purging operation as well as wiping the print cartridge with a wet cloth should be done after every extended period of down time in order to prevent unacceptable levels of print quality.

- Wipe the print cartridge with a moist cloth (see wiping procedure).
- Print a few lines of text in a higher resolution (For example 600 x 600 dpi). The higher resolutions (For example 600 dpi) exercise more nozzles and push more ink out.

Storage

Short-term Storage (Less than 2 days)

- Simply leave the print cartridge in the machine, capped or uncapped.
- The next time that the printer is used, the print cartridge may have to be wiped and purged.

Long-term Storage (Greater than 3 days)

- If the printing system has a capping station, just leave the print cartridge capped.
- If the printing system does not have a capping station do the following
 - Keep the print cartridge in an area that is relatively dust-free and that is not too dry, or
 - Place the print cartridge in a Tupperware container with a damp sponge to prevent drying out.
- When the print cartridge is required to be used again the print cartridge may need to be cleaned as instructed earlier.