

## Epson T078 Refillable Cartridges



Important new information is below

Thank you for contacting Tech Support regarding your Epson T078 Cartridges. Our R & D department is currently testing those cartridges. We do not support the refilling of the Epson T078 cartridges at this time. At the bottom of this document we explain why?

**Our suggestion is to buy a set of Epson T078 empty refillable cartridges. We have a combo pack set of cartridges that are refillable with a chip that will automatically reset back to full when the cartridge is refilled. You can refill these over and over again.**

We recommend that you purchase empty refillable cartridges by calling 559-439-5850 or go to our web store:

[http://www.freeink4life.com/store/index.php?\\_a=viewProd&productId=20](http://www.freeink4life.com/store/index.php?_a=viewProd&productId=20)

You can refill them over and over again with our inks. There is a little door on the back, that you open, pour in our ink and then close the door and use.

First buy empties that are refillable and use Black Dye for the T078120, Use Cyan for the T078220, Use Magenta for the T078320, and Use Yellow for the T078420. Also use Photo Cyan which is Light Cyan for the T078520 and Photo Magenta which is Light Magenta for the T078620.

The refill instructions listed below are for these empty refillable cartridges. Our engineers are working on refilling instructions for your original

cartridges and have attached more information for your review below and why you should buy the refillable cartridges and just add ink instead of trying to refill your originals.

## **Epson T078 Empty Refillable Cartridges**

**Refillable Compatible Cartridge: These are easy to refill T078 cartridges**  
**(Note: refillable cartridges come with no ink) (These cartridges have an auto reset chip and do not need a chip resetter) Auto reset means, when the cartridge is removed, refilled, and replaced back into the printer the chip will read full again.**



### **Refillable Cartridge Pack - T078 B, C, M, Y PC, PM (All six (6) cartridges)**

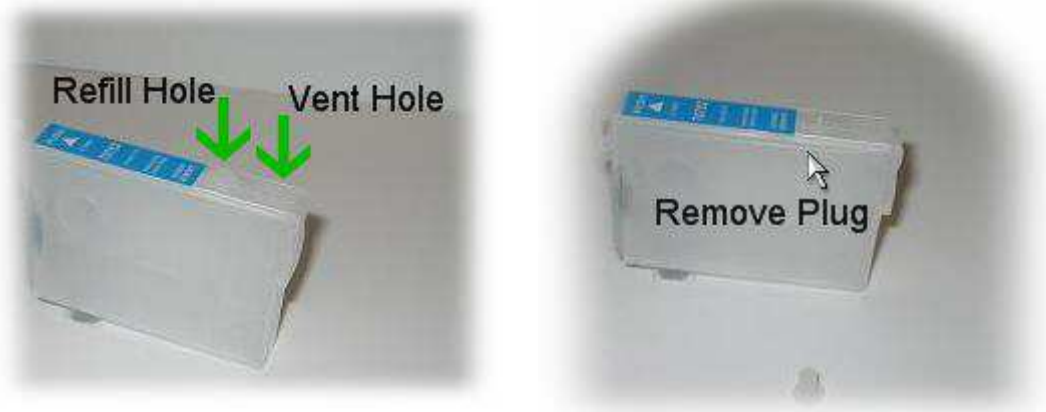
*Regular Price: ~~\$82.94~~*

*Our Price: **\$52.90***

# Step-by-Step Instructions

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

## Epson T078 Empty Refillable Cartridges



**These refill instructions are for the Epson empty refillable cartridges. First buy a combo pack of empty refillable cartridges.**

**Items needed: Black dye based ink or cyan, magenta, and yellow ink (depending on which cartridge you are refilling), also use Photo Magenta for light Magenta, and Photo Cyan for Light Cyan, paper towels, gloves, (no refill station is used for the cartridge). 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. 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.**

1. Put the cartridge on some paper towels in an area where you can tolerate a spill.
2. Remove the filler plug.
3. S-l-o-w-l-y inject the ink into the filling hole of the cartridge until the cartridge is filled about  $\frac{1}{4}$  inch for the top.

**The black cartridge will take approximately 15ml**  
**The color cartridges will take approximately 15ml each**

4. Replace the filler plug.

5. Install the cartridge into the printer and run 1 - 3 cleaning cycles as per printer instructions.

Or print the following pages:

<http://www.inkonline.net/support/blackinktest>

<http://www.inkonline.net/support/colorinktest>

Note: Some printers might require you to replace with all refillable cartridges at one time. Otherwise the cartridges can not be detected by the printer

To reset the chip, turn printer off then on when ink monitor indicates that the ink level is below 10%, and printer indicates that the cartridge is low (red light). Press ink exchange button (ink drop) when ink monitor indicates that the ink level is below 10%, and printer indicates that the cartridge is low (red light). If the cartridge is refilled, but the ink monitor does not indicate that the cartridge is low, you will be unable to reset the chip until the ink monitor indicates that the cartridge is low. For this reason it is best to refill the cartridges only when the cartridge is shown as low. Many users find it more convenient to have two sets of cartridges to precipitate a quick change over when a cartridge is reported empty.

Thank you for your purchase and congratulations on becoming our newest User. If you should have any additional questions after you receive your Inkjet Refill Kit, please do not hesitate to contact our customer service/tech support hotline: [Customerservice@refills4you.com](mailto:Customerservice@refills4you.com)

We recommend that you read the Hints and Tips, the Checklist and Frequently Asked Questions before you refill.

Our experience and knowledge in the ink industry has given us our superb reputation. Our mission has always been to provide every customer with excellent customer support and to exceed our customer's expectations. In fact, the number one comment that we receive from customer feedback is that our customer and tech support staff are both helpful and supportive to them.

Now that you are a user, you will have total access to ink refill methods for the latest inkjet cartridges and professional tech support staff.

Once you open up your kit, you will immediately see all of your bottles (ink and cleaner), Cd rom, and plastic refill stations. Please note that your accessory & tool kit is located inside refill station number 4. We placed the accessory & tool kit in the number 4 plastic refill station because it was a larger size station and could easily accommodate the accessory & tool kit.

Again, thank you for your order. We look forward to serving you!

Sincerely,

Customer Service/ Tech Support Dept.

559-439-5850

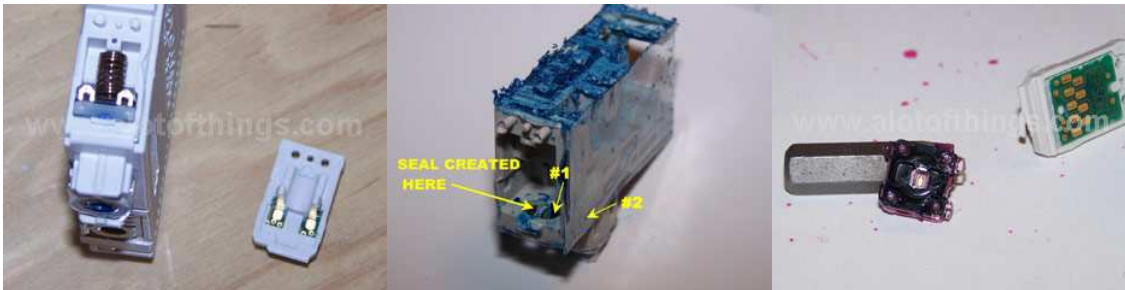
[Customerservice@refills4you.com](mailto:Customerservice@refills4you.com)

**\*Disclaimer: This article does not state cartridges can not be refilled. It expresses an opinion that the cartridges appear to be designed in every little detail to prevent you from refilling these cartridges.**



## A Look inside an Epson Cartridge

*A look inside the design of Genuine Epson T0691, T0692, T0693, T0694, T0781, T0782, T0783, T0784, T0785, T0786, T0791, T0792, T0793, T0794, T0795 & T0796 Inkjet cartridges.*



*A look inside the design of Genuine Epson T0691, T0692, T0693, T0694, T0781, T0782, T0783, T0784, T0785, T0786, T0791, T0792, T0793, T0794, T0795 & T0796 ink jet cartridges.*

INSIDE THE EPSON T0781 INK JET CARTRIDGE. If you have not yet had the opportunity to look inside your Epson 78 ink jet cartridge then you'll see the design and thought Epson has put into this cartridge. Every design detail clearly states: **"don't refill me"**\* The design of this cartridges is the same for Epson T0691, T0692, T0693, T0694, T0781, T0782, T0783, T0784, T0785, T0786, T0791, T0792, T0793, T0794, T0795 & T0796. So this document also is applicable to those cartridges as well. The Epson T0781 ink jet cartridge is a multiple chamber cartridge that holds about 9ml of ink. First thing you will notice when taking the side of the cartridge off is

the multiple chambers as shown on the right. What you may not realize when viewing the cartridge like this is that ink in the cartridge dances from one side of the cartridge to the other. The side of the cartridge where the label appears displays indentations which are part of the path ink travels through the cartridge. Ink flows from the chambers (shown on image above) through the wall of the cartridge and into the paths shown on the right and then back into another chamber. One may think that you could easily overcome this type of cartridge design simply by pressure filling the cartridge in a similar manner to refillable style cartridges (see bottom of page for brief description). This is not the case though. Pressure filling with a luer slip injector does not work with this design. It did not work with the couple of cartridges that were tested, nor did it work when a couple of clients tried the same thing. You may be tempted to take the side cover off of the cartridge (top image) and inject ink into one of the chambers hoping to fill all of the chambers in the process. This also does not work as once the chamber you are filling has reached capacity ink will flow up and out through the fill hole you have created. Ink does not flow through the ink path of the cartridge filling other chambers. This is probably because the ink will follow the path of least resistance and in this case that is the fill hole. Even keeping constant pressure on the fill hole using a sealant so that only the injector needle pierces the plastic (in other words no ink can get out of the cartridge around the fill hole) creates a problem as air needs to get out of the cartridge during the refill process. Even if you do get past the design of the cartridge you will have to contend with Epson's newest intellidrive chip design. This is a two part design as you can see from the image above. With the OEM chip removed from the cartridge you will notice two contacts attached to a piece of clear silicon and a spring. If you were to pull the silicon piece out of the cartridge you would notice another small chip on the cartridge. Look carefully into the black portion and you will see what appears to be another very small chip. The silicon portion of this piece used to create a seal on inside of the cartridge. The seal is an interesting part of the cartridge. When the cartridge is viewed closely you can see a small opening exists leading from #1 to the #2 section of the cartridge. This is a very tiny and somewhat difficult opening to locate. What I can not determine at this point is why this is here in the first place. Part of my confusion may be that all cartridges I have opened thus far have been installed into a printer. I may find that the seal is

not created on an uninstalled cartridge or better stated is created once a cartridge is installed. If this is the case then the creation of the seal when installed may create required pressure in the cartridge. We should probably go back to the chip one more time. I have had conversations with two individuals who have removed these chips from cartridges and attempted to reset the chips without the connections in the back of the chip. I'll state (possibly prematurely) that I do not recommend doing this. In the two cases that I am aware of two individuals removed the Epson chips from their cartridges and installed the chips onto aftermarket cartridges for refilling purposes. The chips were reset using a hand held resetter. Neither chip was recognized by the printer they were installed into. This would make it appear that the two part connection is required for chip to function. This may or may not be completely accurate because the basis of this is on reset chips alone. I should point out also that one individual who attempted to do this with a cyan and photo magenta cartridges using an Epson Stylus Photo R280 has never been able to use another Genuine Epson cyan or photo magenta cartridge in his Epson Stylus photo R280 and have the cartridge recognized by the printer. Two new cyan and two new photo magenta cartridges was the basis for his determining that the printer would no longer accept Epson cartridges. This person was able to use aftermarket refillable cartridges though. I initially took apart these cartridges to figure out a successful way to refill them. By successful I mean a complete refill, not one that only injects 3cc to 5cc of ink into a cartridge. This is very important as the chip resetters for use with these cartridges resets the chip back to full. If using some type of refill method that only fills to 1/2 capacity you are forever running the risk of damaging print heads as the ink level indicator of the printer will always show that there is more in the cartridge then is really there.

To make the refill process as a whole even more complex is that every chip resetter up through the writing of this article must have the chip reset before it falls below the 25% mark. If chip is allowed to fall below this mark then the chip reset will be unsuccessful.

All in all I would consider these cartridges to be very difficult to refill. Very successful design on Epson's part if I do say so myself.



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