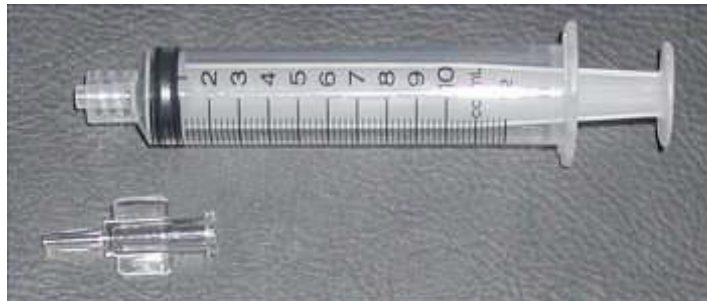


## Refill Instructions: Epson 777, 870, 1270, 2000P Printers (Chipped Cartridges)



### Preparation:

Get a place to work where you can spill a little ink and not ruin anything. Spread some newspapers down and have plenty of paper towels handy. Make sure you have good lighting. Here is what you will need:



- MIS-Syringes (10 cc)
- Bottom Fill Adapters (MIS-BADP)
- Bottles of ink for each color (4 - C/M/Y/K, 6 - C/M/Y/K/PC/PM)

### Refill:

1. Get the empty cartridge you are going to fill and all the above materials together on your bench. Unwrap the syringe, remove the protective cap, and attach the clear Bottom Fill Adapter to the syringe. It is a twist lock connection. Twist it on with your fingers, so it is tight.

2. Collapse the syringe to zero, then insert the tip of the Bottom Fill Adapter into the bottom of the cartridge and push so the poppet valve in the cartridge will open. Keep the cartridge oriented as shown in the photo below. Pull back on the syringe plunger to extract any left over ink. Pull the syringe plunger all the way back to 10, very slowly. Liquid ink will come out at first, then just foamy ink. You do not have to seal off the top of the cartridge during this process. You will feel some resistance when you pull back on the syringe, but it is not constant. Put the ink you have extracted in with the new ink in the bottle of the same color. Clean the syringe and bottom fill adapter with warm water so there is no trace of the ink left. Now, repeat the process for each color. There is nothing wrong with this ink. There is no sense in just throwing this ink away. The foamy part will dissipate back into liquid, re-using it is not a problem.



3. Clean the syringe and bottom fill adapter with warm water. Make sure the syringe plunger is down all the way, then insert the tip of the bottom fill adapter into the ink bottle and pull ink into the syringe. Pull in 1/2 to 1 cc more than is shown in the table below.
  - a. Hold the syringe with the bottom fill adapter pointed up. While holding the syringe vertical, pointed up, wrap some paper towel around the tip of the Bottom Fill Adapter, and carefully push on the syringe to remove any air trapped in the top of the syringe. If you push too hard, ink will shoot up to the ceiling, so be very gentle.
  - b. Now that the air is gone, adjust the volume of ink in the syringe so that you have the amount shown in the above table. Hold the syringe tip over the open ink bottle and push the syringe plunger until you have the bottom of the rubber plunger at the right mark.
4. When looking at the cartridge in its installed position, the colors are, from left to right, Cyan, Photo Cyan, Magenta, Photo Magenta, Yellow. Hold the cartridge being filled at about a 45 degree angle, front down as shown below. Push the tip of the

bottom fill adapter firmly into the exit port and slowly inject the ink into the cartridge. Go slow towards the end and watch the top of the cartridge. When you have about 2 cc left to inject, start leveling the cartridge slowly as you inject. The idea is to get all of the ink in before it starts coming out the vent holes on the top. If ink appears at the vent opening on the top, stop injecting immediately. Quickly clean up any visible ink so it does not jump over into an adjacent vent hole opening.



5. If you only have one syringe, wash out the bottom fill adapter and syringe with warm water, then inject ink in the other chambers. Be careful to get the right color in the right chamber or the cartridge will be ruined.
  - a. The black cartridge fills exactly the same way. See table below for correct volume of ink.
  
6. Don't turn the cartridge upside down. Put the cartridge down on your work surface or bench, put a match book or something about 3/16 inch thick under one end of the cartridge, so it is level. Let it stay in this position for about an hour (overnight is better). Then it is ready to install in the printer.
  - a. Please follow the Chip Reset Instructions for installing you newly refilled cartridge in the printer. If the chip does not get reset, the printer will tell you the cartridge is empty and it will not work.

**Note:** This is the first edition to this procedure. We will update and improve it as we gain more experience with these cartridges.

| Cartridge Number       | Normal Refill (cc) |
|------------------------|--------------------|
| T007 - Black           | 11                 |
| T008 - C, M, Y, PC, PM | 6                  |
| T009 - C, M, Y, PC, PM | 8                  |

|                        |    |
|------------------------|----|
| T015 - Black           | 11 |
| T016 - C, M, Y, PC, PM | 8  |
| T017 - Black           | 11 |
| T018 - C, M, Y         | 6  |