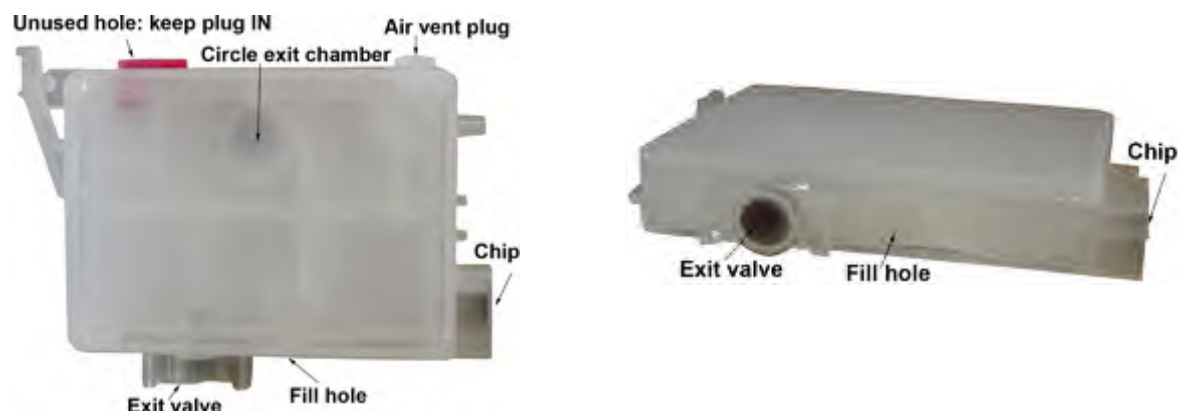


Refillable Cartridge Instructions for Epson R2400 and R1800/800



The instructions below describe how to fill and use refillable cartridges, in general terms. Color managed work flows are not discussed here, nor are instructions for using Piezography inks. Filling and using these cartridges is easy, provided you are prepared before you begin and follow the instructions below. Additional ink bottles are available from www.inkjetmall.com. For further information on ConeColor inks (for the R2400), visit www.conecolor.com, or Piezography visit www.piezography.com. Info for Piezography K7 ink shade placement is located on page 2 of these instructions, please refer to it before filling the cartridges with ink.

***Test your printer with Epson carts to make sure it works perfectly before installing any third party inks/carts, even if using a brand new printer.**

***Inspect carts for damage and make sure chips are attached flat to carts before filling with ink.**



Piezography ink users: Clean color ink off points in print head. Using Q-tips and PiezoFlush or distilled water, carefully wipe each point in a circular motion with a moist Q-tip, then absorb remaining liquid using dry Q-tips. This is to avoid color staining in your B&W cartridges and prints.

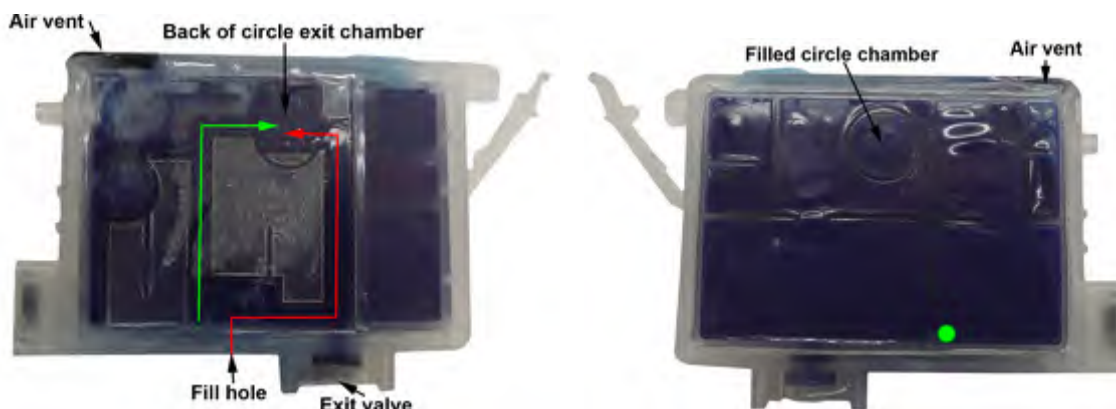
Filling Procedure:

1. Place empty cartridges, ink bottles and syringes on a work surface. Choose filling area and clothes you wear carefully, as accidents can happen and pigment ink is permanent. Have glass cleaner and paper towels handy in case ink is spilled.
2. Gently shake ink bottles to ensure pigment is in suspension before filling or refilling carts. Fill a syringe with about 20ml of ink (use blunt needle to draw ink out of bottle). Make sure to fill each cartridge with the correct color or shade of ink.
3. Remove fill hole plug from the **BOTTOM** of the cartridge as shown in the photos above and insert syringe tip (without needle) snugly into the fill hole.
4. With syringe tip snugly fitted in the cartridge fill hole (cartridge down and syringe up), pull syringe plunger up to remove air from cartridge then release plunger to allow ink to be drawn into cart, repeat until cartridge is filled with ink. Do NOT push ink into cartridge.
5. Disconnect syringe from cartridge and insert plug securely back into the filling hole. For proper ink level tracking, cartridges must be totally filled (if under filled, they can run dry before the printer says they're empty).
6. **Remove air vent plug from cartridge**, making sure vent hole is fully open. Do NOT remove top or side labels from cartridges. Gently tap filled cartridges a few times exit valve down on a folded paper towel to force air up and ink down.
7. Install cartridges into printer (make sure they snap firmly in place for proper instillation) wait 10-15 minutes to allow ink to settle, then run 1-2 cleaning cycles and print a nozzle check to verify all positions are fully printing. Now you are ready to print! Syringes and needles can be rinsed out with warm water, air dried and reused many times.

REFILL cartridges by following instructions above, but seal the air vent hole first (using the plug or electrical tape) to draw a vacuum. Note green line in photo on top/left of page 2 shows the path from the main cartridge body into the circle exit chamber (from back); and green dot in photo on right marks the bottom of this channel looking at the front of the cartridge.

Tilt cartridge so the green dot area is UP (cartridge upside down) when pulling syringe plunger to remove air and create vacuum, then release plunger for vacuum to draw ink into the cartridge body- repeat until cartridge is full of ink, then insert fill hole plug.

The below/left shows the path of ink from the bottom fill hole directly to the circle chamber and exit valve, marked in red (side label removed to display inside of cart). Green marks the path from the main cartridge body to the circle chamber.



Keep track of the ink level and do not allow cartridges to run dry. When a cartridge is empty and needs to be refilled, check the other carts and refill any others that are also low if you wish (but only the one that read empty will reset the ink level after being reinserted into the printer, unless a chip resetter is used to manually reset the ink level). Gently shake ink bottles to ensure pigment is in suspension before filling or refilling carts. **Always make sure carts are filled and refilled with the correct ink: if carts are mis-filled with the wrong ink, they can not be cleaned and corrected- in this case you must use new carts.**

These cartridges can be refilled & reused MANY times, though for best results we recommend replacing after about a year of use.

How to Reset Ink Levels:

These refillable cartridges use Auto Reset Chips, which are designed to reset the ink level when a cartridge reads empty in the printer, is removed, refilled with ink then reinstalled in the printer. Upon re-installation, the chip will reset to read full again. **NOTE: Ink level will ONLY reset when the ink out light appears on the printer. Only the cartridge that reads empty will reset so that less than full cartridges will not be mistakenly reset to read full, which could cause a cartridge to run dry.** If you wish to refill and reset all carts at once, a chip resetter can be used to manually reset ink levels to read full. Chip resetters are available from Inkjetmall.

ARC reset error - please remove the whole set of carts and disconnect the printer power and USB/Cables. Leave the printer off for at least 30 minutes then plug the printer's power cord back in, turn the printer on and re-insert the whole set of refillable carts. You can reconnect the printer USB/Cable after your printer recognizes the refillable carts.

Piezography Ink Users:

Follow the chart below for your printer model to install Piezography ink shades in the correct cartridge positions. Shade 1 is the darkest (black) and Shade 7 is the lightest. **Output will NOT be accurate unless ink shades are installed in the correct positions listed below.** Note: For Piezography glossy printing, a glossy compatible K7 ink set, Gloss Overprint in place of PiezoFlush and glossy curves must be used. Contact Inkjetmall for more information or to have a custom glossy K7 curve made. Before attempting to print with Piezography inks, thoroughly read our Piezography Manual on the Piezography technical-support page here: www.piezography.com/technical-support/

Printer: R800/R1800

Cartridge Position (Left to right)	1) Piezography K7*
Yellow	Shade #7
Magenta	Shade #6
Matte Black	Shade #2
Red	Shade #3
Blue	Shade #4
Photo Black	Shade #1 (Matte or Photo black)
Gloss Overprint	Gloss Overprint (for gloss printing) PiezoFlush (if NOT printing gloss)
Cyan	Shade #5
NOTES	* Change black ink for matte or gloss printing. Use "K7" curves.

Printer: R2400

Cartridge Position (Left to right)	1) Piezography K7*	2) Piezography P2**
Light/Light Black	Gloss Overprint (for gloss printing) PiezoFlush (if NOT printing gloss)	Gloss Overprint (for gloss printing)
Light Magenta	Shade #5	Shade #5
Light Cyan	Shade #3	Shade #3
Light Black	Shade #6	Shade #6
Black	Shade #1 (Matte or Photo Black)	Shade #1 (Matte Black)
Cyan	Shade #2	Shade #2
Magenta	Shade #4	Shade #4
Yellow	Shade #7	Shade #1 (Photo Black)
NOTES	* Change black ink for matte or gloss printing. Use "K7" curves.	** NO need to change black ink. Use "P2" curves.

Troubleshooting & Helpful Information:

- * **Use the printer on a regular basis for best function.** To keep the ink moving thru the cartridges and head moist, print a small image or do a cleaning cycle at least once a week if the printer is not used regularly. It is NOT good to leave pigment ink installed in a printer that will not be used for an extended time- its best to install flush carts and flush ink for safe storage if your printer will sit unused for a month or more (see below for additional information on flushing and storing your printer).
- * **Long term storage of printer:** We do not recommend letting a printer sit unused with pigment inks installed. If you do not plan to use a printer for an extended period of time, it is best to remove ink cartridges, install a set of flush cartridges and flush ink from the print head by doing 3-4 cleaning cycles, before turning it off for safe storage. Store unused cartridges upright in a sealed plastic bag to avoid drying.
- * When carts are not being used (in or out of the printer), we recommend sealing air vent holes with plugs or electrical tape to keep carts moist and prevent drying. Make sure air vent holes are OPEN before printing for proper ink flow.
- * For the best results, monitor and maintain humidity levels between 40-60% in the printing area (this is based on Epson's recommendation). Both low and high humidity can cause problems with the printer, ink and paper.

Question: My printer does not recognize the cartridges.

Answer: Please compare numbers on the refill cartridges and the Epson OEM carts to make sure they match. If any of your refill cartridge numbers don't match OEM numbers, please send pictures to show us the whole set of cartridges with chip numbers.

If the cartridge numbers DO match OEM, please remove the whole set of carts and disconnect the printer power and USB/Cables. Leave the printer off for at least 30 minutes then plug the printer's power cord back in, turn the printer on and re-insert the whole set of refillable carts. You can reconnect the printer USB/Cable after your printer recognizes the refillable carts.

Question: When I print there are large blobs of ink on my page.

Answer: Keeping the printer clean is crucial to the function and print quality. If the capping station has waste ink and dust build up, that gets transferred to the bottom of the print head, which can cause ink to drip or smear on the paper as well as clogging and mis-firing nozzles. Keeping the capping station clean will help keep the print head clean and working well. Please follow instructions on our TechSupport Knowledge Base page under Printer Maintenance (titled "Two Main Cleaning procedures").

Question: I have filled the cartridges with ink but no ink comes out when I try to print.

Answer: Make sure air vent tabs are fully removed and air vent holes open, then gently tap cartridges a few times exit valve down on a folded paper towel to release any air that may be restricting ink flow. Reinstall cartridges snugly into the printer's cartridge carriage, then do 1-2 cleaning cycles and print a nozzle check. If there are still missing nozzles, wait about 15 minutes then do another cleaning cycle and print a nozzle check.

Question: When I print there are lines on the paper.

Answer: Lines on the paper are often caused by missing or mis-firing nozzles (called "banding"), but mis-alignment can also cause lines in the print. Print a nozzle check to make sure all positions are fully and correctly printing. If there are missing or mis-firing nozzles, make sure the air vent tab is fully removed and air vent hole open, then gently tap cartridges a few times, exit valve down on a folded paper towel to force the ink down and release any air that may be restricting ink flow. Reinstall the cartridges snugly into the printer's cartridge carriage for a tight seal then do 1-2 cleaning cycles before printing another nozzle check. If all nozzles are printing and in the correct positions (not mis-firing), then align the printer to the paper thickness you are printing on.

**** If you continue having problems or have additional questions, please refer to our InkjetMall Support Forum, which contains lots of helpful information in the Articles> Product Manuals and Instructions section, as well as previously asked/answered threads to read. You can post a new question to contact us for support if you're unable to find the answer you need.**