

Pro 3800/3880 Refillable Carts Instructions

Please read these instructions carefully before installing your cartridges or you may damage your printer. Never insert any of the Refillable cartridges or the original Epson cartridges into your printer if it does not have a chip installed on it. This may damage your printer's chip reader. Whenever you power off your Pro 3800 or 3880 printer, you must wait 20 seconds before powering it back on.

1. Before you start, you should have received a set of nine refillable carts and one switch key with your order. The switch key is very important. If you ordered any additional OEM chips from InkjetMall, they will have shipped in a separate envelope, and are not part of this installation kit. If you need these additional chips, you will need to wait to complete the installation.



2. If this is an installation in a new Pro 3800 or 3880 printer, please test your printer first! It is possible to receive a new printer from Epson that has one or more misfiring nozzles or some other defects. Because you will need the chips off of your original carts to complete the installation, there is nothing lost by testing your printer with the original Epson carts. You may have everything to gain if you learn that the printer is not highest-standard. Make sure that you run nozzle check tests, and perform some print tests to carefully look at print quality. Look for striations or thin lines in the images which if all your nozzles are firing, may indicate some head alignment problems. This test will insure that you are installing the Pro 3800 or 3880 Refillable carts in a printer which is in top working condition. If you do not test your printer first, you may waste through your new inks chasing down problems that are only related to printer quality. After testing the printer and confirming its quality, power off your 3800 or 3880 printer from the control panel using the power button. Remove the power cord from the back of the printer. Open the ink cover and remove all of the Epson cartridges. Do not discard them! You will need the chips from seven of them.
3. Installing the Chips:
You will notice that only two of your nine Refillable Pro 3800 or 3880 carts came with chips. These are control chips developed by the manufacturer and they control the other chips that you will install on the seven Refillable carts that do not have chips. These control chips also control the resetting of your maintenance waste tank. Do NOT remove the control chips from the cartridges they come attached to, which will not always be the same two positions (may not be on the two positions shown in the photo above).

Using a small flathead screwdriver or a thin knife blade, carefully and gently pry up the chip from original cartridge as illustrated:



Remove the chip. You can slide a small piece of masking tape under it to hold it so that you do not handle with your fingers too much.

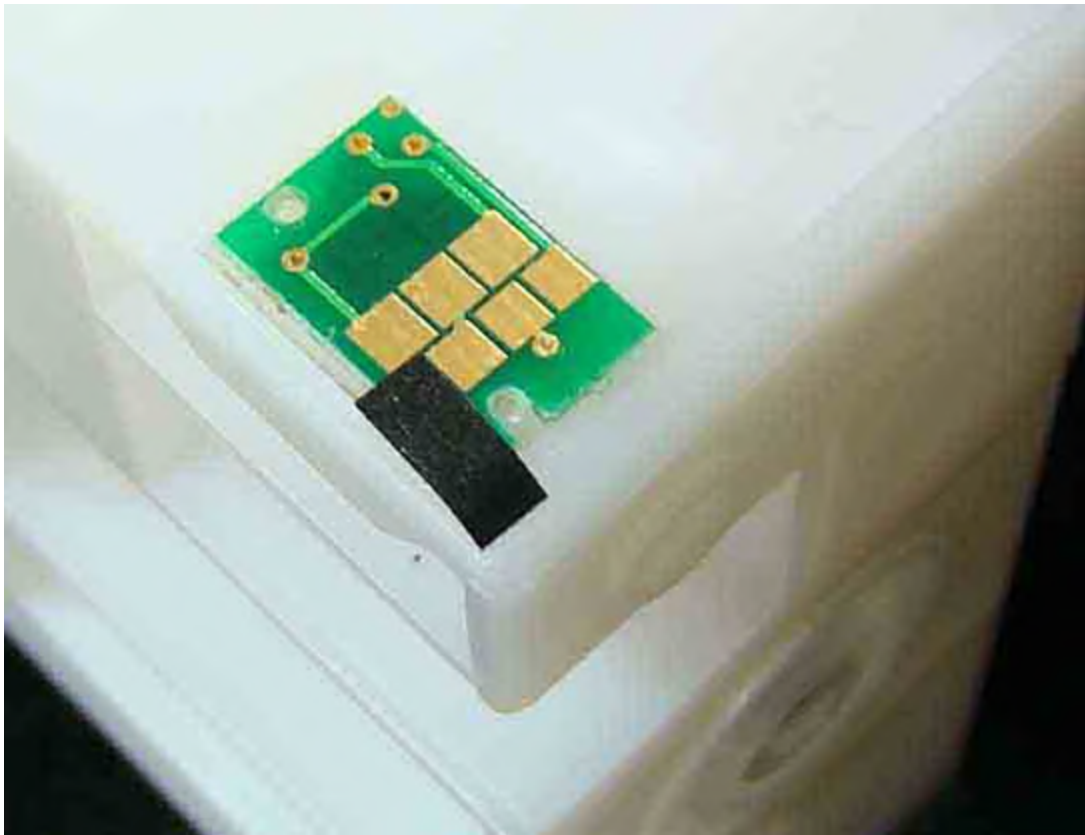


Now using a blade carefully peel away the protective peel from the double sided sticky tape already attached to the Refillable cart.



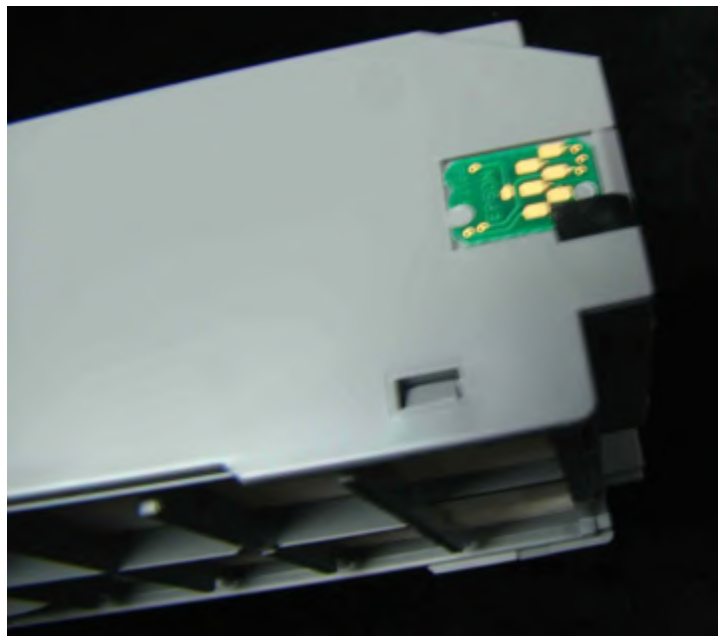
Carefully place the chip on the tape. You must use the correct color position chip for each of the Refillable carts which require a chip.

Locate the 4th pin and tape it off as illustrated below. Make certain that you do not install the chip upside down.

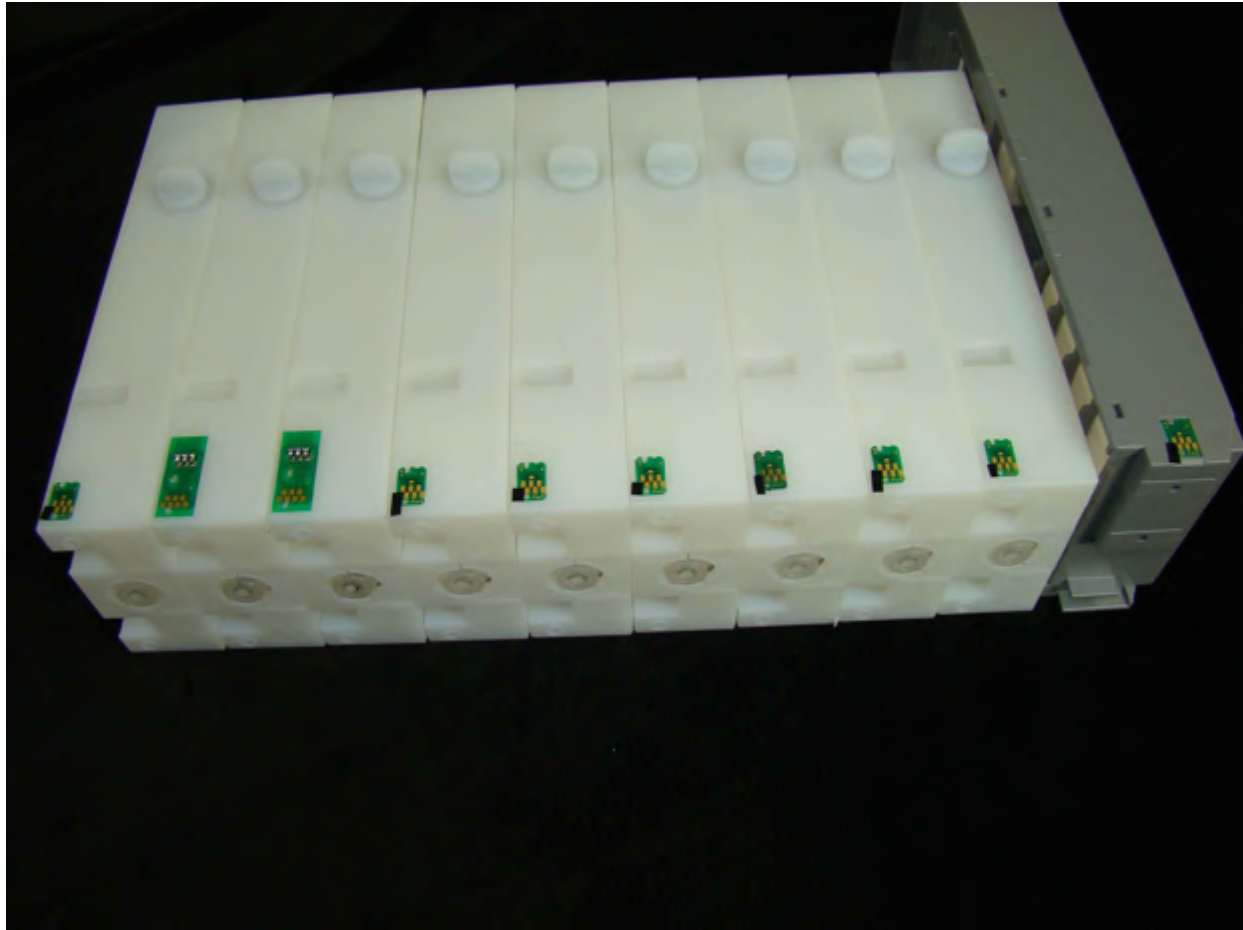


Repeat until all seven of the Refillable carts without chips have the chips associated with that color position attached and 4th chip contact covered with tape.

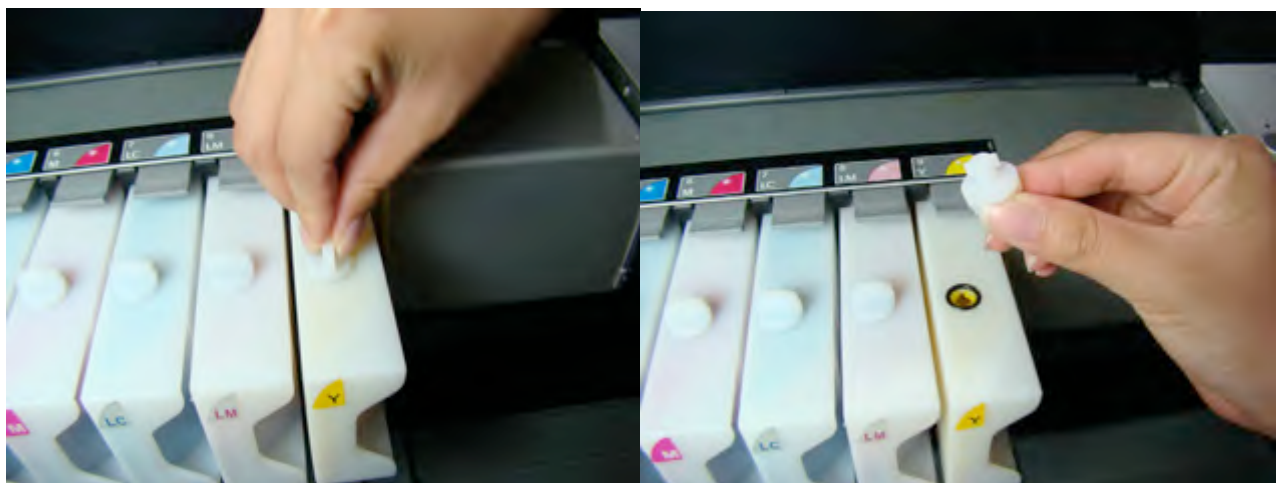
4. Modify the ink waste maintenance tank. Carefully remove the waste tank from your printer (in case its full) and tape off its 4th contact. You do not need to remove the chip, nor install another chip on to it. Now the maintenance tank can be reset, and you can empty it instead of discarding it.



The entire set of carts and maintenance tank should now look like the photo below (though your two control chips may be on different cartridges):



5. Now its time to fill the carts with ink using our supplied funnels. While the power if turned off, install all of the Refillable carts and the maintenance waste tank into the printer. Twist and pull off the ink fill plug, and then carefully match the correct color or shade of ink to the cart.





Do not fill above the Maximum Fill line!



Reinstall the fill hole plug and twist it for a tight seal (make sure there is an o-ring in the fill hole rim for a tight seal with the plug). Funnels can be rinsed with warm water, air dried & reused.

6. Final Checks and Switch Key Installation:

When all of the carts are filled you must perform the final checks before powering your printer on. You should examine all of the cartridge filling caps and make certain they are securely fitted to the cartridge. Make certain that all of the carts are securely fitted into the printer housing. Also, make certain that you have closed the ink waste maintenance tank cart cover.

7. Reinstall the power cord into the back of the printer and turn the power ON by pressing the power button. Once you have powered your 3800 or 3880 printer up, the printer will show the error message "INK COVER OPEN." This is overridden by installing the Switch Key which you will do in the next step.



Please see the following images and ensure that the solid flat side of the Switch Key should be to the LEFT and the indented side to the RIGHT.



8. Push the switch key into the available slot beside MK cartridge as shown in the following picture and ensure that the bottom LUG rests at a slight angle on the silver edge casing of the printer.



9. The printer should now perform a clean cycle. When it stops, the green light should be on. If you see a red light at this point, it indicates that one of the chips has not been recognized or seated correctly. If this is the case, please push firmly on the cartridge that is not being recognized. If this does not solve the problem then remove the cartridge from the printer, then carefully check the chip that is not being recognized by wiping the contacts with a soft cloth and insert this Refillable cartridge back to the 3800 or 3880 printer.
10. Perform 2 Power Cleaning Cycles to get the ink flowing smoothly thru the printer's ink system then print a nozzle check to make sure all positions are fully printing. If there are missing nozzles or positions at this time, let the printer sit for 1-3 hours then do 1-2 regular cleaning cycles before printing another nozzle check.
11. Congratulations- now it's time to print! You can print until the remaining ink level reaches the MIN INK line, then refill the cartridge(s) as per the refill instructions.

Setup with Piezography K7 Inks

For Regular (Non-Glossy) Printing:

- Install PiezoFlush solution in both the Photo Black (PK) and Light Light Black (LLK) positions, as these two positions are not used. Make sure to select Matte Black in QuadToneRIP when printing.
- Install Piezography K7 ink shades into the printer/CIS as follows (from left to right on the printer):
 - MK= Shade 1
 - PK= PiezoFlush
 - LK= Shade 6
 - LLK= PiezoFlush
 - C= Shade 2
 - M= Shade 4
 - LC= Shade 3
 - LM= Shade 5
 - Y= Shade 7

For Selenium or Warm-Neutral MPS Dual Matte & Gloss Printing:

- Make sure to select Photo Black in QuadToneRIP when printing on glossy papers and select Matte Black in QuadToneRIP when printing on non-glossy papers. Printing on glossy papers requires a second printing of gloss optimizer and custom curves made by Inkjetmall.
- Install Piezography K7 ink shades into the printer/CIS as follows (from left to right on the printer):
 - MK= Neutral Shade 1 (for Matte printing)
 - PK= Selenium or Warm-Neutral MPS Shade 1 (for Gloss printing)
 - LK= Selenium or Warm-Neutral Shade 6
 - LLK= Gloss Optimizer
 - C= Selenium or Warm-Neutral Shade 2
 - M= Selenium or Warm-Neutral Shade 4
 - LC= Selenium or Warm-Neutral Shade 3
 - LM= Selenium or Warm-Neutral Shade 5
 - Y= Selenium or Warm-Neutral Shade 7

REFILLING THE CARTS

Refill cartridges before they reach the MIN INK line and only fill up to the MAX INK line.

Always shake ink bottles gently before refilling cartridges to ensure pigment is in suspension, as pigment ink settles over time.

Because the Pro 3800 and 3880 ink cartridges and our Refillable carts are pressurized, you must release the air pressure. If you remove the fill hole plug quickly there is a good chance that the escaping air may splash some ink out. So, it is best to use a paper towel. Now simply refill the cart to the maximum fill line with the correct color or shade of ink and our included funnels. Funnels can be rinsed with warm water, air dried and reused.

PROCEDURE FOR RESETTING THE INK CARTS AND MAINTENANCE TANK

When any of the cartridge ink levels read empty or waste ink tank reaches full, you will need to reset them by following the steps below:

- 1) Keep printer power ON (The LCD panel should show maintenance tank full or cartridges empty).
- 2) Remove Switch Key from the printer.
- 3) Release all cartridges from 1 to 9 (left to right) so cartridge chips and chip sensors in the printer do not connect.
- 4) Open the maintenance tank door and pull out the waste ink maintenance tank.
- 5) Reinsert the waste tank and close the waste tank door.
- 6) Reinsert the switch key.
- 7) Wait until the printer monitor shows: Insert the Maintenance cartridge.
- 8) Remove the switch key and pull out the waste ink maintenance tank again.
- 9) Reinsert the waste tank and close the waste tank door.
- 10) Insert cartridges from 1 to 9 (left to right)
- 11) Insert the switch key back into the printer.

NOTE: This procedure will only reset waste tank when printer shows solid red light and says waste tank is full. This is to avoid over-resetting the waste tank, which would make it overflow.

Please refer to a movie of this operation on our website at:

<http://www.inkjetmall.com/Refillable-Carts-Reset>

Modification to the 3800/3880 Waste Ink Maintenance Tank

Since you can reset Waste Ink Maintenance chip, you can now convert it to a reusable waste ink tank. Please follow these steps to modify and reuse your waste ink maintenance tank. If you prefer you can simply replace it when it is full by purchasing a new one from Epson. If you do wish to modify the tank, follow these instructions:

- 1) Remove waste ink tank from 3800 or 3880.
- 2) Use a small flathead screwdriver, pry top off the waste ink tank and throw away the old ink-soaked pads.



- 3) Fold several paper towels or some cotton balls, or feminine sanitary napkins to fit in the bottom of the tank, filling the tank about 1/2 way. Then fold a paper towel on top of others.



- 4) Put plastic grid top back on the waste ink tank (snaps into place) and insert the tank into the printer as normal. Pay close attention to the Maintenance Tank Full alert on your 3800 or 3880 printer's LCD. When you remove the tank, carefully pull it out so that it does not spill its contents. Discard the contents and repack as instructed above. You will need to reset the Maintenance Tank when you remove it so refer to PROCEDURE FOR RESETTING THE INK CARTS AND MAINTENANCE TANK on page 8.

*****HELPFUL INFORMATION*****

- **Pigment ink can be difficult to keep in solution and settles if not regularly agitated.** To keep the ink printing at full density, gently shake the cartridges every 1-2 weeks to keep the pigment in solution. If the printer is not used for two weeks or more, shake the ink cartridges then do 1-2 Power Cleaning Cycles. This will purge the settled ink from the printer's internal ink lines and fill with ink from the shaken cartridges.
- **Use the printer on a regular basis for best function.** To keep the ink moving thru the ink lines and the head moist, print a small image or do a cleaning cycle every week if the printer is not used regularly. It is not recommended to leave pigment ink installed in a printer that will not be used for several months at a time- please contact our support department if you need to leave your printer unused for two months or more.
- **Keep capping station clean to keep the print head clean and printing well.** Cleaning procedures are located here: <http://shopping.netsuite.com/s.nl/c.362672/it.I/id.118/f> Depending on frequency of printing, the capping station should be cleaned at least once a month to help keep the print head clean and working well.
- **Monitor and maintain humidity levels between 40-50% in the printing area.** Both low and high humidity can cause problems with the printer, ink and paper.