

## Epson Work Force 1100 CFS System Installation Instructions



Epson Work Force 1100 with MIS CFS System

### Prerequisite -

Before starting this installation, you **MUST** test your printer to make sure it is printing 100% correctly. The best way to do this is to first print a Nozzle pattern, using the printer utility software provided by Epson. Once a perfect nozzle pattern is achieved, print 5 copies of the MIS purge6.tif image using the Plain Paper and 360 dpi settings on the printer. All 5 pages must print without banding or skipping (white spaces). If your printer cannot do this, do not install the CFS.

Run no more than 3 cleaning cycles or get new cartridges. Do not proceed until you can pass these tests.

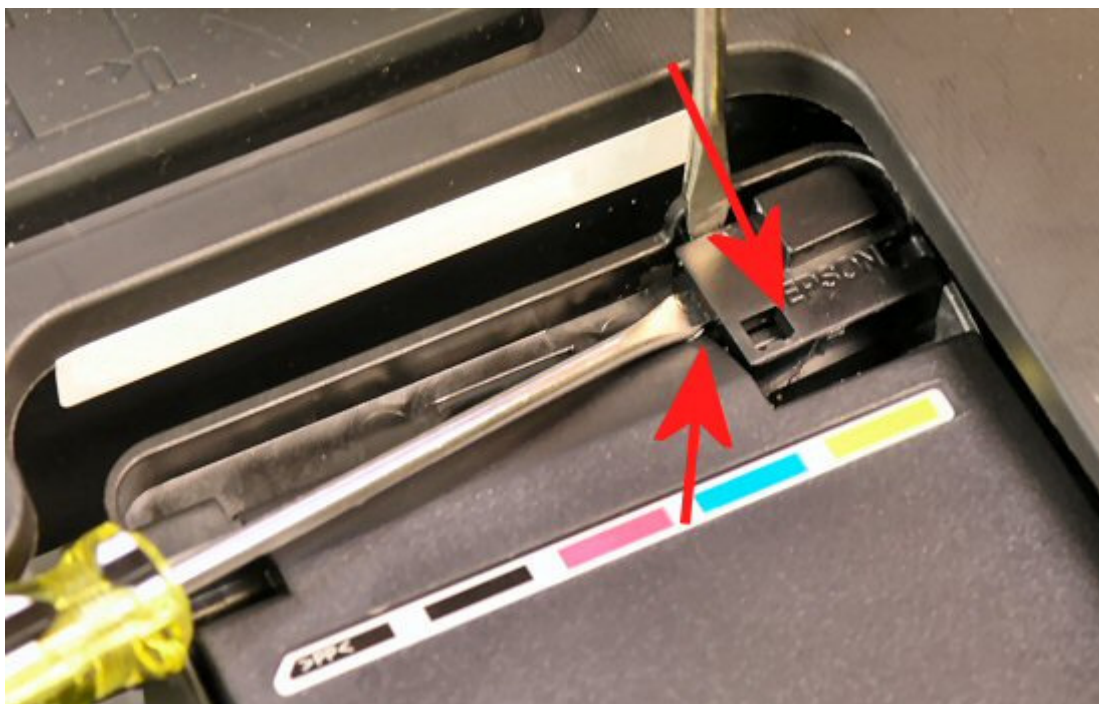
### Tools & Materials Needed -

- MIS WF 1100 CFS Unit, ink, and a working Epson WorkForce 1100 Inkjet printer.
- Ruler or measuring tape.
- Pair of scissors.
- Isopropyl Alcohol and some paper towels.
- Inexpensive inkjet paper for testing.
- 2 Small flat blade screw drivers.

1. If you purchased your system prefilled, go to Step 2. If you purchased an empty CFS unit, then vacuum fill the cartridges with the ink that came with the system or the ink of your choice. Follow the instructions that are included with the vacuum pump or get them from our Knowledge Base. When this is complete, go to Step 2.
2. On the printer, push the Ink button to move the cartridges to the Replacement position. While in this position, pull the power plug out of the wall. Next, remove the cartridges. The cartridges ride in a black cartridge carriage and are secured by a gray clamp that must be raised in order to remove the cartridges.
3. The cartridge clamp also needs to be removed. This is the black colored clamp with the gray release lever that holds the cartridges down when they are installed in the printer. This step is best performed with the use of two small screw drivers.

Done correctly little or no harm will come to the printer. If too much force or pressure is applied then some parts may be damaged, but should not interfere with the operation of the printer or the CFS unit. In the image below, identify the part that is to be removed. Placing a small flat blade screw driver behind the Clamp Hinge Clip as in the photo below, put forward pressure on the screwdriver blade. With a second screwdriver, slide under the clip from the left side and put upward pressure on the blade. This can be done by twisting the screwdriver, and finally by pulling upward.

The clip removal is best performed by using more upward pressure on the second screwdriver as the clip begins to come loose.

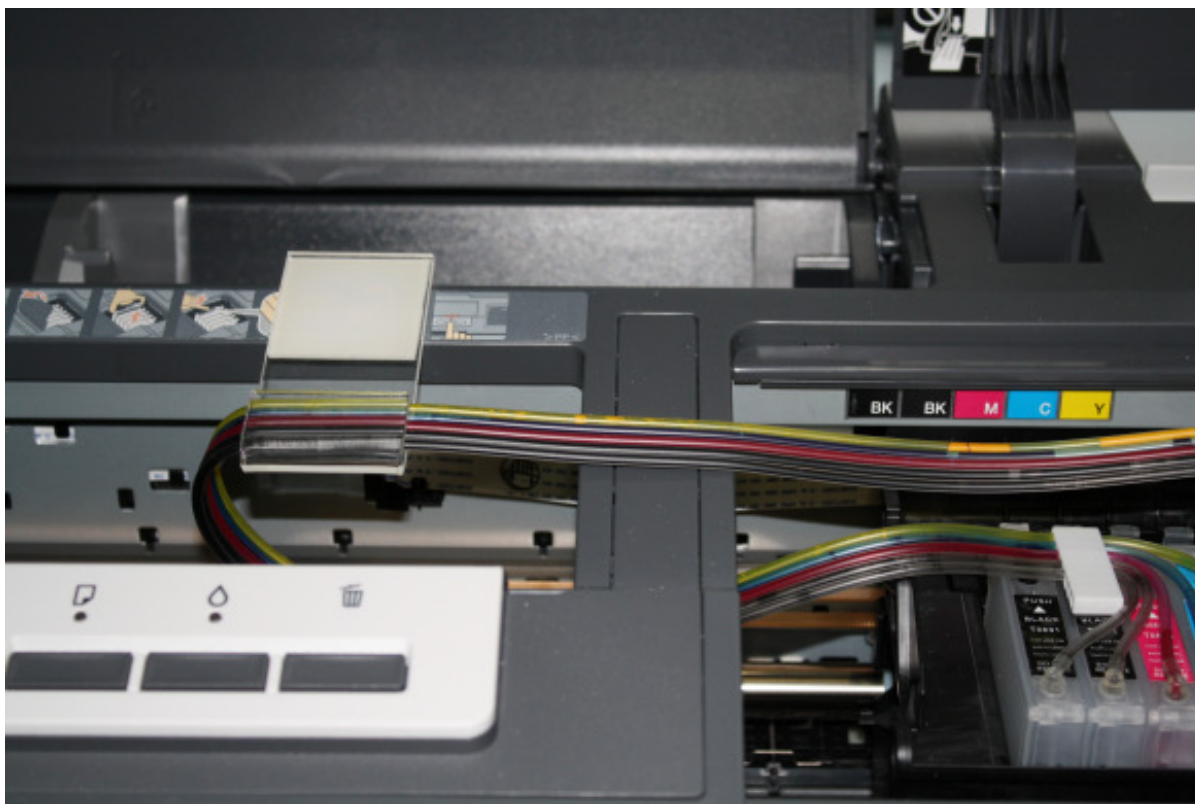


Clamp hinge clip

Once the clip pops out, the Cartridge Clamp will easily slide out as well. Set both pieces aside as they will no longer be needed.

4. PARTIALLY install the CFS cartridges. Do not push the cartridges all the way down. We do not want the seals on the bottom to be punctured until the tubes have been installed on the bottles. The tubing ends with white plugs should be guided to the left side of the printer.

Next, clean and dry the printer housing with alcohol where the bridge bracket is to be installed. Locate the Bridge Bracket from your package and install it as shown in the photo below.

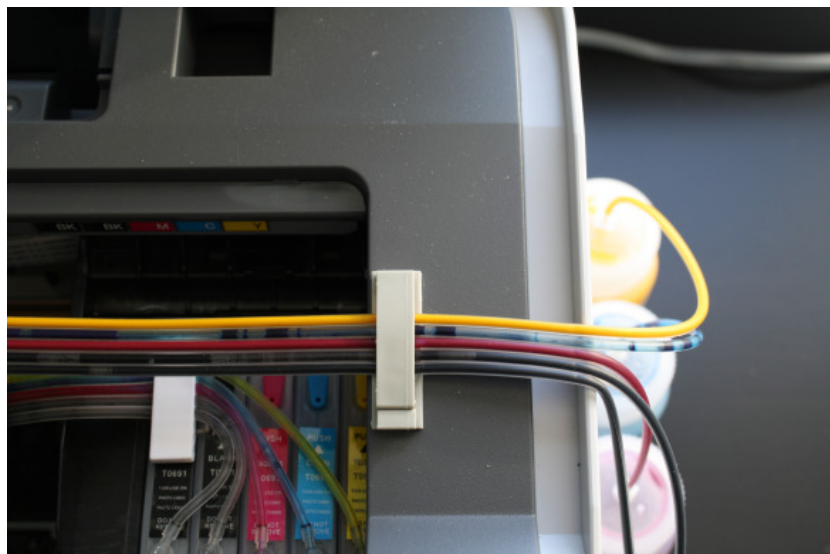


Install Bridge Bracket

Before peeling the protective tape from the mounting strips on the bridge bracket, place it in the location described below and as seen in the photo below. The Bridge Bracket mounts  $1 \frac{1}{2}$  inches from the left inside of the printer housing opening with the open part of the clip facing the rear of the printer. These areas should have been cleaned with an alcohol pad.

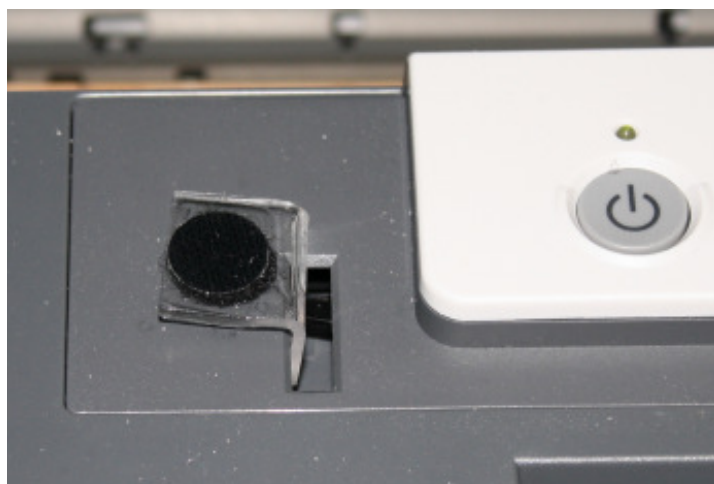
Now peel the protective tape from the foam strips on the front and back edge of the bracket. The foam tape should be lined up with the inside of the printer housing leaving  $\frac{1}{4}$  inch of the tape overhanging the back of the printer housing.

5. Install the beige tubing clip as shown in the photo below. Clean and dry the printer housing with alcohol and place the beige tubing clip in the position as shown.



Install Beige Clip

The clip installs on the right side of the printer housing 1 inch from the back of the printer measuring from in front of the cover. It should align with the clip on the bridge bracket so that the tubes run parallel with the print carriage between the clip on the bridge bracket and the clip you are installing on the printer housing. See photo above. Affix the clip so that it opens from the front side of the printer. This placement is critical and must be done correctly in order to align the tubing.



Install Lid Cover Switch Clip



Install the lid cover switch clip as shown in the photo above. This clip is installed with a Velcro dot which allows the clip to be removed if necessary.

6. The tubing ends with the white plugs should now be on the right hand side of the printer. You can now place the tubing into the beige clips and close it.

The tubes should be positioned in the Bridge Bracket clip first. This position should allow enough length of tubing so that the cartridge carriage can slide the full length of the printer from right to left and back again without pulling the tubes and without being restricted by the tubes when they are clamped in the beige tube clip on the Bridge Bracket. Checking this process will be a bit difficult as the cartridges should not yet be fully locked into the carriage. Observe the curl in the tubing as depicted in the figure in step #4 above. Tubing may also be adjusted later.

7. Once the tubes are securely inserted into the Bridge Bracket and you can allow the remaining tube length to feed to the right hand housing beige clip, and clamp the tubing. This will leave the remaining tube length at the right side of the printer ready to be trimmed for connection to the bottles. Be certain that the tubing is not being pinched closed in either of the beige clips.

Un-web the tubes from the left end beginning at the yellow tube (farthest from the front) up to the left hand side of the beige tube clip on the housing, so that each tube can be independently connected to its bottle. The tubes are easily un-webbed by just pulling them apart, no tools are required. Don't go too far.

You can now align the bottles on the right hand side of the printer. The order of the ink bottles from front to back are,



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Black - Black - Magenta - Cyan - Yellow

NOTE: The photo below shows Cyan in the front, disregard this color scheme, and follow the order listed above. We used Cyan here for clarity in the photo, black was difficult to see.

The bottles are adhered to the printer with Velcro patches to keep them supported near the side of the printer. When you press the exposed Velcro adhesive against the printer, the hook portion will stick to the printer and this becomes the permanent position for the bottle, so choose your bottle positions carefully. Align bottles in the order listed above. Apply the Velcro to the bottle. In the image below, note the location of the Velcro to the upper portion of the bottle. Peel the adhesive backing from each side of the Velcro and press firmly to the side of the printer.



Velcro attachment

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Locate the bottles caps and replace each cap on the ink bottle with the CFS caps.



CFS Bottle Caps

8. Connecting the tubing to the bottles.

The tube lengths will need to be trimmed so that the tube will connect to the fitting on top of the bottle without having a large amount of slack. The best way to accomplish this is to pull the tube over next to the bottle and mark the tube with a ball point pen at the point where the tube and the bottom of the bottle cap meet. Set up the bottles described in step 7, and work with one tube at a time, starting with the yellow tube.

Test the length of this tube by placing it near the bottle, on the outside, and see if it is going to reach the bottom of the bottle cap. It should not be too short. If it looks like it is going to be too long, then mark the tube with a ball point pen at the spot you think it should be cut. Remove the white plug from the end of the tube and cut the tube with scissors where you placed the mark. After cutting the tube immediately connect it to the bottle. **SAVE THE WHITE PLUGS** as they will be needed if you ever remove the CFS System from your printer.

**Make sure the correct color tube goes onto the correct color ink bottle. A mistake here will ruin the whole system and you will need to purchase an empty cartridge set w/ tubes.**

The tubes should make a nice smooth curve to the bottles. Don't let your tubes make any vertical loops. The transition into the bottles should be smooth and gradual. Repeat this process for each of the colors.



You can now press the cartridges down into the correct positions. You may hear them click into place; it is okay if you do not hear the click. Just be certain they are securely seated making certain the cartridges are properly aligned and down all the way in the carriage. Push the cartridge carriage all the way to the right hand inside of the printer, all the way.

Plug the printer back in and turn on the power. Run a few cleaning cycles until you have a perfect nozzle pattern. (Refer to your owner's manual for this procedure.) The printer is now ready to use. If you have problems getting a perfect nozzle pattern, let the printer rest overnight, and try again in the morning.

Resetting - In order to reset the ink monitor on the C120 with Auto Reset chips, simply press the ink replacement button. The carriage will move to the cartridge replacement position. Remove the cartridges only slightly from the carriage and reseal it. About 1/2 inch will do. Note that the ink monitor will not reset the cartridge until the color channel has a reported a low ink level warning. Once the cartridge is reseated, press the ink replacement button again, be certain there is paper loaded and begin printing again.

If for some reason you receive the double red error lights that will not clear after restarting the printer, remove the CFS unit, and reinstall Epson original cartridges to clear the error then reinstall the CFS. Check to be certain the tubing is not preventing the print carriage from traveling the full length of the printer. If it can not travel to the far left and right, the double red lights will come on.

## The Care and Feeding of a CFS -

There are a couple of things that will keep your system running trouble free.

These systems work best if they are used often, daily is best, but every few days are more important. If you are an infrequent printer or only print once or twice a week, then you might wish to consider our AUTOPRINT program (download it for free from our CFS page). Autoprint will make a printout using any of our Purge images everyday as long as you leave your computer and printer turned on.

If you have to do cleaning cycles, do them in groups of 3 and be certain to print a copy of the Purge pattern after every 3 cleaning cycles. This resets the printer firmware so that you get a medium, long, and short duration cleaning cycle. If you don't do this, you will only get short cleaning cycles after the 3rd one. Running several short cleaning cycles will cause nozzles to drop out. If you are still having problems after about 3 or 4 sets of 3 cleanings, then let the printer rest for a few hours or overnight and try again later. This has worked on many Epson printers in the past. It gives the air bubbles in the ink a chance to rise to the surface and get out of the printhead.

Don't let your ink bottles get empty. Refill them when they are at the 1/4 full level. Before pouring new ink into your bottle, transfer the ink that is left into a clean glass or jar. Then wash out the CFS ink bottle with soap and water. Then refill with leftover ink and new ink. This keeps algae from building up on the walls of the bottle and causing premature ink failure. An easier method is to order a spare set of empty bottles, and keep them on hand, clean and ready to use.

If an ink does not print. Remove the tube from the bottle, lift the cartridge out, and suck out a little ink, not more than 2 cc, to eliminate any air locks that may be present. Use the syringe and bottom fill adapter, then reinstall. If you have all colors printing but you are having problems getting a perfect nozzle pattern after several cleaning cycles, then let the printer rest overnight and try a few cleaning cycles in the morning.

For additional technical assistance please read our CFS Troubleshooting Guide or visit our online HelpDesk.