Installation Instructions: Epson 1430 CFS

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 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. If you need to run no more than 3 cleaning cycles, get new cartridges. Do not proceed until you can pass these tests. The Purge6 image can be found on our Purging Procedures page (http://www.inksupply.com/purging.cfm)

The CFS kit contains:

1x	Empty CFS cartridges with tubes.	6x	Velcro Dots.
1x	Acrylic Bridge Bracket.	6x	Bottles with CFS caps.
1x	Pair gloves.	6x	10ml syringes (MIS-SYRINGE).
2x	Beige clips.	6x	Bottom Fill Adapter (MIS-FADP).

Installation Instructions

Step 1:

Gather the recommended tools below;

- Flat tip screwdriver (1/8" - 1/4")
- Scissors
- Ruler or Tape Measure

Papers towels and a marker may also be useful.

Fig. 1

Step 2:

With the printer on, press the ink change button indicated by the ink droplet. In Fig. 2, the button is located to the far right.

Fig. 2

Step 3:

Without powering off the printer, unplug the printer from the wall.

Fig. 3

Step 4:

At this point the printer carriage will be centered in the right opening in the printer top as shown in Fig. 4-1.

The printer carriage lid is removed in 2 parts. The first involves removing the right most hinge clip, then releasing the left hinge pivot point.

Fig. 4-2 shows the location of the right clip. Using the screwdriver as shown in Fig. 4-3, gently pry the clip to the right to release it. It may take some force as the clip is held in place by a plastic barb.

Fig. 4-1

Fig. 4-2

After the clip is removed, the left side of the cover is easily removed by inserting the screwdriver into the pivot point and turning it. This is shown in Fig. 4-3.

Fig. 4-5 shows the cover and the right side clip once they are removed from the printer.

Fig. 4-3

Fig. 4-4

Fig. 4-5

Step 5:

With the ruler or measuring tape, measure 4.75" from the left edge of the cross member on the top of the printer as shown in Fig. 5.

Remove the protective film from the clear acrylic Bridge Bracket and install it with the right edge of the Bracket lined up with the edge on the ruler. The Beige Clip on the Bracket should be on the topside, left as shown if Fig. 5.

Fig. 5

Step 6:

Install the CFS Assembly into the printer carriage routing the tubes under the cross member as depicted in Fig. 6.

Fig. 6

Step 7:

Fig. 7-1 gives a better angle on the routing of the tubes after the installation of the CFS Cartridge Assembly.

The 2 Beige Clips are used to align the tubes and will be installed in such a way as to keep the tubes in line from the Bridge Bracket to the right edge of the printer.

As shown in Fig. 7-2, the first Beige Clip is installed on the left side of the cross member in the top of the printer. Fig. 7-3 shows the location and orientation of the second Beige Clip on the right side top of the printer. This will create a straight line for the tubing from the Bridge Bracket on the left to the Beige Clip on the right.

Before closing the Beige Clips on the tubing, slide the printer carriage to the far right and adjust the tubing to ensure that the tubing is not pulled tight at the Bridge Bracket, but also does not hang loose. You will need to slide the printer carriage from right to left to ensure that the carriage is able to move with no restriction or resistance from the tubing. If the tubing becomes tangled or twisted at any point during the carriage's travel, the tension will need to be adjusted.

Fig. 7-1

Fig. 7-2

Fig. 7-3

Too Tight **Correct** Too Loose

Step 8:

Pour the ink from each of your ink bottles into the corresponding CFS Bottle. This step is very important as mixing up the inks will irreparably contaminate the CFS Assembly.

Fig 8

Step 9:

Attach each of the CFS Bottles to the printer using the included Velcro Dots. To fit all six bottles the first bottle must be installed at the very front edge of the printer.

From Front to Back the bottle order is as follows;

Cyan - Magenta - Lt. Magenta - Lt. Cyan - Black - Yellow

Fig. 9

Step 10:

Verify, from Front to Back the bottle order is as follows;

Cyan - Magenta - Lt. Magenta - Lt. Cyan - Black - Yellow

Next, split the excess tubing back to the right most Beige Clip. Route the front most tube to the Cyan Bottle and using the scissors, snip the tuba and plug it onto the Cyan Bottle fitting. Repeat for the remaining tubes. The end result should look like Fig. 10.

Fig. 10

Note: The tubing should route cleanly into the bottle with our being pulled tight, but also should not be loose enough to allow the tubes to sag.

Step 11:

Attach a Bottom Fill Adapter (MIS-BADP) to each of the 10cc Syringes (MIS-Syringe).

Remove the CFS Assembly from the printer carriage and flip it upside down.

Fig. 11-1

Using the 10cc Syringe draw 20cc's of air from the Cyan Cartridge. This will fill the cartridge with ink, but should leave a 1/2" - 1/4" gap of air in the cartridge. Repeat on the remaining cartridges using a clean syringe on each cartridge. It may be helpful to mark the color position on each of the syringes to keep them organized.

Fig. 11-2

Note: The air gap is critical to proper CFS function. Overfilling the cartridge can damage the CFS unit or printer.

After filling all six cartridges, flip the CFS right side up and, starting with the Cyan Cartridge, use the 10cc syringe to draw 2cc's of ink from the bottom of the cartridge. Again, it is important to use the same syringe that was used to prime the Cyan Cartridge. Repeat with the remaining cartridges.

Once primed, the CFS Assembly can be reinstalled into the printer carriage.

The ink removed during the priming procedure is clean and can be put back into the corresponding bottle.

Once complete, the syringes can be rinsed with warm water and air dried before storing.

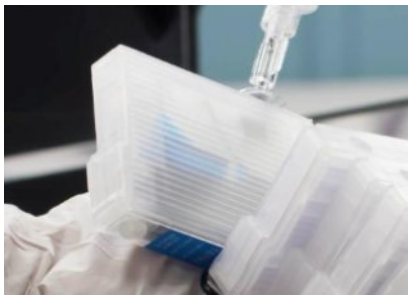

Fig. 11-3

Fig. 11-4

Step 12:

Using your hand, push the printer carriage all of the way to the right. This **must** be completed before plugging the printer in or turning the printer back on.

Fig. 12

Step 13:

Plug the printer back into the wall.

Fig. 13

Step 14:

Turn the printer on by pressing the power button. The printer carriage will slowly move from right to left several times to re-calibrate its' position.

Fig. 14

Step 15:

It may require 2-3 cleaning cycles to fully prime the system and printer. Run several MIS purge6 prints after installation to ensure that no banding is present.

Fig. 15

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The Care and Feeding of a CFS -

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

These systems work best if they are used often. Daily use is best, but at least one print every 2-3 days is the minimum. If you are an infrequent printer or only print once or twice a week, a CFS unit might not be a good fit for you.

If you have to do cleaning cycles, do them in groups of 3 and be certain to print something after the 3rd cleaning. We recommend printing a copy of the Purge6 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 print head.

Don't let your ink bottles run 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. Once the bottle is dry, 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.

If an ink does not print. Remove the tube from the bottle, lift the cartridge out, and use the syringe to 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.