Your Low Cost Printing Solution Since 1994

Installation Instructions: Epson Stylus R1900 Bulk Feed 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 software provided by Epson. Once a perfect nozzle pattern is achieved, print 5 copies of the MIS *purge4.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 can not do this, **do not** install the CFS. Run some cleaning cycles or get new cartridges. Do not proceed until you can pass these tests.

You can also get it from the Helpdesk Download Library. If you have a Mac you can download it from our website.

Tools & Materials Needed –

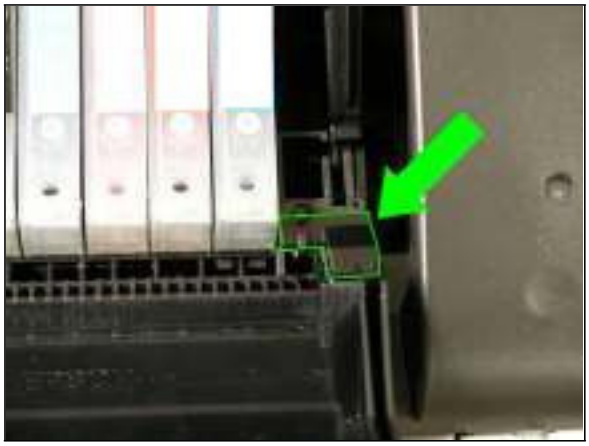
- MIS R1900 CFS Unit, ink, and a working Epson Stylus R1900 Inkjet printer
- 2 Small flat tip screw drivers
- Some paper to print on
- Alcohol and some paper towels
- Ruler or measuring tape
- Pair of scissors

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 cover also needs to be removed. This is the gray colored cover that holds the cartridges down when they are installed in the printer.

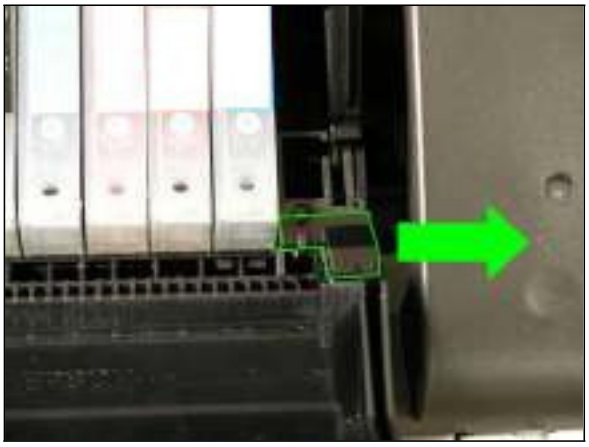
   First, locate the cartridge cover retaining clip, it is located on front right of the printer carriage. INSTALLATION NOTE -. Attempts to remove this cover may result in damage to the cover. The absence of this cover does NOT prevent normal operation of the printer in any way.



Cartridge cover clip

Next, using a small flat tip screwdriver, carefully pry the clip to the right so it will unlock from the printer carriage and release the carriage cover. The clip will provide some resistance so you

may need to pry in several locations to get the clip to release.

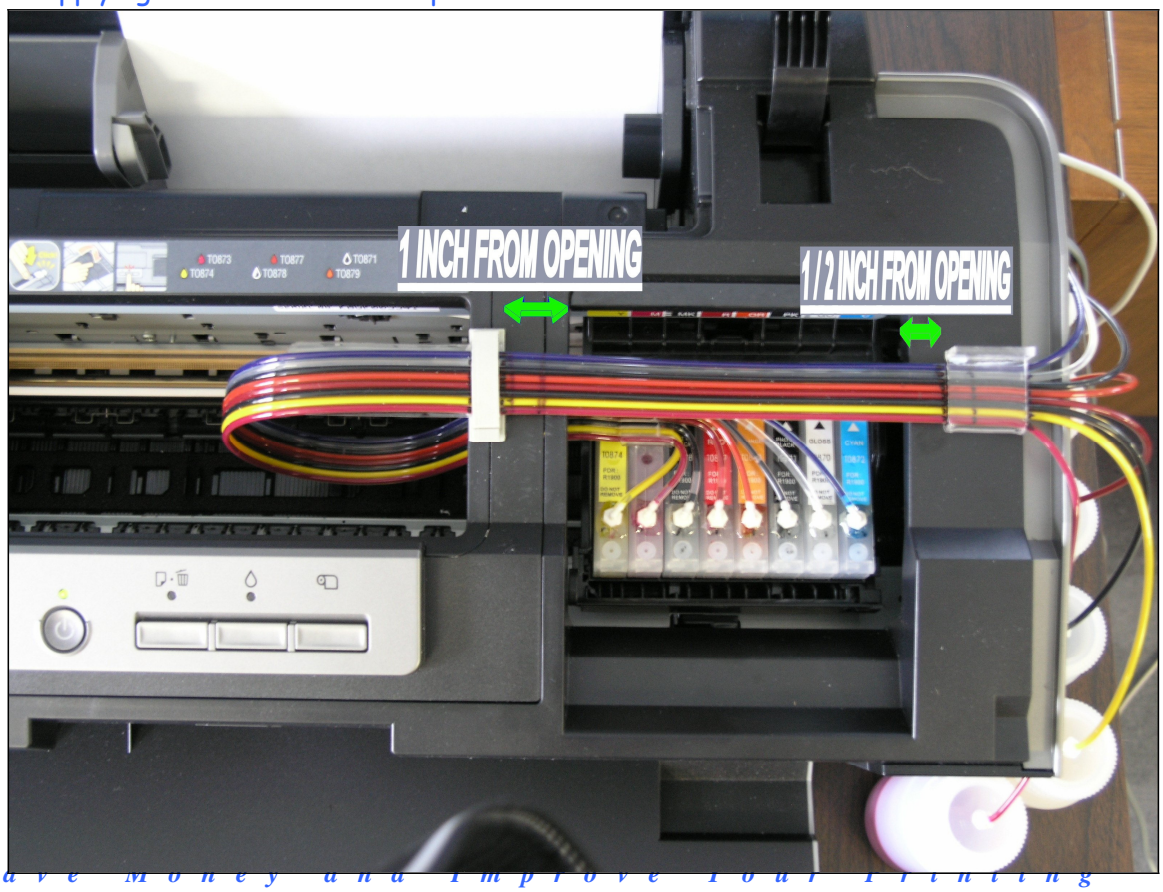


Gently pry clip to the right to remove

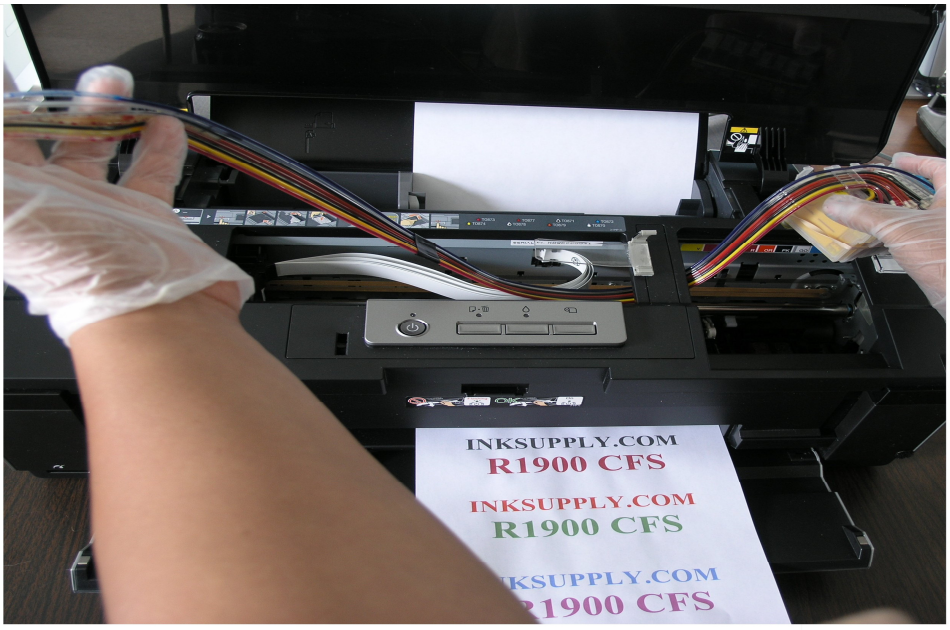
When the clip releases it can be removed

4. Remove the OEM cartridges from the printer and store them in separate zip lock bags. It is best to save these cartridges so that they can be used for diagnostic purposes or if the printer must be sent in for service.

5. The next step is to mark the location of the R1900 Bridge Bracket. This bracket must be accurately located for proper system operation and to avoid complications. We have enclosed a diagram below in order assist with accurate placement. We recommend cleaning the area with rubbing alcohol then peeling and applying the double-sided tape.

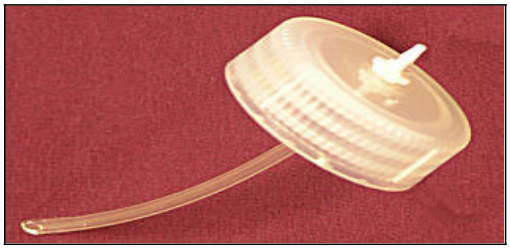


6. When threading the tubing through the printer ensure the tubing is straight and not curled in any way. Similar to the photo below.



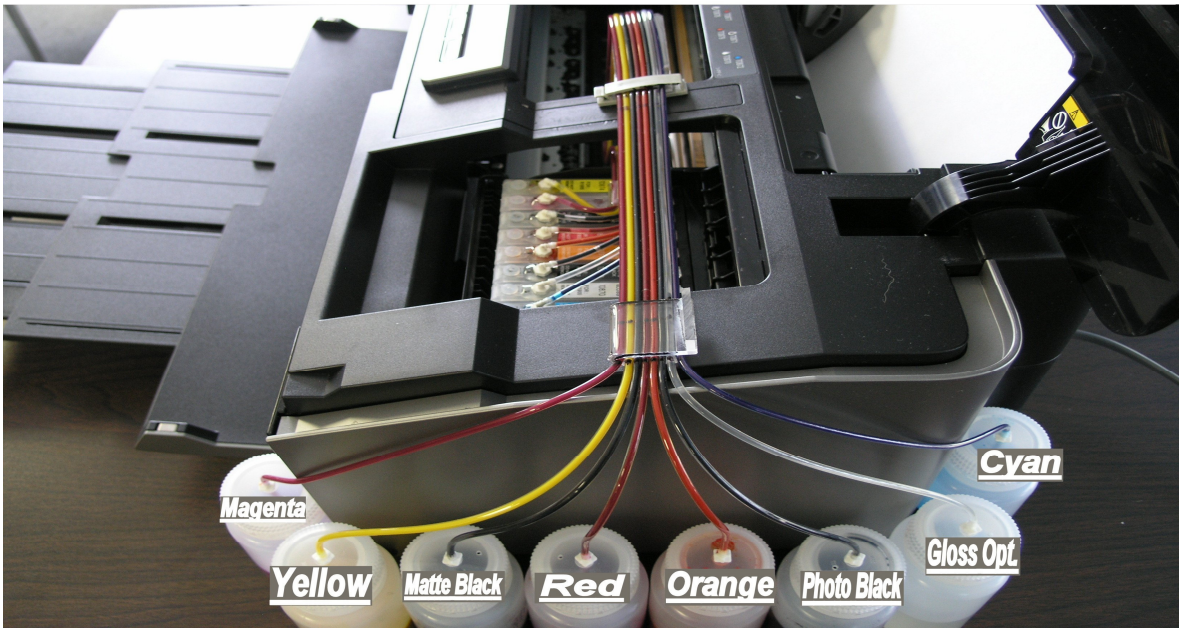
7. Put the CFS cartridges into the printer. Carefully align them Yellow is on left and Cyan on right. Do not allow the tubes to get out of order. Push down on the cartridges until they click into position. **This is very important.** When all in, they should look like the photo in step 5. Your system will have an electrical tape marking at 14 inches from tubing bracket located on the magenta cartridge. This mark is where the tubing should be inserted into the first bracket on the left in the photo. When threading the tubing through the second bracket on the right the tubing should lay straight and firm.

8. Remove the caps from the ink bottles and replace them with the caps from the package supplied with your CFS system.



9. When installing the bottles on the side of the printer to sure to use the Velcro dots to secure them to the side of the printer. Also this is a good time to use the scissors to cut any excess tubing away. Be sure to install the tubes one by one and after trimming there is enough tubing to completely cover the barbed fittings on the bottle. Once trimmed install the tubing to the correct bottle fitting. Please be sure to double-check your bottle positions to avoid possible cross contamination. Follow the diagram below for bottle placement. Also be sure to check the tubing to be sure they are being fitted to the correct bottle, we stress this fact because once a cartridge is contaminated it will have to be purchased again.

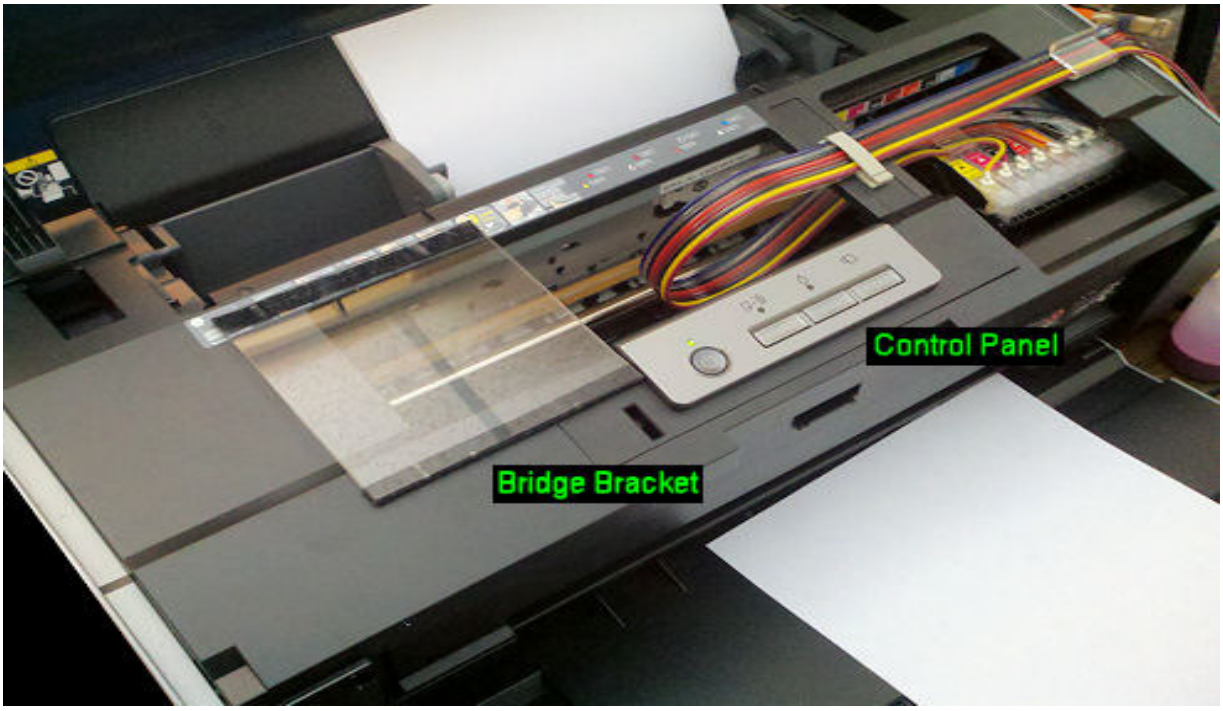
Note: **SAVE THE WHITE PLUGS** as they will be needed if you ever remove the CFS System.



10. Installing the cover switch activator is done by slipping the switch activator over the OEM activator, which is the protrusion on the underside of the printer lid. This will allow the printer cover to sit flush as well as keep the cover switch activated to avoid printer errors.

11. Installation of tube guide bridge bracket. Inside the package you will find a 5" x 5" inch clear bridge bracket. This bracket is used to relieve some the strain of tubing travel during daily use. The bracket will have two sides that contain Velcro strips that will need to be attached to your printer by removing the protective tape from the bottom part of the Velcro strip. Before removing the strip, be sure to line up the bracket in the correct position first before removing the adhesives protective tape. This bracket will line up directly with the control panel on the top of the printer housing as shown in the image below…

    Notice that the bottom edge of the top Velcro strip lines up exactly with edge of the printers opening. Also it is recommended to clean the area using rubbing alcohol before applying the bracket.



12. Push the cartridges to the far right and reattach the printer power. **Turn on the power** on the front of the printer if needed. Have your computer and graphics program up and ready to go.

The printer should come on and move back and forth a few times and perform a cleaning cycle. When it stops moving, only the green light should be on.

A red light at this point is not a good thing. It indicates that one of the cartridges is not seated all the way down. Go back to Step 5 and make sure that all the cartridges have clicked into position. Check each one with a red light, lifting it just slightly if needed, and reseat them until they click. Before printing, use the printer properties and Epson utilities to check the nozzles. The nozzle pattern may not be perfect at this point.

Run 3 cleaning cycles if necessary to achieve a perfect nozzle pattern. When all the nozzles are present, print a copy of the purge8.tiff. As long as the print is satisfactory and all the nozzles are present, there is no need to do any further cleaning cycles.

The tubes are normally full, but if your tubes are partially empty, don't worry about the inks, it will take several (20 or more) prints for the inks to reach the cartridge and fill any gaps you may have in the tubes. There is no particular order in which they will get there.

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 frequently, daily is best, but at least every few days. If you are an infrequent printer or only print once or twice a week, then you should install our AUTOPRINT program (download it for free from our CFS page). Autoprint will make a printout using our Purge8 image 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 something, we recommend 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 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