Installation of In-Line Filter for Black Ink Pump

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IRIS TECHNICAL NOTE

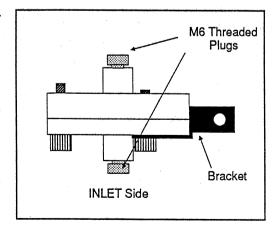
Installation of In-Line Filter for Black Ink Pump

This procedure describes how to install the **Kit Filter** — 25 mm. (IRIS part number 01565-001 — Rev. B) into the ink line that runs between the black ink pump (pump no. 4) and the black ink nozzle. Installation of this assembly is designed to protect the nozzle assembly from failure due to aggregation of particles in IRIS black ink (part number 01164-005).

WARNING: During normal operation, ink lines are subjected to ink pressures of up to 725 lbs. per square inch. It is crucial in re-routing ink lines to take great care not to stretch, pinch or otherwise crimp or damage ink lines. Do not bend the lines tightly.

0.1 Installation Procedure

- 1. Turn off the printer (using the circuit breaker or the On/Off Switch on the right front of the printer), open the printer cover, and remove all four ink bottles.
- 2. Insert vents (for example, hollow coffee stirrers) through the septum of all bottles to eliminate ink seepage from bottles.
- 3. Remove the two screws that secure the Ink Pump Cover (IRIS part number 01139-001) and lift out the cover.
- 4. Stop here and take a moment to examine the filter. You will note that the
 - INLET side of the filter is marked with a black dot. If there is no dot present, you can identify the INLET side as the side to which the bracket is mounted. If the filter assembly is not oriented correctly, the filter will be useless.
- Remove both dummy plugs from the kit filter and save them. Be sure that the Orings remain in the filter.





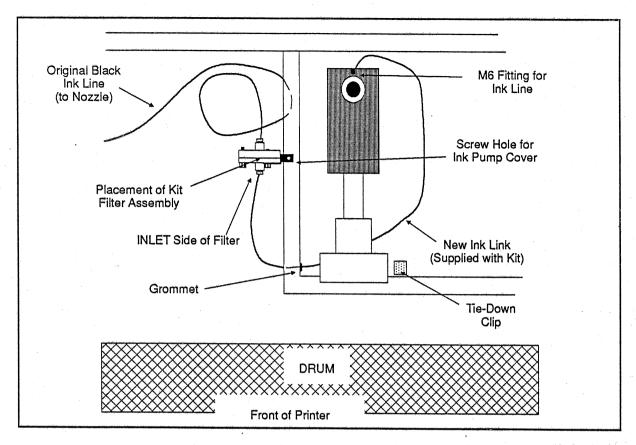
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- 6. Unscrew the existing black ink line at the pump end. Move the pump aside and cut the plastic tie-down (if any) that secures the four ink lines in the ink pan. Be very careful not to cut or even nick an ink line as you cut the plastic tie-down. Do not spill ink on the pump electronics. Be sure to wipe up any ink spilled in this process.
- 7. Identify the black ink line as it exits the ink pan through the grommet and gently pull the line through the grommet hole and completely out of the pan. Coil the ink line carefully and attach it to the OUTLET side of the filter assembly.
- 8. Note that the ink line supplied with the filter assembly is between 18 and 24 inches long and may include a splice. Connect one end of this to the fitting on the pump from which you had previously removed the original ink line. Be certain that the O-rings are in place within the fitting. Route the ink line along the right side of the pump (as you face the front of the machine). Pass it under the pump and through the grommet hole. Attach the other end to the INLET side of the Kit Filter. Dress the lines under the pump so that they do not interfere with pump movements, making sure that there are no sharp bends in the lines.
- 9. Take a moment to review the routing and position of the ink lines. Use the illustration for comparison. Then, after you have made sure that the ink pump is properly seated, reinsert the black ink bottle, turn the printer on, and run the knife-edge adjustment procedure for pump number 4. (You can leave the Ink Pump Cover off and allow the filter to rest next to the pan until you



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have completed testing and adjustment.)

- 10. Turn off the printer and inspect all lines and connections for leaks.
- 11. If there are no leaks, remove the black ink bottle and reinstall the ink pump cover, taking care to align the hole on the Kit Filter bracket with the screw hole for the cover. The filter sits outside the ink pan, as shown in the illustration, and is held in place by the cover screw. Be sure that ink lines and wires are not pinched when you reinstall the cover.
- 12. Reinsert the ink bottles and turn the printer back on.

0.2 Filter Maintenance

The black ink pump filter described in this document has an expected life of 50 bottles of the IRIS black ink (part number 01164-005). A HIGH PRESSURE — PUMP 4 error message may indicate that the filter is clogged. If you encounter this error message, contact IRIS Graphics for Technical Service for procedural instructions. If you need to ship the kit filter to IRIS Graphics for repair or replacement, reinstall the plugs that you removed from the filter before you ship it.



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