

### Damper Replacement

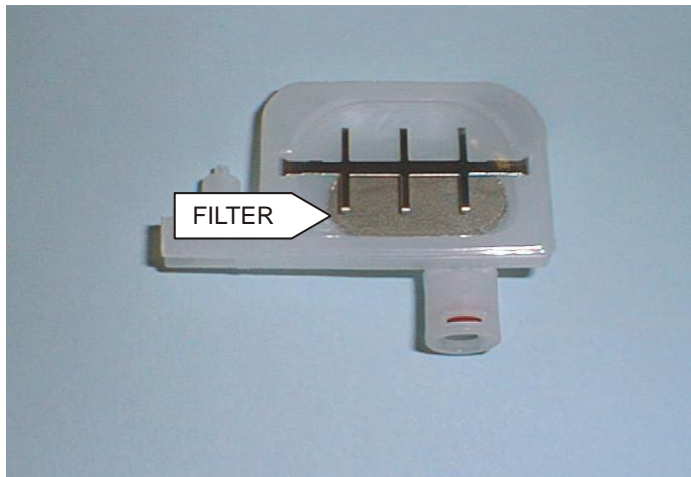
Tech Note Number: 607

Total number of pages: 4

Date: December 21, 2009

**Applicable Models:** AnaJet SPRINT printer series

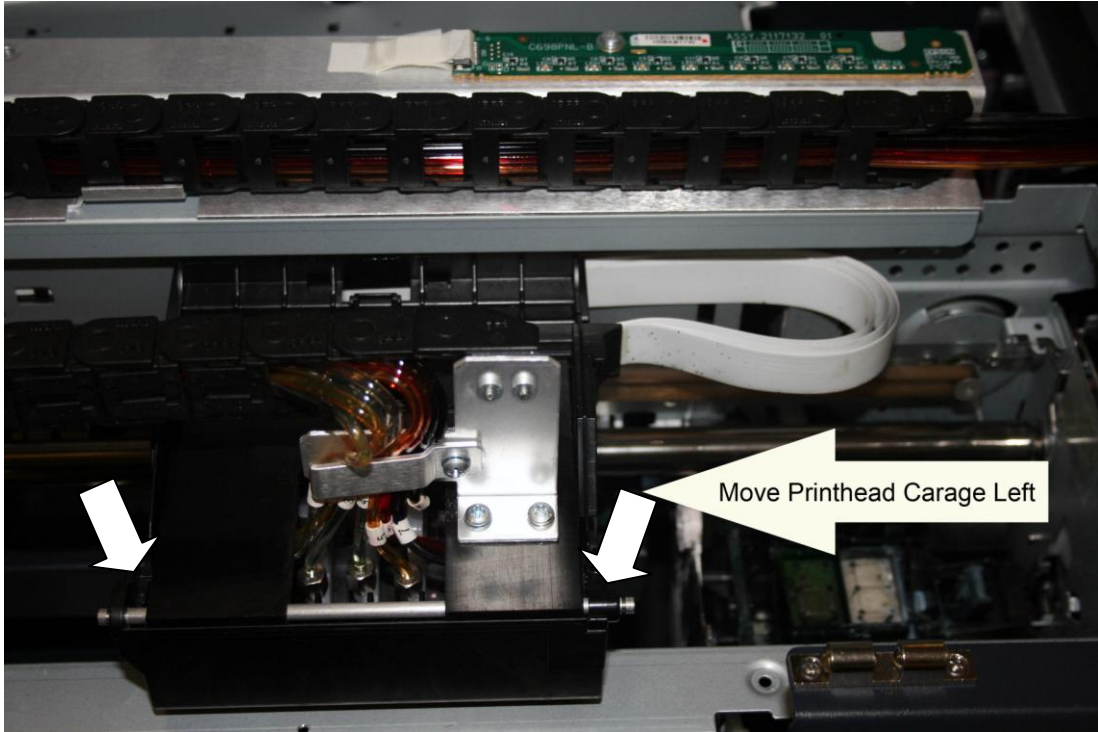
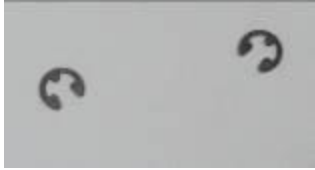
To minimize pressure surges in the Print Head when the Print Head Carriage moves from side to side, a device called a Damper is utilized. The Damper also filters the ink before it enters the Print Head. If there are persistent problems with ink flow, the Dampers and Tubes should be inspected and replaced as required. There are eight Dampers and Tubes in the printer, one for each ink channel.



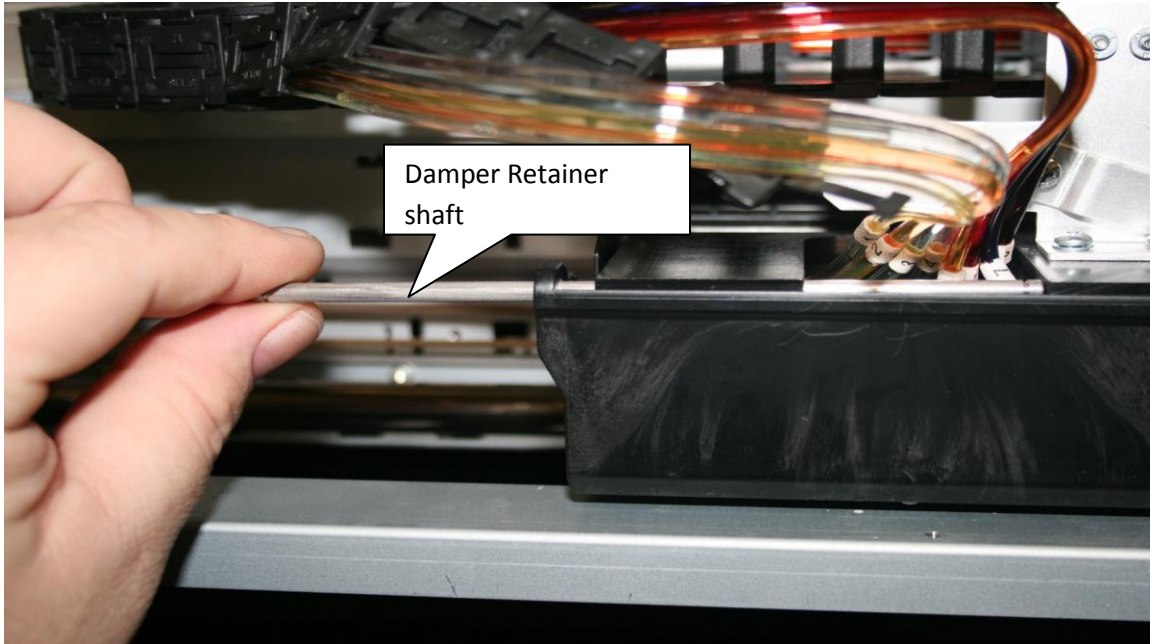
Damper Part Number 100540

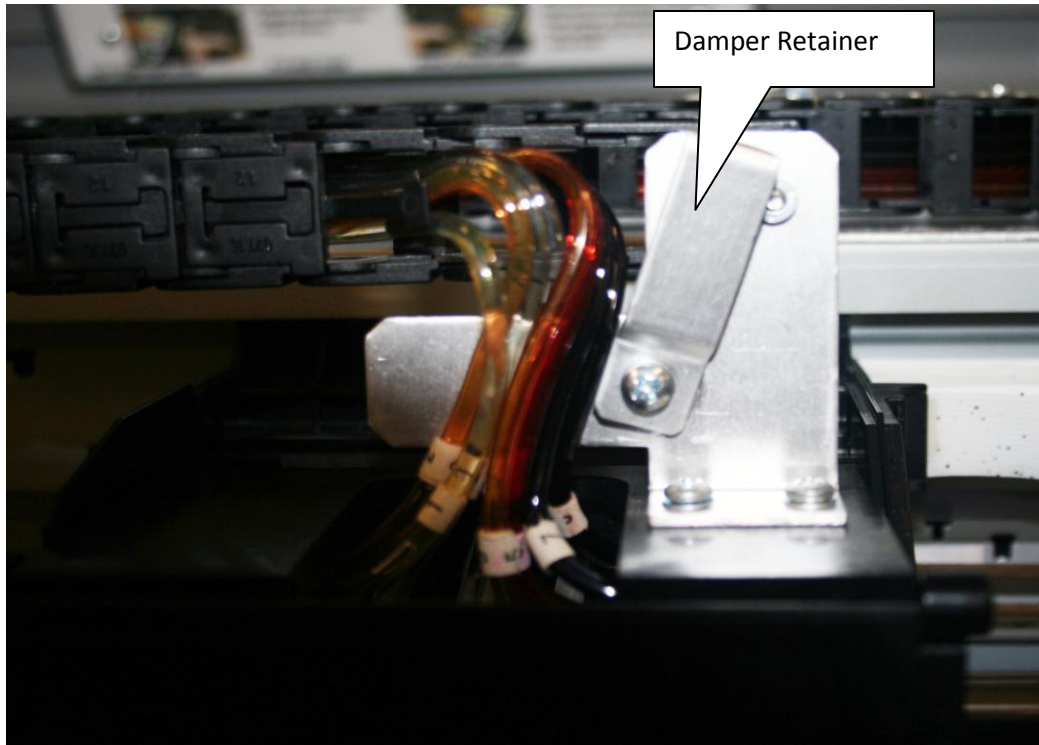
Follow these steps:

1. Power down the printer, the Print Head Carriage can be left moved to the left as done when performing a weekly maintenance.
2. Remove the two E-Clips holding the Damper retainer shaft in place. Be careful not to break any of the plastics components. You may use small flat bladed screw driver or small pair of needle nose pliers to do this.



E-Clips locations are indicated by the small arrows above.





3. Unscrew the clamp holding the Ink Tubes in place, and remove the DDamper Retainer Shaft.



4. Peel back the first three sections of the tube carrier links, and lift off the Damper Retainer.



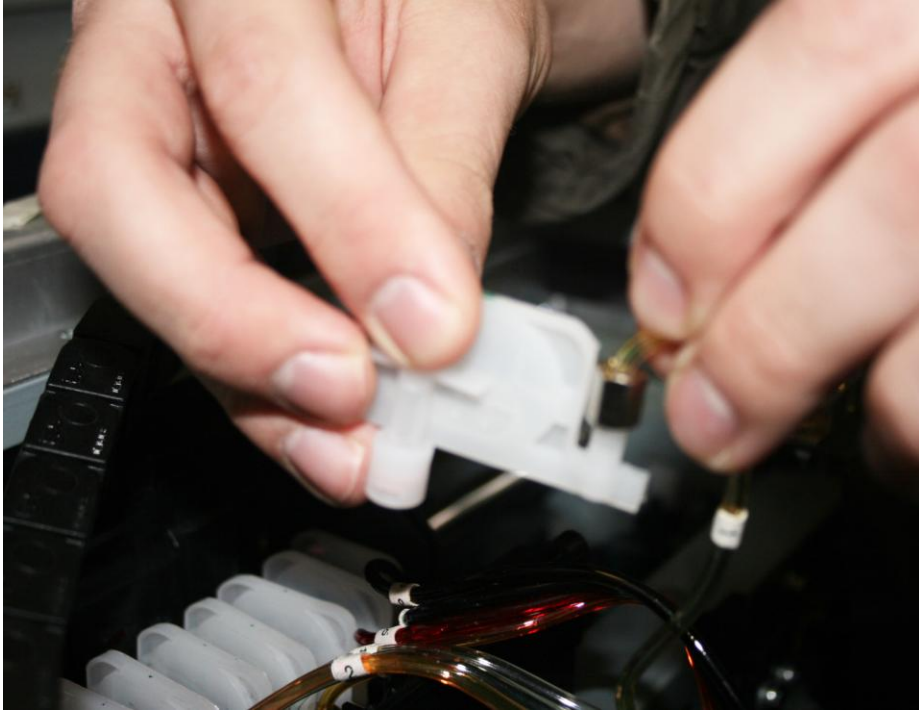
5. Remove the Damper from the Print Head. Lift straight up and be careful not to damage the thin plastic membrane on right side of each Damper.

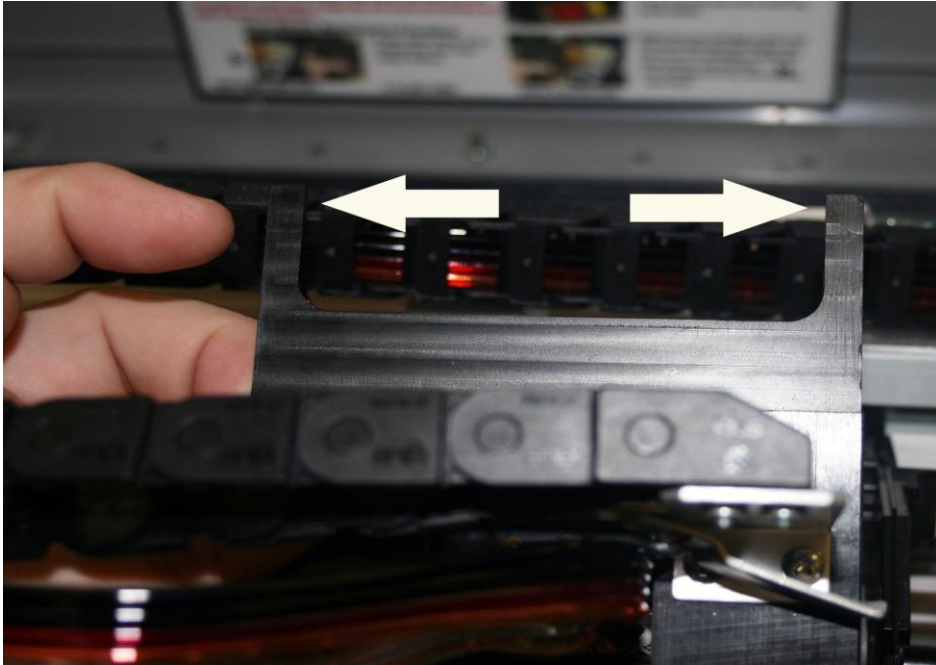


6. Do not press on the thin plastic membrane on the right side of the Damper. Inspect the Damper for dried ink on the OO-ring at the bottom that provides a seal on the Print Head.



7. Also inspect the Damper for evidence of caked pigment in the area behind the Damper Diaphragm.
8. Further inspect the filter for clogging.
9. Replace the Damper if any of these conditions exists.
10. To replace the Damper, carefully loosen the hex fitting connecting the Damper to the feed tube. Do not touch the OO-rings with bare hands; oils from your fingers may deteriorate the OO-rings. Use rubber gloves.
11. Slide the hex fitting and the OO-ring seal back on the feed tube and remove the tube from the Damper.
12. Inspect the O-ring for damage; replace if damaged. To replace the O-ring, moisten it with Cleaning Solution and press the end of the tube through the O-ring. Slide the O-ring back about ½ inch onto the tube.
13. To install the new Damper, first moisten the end of the tube and the O-ring with Cleaning Solution. Insert the tube into the Damper inlet ensuring that the tube is pushed fully into the inlet. Slide the O-ring down against the top of the inlet. Moisten the O-ring again with Cleaning Solution and tighten the nut to 9 to 11 N cm (13 to 16 in ozf). This is approximately finger tight. Don't over tighten as this may restrict ink flow.
14. Reinstall the Damper retainer making sure that back two prongs are inserted into the Print Head Carriage rather than simply resting on top.





15 Reinstall the Damper Retainer Shaft and power on.

