

# Technical Bulletin

## Damper Replacement

### Applies to:

Mutoh RJ-900 Pro / GO RIO / GO dMax

Mutoh VJ-1204

Mutoh VJ-1304

### Tools required:

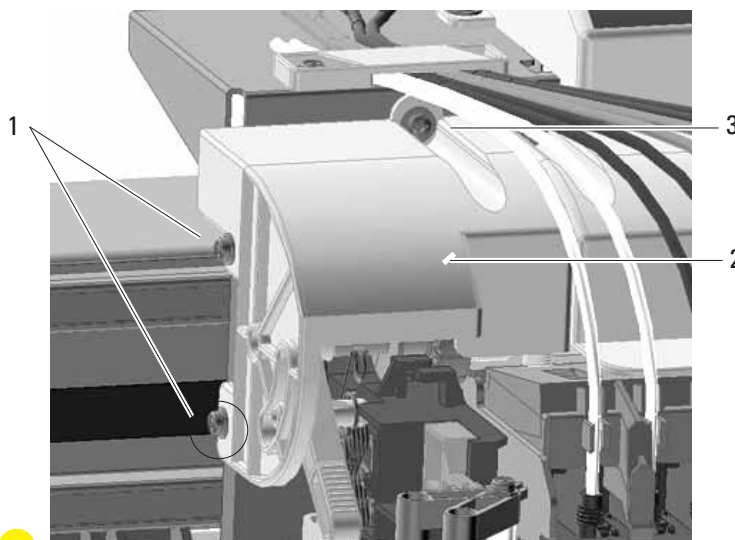
#2 Philips screwdriver

Small flathead screwdriver

Needlenose pliers

The damper assembly on the RJ-900, VJ-1204 and VJ-1304 is sometimes difficult to open for replacement. By following the steps in this document, the dampers may be replaced with a minimum of time and effort.

1. Place the machine into "Transport Mode" to drain out any ink in the system. To do this, first check the level of the waste tray / bottle and drain and reset the counter if necessary. Then remove all ink cartridges and press the power button. On the RJ-900, the machine will display "Transport Mode" and begin flushing. On the ValueJets, it may just display "Please Wait" if anything is shown.
2. Once the transport mode has completed and the machine is off, unplug it. Open the front cover and press the cutter solenoid / release solenoid down to unlock the head. Slowly slide the head carriage out to the middle of the platen.
3. Remove the left side cable cover as shown in Figure 1 below.

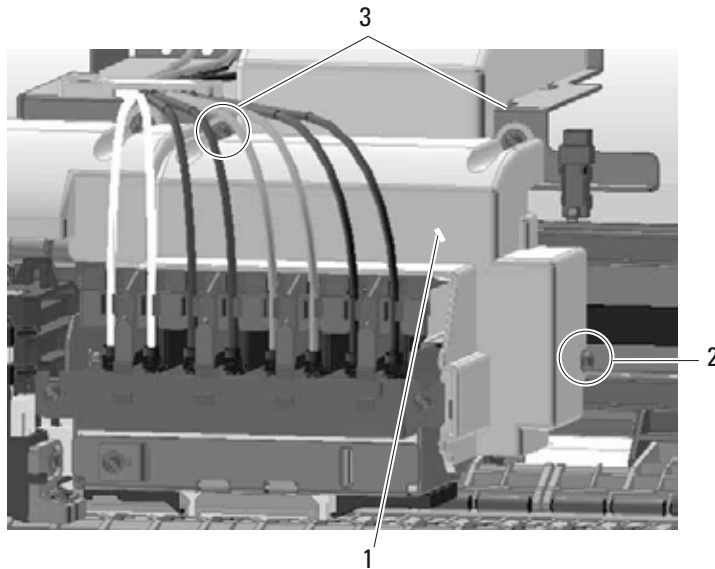


No.	Part name
1	Cable cover L screw (M3 × 8 pan-head screw with spring washer and flat washer W sems)
2	Cable cover L
3	Cable cover L screw (M3 × 8, S tight cup)

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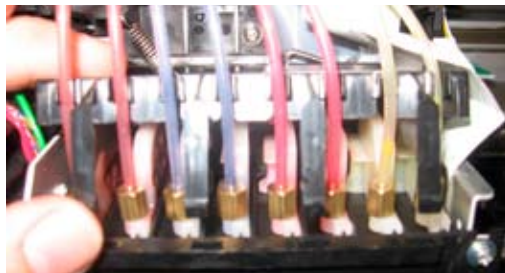
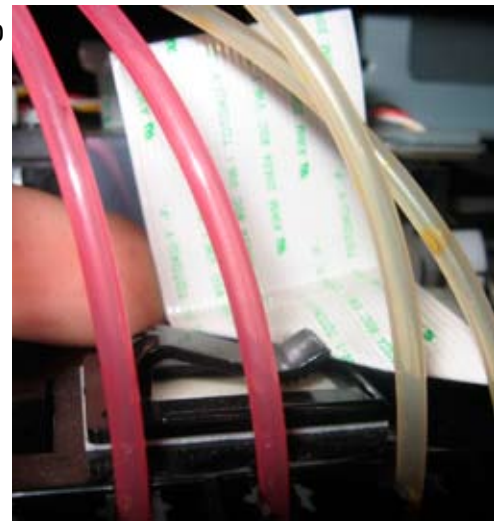
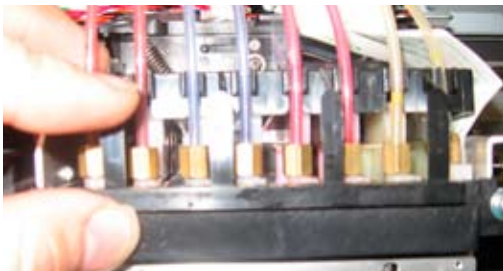
4. Remove the right side cable cover as shown in Figure 2 below.



No.	Part name
1	Cable cover R
2	Cable cover R screw (M3 × 8 pan-head screw with spring washer and flat washer W sems: 1)
3	Cable cover R screw (M3 × 8, S tight cup: 2)

5. Slide the Head FFC ribbon cables out of the clip at the top of the damper retainer, as shown in Figure 3 at right.

6. Starting from one side, press in the four clips while pulling up on the damper retainer until all clips are free. Pivot the retainer upwards, taking care to not kink or pull on the ink lines in the process. See Figures 4 and 5 below.



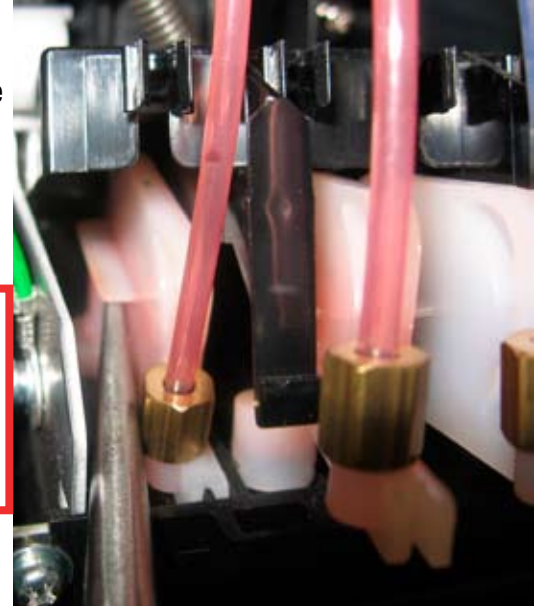
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7. Insert the small flathead screwdriver under the release tabs on the dampers and pry up until the damper is released. See Figure 6 at right for an example. Pull the damper out and unscrew the nut fastening it to replace. It is usually easier to spin the damper around the nut rather than turning the nut, since the O-ring inside the nut usually makes it difficult to turn.

### IMPORTANT NOTE!

Do not touch the plastic membrane on the side of the damper with your fingers or tools. If this membrane is damaged, ink will NOT flow through the damper and may spill out.



8. Place the new damper onto the ink line and screw it back in. If the nut moved when you were removing the damper, you may need to slide the nut up along the ink line to expose the O-ring. Once the O-ring is exposed, place the damper on the end of the line and push the line as far into it as possible. Make sure the O-ring is firmly seated against the rim of the damper fitting, then slide the nut back down and fasten by hand. Do not overtighten as you can strip the plastic threads on the damper and crush the O-ring.

### IMPORTANT NOTE!

The primary cause of a damper that does not remain filled with ink is an air leak along the supply line. If, after replacing a damper and charging ink, you notice bubbles going backwards along the ink line, you may have improperly installed the damper on the fitting or the damper may be punctured. Work backwards from the damper in this case to troubleshoot; another possibility, if the dampers have not been handled, is a crack or cut in the actual ink line.

9. Slide the new damper back into the head assembly. Using needlenose pliers, gently guide it into place and press down vertically. Do not twist the damper side to side as you can break the plastic fitting on the printhead easily.

10. Repeat steps 7-9 for all remaining dampers. Replace all covers in the reverse of steps 3-6.

11. Slide the head carriage back over to the right to lock it. Plug the machine back in and turn on. Insert all cartridges and allow the machine to refill, then run a nozzle check to confirm that all heads are firing.