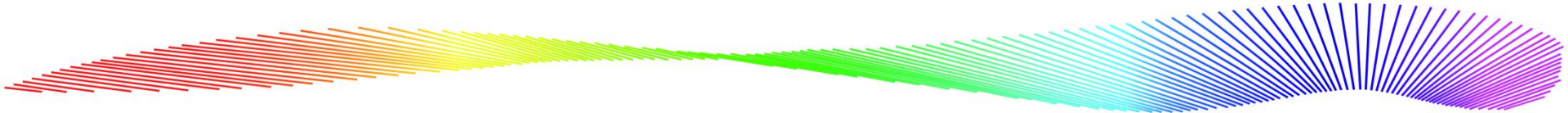
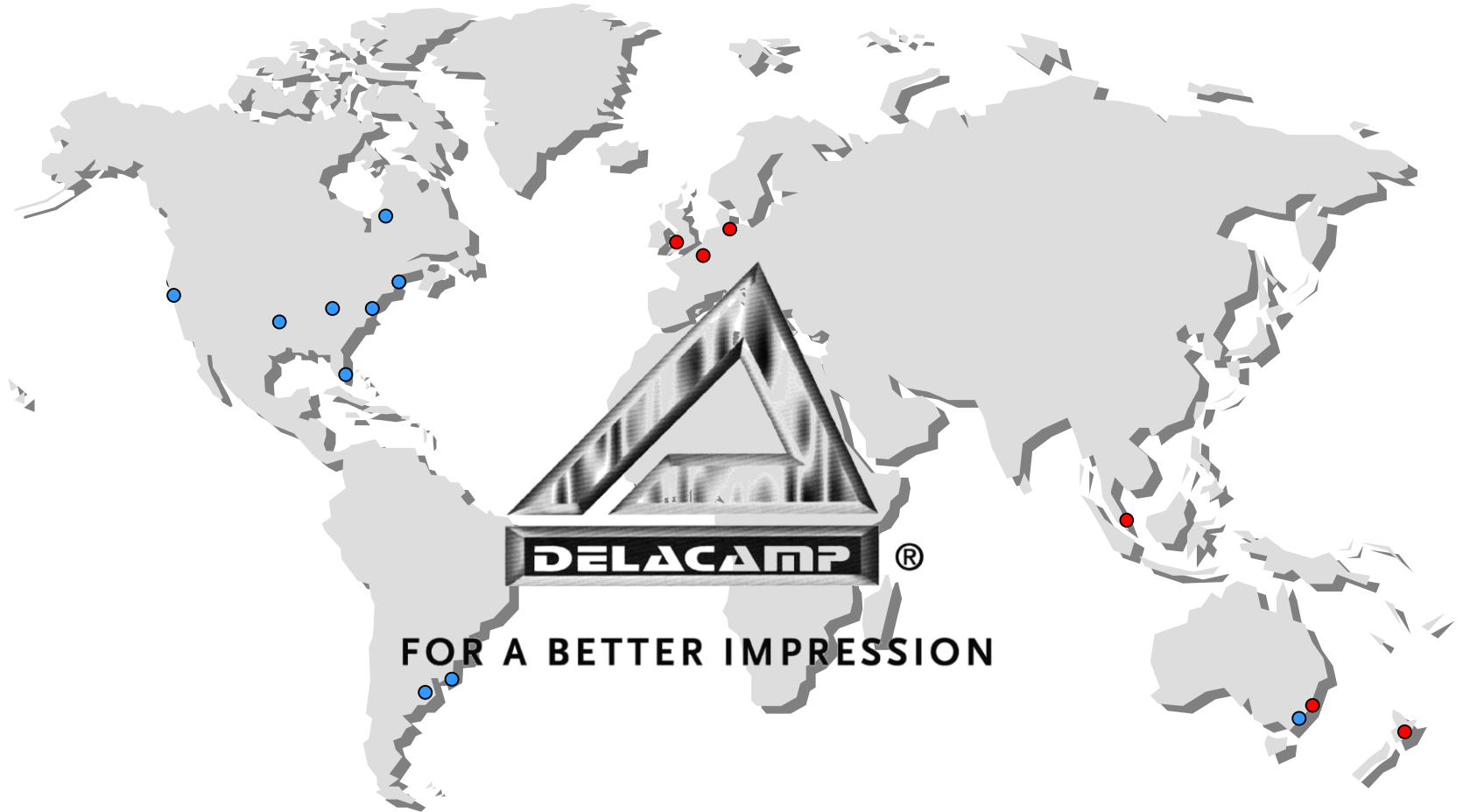


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Remanufacturing Instruction for

Samsung®

CLP415™

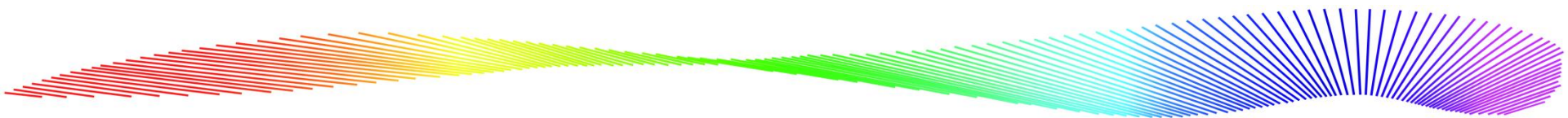
**CLP410/415/CLX4100/4195/
Xpress C1800 series/1810/1860**

Mihaly Sandor
Technician



- CLP-410
- CLP-415
- CLX-4100
- CLX-4195 series

- Xpress C1800 Series
- Xpress C1810 Series
- Xpress C1860 Series





Price (ca. 09/2015)
Ports

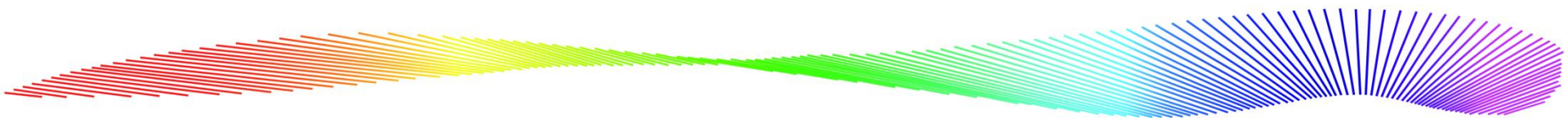
Samsung
CLP-415
180,00 Euro
USB 2.0 High-Speed,
Ethernet 10/100/1000 Base TX wired LAN

Printspeed
Resolution
Weight
RAM
Duplexunit / optional
OS

18 mono / 18 color
600 dpi (9600 x 600 enhanced)
16,6 kg
256 MByte
Manual
Windows , Mac OS (8.6-9.9, 10.1-10.4), Windows 98, Me, NT,
Linux 2000, XP, Mac OS
(10.3), Linux

Emulation
Paper tray
Additional paper tray / optional
Paper out
Guarantee

PL (Samsung Printer Language), PCL5Ce, PCL6C, PS3
150 pages
no
100 pages
2 Years / Bring In Service





CLT-K504 S/ELS

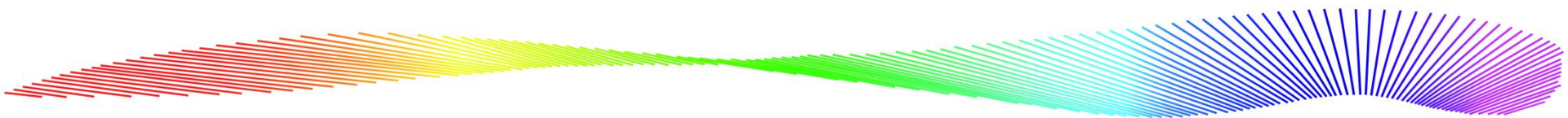
2500 pages (ISO/IEC 19798)

CLT-C504 S/ELS

CLT-M504 S/ELS

CLT-Y504 S/ELS

1800 pages (ISO/IEC 19798)

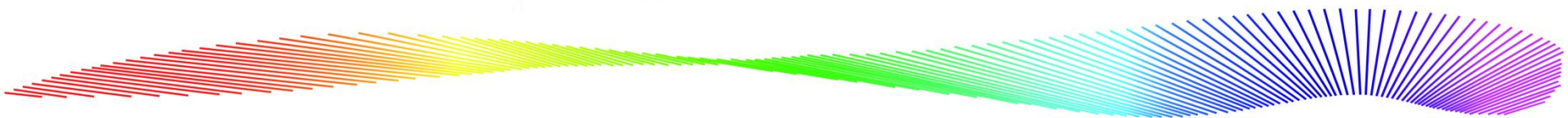
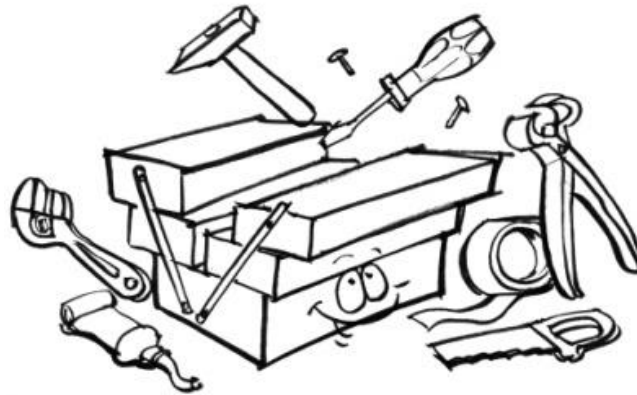


Supplies

- Toner
- Cotton cloth
- 99% Isoprophyl Alkohol
- Cleaning Cloth (Art.: 60316)
- Cleaning Cloth (Art.: 60315 / lint-free)
- Chip
- OPC
- Contact grease(Art.: 60310)
- Plastic grease(Art.: 60295)

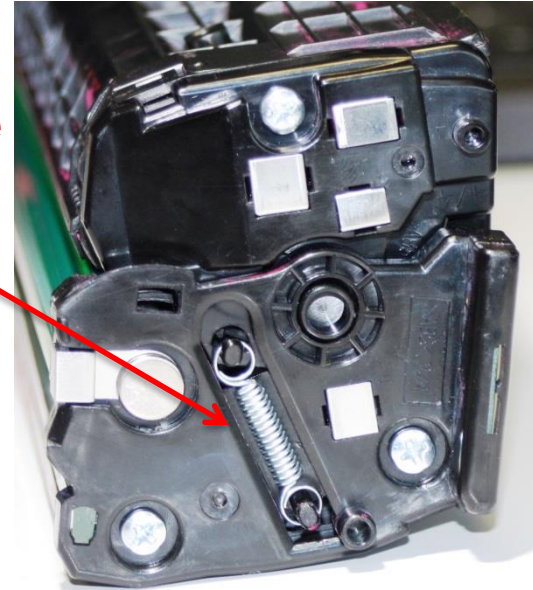
Required tools

- Vacuum cleaner for toner
- A small ccrewdriver
- Philipshead screwdriver
- Compressed air

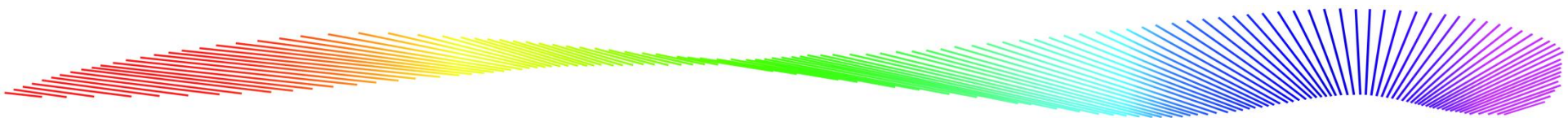


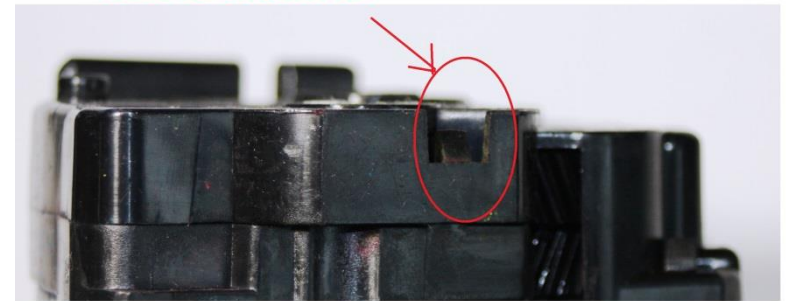
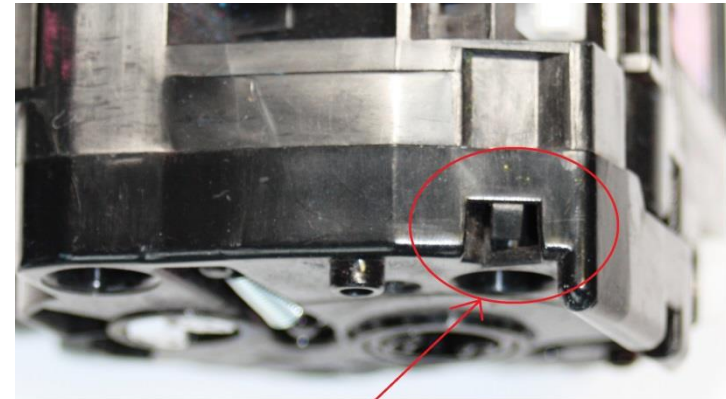
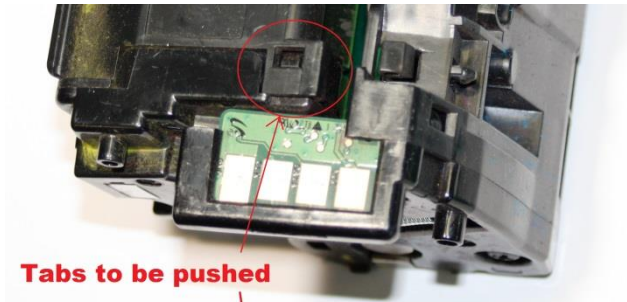


Remove
spring



1. Position the cartridge with the waste hopper on bottom and remove first the springs on the two sides.
2. Remove the two screw from the boths endplates

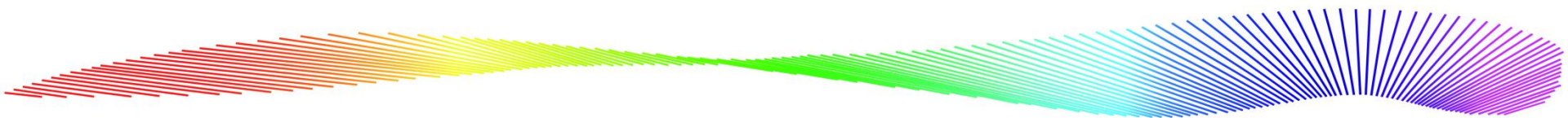




Left endcap

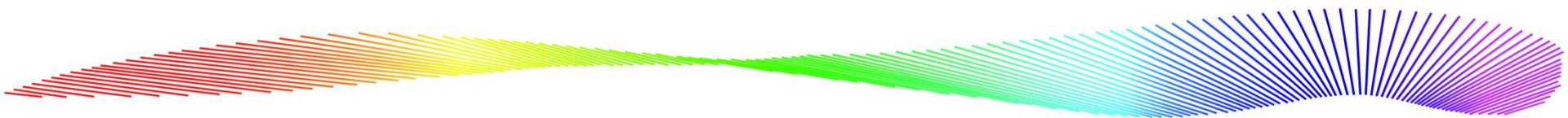
Right endcap

3.
Release the hooks to remove the end caps



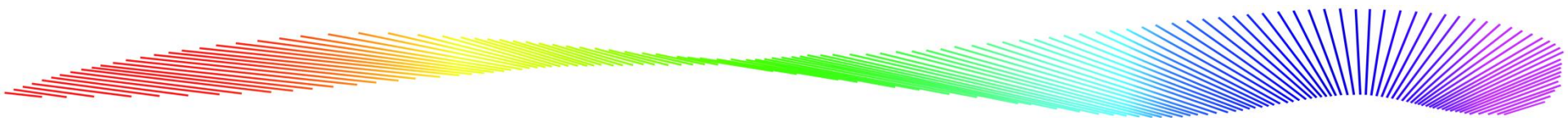


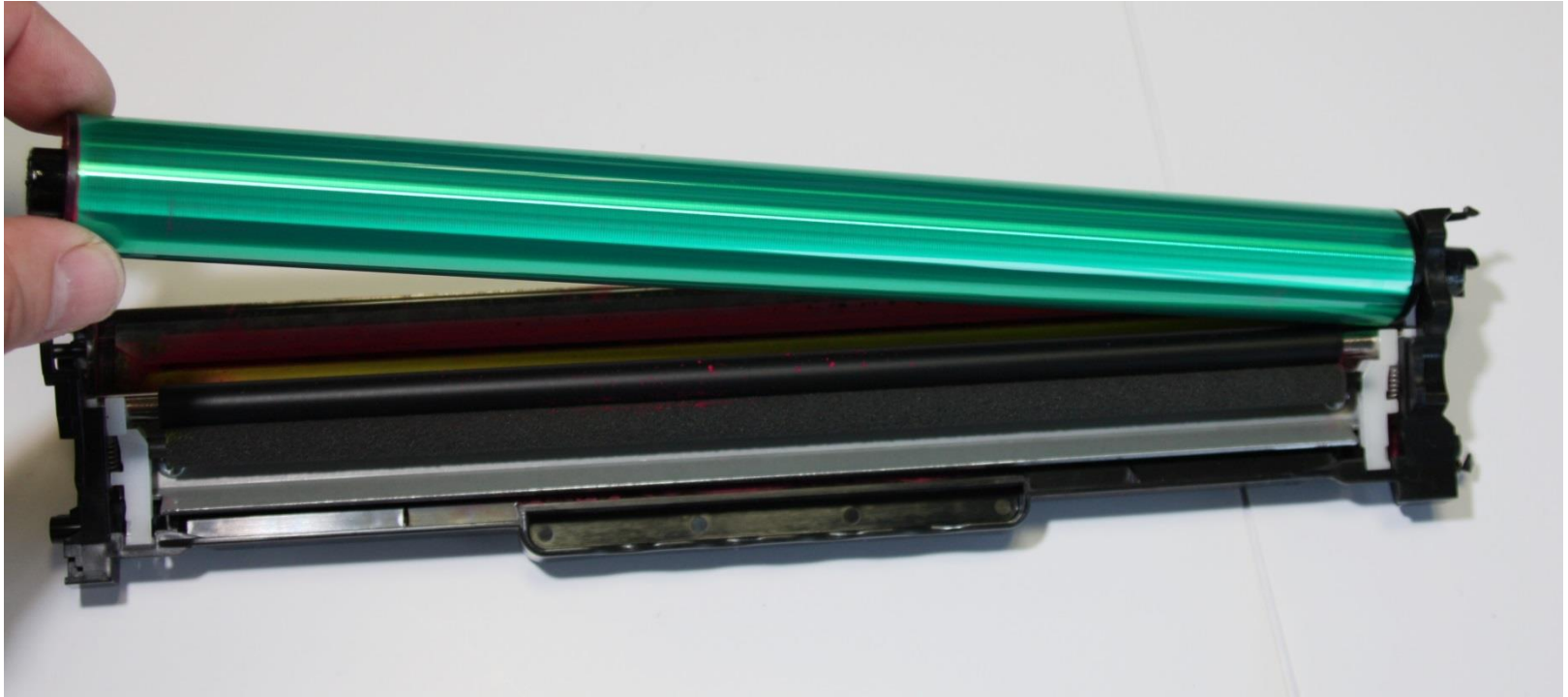
4. Remove the endcaps



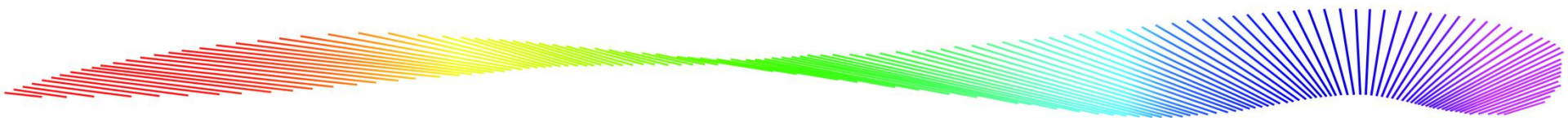


5. Take the waste hopper from toner hopper apart





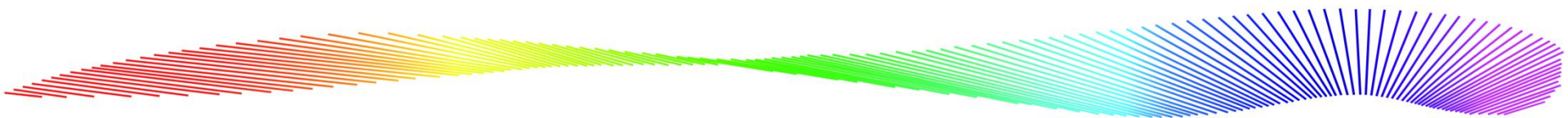
6. Remove the OPC





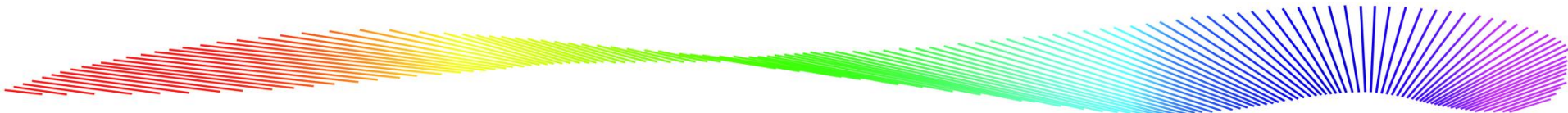
7. Remove the PCR

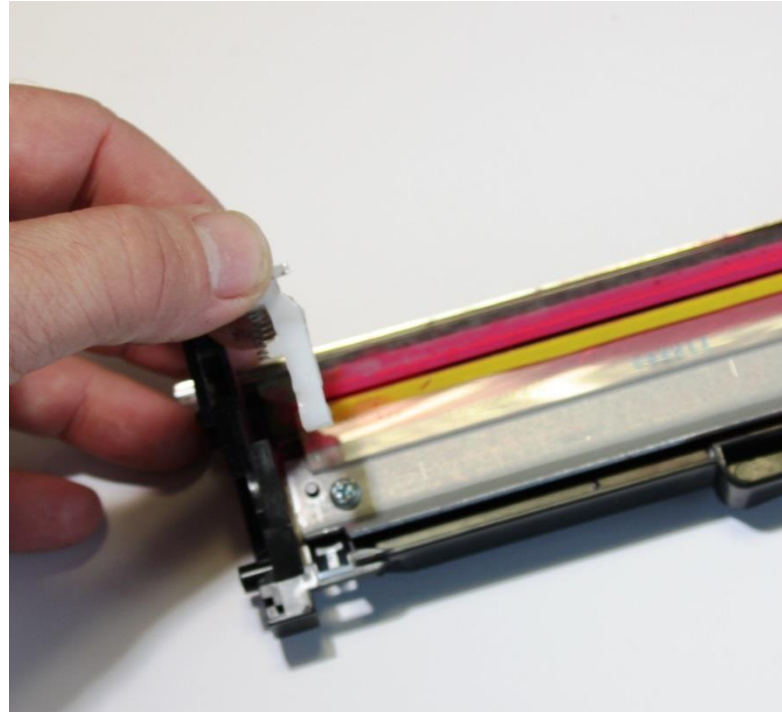
Clean the PCR just with water, do not use Isopropyl alcohol



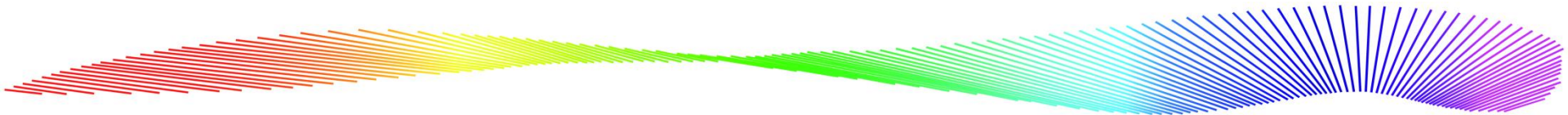


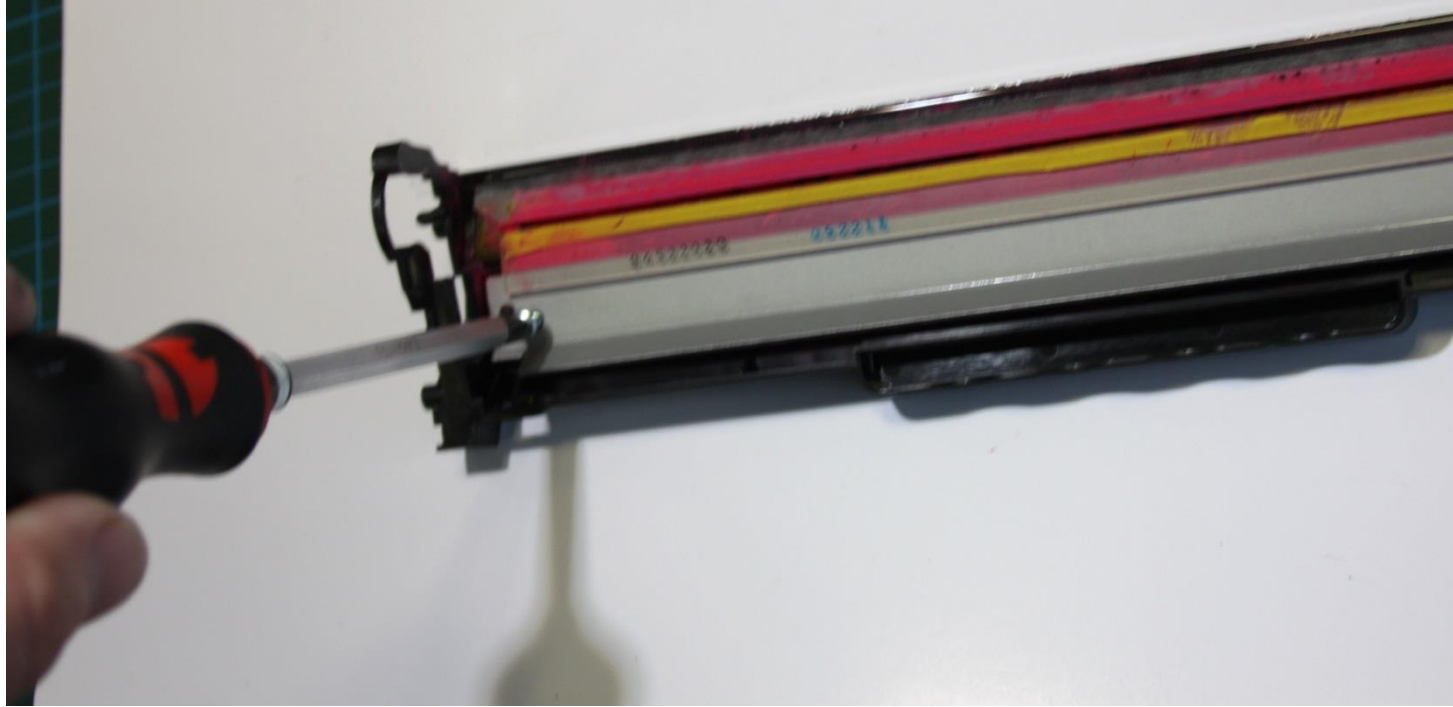
8. Remove the PCR cleaning roller
Use compressed air to clean the sponge



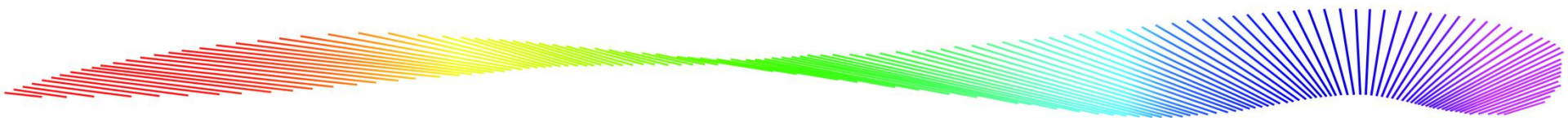


9. Remove both PCR holders



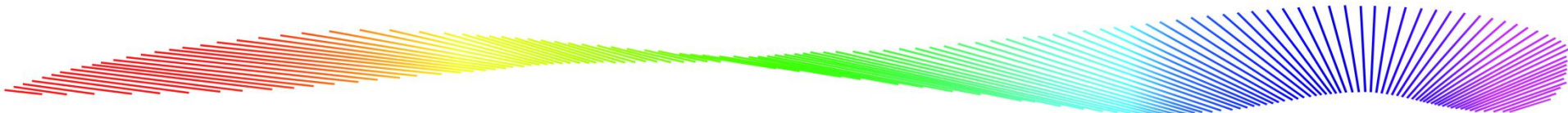


10. Remove the two screws from Wiper Blade and remove the blade
Clean the wiper blade just with water, no isopropyl





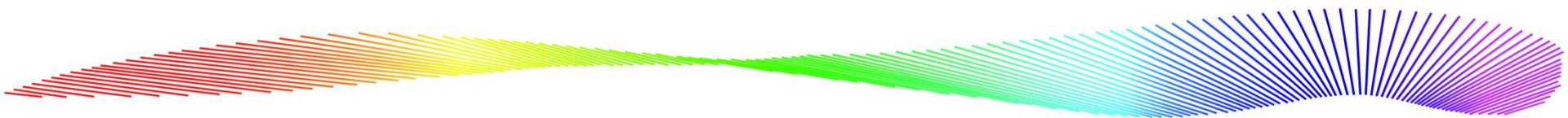
11. Remove the transparent light guide from waste section





12. Clean the waste section with compressed air

Check the recovery blade, should be straight without waves and damages to avoid toner leakage

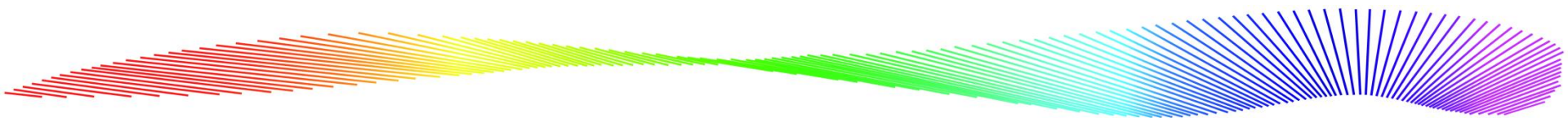


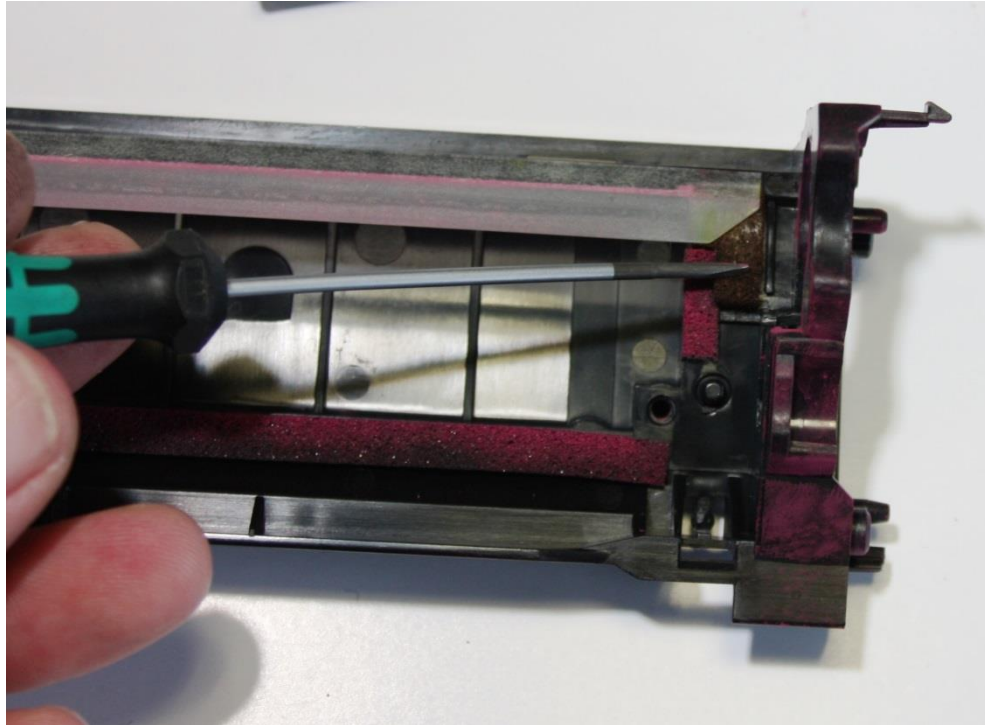
12.
Clean the waste section by compressed air or industrial vacuum cleaners. Put the cleaned parts aside.

Note:
Any damage to the recovery blades leads to toner leakage.

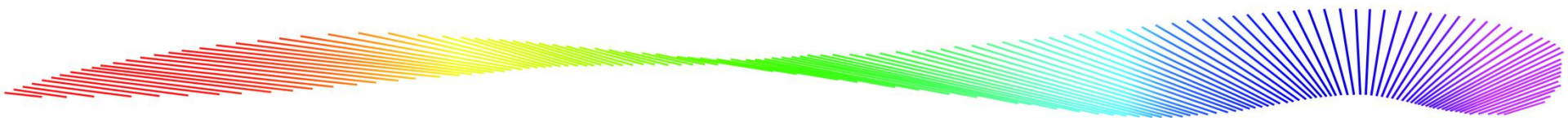


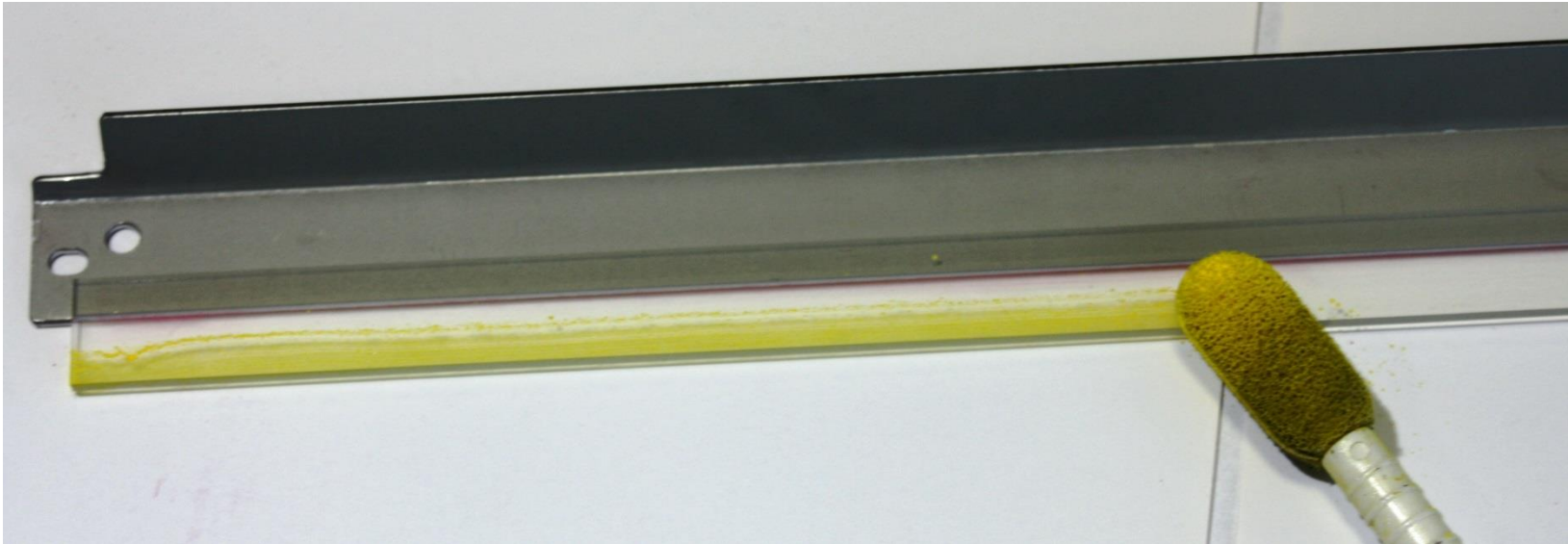
Part.Nr.: 61802



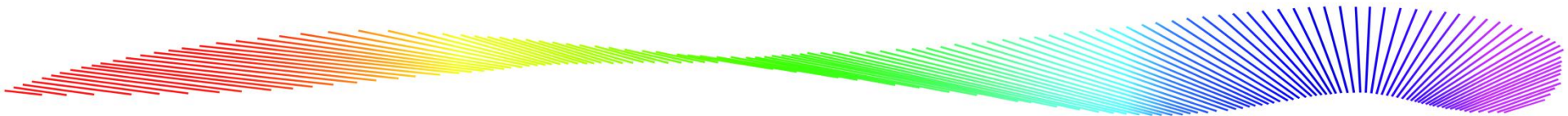


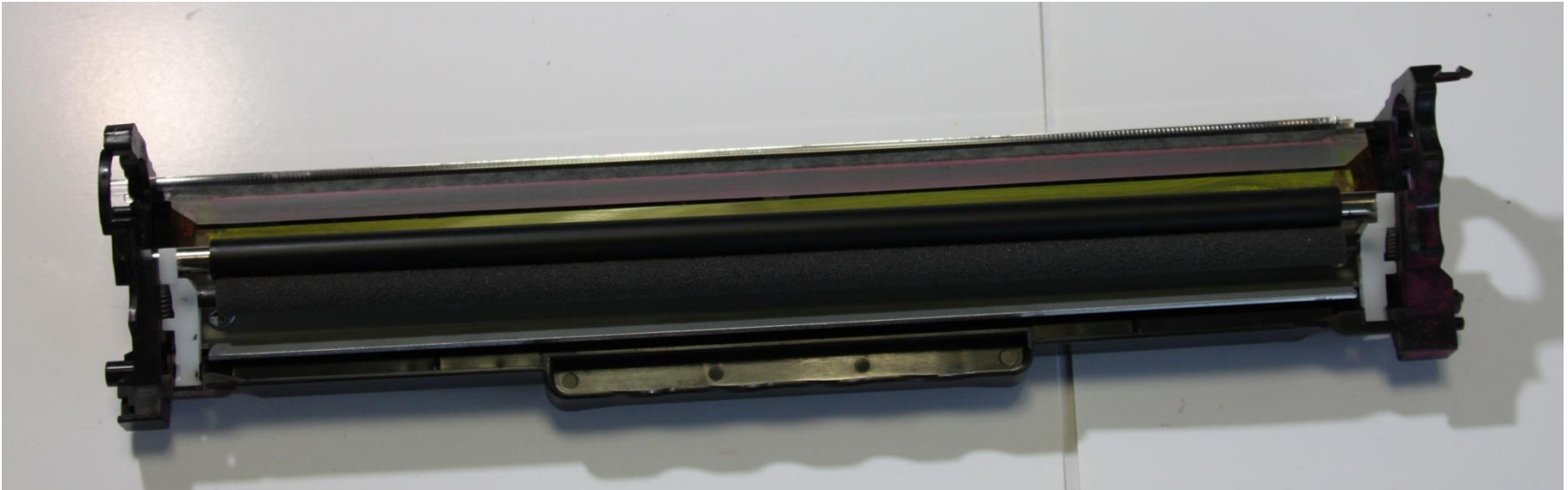
13. Use a small screwdriver to make the end felt rough again



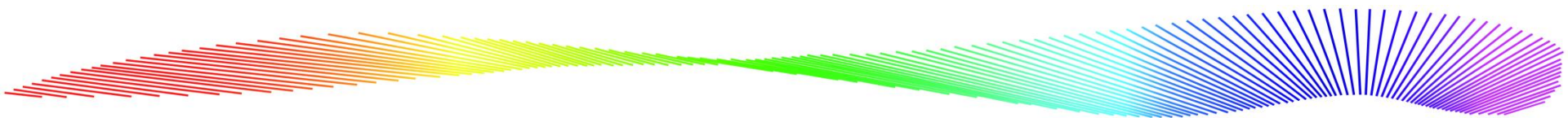


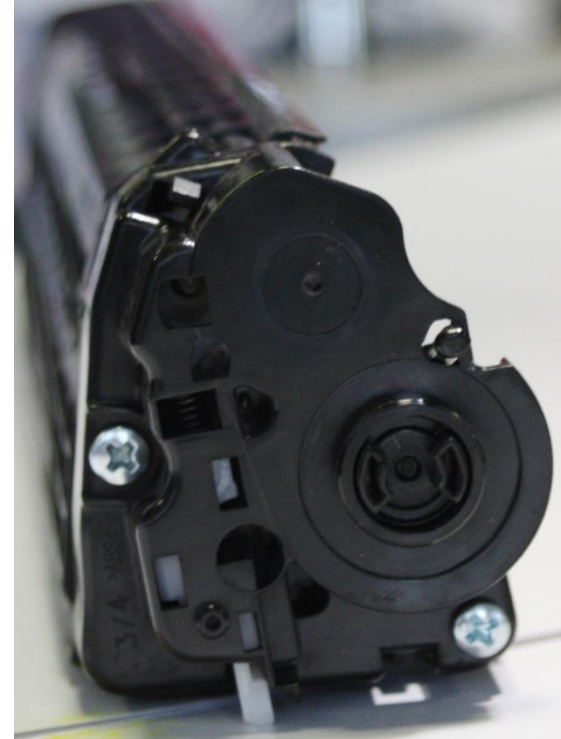
14. Use yellow toner to lubricate the wiper blade



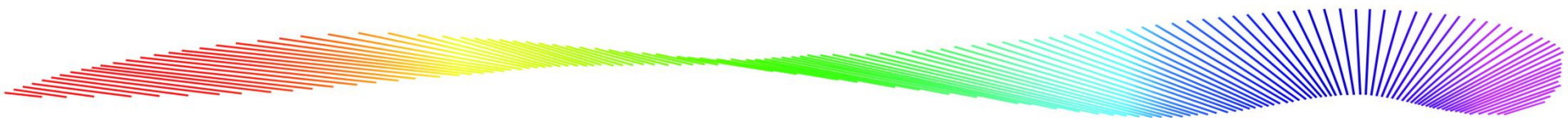


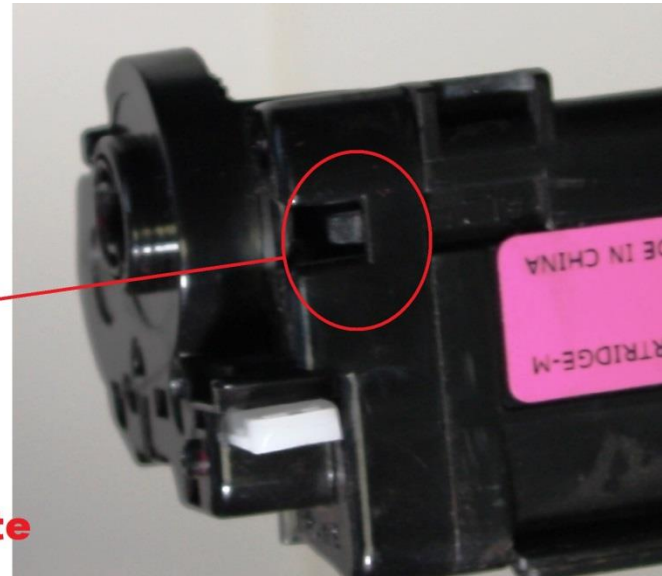
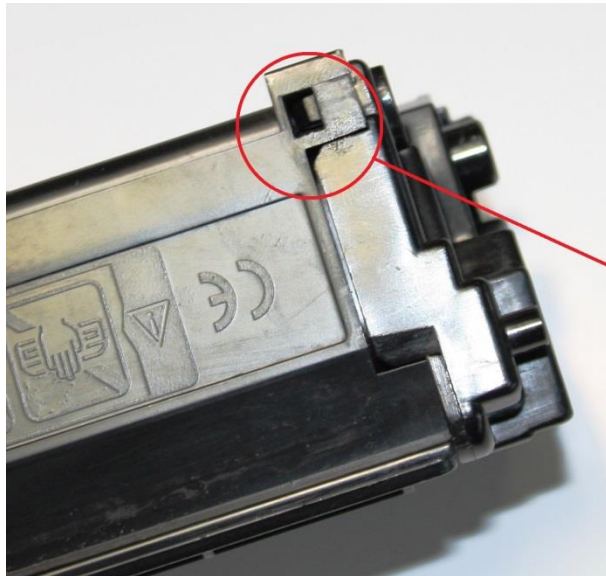
15. Screw back the wiper blade in the waste section, put the PCR holder back, the transparent light guide, PCR cleaner, PCR and OPC





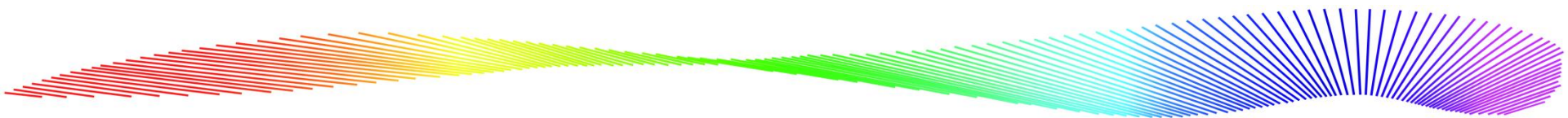
1. Toner hoper.
Remove the screws from the endplates

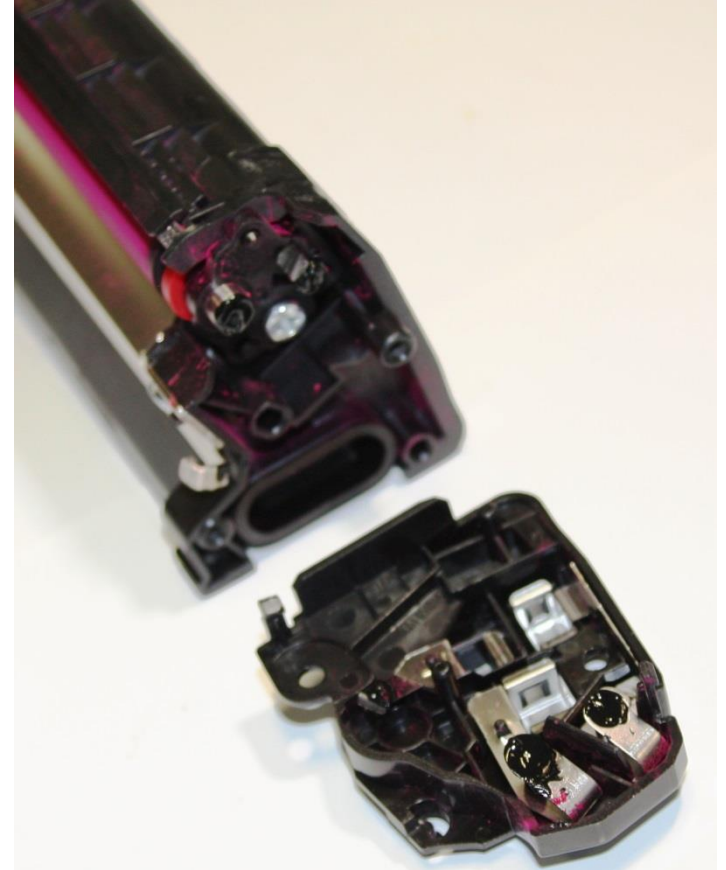




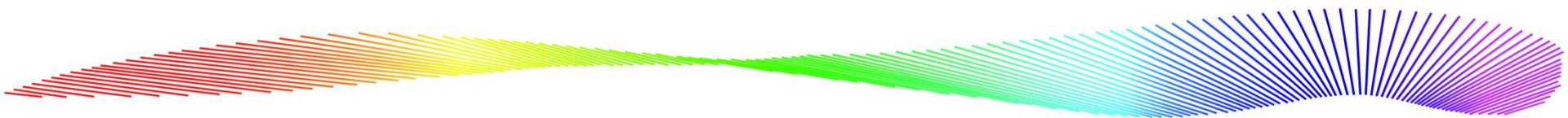
**Push the
tabs to
remove
the endplate**

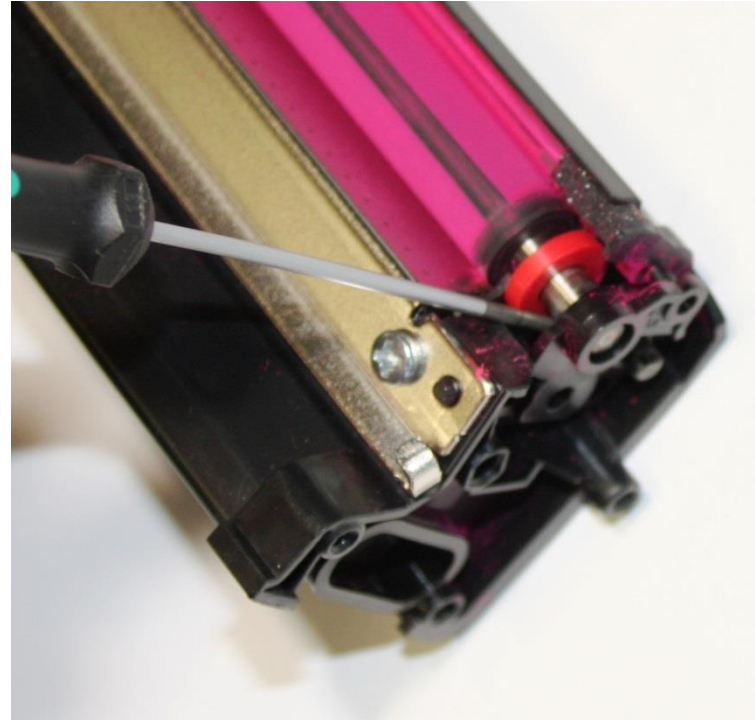
2. Push the tabs on side to remove the endplates





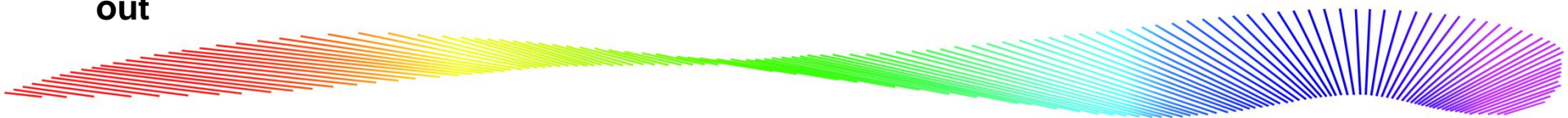
4. Remove the endplates

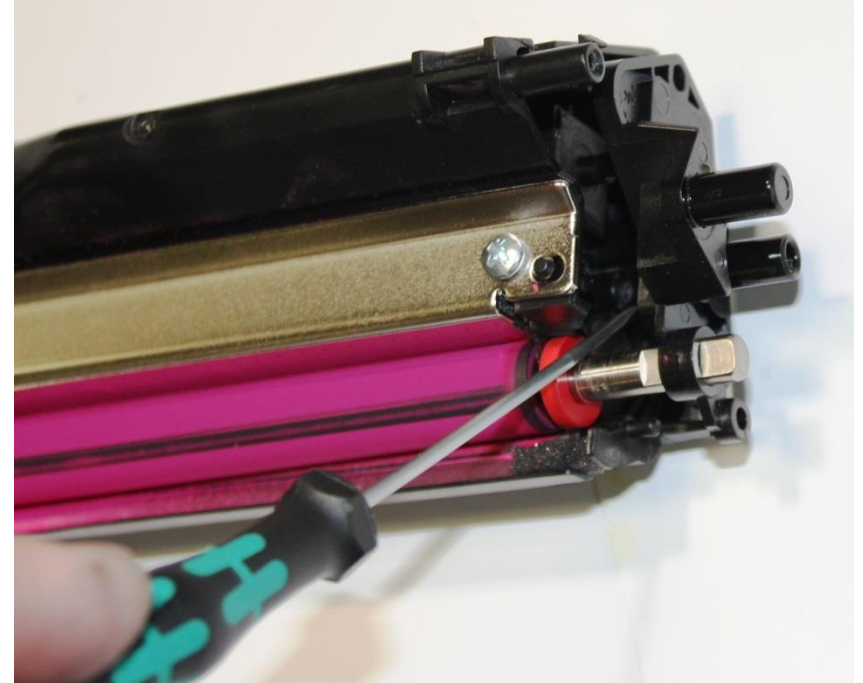
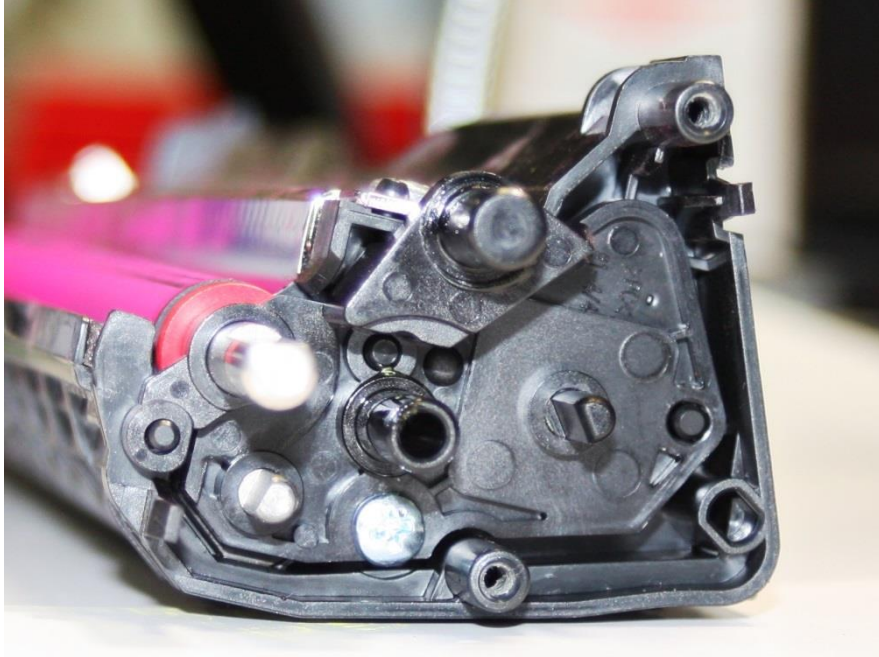




5. Remove the developer roller holding plate from the left side of the hopper.

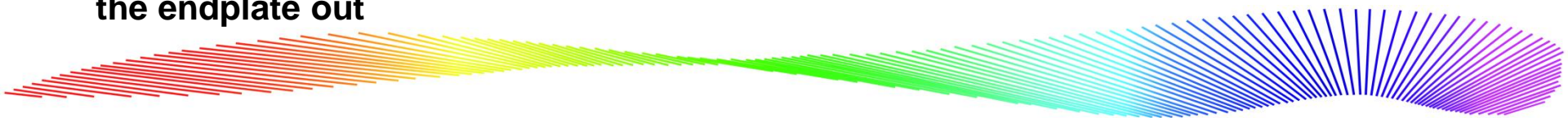
First you have to remove the screw. With a common screwdriver push the endplate out





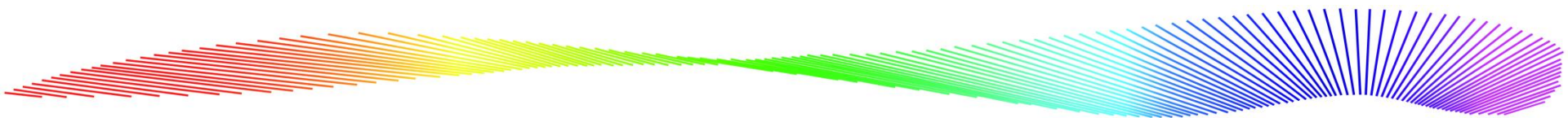
6. Remove the developer roller holding plate from the right side of the hopper (gear side).

First you have to remove the gears and the screw. With a common screwdriver push the endplate out



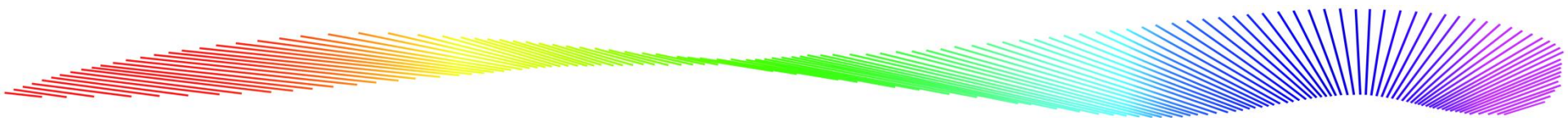


**7. Remove the developer roller with the red ring bushing.
Clean the developer roller with water. If you have white additive on DVR try to use
some isopropyl alcohol.**



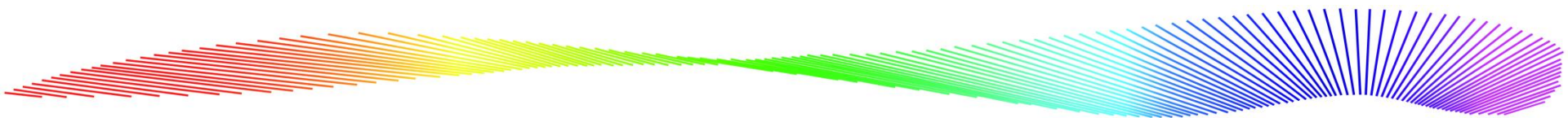


**8. Remove the screws from doctor blade and gently remove the DB.
Use compressed air to clean the DB with isopropyl alcohol**



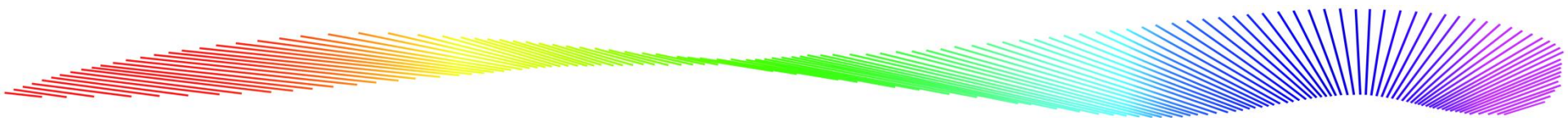


8. Remove the filling plug.





**9. Clean the toner hopper with compressed air.
Clean also the contacts on sided with a dry cloth**



Cleaning with water:

- Wiper blade and
- PCR, DVR

Cleaning with alcohol (Isopropyl 99,999 %)

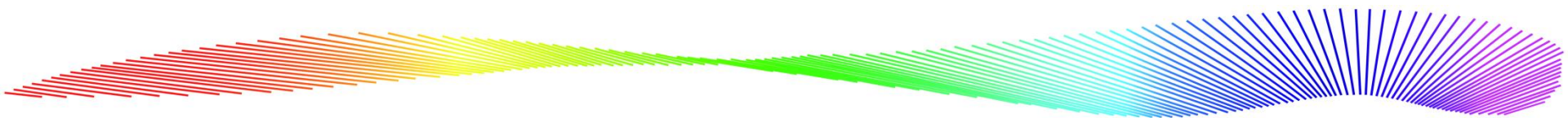
- Doctor blade (Take care not to damage)
- Developer roller outside and contact inside
- Springs and Contact
- OPC – axis
- Developer Roller endcape



Part.: 60316 – Cleaning cloth (Toner particle)

Part.: 60315 – Cleaning cloth (lint-free)

Look for damages and allow the cleaned parts to air dry.



Clean the toner hopper and the small parts with compressed air or industrial vacuum cleaners. Put the cleaned parts for re-use aside.

**Note:
Any damage to the sealing blades leads to toner leakage**



Part.Nr.:600012



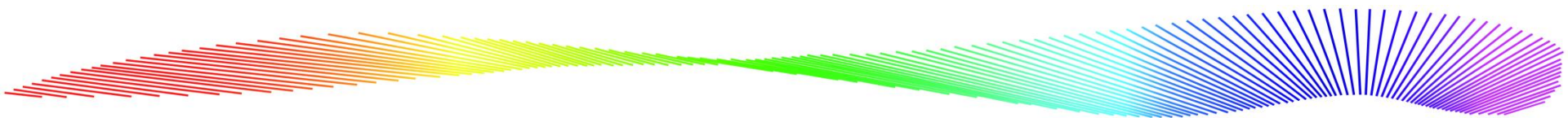
Part.Nr.:600015

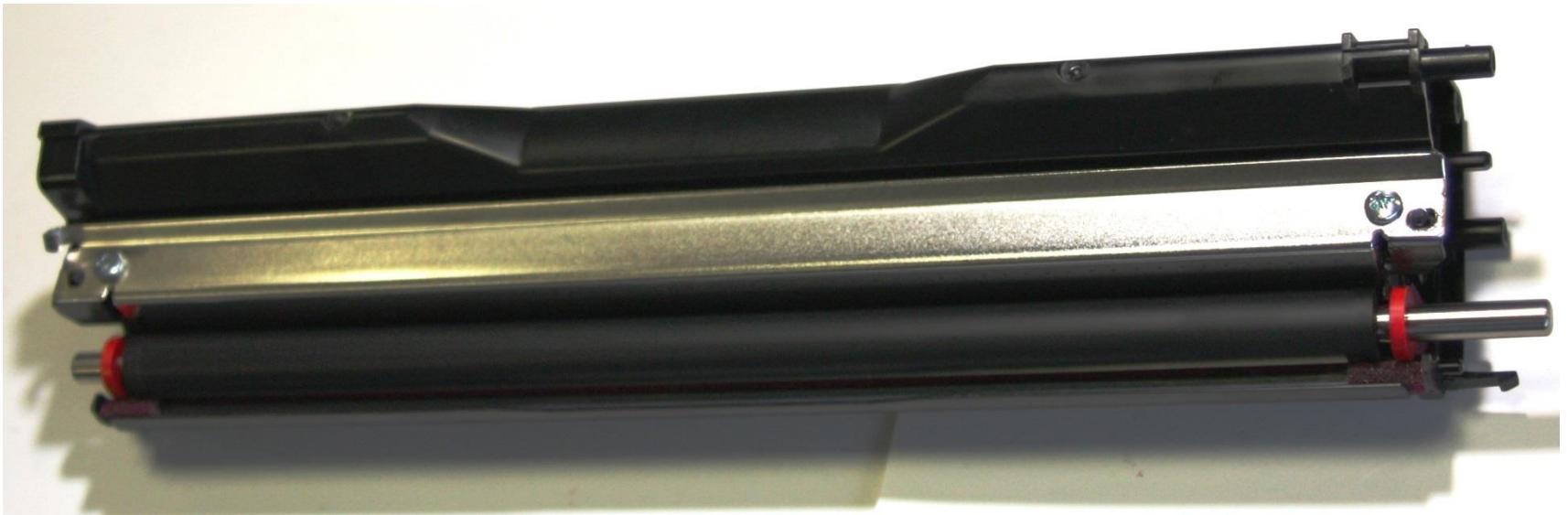


Part.Nr.: 61802

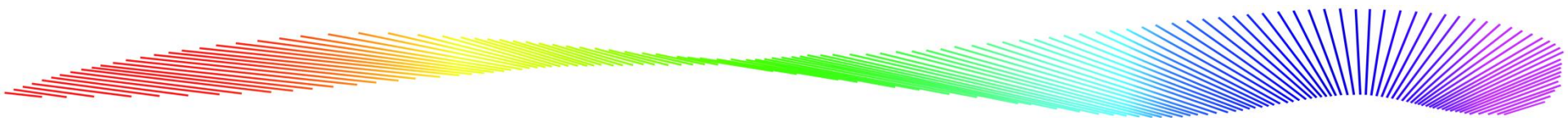


10. Reinstall the doctor blade and the two screws



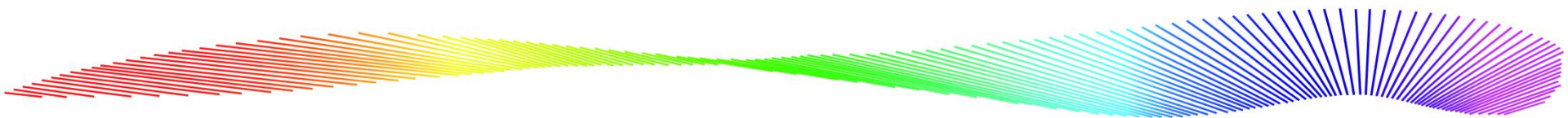


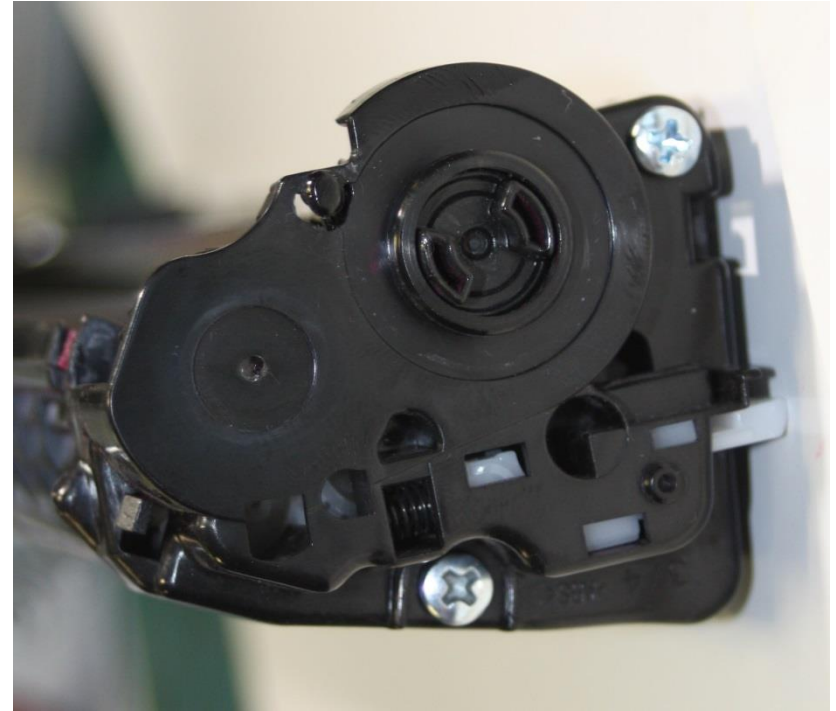
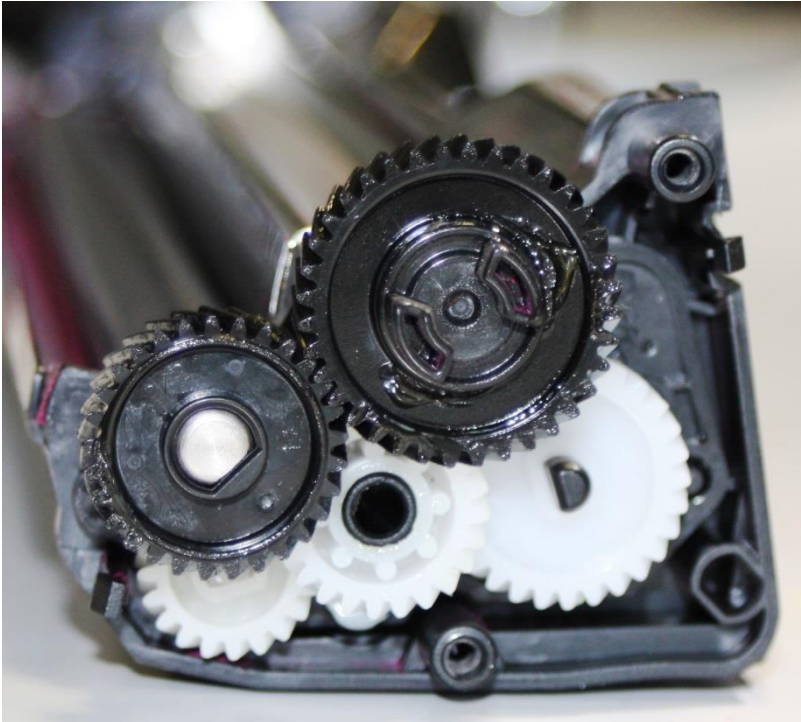
11. Reinstall the developer roller with the two red rings



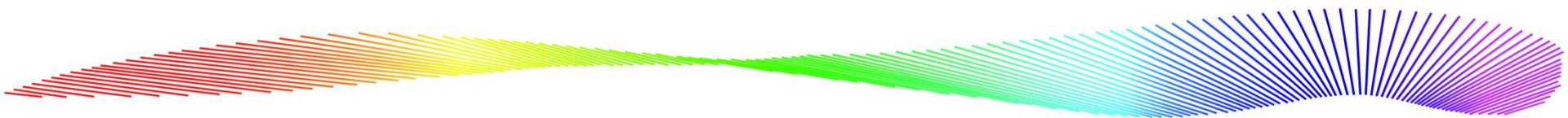


12. Reinstall the developer roller and plate with the screws



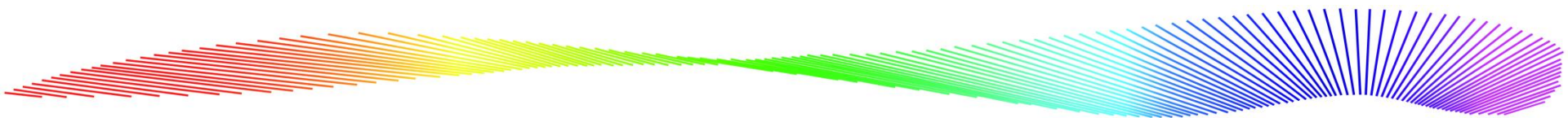


12. Put the gears back on the right side and fix it with the end plate





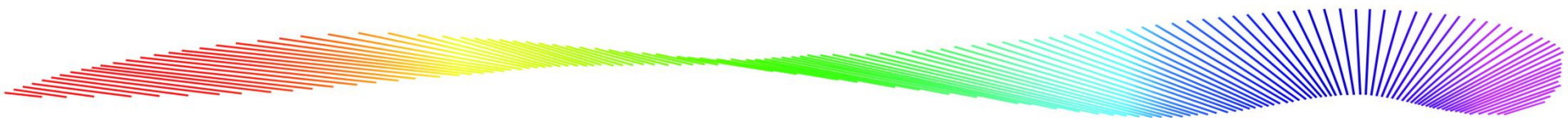
13. Fill the cartridge with toner

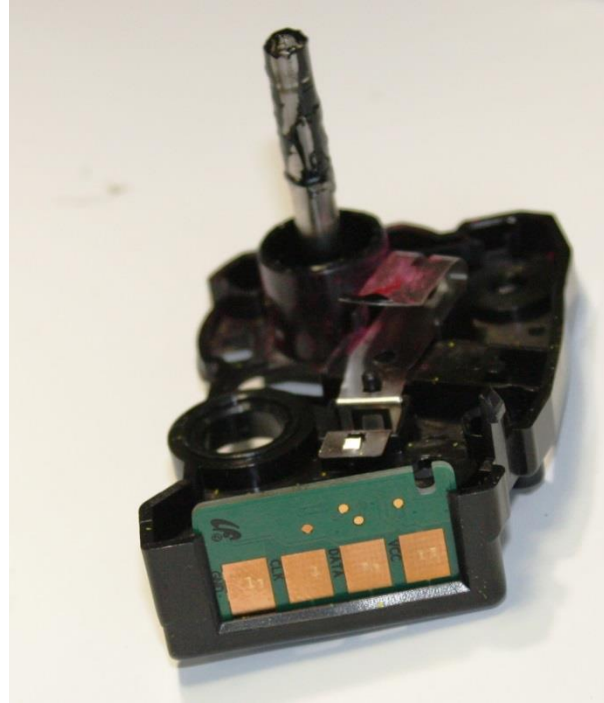




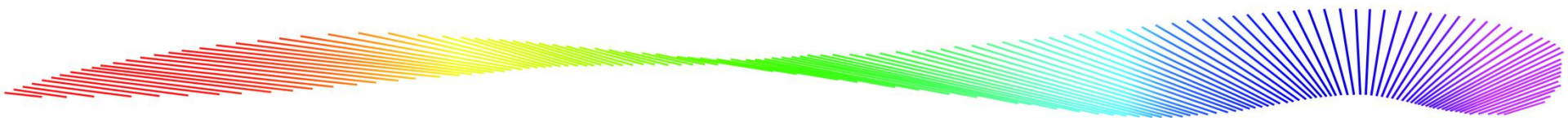
14. After toner filling, put the plug back and screw the left endplate to his position

Rotate the DVR gear to see if the toner is uniform on DVR



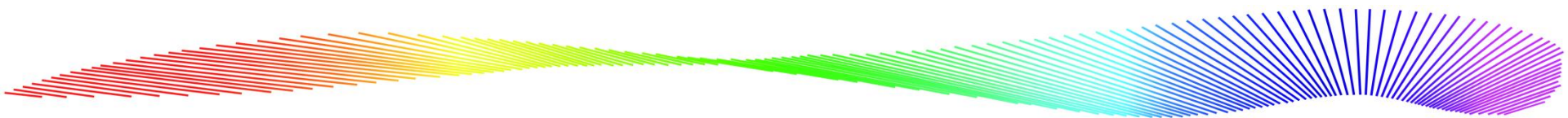


15. Replace the chip on the end cap
Use some contact grease on drum contact



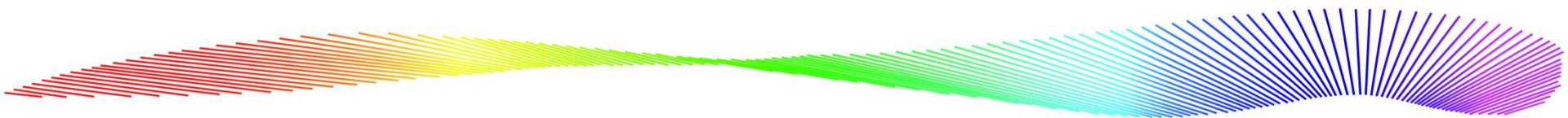


16. Put the toner hopper on the waste hoper (as you can see in the picture)





17. Screw the two endplates back on his position, put the spring back

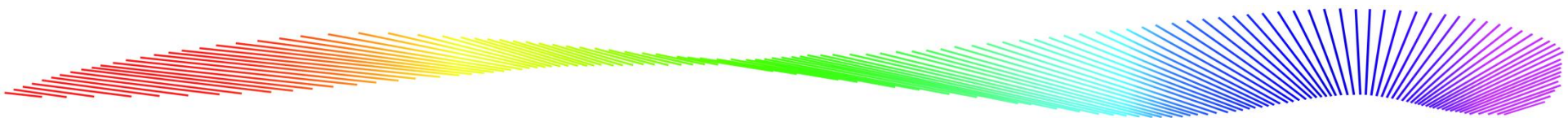




18. Cartridge should be tested

Always test the cartridge with an old chip (to avoid calibration). After test used the new chip on the cartridge

Use always shipping lock to protect the cartridge

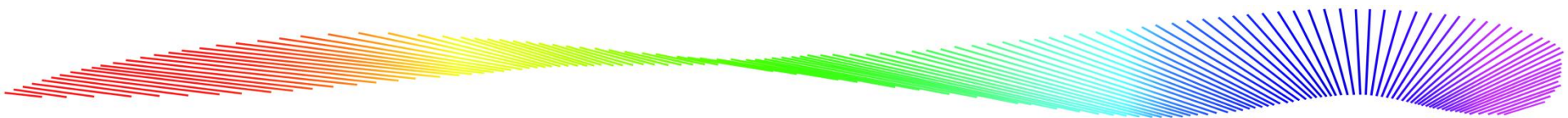


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