

KONICA® MINOLTA MAGICOLOR 5430 • 5440 • 5450 TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



KONICA MINOLTA MAGICOLOR 5430 TONER CARTRIDGE

REMANUFACTURING THE KONICA MINOLTA MAGICOLOR 5430/5440/5450 TONER CARTRIDGES

By Javier Gonzalez and the Technical Staff at UniNet



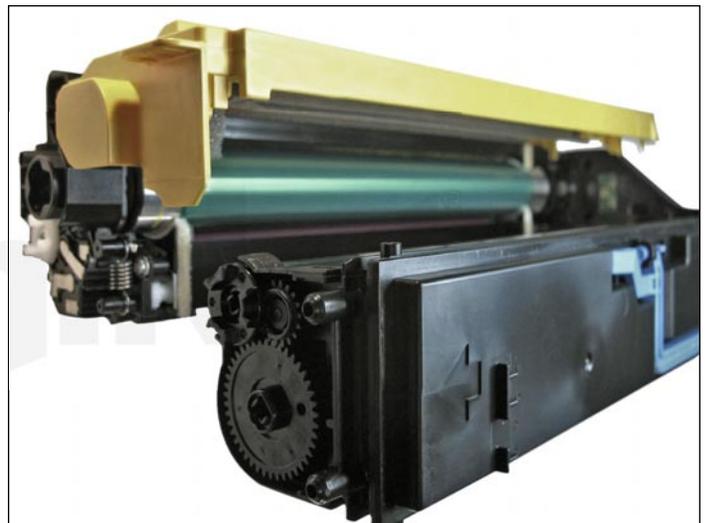
MAGICOLOR 5430 TONER CARTRIDGE



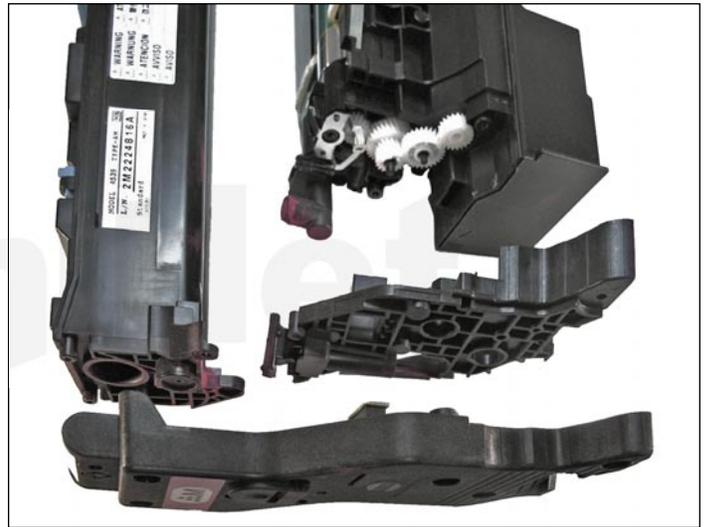
SIDE VIEW (END CAP SIDE)



BACK VIEW



SIDE VIEW (NON-END CAP SIDE)

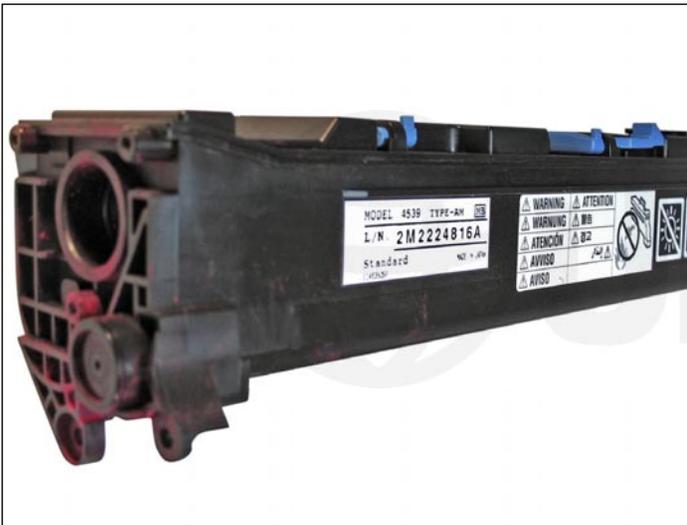


TONER CARTRIDGE DISASSEMBLY

1. Locate the cartridge end cap of the cartridge. Using a phillips screwdriver, remove the seven screws that hold the cartridge together.

2. Set the drum unit and end cap aside.

We will now proceed to clean the toner hopper.



3. Locate the toner hopper fill plug, and remove it by prying it off, using a small flathead screwdriver.

Empty any residual toner from the hopper and clean thoroughly using compressed air.

Fill with new replacement toner, install the fill plug, and set the hopper aside.



4. Remove the screws from the **contact** end cap.

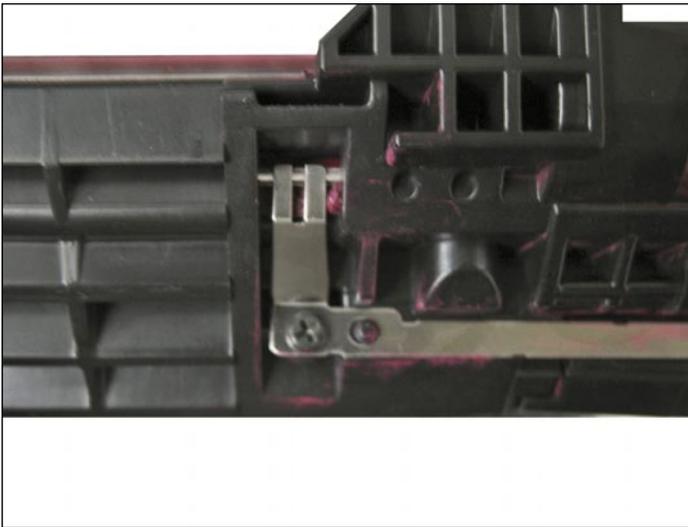


5. The contact end cap will have a smaller screw that will also need to be removed.

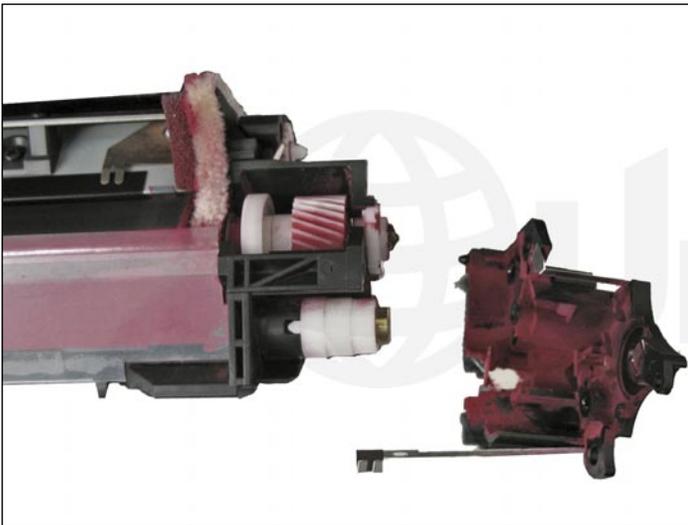


6. Remove the plastic cover off the top metal contact shown.

This cover protects the metal contact from dust.



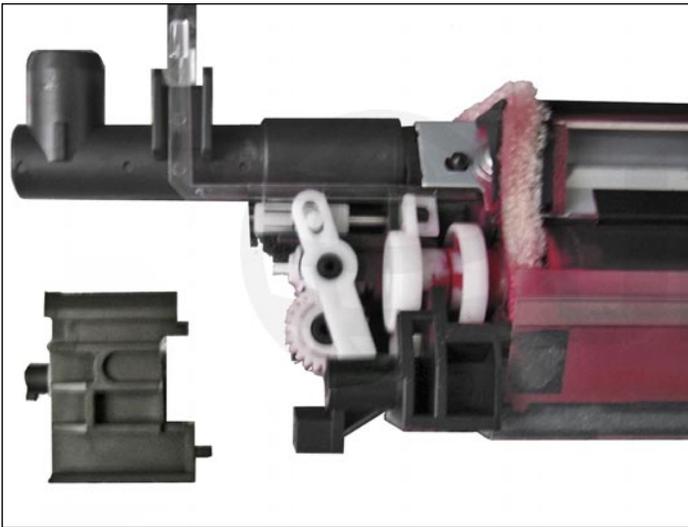
7. Remove the metal contact screws shown.



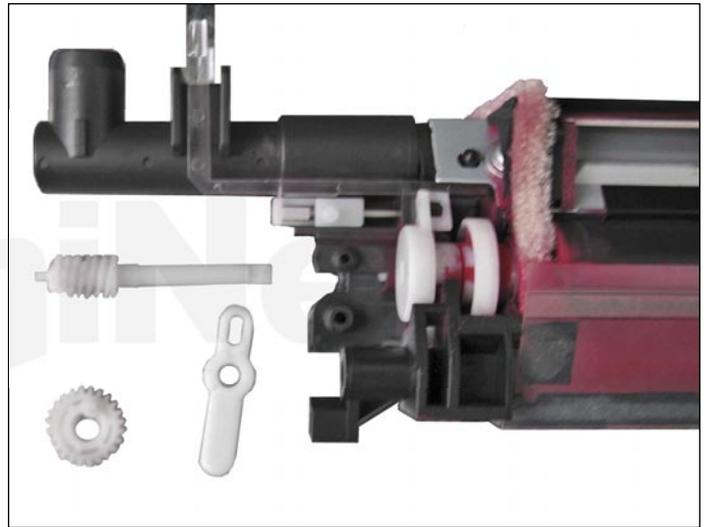
8. The **contact** end cap can now be removed.



9. Remove the one screw from the **non-contact** end cap



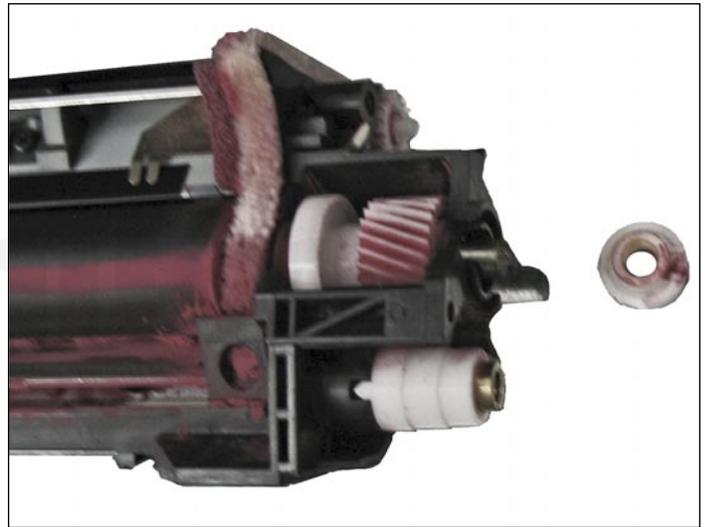
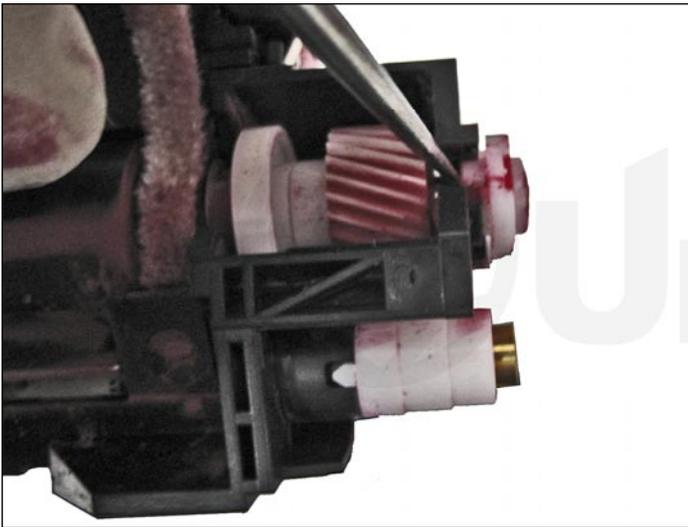
10. Remove the **non-contact** end caps shown.



11. Remove the optical window cleaning mechanism pieces shown.



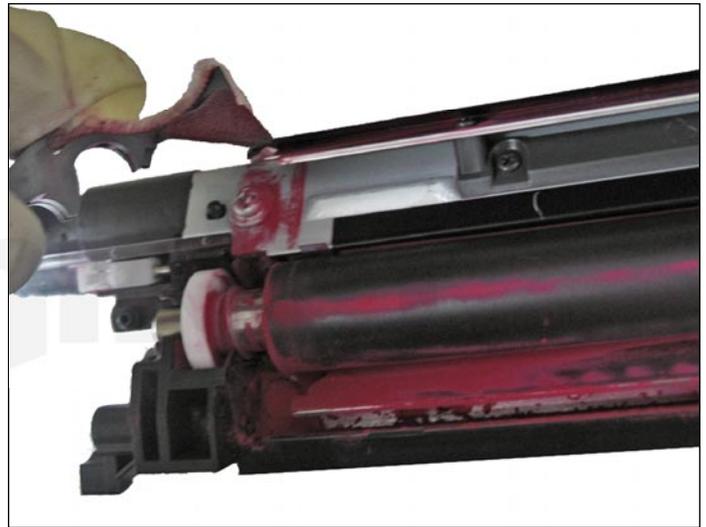
12. Remove the developer roller's protective sheet.



13. Remove the developer roller support bearing on the contact end cap side

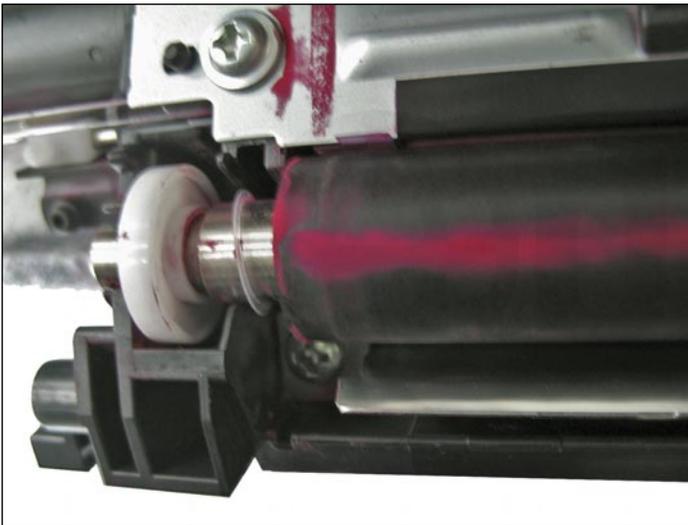


14. Remove the **capped** developer roller support bearing on the non-contact end cap side.



15. Remove the drum's end felt assembly by prying it out as shown.

The felt assembly consists of a felt strip and plastic molding.



16. Take special note of the center position of developer roller washer, located at the ends of the developer roller axles. Remember this when installing the developer roller as per OEM.

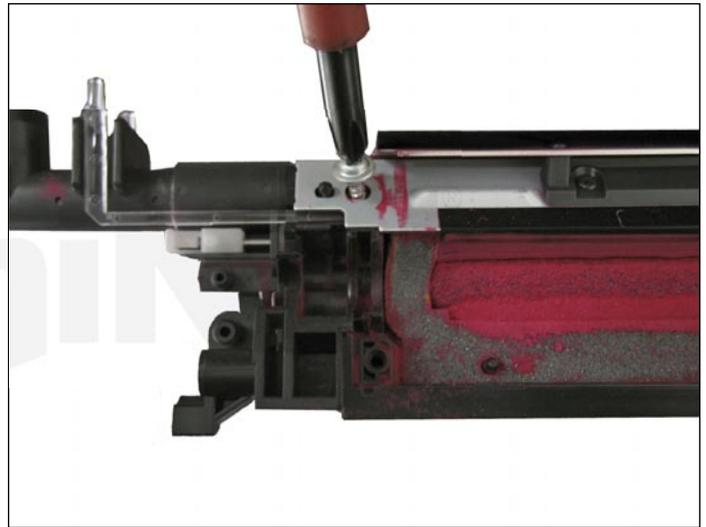


17. Remove the developer roller as shown.

Remove the two doctor blade screws.



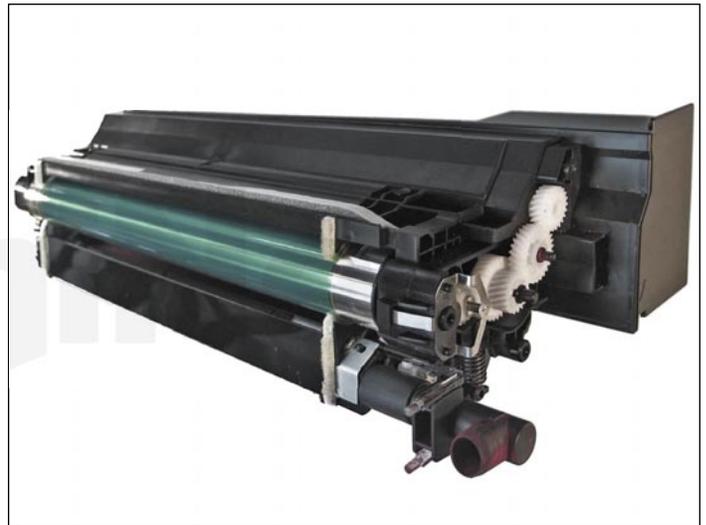
18. Remove the doctor blade.



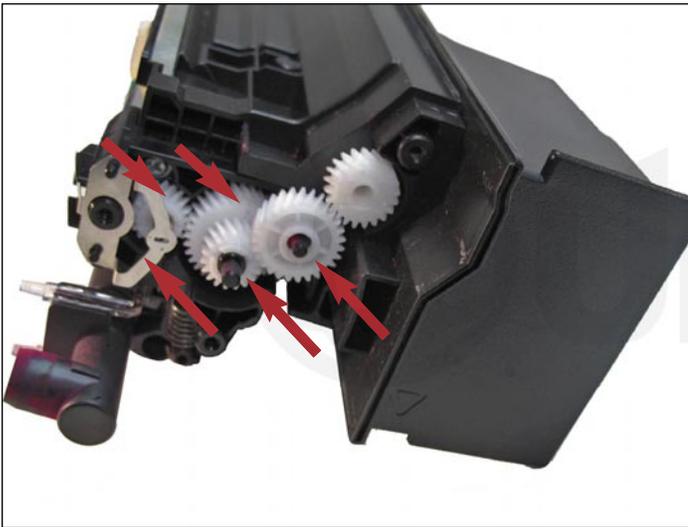
19. Remove the seal plate screws and the seal plate.



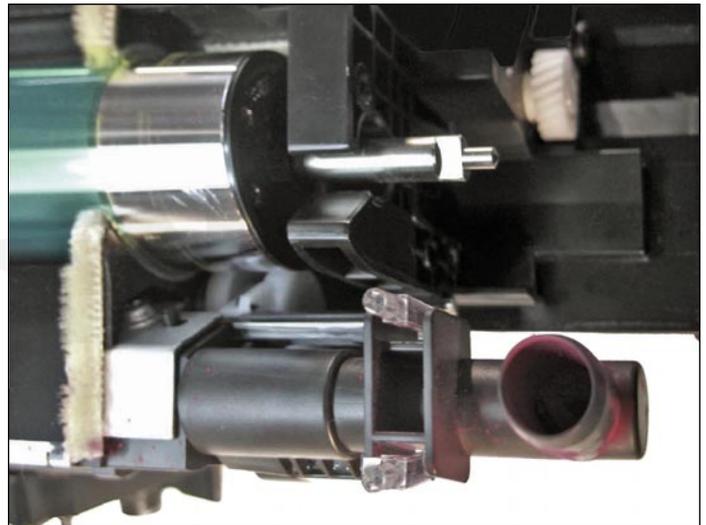
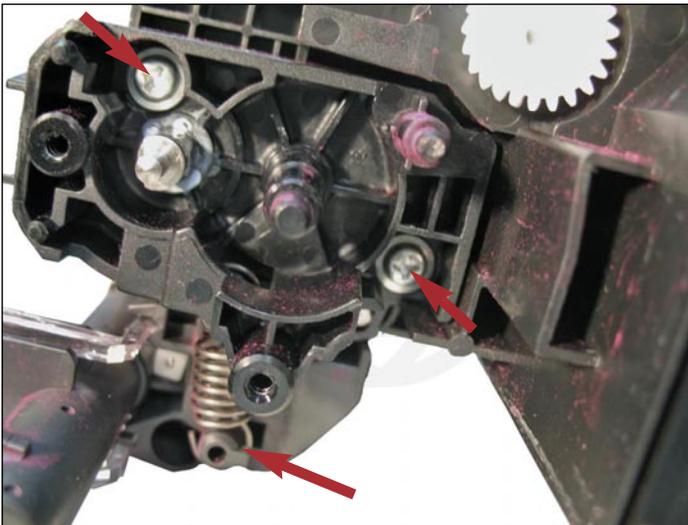
20. Clean the disassembled developer section with a vacuum.



SEPARATING THE DRUM & DEVELOPER UNITS
21. The drum and developer units are joined together.



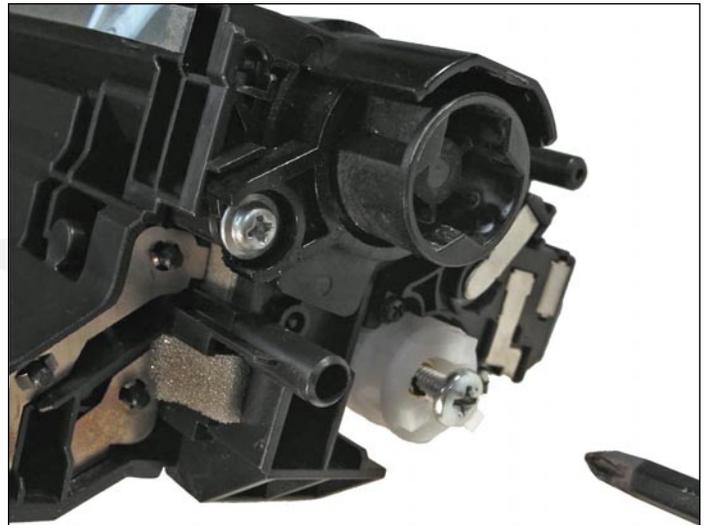
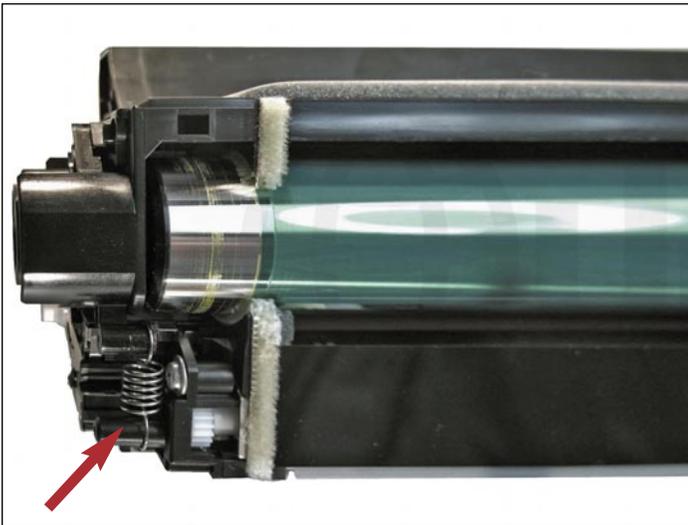
22. Locate the gear train on the side of the drum unit. Remove the OPC contact shown, and the gear train directly behind it. Note the positioning of the gears for reassembly. One of the gears is NOT removable.



23. With the gears now removed, proceed to remove the two drum axle plate screws shown.

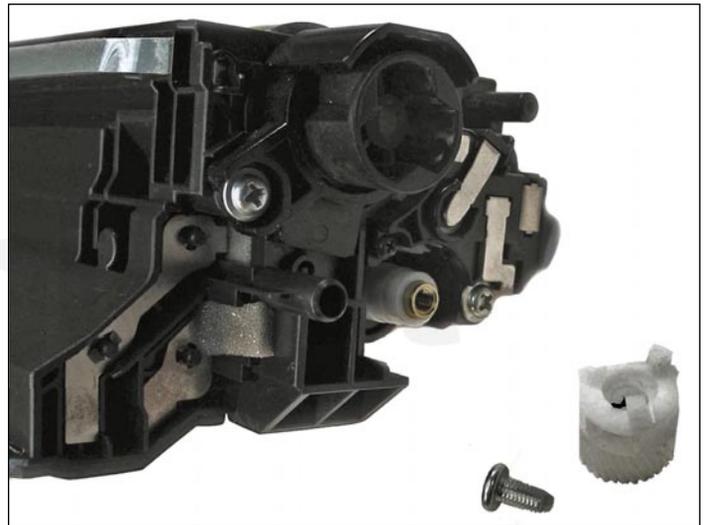
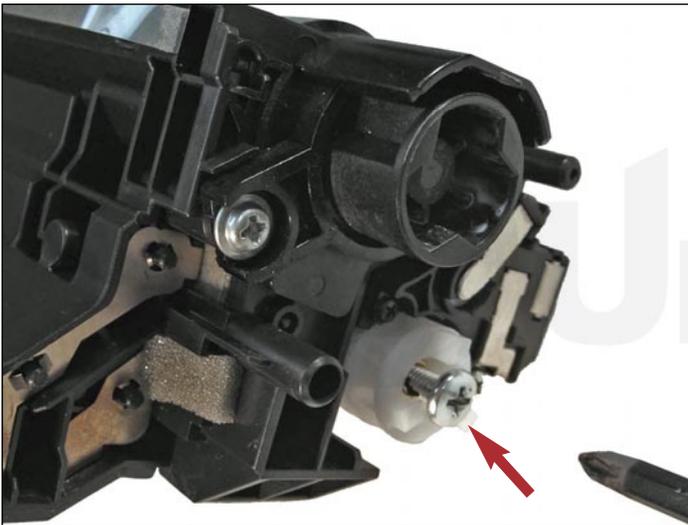
Unhook the compression spring connected to the developer unit beneath.

Remove the drum axle plate by sliding it out.



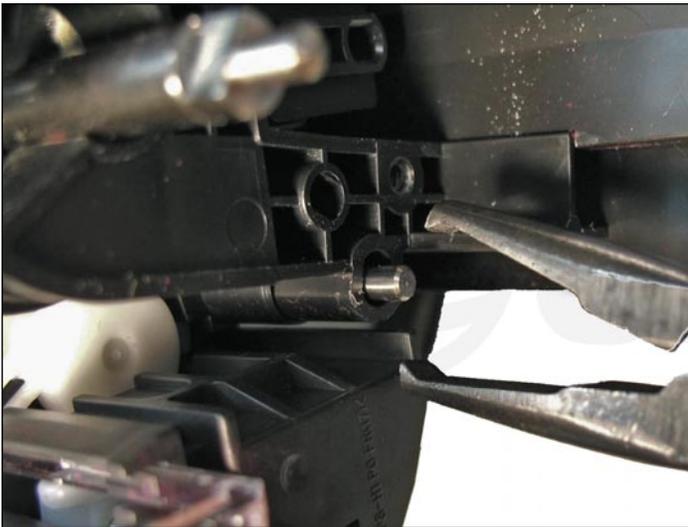
24. Unhook the compression spring on the opposite side of the drum unit (drive gear side).

NOTE: The compression springs are different, the **longer** spring is connected to the gear train side of the drum and the **smaller** spring is connected to the drive gear side.



25. Using a Phillips screwdriver, remove the screw from the developer roller drive gear, and remove the gear.

NOTE: This is a metric screw and will not fit anywhere else.



26. On the gear train side of the drum unit, locate the metal pin that holds the drum unit and developer unit together. Pull the pin out using a pair of pliers.

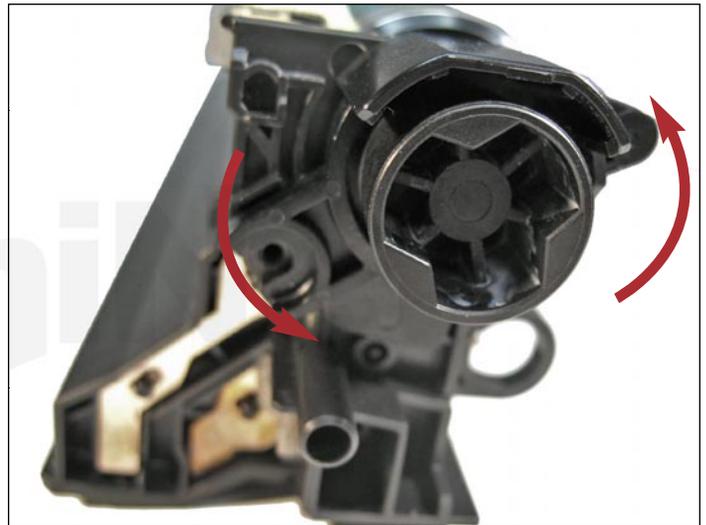


27. Separate the two halves by first pulling out the developer unit from where the pin was removed. Once it clears the waste hopper section pull the two halves apart away from each other as shown.



DISASSEMBLING THE DRUM UNIT

28. Remove the screw from the OPC drive gear support plate shown.



29. With the screw removed, turn the support plate counter-clockwise until it comes to a stop. This will unlock the plate and allow you to remove it completely.



30. Final “unlocked” position of the drive gear support plate.

Remove the plate.



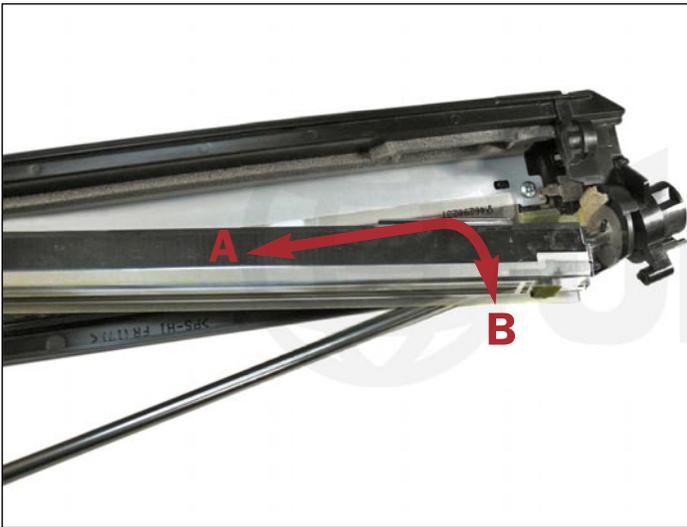
31. With the OPC drive gear support plate removed, this will allow movement for the drum axle and will simplify the removal of the OPC drum.

NOTE: The OPC drum is secured onto the axle with pressure. It will take some force to remove by sliding it off.



32. Wipe the removed OPC with drum cleaning solution. Cover and set the drum aside.

NOTE: It will not be necessary to remove the drum axle, but it can easily be removed by angling and pulling it out from its support.



33. Remove the corona wire by sliding it in towards the opening on the gear train side (A), then pulling it out (B).

This will allow you to lift one side of it for easy removal.



34. Remove the two wiper blade screws, and remove the wiper blade.



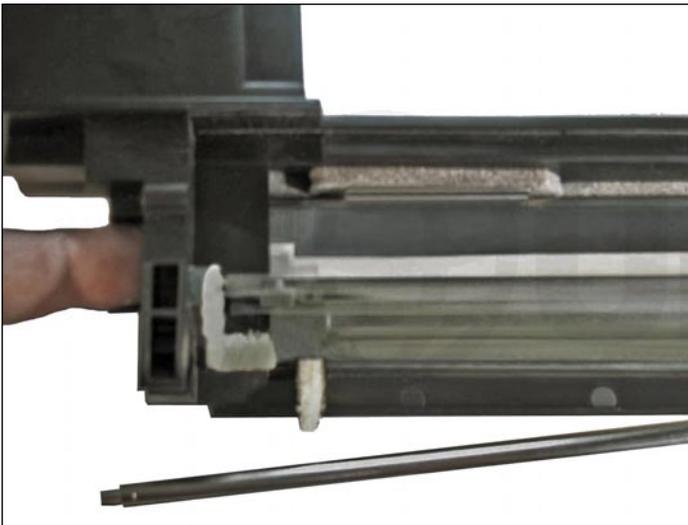
35. Dump the waste toner from the hopper and clean thoroughly using compressed air.

Clean the wiper blade using a lint free cloth and apply padding powder before reinstalling.



DRUM UNIT ASSEMBLY

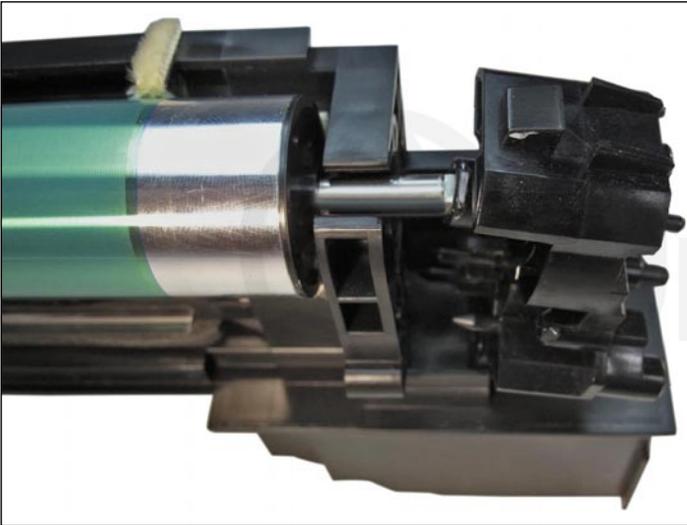
36. After installing the wiper blade, install the corona wire assembly via the gear train side first. Insert the corona wire assembly through the opening, then slide through the opposite end.



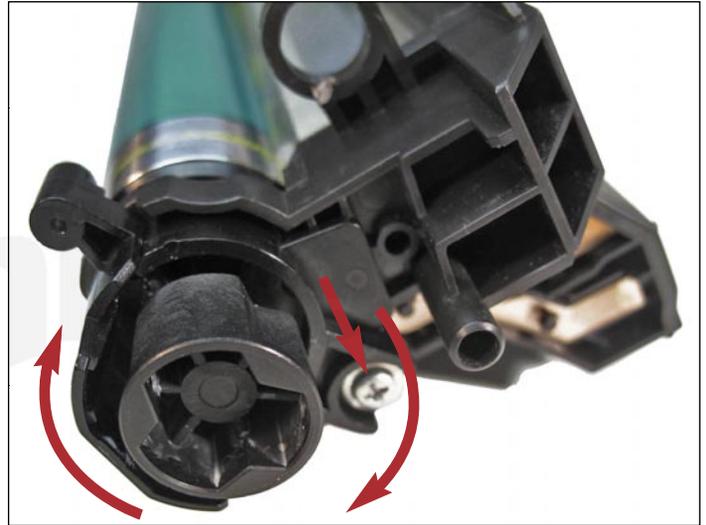
37. Once the corona wire is aligned with the cartridge, push in with your finger until it is back into its original place.



38. We are now ready to install the OPC drum. Before installing, make sure the drum gears are facing the correct position. Slide into place via the axle.



39. Install the OPC drive gear support plate as shown.

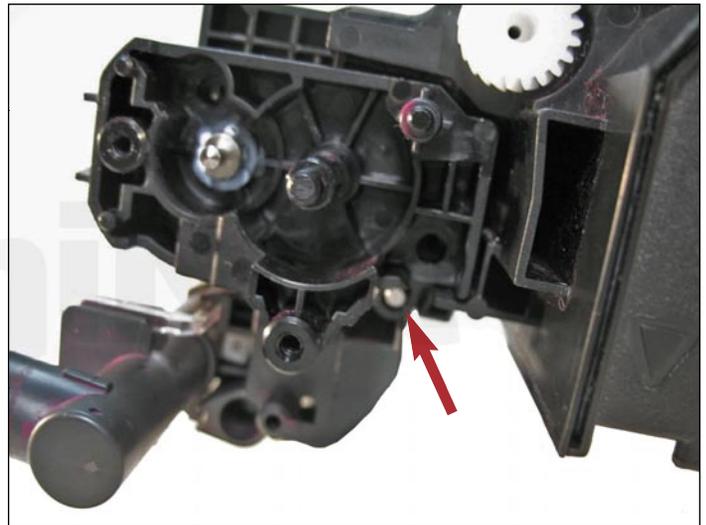


40. Rotate the support plate clockwise to its locked position.

Install the support plate screw.



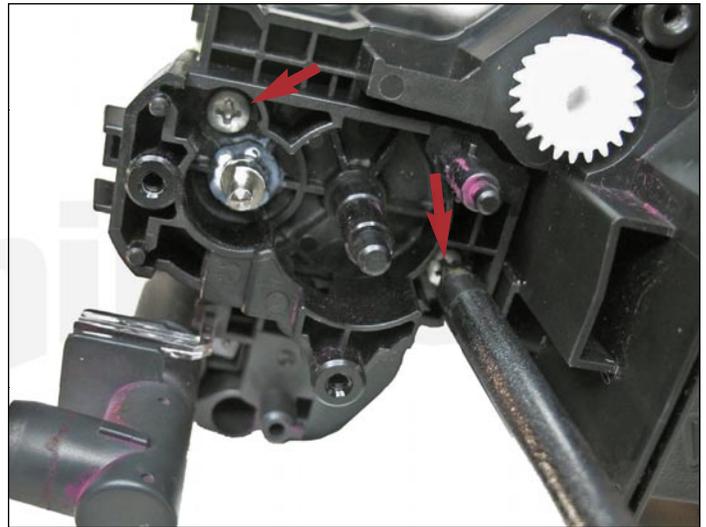
41. Assemble the two halves by first inserting the drive gear.



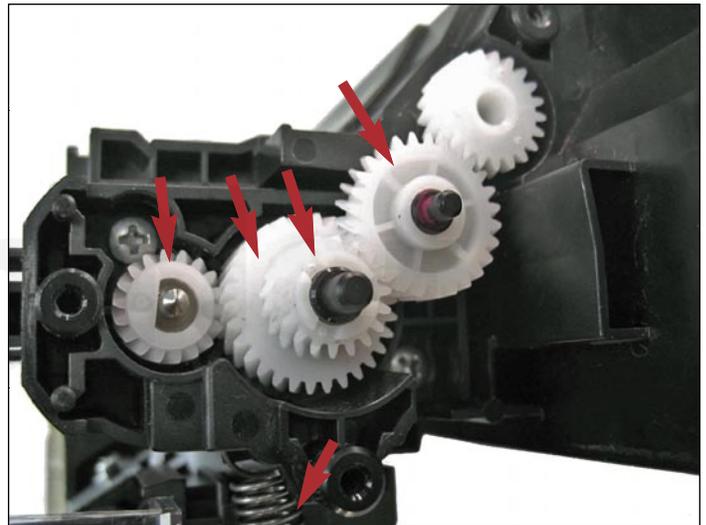
42. Lock the two halves in place by inserting the metal pin on the gear train side.



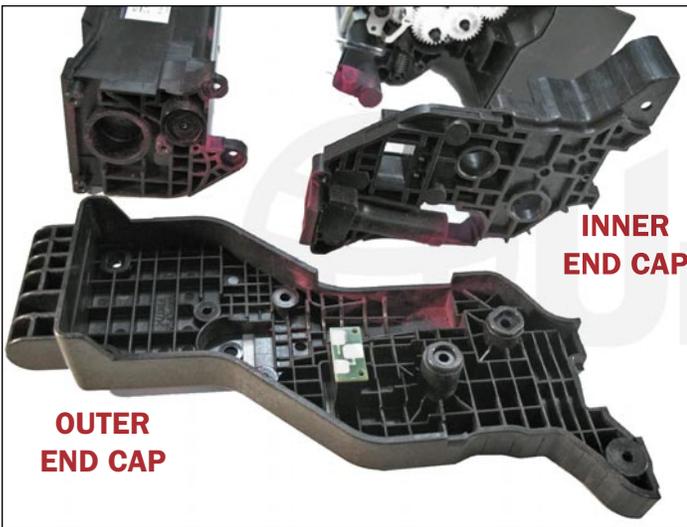
43. Install the developer roller drive gear and screw.



44. Install the drum axle support plate screws on the opposite side.

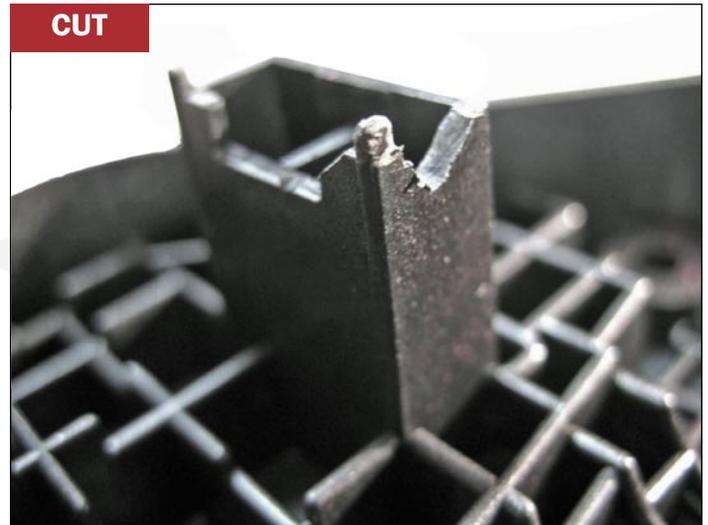
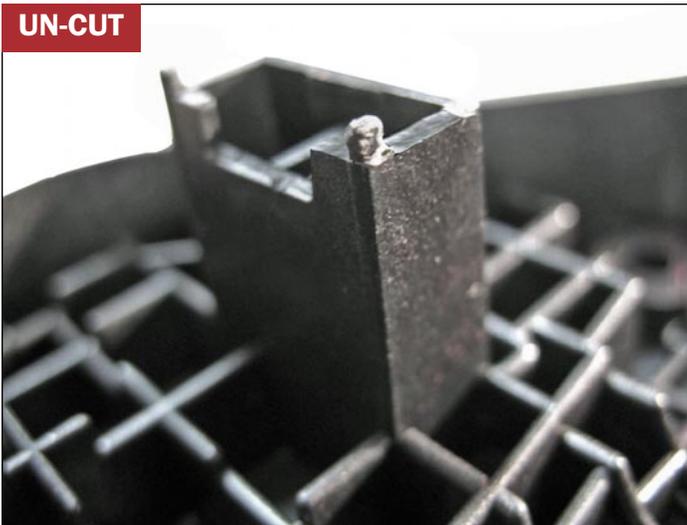


45. With the two halves assembled, proceed to install the gear train and the appropriate springs.



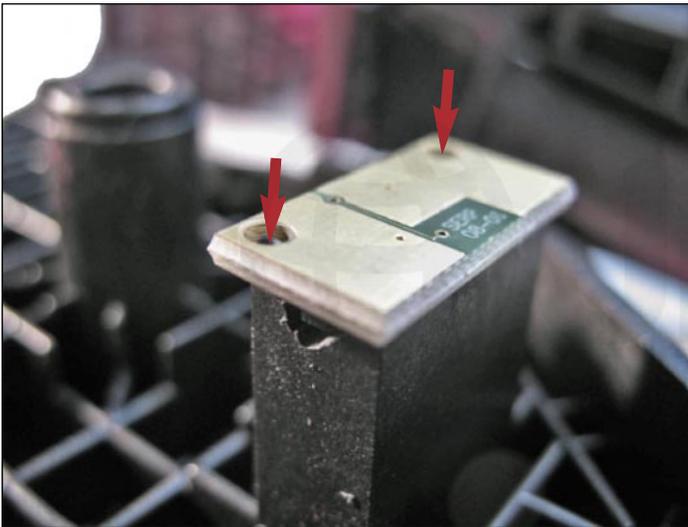
REPLACING THE CHIP

46. Locate the OEM chip on the interior of the **outer end cap**. The chip has been fastened with a minimal amount of pressure, and can be removed without any tools.



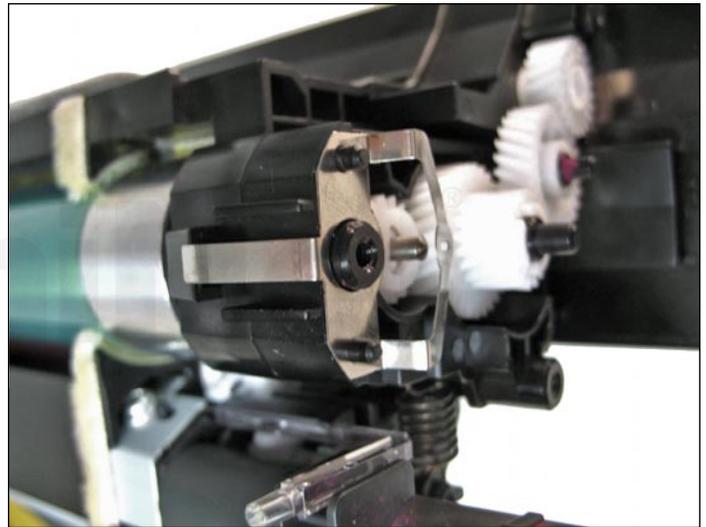
47. Before installing the replacement chip, the chip holder shown, needs to be slightly altered (cut) to accommodate it.

Two groove patterns need to be cut into the holder shown, using a small cutting knife.



48. Place the aftermarket chip so that the two pointing pegs fit through the holes as shown.

NOTE: Do not apply any glue or adhesive to secure the chip.



49. Install the OPC drum contact shown.



50. Install the **inner end cap**



51. Install the transfer tube shown.



52. Install the **outer end cap** with the new chip installed.



53. Secure the outer end cap with the seven screws.