

MINOLTA™ MAGICOLOR 5430/5440/5450 CARTRIDGE REMANUFACTURING INSTRUCTIONS



MINOLTA MAGICOLOR 5430 **Color Laser Printer with Toner Cartridge**

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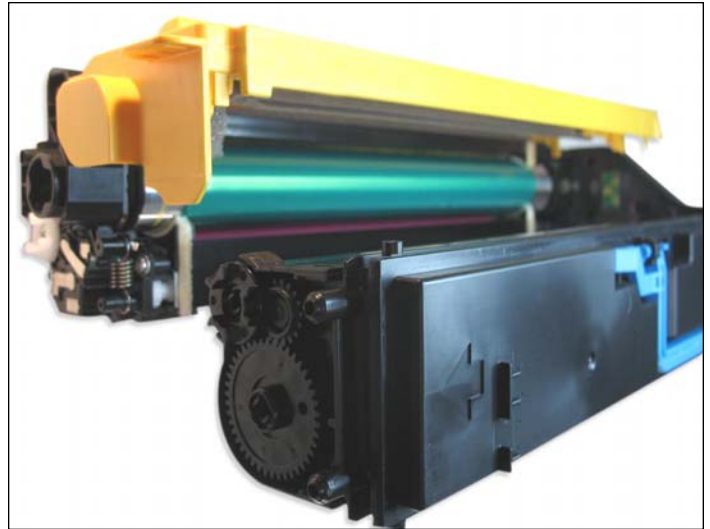
MINOLTA® MAGICOLOR 5430 TONER CARTRIDGE



SIDE VIEW WITH END CAP SHOWN



BACK VIEW



OPPOSITE SIDE VIEW

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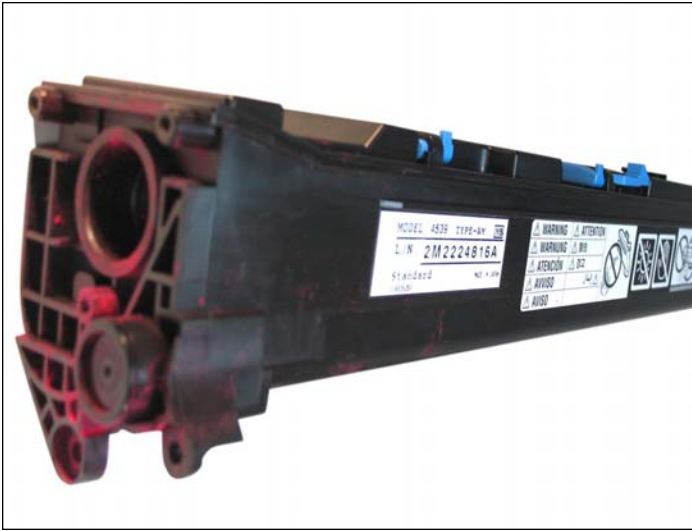


SEPARATING THE CARTRIDGE

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



2. Cartridge separated. Set the drum unit and end cap aside. We will now proceed to clean the toner hopper.



CLEANING THE TONER HOPPER

3. Locate the toner hopper fill plug.



4. Using a small flathead screwdriver, carefully remove the fill plug by prying it off. Empty any residual toner from the hopper and clean thoroughly using compressed air. Once clean, refill, apply plug, and set aside.

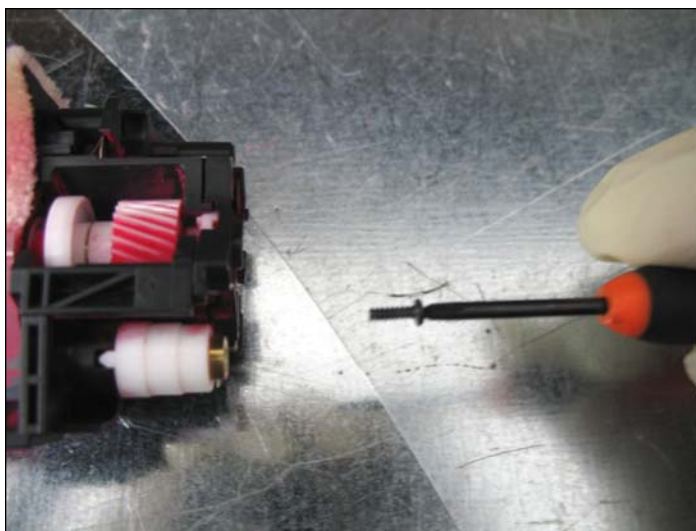
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REMOVING THE CONTACT END CAP

5. Remove the screws that hold the end cap in place (as shown).



6. The contact End Cap will have a smaller screw that will need to be removed.



7. Remove plastic cover which protects the contact from dust.

NOTES

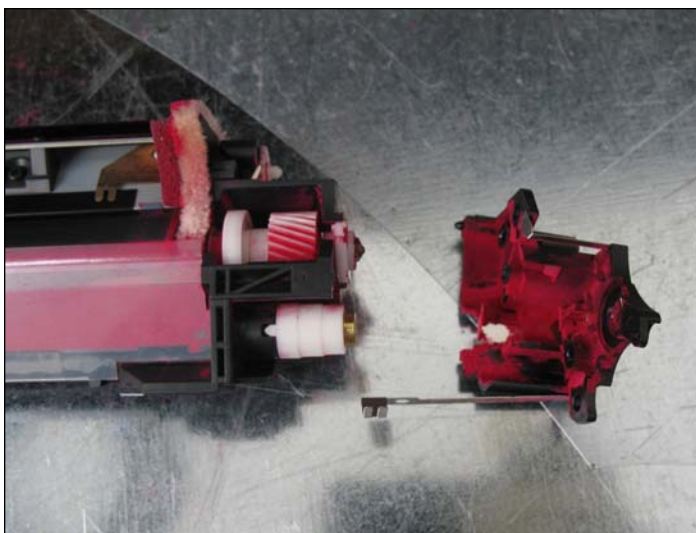
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8. Remove the screws that hold the contact in place.



NOTES

9. Contact End cap removed.

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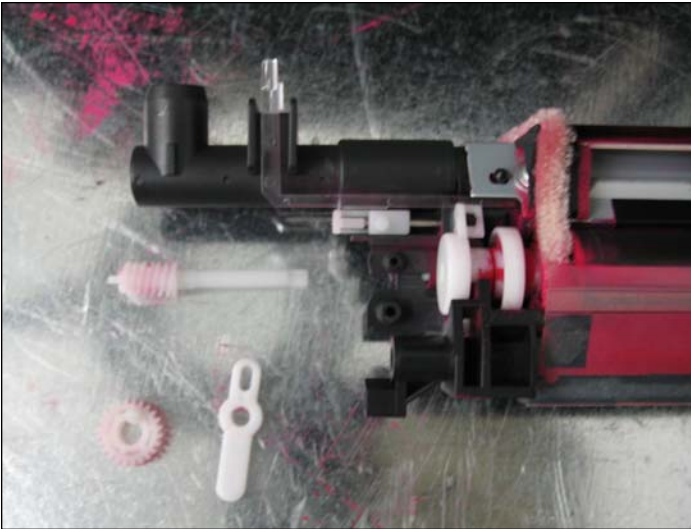


REMOVING THE NON-CONTACT END CAP

10. Remove the one screw that holds it in place.



11. End cap removed.



12. Optical window cleaning mechanism removed.

NOTES

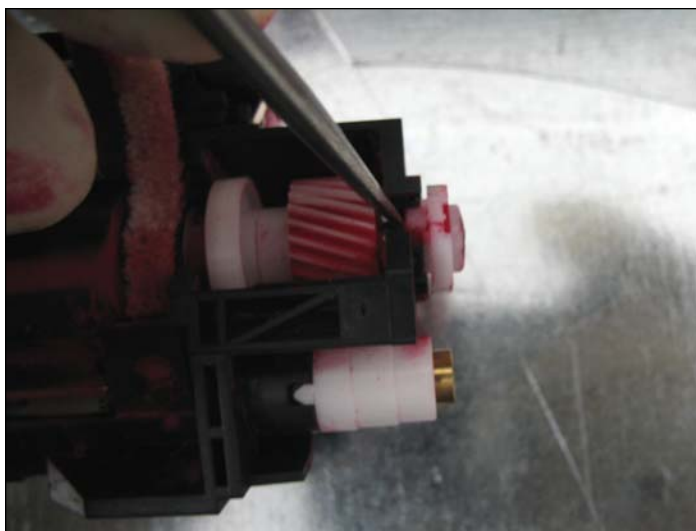
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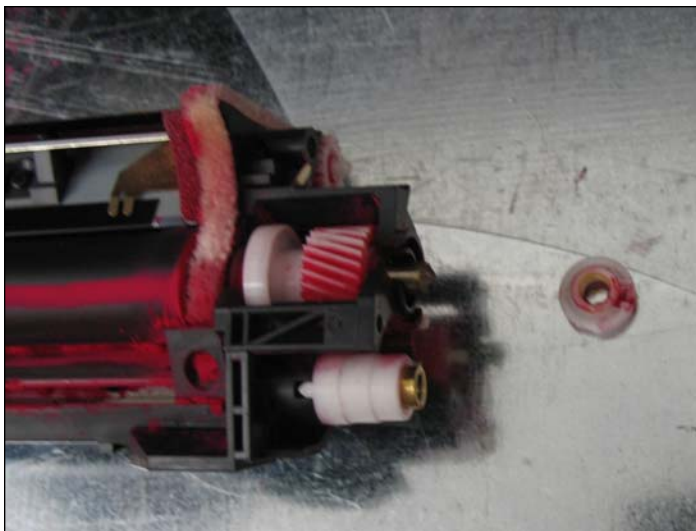
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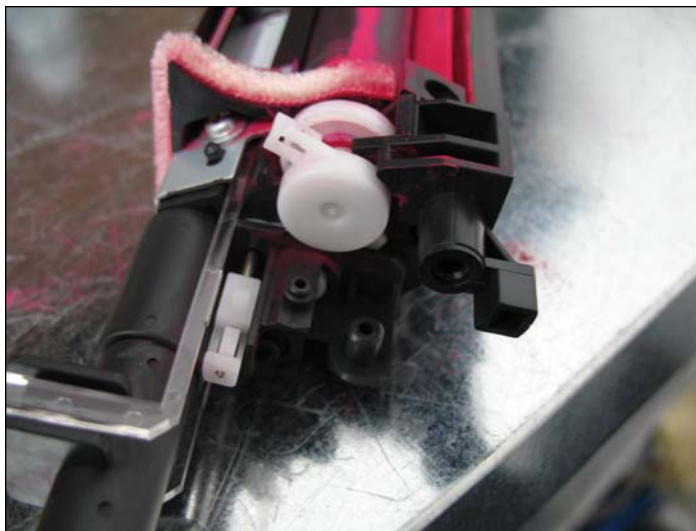
13. Remove the DVR protective sheet.



14. Remove the DVR support bearing.



15. DVR support bearing removed.

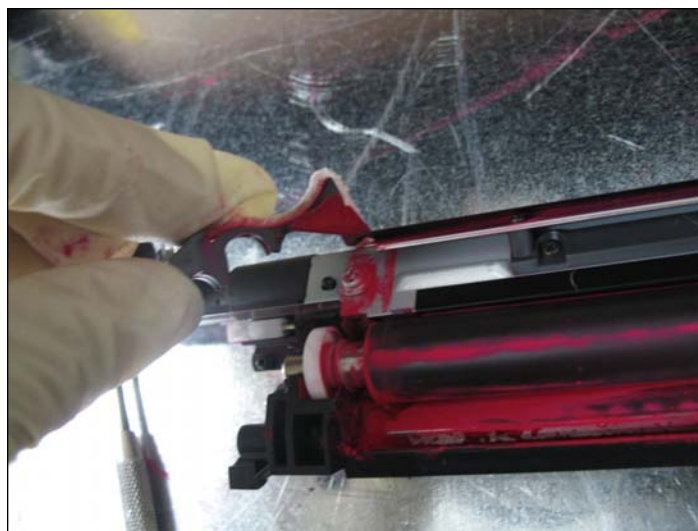
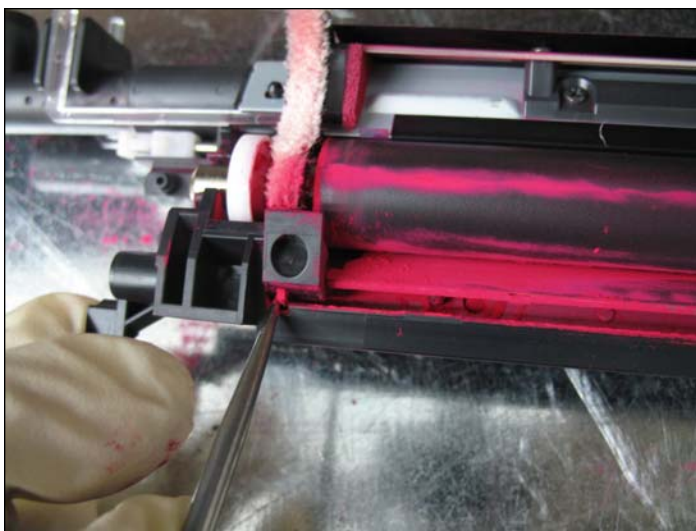


16. Remove the capped DVR support bearing.

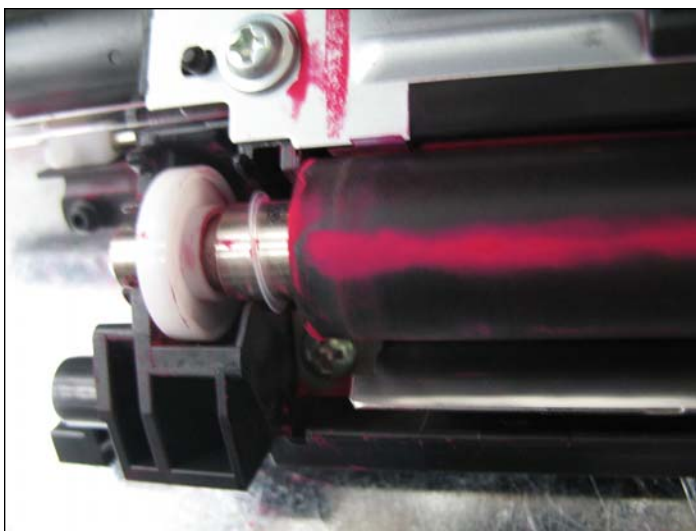
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17. Remove the drum end felts assembly (this consist of the felt strip and plastic molding).



18. Note: The small DVR roller washer located at the ends of the DVR axes, in the center when reinstalling the DVR roller as per the OEM).



19. DVR roller removed. Remove the two screws that hold the doctor blade.

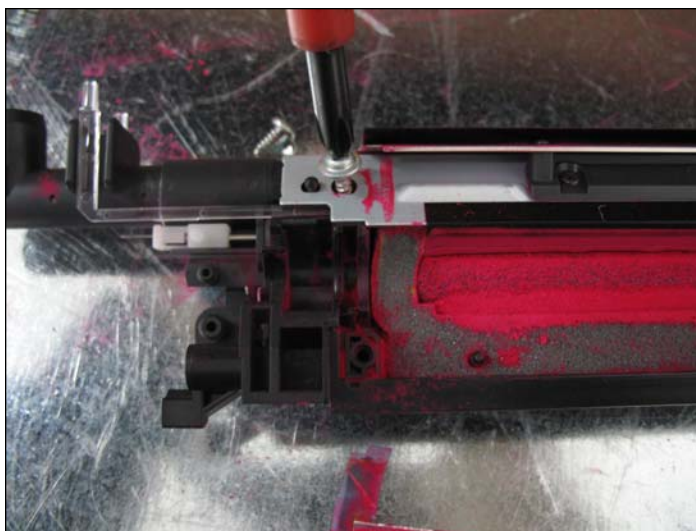
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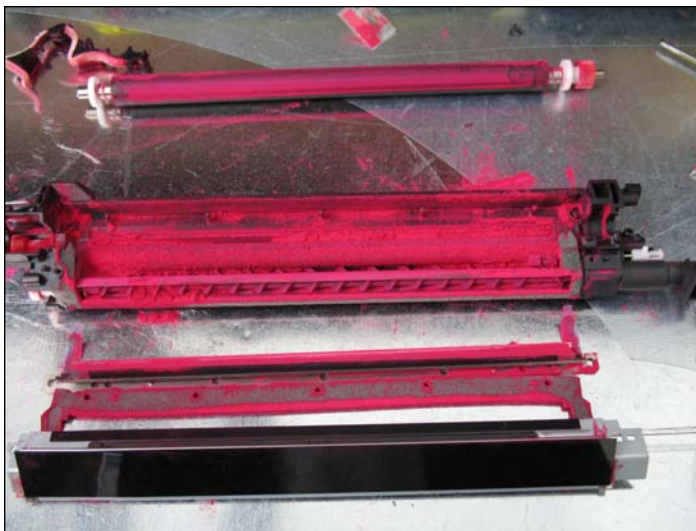
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20. Doctor Blade removed.



21. Remove the Seal Plate by removing the two screws that hold it in place.



22. Developer section disassembled. Clean out the section by using a vacuum.

NOTES

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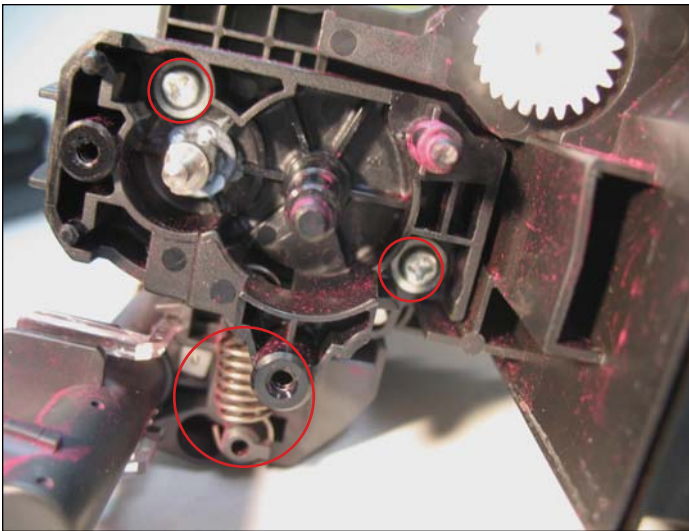


SEPARATING THE DRUM UNIT

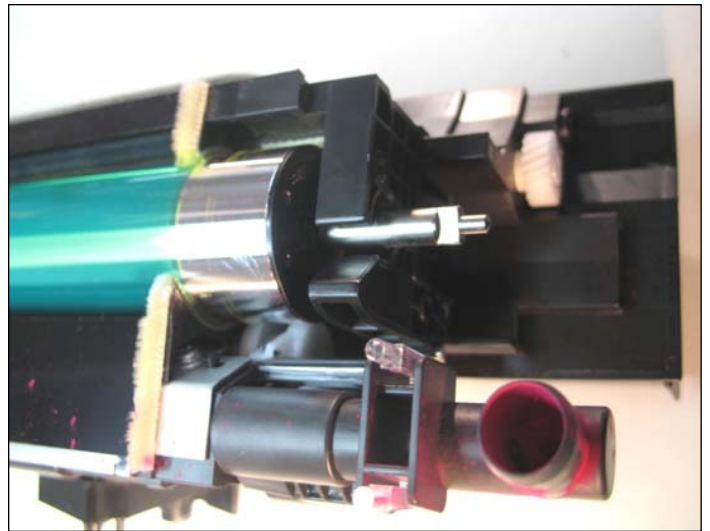
23. The drum unit (top) and developer unit (bottom) are joined together.



24. Locate the gear train side of the drum unit. Remove the OPC contact (highlighted). Now remove the gear train directly behind it. Note the positioning of the gears. One of the gears is not removable.



25. After removing the gears, release the two screws that hold the drum axle plate in place. Release the compression spring that is connected to the developer unit beneath. Slide the drum axle plate out.

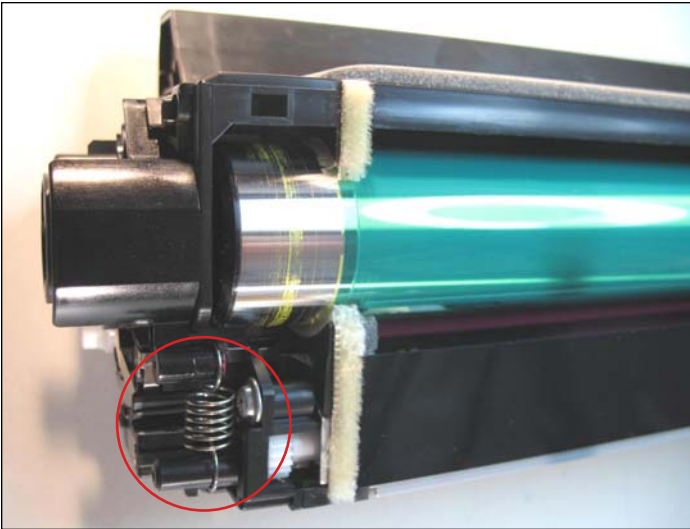


26. Drum axle plate removed.

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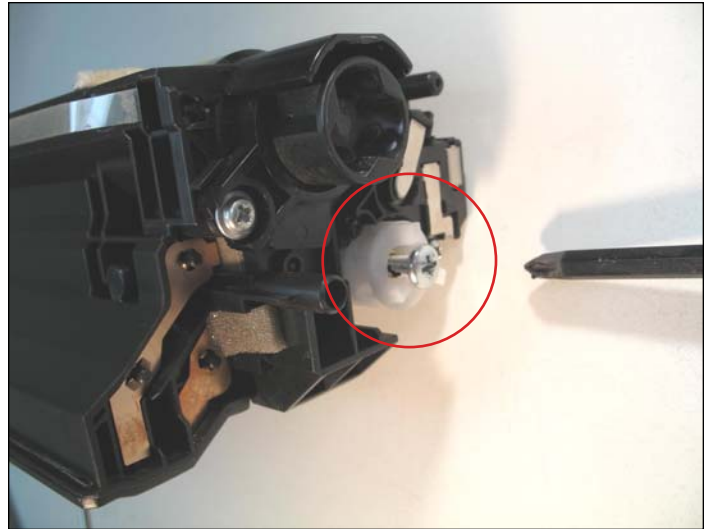
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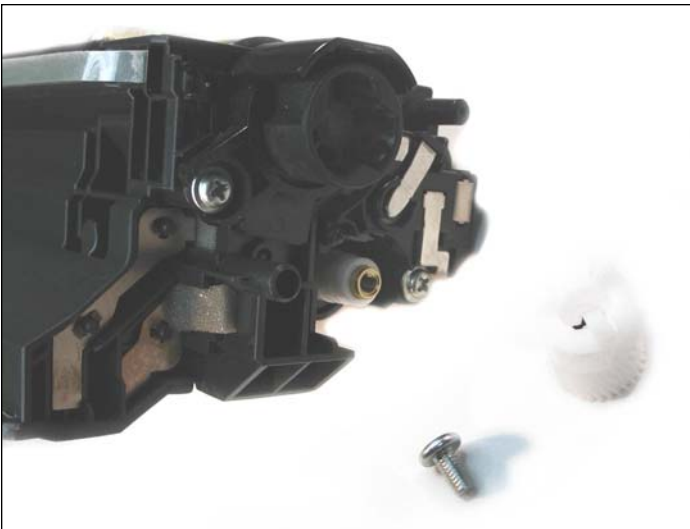
27. Release the compression spring on the opposite side of the drum unit (drive gear side).

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

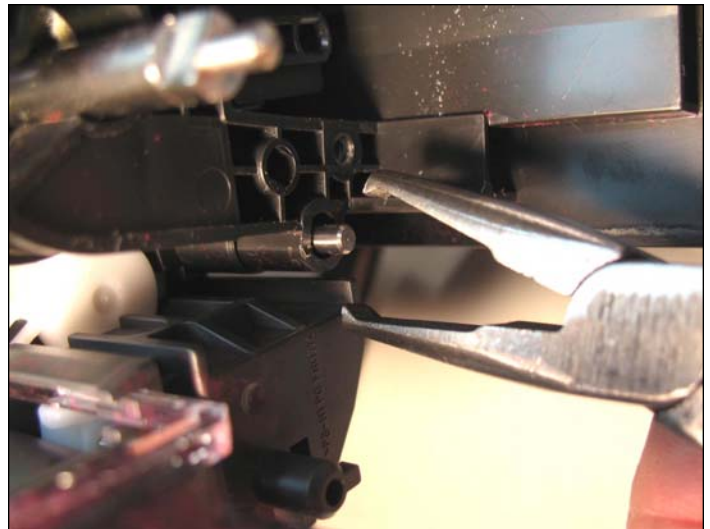


28. Locate the developer roller drive gear just below the OPC.

Using a phillips screwdriver, release the screw that holds it in place. Note: this is a metric screw and will not fit anywhere else.



29. Developer roller drive gear removed.



30. Now, return to the gear train side and locate the pin that hold the drum unit and developer unit together. Pull the pin out using a pair of pliers.

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31. 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

32. Remove the OPC drive gear support by first releasing the screw that holds the support plate in place.



33. Once the screw has been removed, turn the support counter clockwise until it comes to a stop. This will unlock the support and allow you to remove it completely.

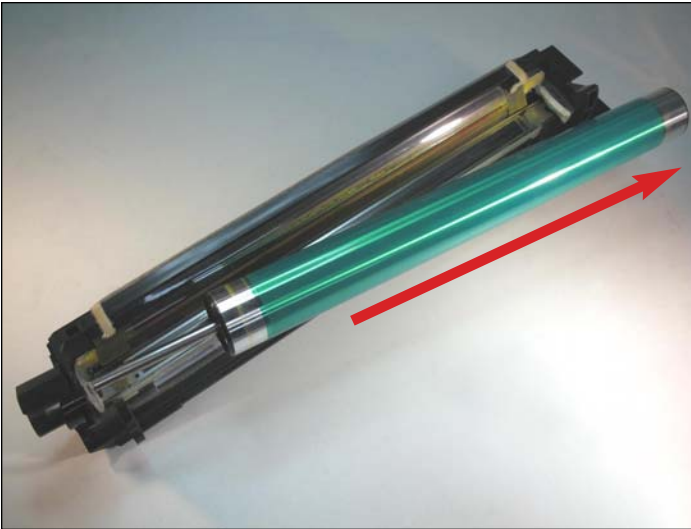


34. Final position of drive gear support plate that can now be removed.

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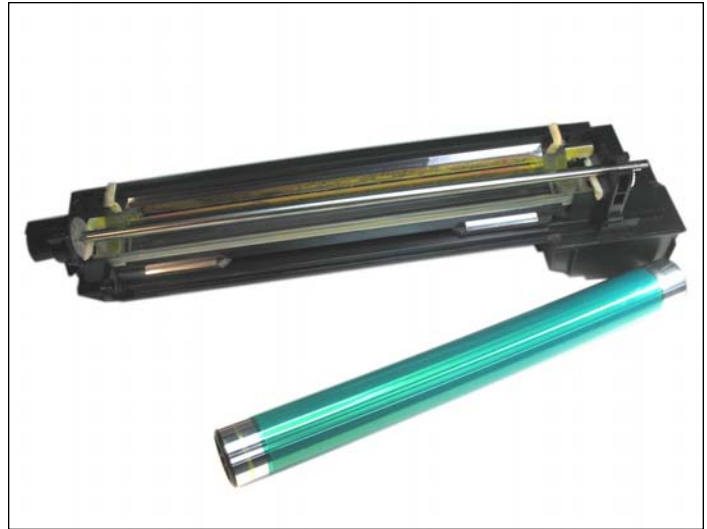
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REMOVING THE OPC

35. Once the OPC drive gear support plate has been removed, it will allow movement for the drum axle and will simplify the removal of the OPC.

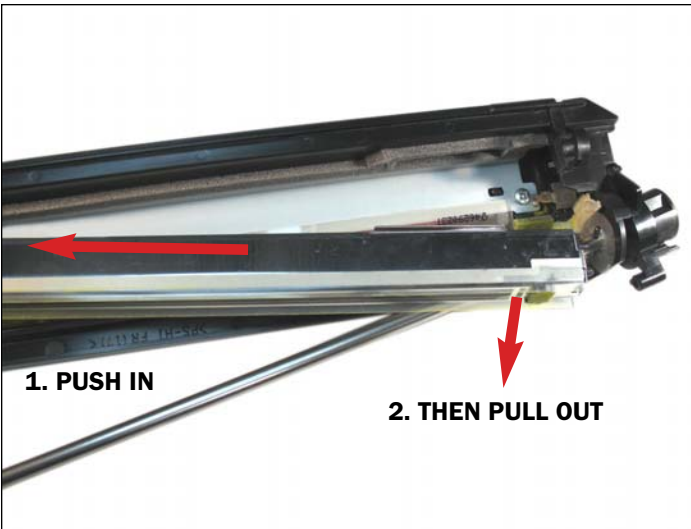
Note: the drum is secured on the axle with pressure. It will take some force to remove.



36. Picture of OPC drum removed.

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

Wipe the OPC using drum cleaning solution, cover, and set aside.



REMOVING THE CORONA WIRE ASSEMBLY

37. Remove the corona wire by pushing it towards the opening on the gear train side. This will allow you to lift one side of it for easy removal.



38. Corona wire assembly removed.

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REMOVING THE WIPER BLADE

39. Remove the wiper blade by first disengaging the two screws (shown) that hold it in place.



40. Remove the wiper blade in the manner shown.



CLEANING THE WASTE HOPPER

41. Hopper shown with wiper blade completely removed. 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 installing. Install the wiper blade following the previous removal steps in reverse.



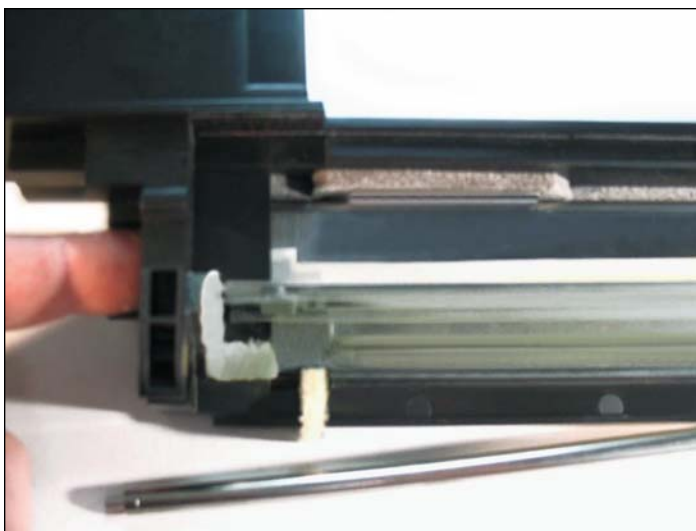
ASSEMBLING THE DRUM UNIT

42. Install the corona wire assembly via the gear train side first. Insert the corona wire assembly through the opening, then slide through the opposite side.

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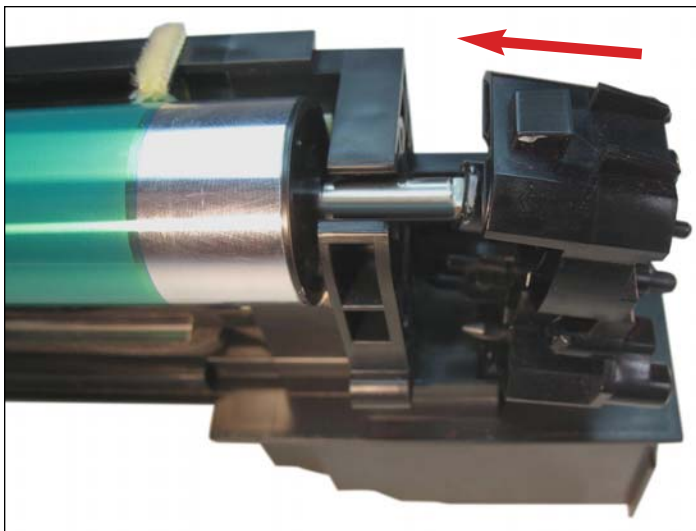


43. Once the corona wire is aligned with the cartridge, Push it with your finger tips until it is back into its original place.



INSTALLING THE OPC

44. Before inserting the OPC, make sure its gears are facing in the correct position.



45. Install the OPC drive gear support as shown.

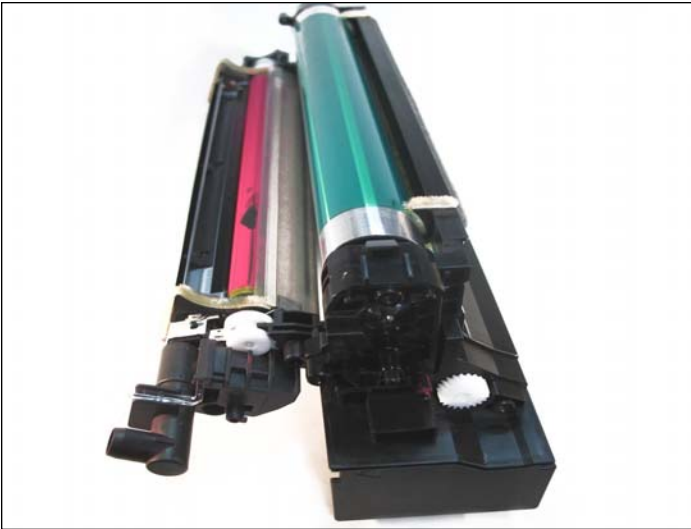


46. Rotate the support clockwise until it locks into place. Once it locks it will need to be secured with its appropriate screw.

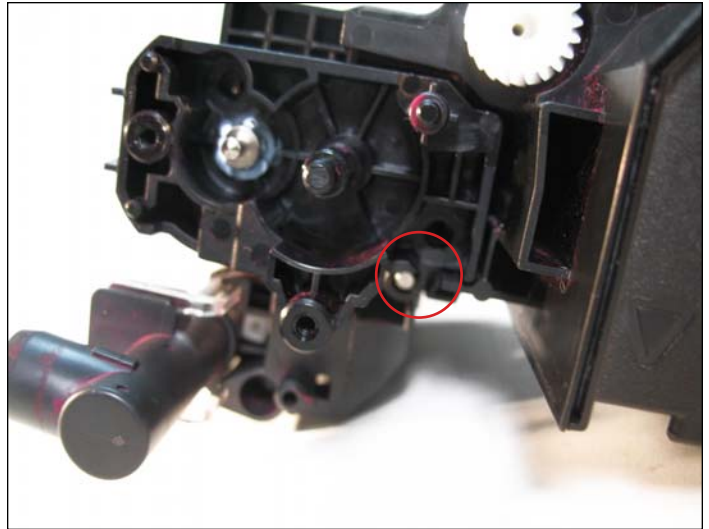
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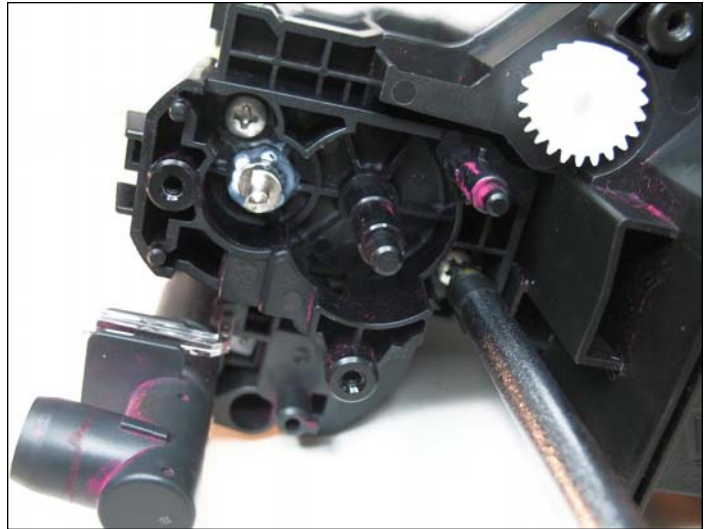
47. Assemble the two halves by first inserting the drive gear.



48. Once that has been accomplished join the two halves and insert the pin on the gear train side.



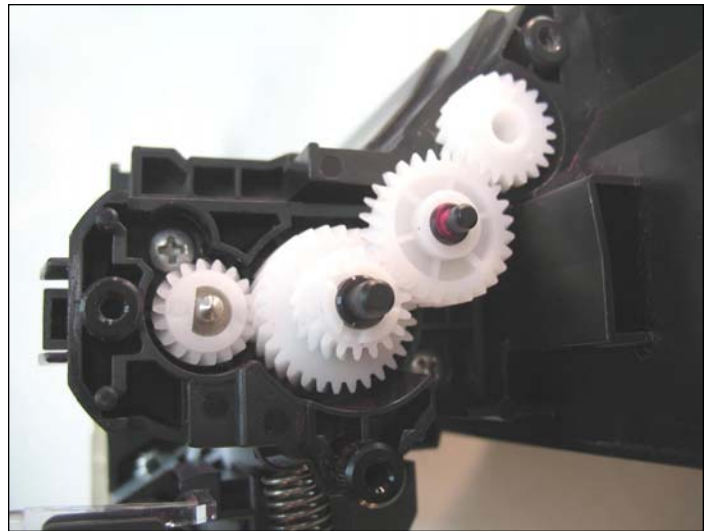
49. Install the developer roller drive gear and its appropriate screw.



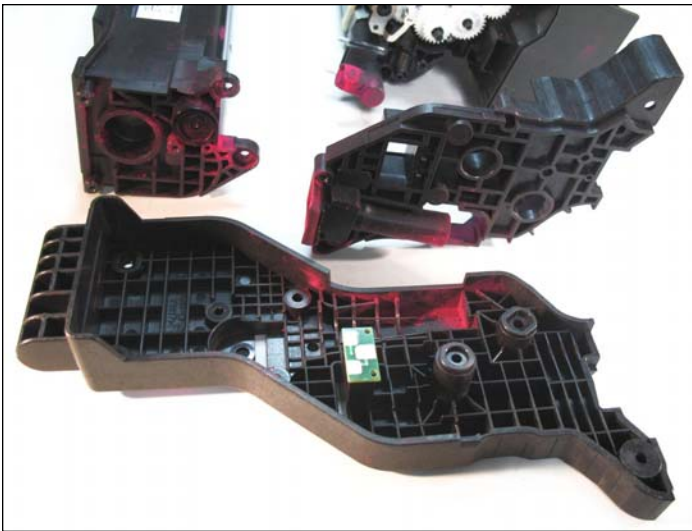
50. On the opposite side, install the support plate and fasten with two screw as shown.

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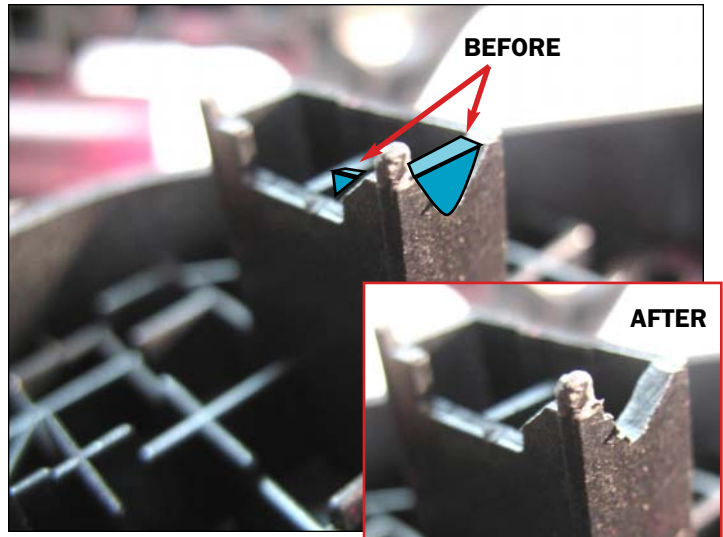


51. Once the two halves are assembled, continue installing the gear train and springs as shown.



REMOVING THE OEM CHIP

52. Locate the OEM chip on the inner portion of the end cap (shown). The chip has been fastened with a minimal amount of pressure and can be removed without tools.



ALTERING THE CHIP HOLDER

53. Before installing the replacement chip, a small adjustment will need to be made to the chip holder shown. Two groove patterns need to be cut out to accommodate the new chip.

Using a small cutting knife, cut out the two patterns as indicated in the illustration.

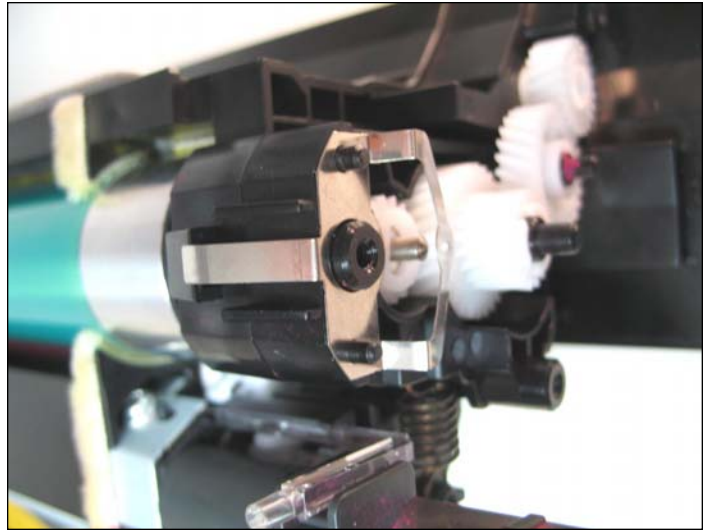
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54. Aftermarket chip installed.

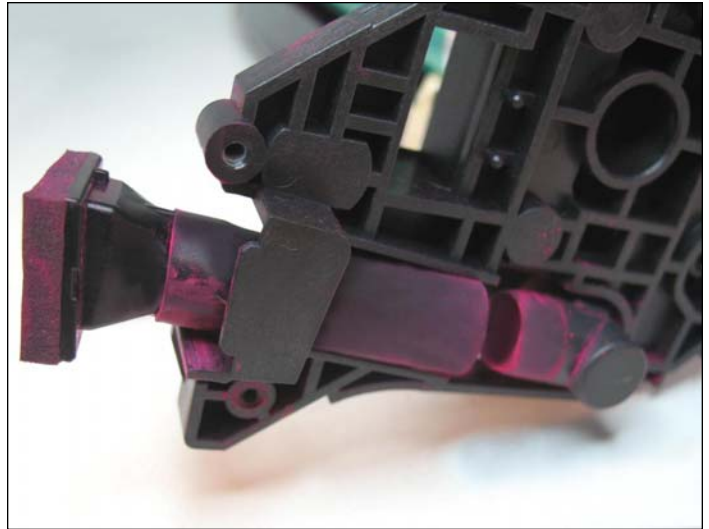


55. Install the drum contact as shown.



ASSEMBLING THE END CAP

56. Once the chip has been installed, you can proceed with installing the inner section of the end cap.



57. Install the transfer tube as shown.

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58. Install the outer end cap.



59. Secure the end cap with the seven screws.

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