HP 5500
COLOR LASER PRINTER
W/TONER CARTRIDGES
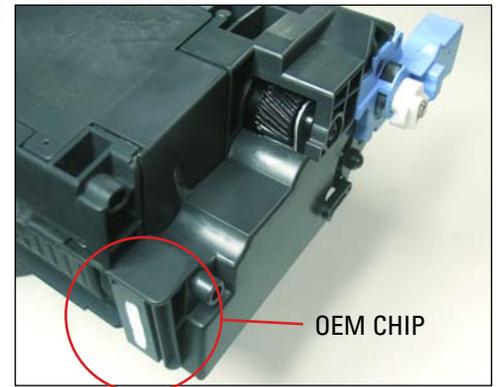
OEM CHIP

REMOVING THE OEM CHIP
1. Locate the OEM chip that is glued to the the rear of the cartridge.

2. Using a small flat head screwdriver, pry the glued chip off as shown.

3. Chip removed. It will be replaced later with a new Smartchip.

DISASSEMBLING THE CARTRIDGE
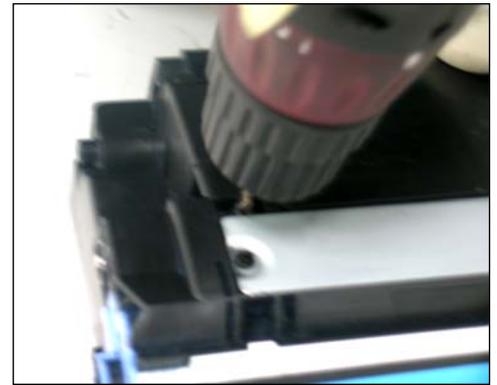
4. Use a 3/32 size bit to drill a hole in a small opening located on top of the cartridge.

Pin should pop out
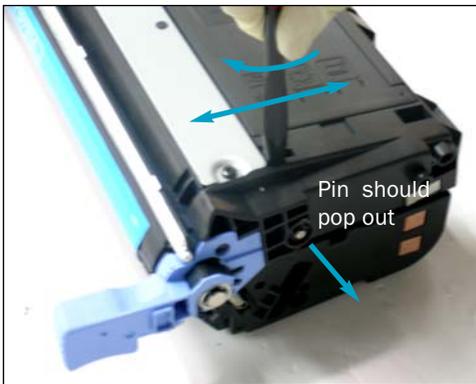
5. Insert a small flathead screwdriver into the first pin hole. Move from side to side or twirl until the pin comes out.
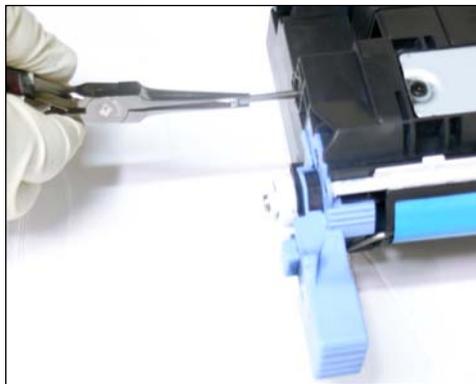
6. Pull out the pin with needle nose pliers.

7. Repeat the same procedure on the opposite end.

8. Pull out second pin as shown.

9. Release the spring located on the contact side.

10. Lift and remove the drum unit from the toner hopper.

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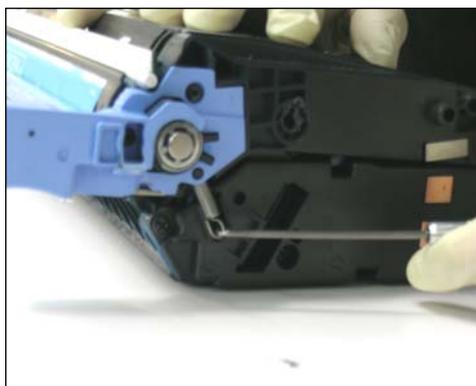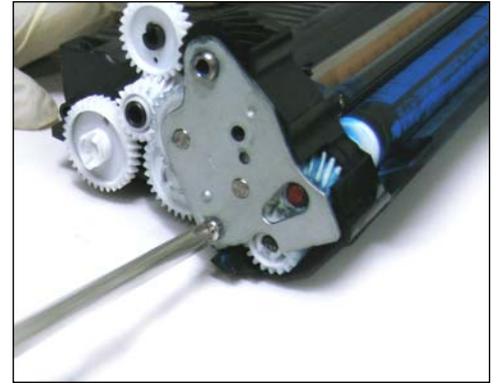+55-11-4822-3353

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11. Remove the pin bearing as shown.

12. Remove the two screws on the end plate as shown.

13. Remove the end plate.

14. Remove all the gears from the gear side of the cartridge.

15. Gears removed.

16. Remove the two screws on the opposite end cap as shown.

17. Remove the end cap.

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18. Remove the gear side support plate by removing the two screws as shown.
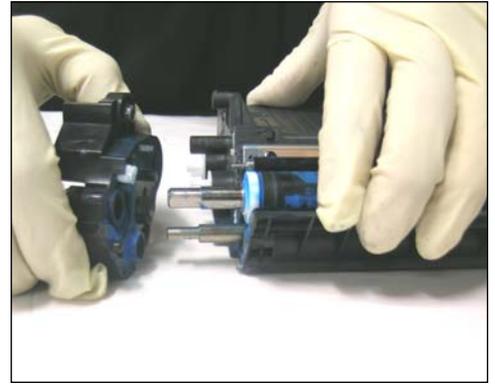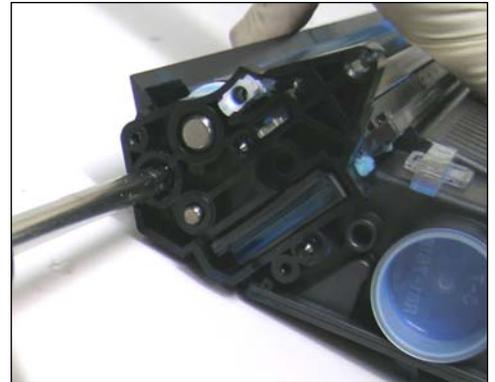

19. The support plate should now slide off easily.

20. Once the gear side support plate is removed, the toner charging roller should be loosened for removal.

21. Now remove the roller support plate by removing the two screws as shown.
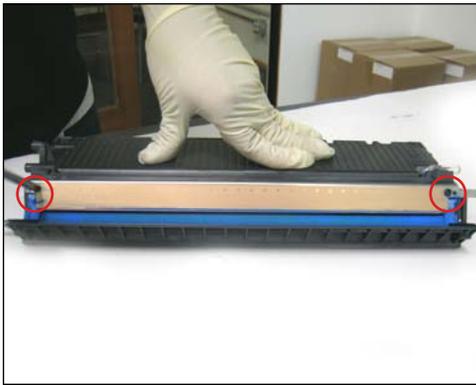

22. The roller support plate can now be removed.

23. Now remove the developer roller and set it aside.

24. Toner hopper front view with developer roller and toner charging roller removed.

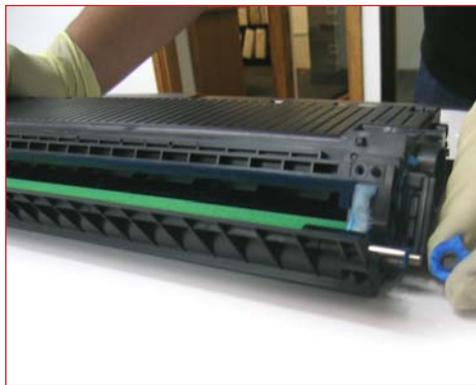25. Remove the two screws on opposite ends of the doctor blade as shown.

26. Before removing the blade, you must first cut it free from the foam seal that is glued to it.
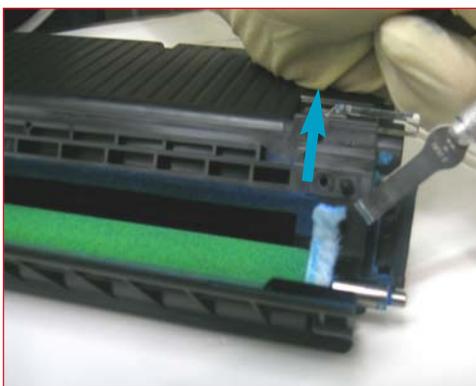

27. Blade removed.

28. *REMOVING THE SUPPLY ROLLER.
Remove the felt o-rings from opposite ends of the supply roller as shown.

***NOTE: If you do NOT intend on changing the supply roller skip steps 28 - 32, 35 - 36.**

29. Use a utility knife to carefully separate the mag roller felt from the supply roller as shown in the following steps.
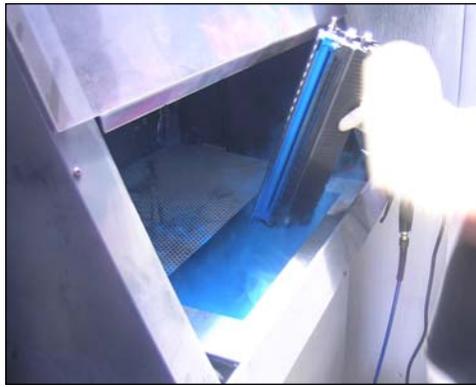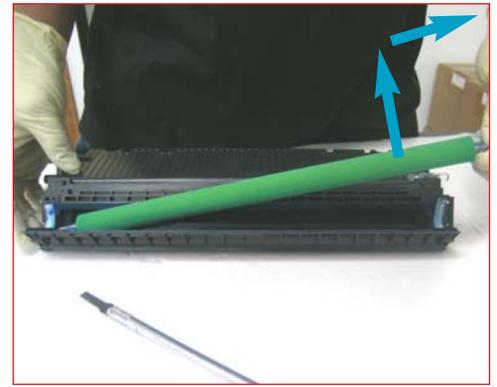

30.

31.

32. Remove the rubber bearing that is holding the supply roller in place.
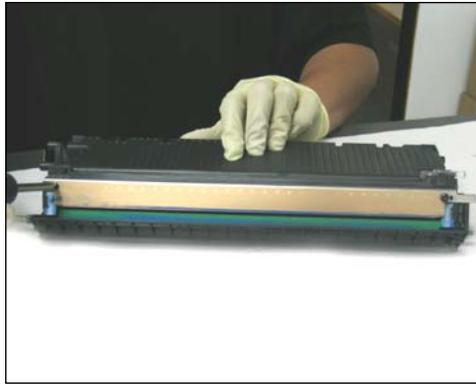
33. Remove the Toner fill plug.

34. Empty residual toner and clean cartridge using air pressure.

35. Lift and slide the supply roller out as shown.

36. Clean the cartridge again with the roller removed.

37. Now you are ready to reinstall all components.

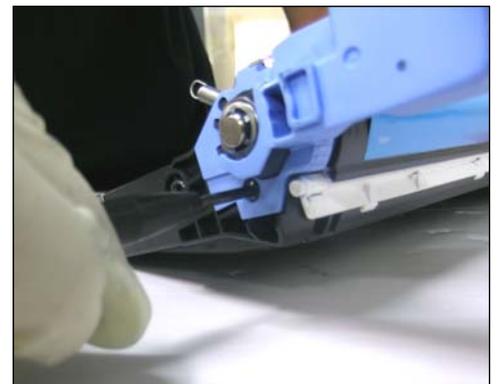38. Refill toner.

End Cap

Support Plate

Doctor Blade

End Cap

Support Plate
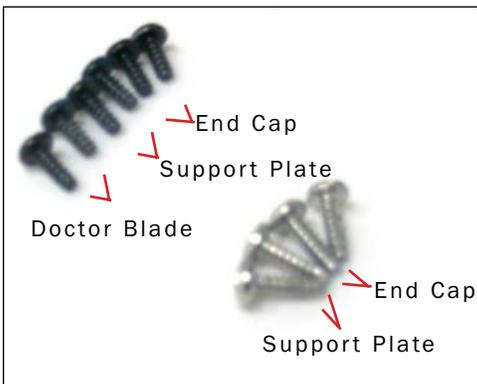
39. You should have six small black screws and four long silver gear side end cap screws.

40. To disassemble the drum unit, first remove the two screws on the blue cartridge installation handle on the gearless side as shown.

41. Release the handle from the clip and remove as shown.

42. Remove the spring.
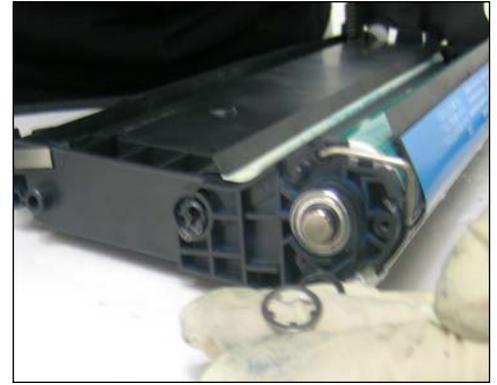
43. Remove the drum retainer ring as shown.

44. Then remove the brass ring as shown.

45. Remove the two screws on the cartridge installation handle at the opposite end as shown.

46. Use a pin puncher tool and hammer to loosen the drum axle inside. Punch in from the gearless side.

47. The axle pops out on the other side.

48. Slide the axle out completely as shown.
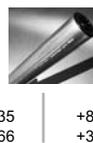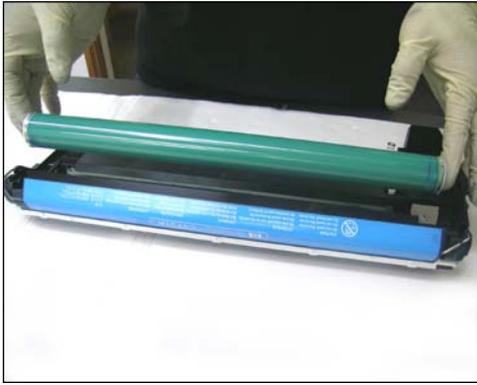
49. Remove the drum as shown.
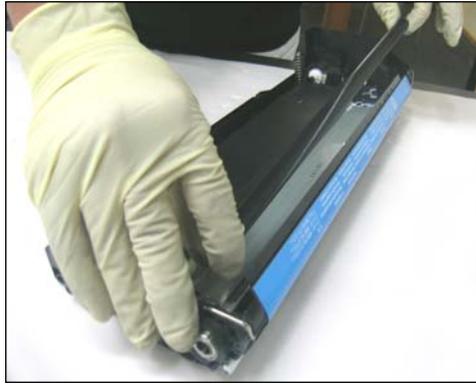
50. Then remove the PCR.

51. To remove the wiper blade, first cut through the OEM seal with a utility knife.

52. Then remove the two screws as shown.

53. Empty and clean the waste section.

54. Reinstall when done.

NOTE: A new Smartchip must be fitted after reassembly of the toner cartridge.

NOTES

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COLOR-CALIBRATION INSTRUCTIONS

Start from the Ready position display, press the green "check" button which will take you to the Menu page.

Highlight Option #3 ("Configure device") and press the check button again.
This will take you to the next window.

Highlight Option # 2 ("Print Quality") and press the check button.
Then in the next window scroll all the way down until you get to "Calibrate Now" then press the check button once more.

The machine will take several minutes to complete the calibration.

COLOR-CALIBRATION RESULTS

True color representaion shown with calibration.

Poor color representaion shown without calibration. Image seems to have a reddish tint. Note the "blue" belt in the picture has turned purple.

NOTES

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DEFECTS DUE TO CARTRIDGE REMANUFACTURING

Problem	Toner leakage and dark spots on printed image (Toner build-up).
Details	During printing, toner accumulates between doctor blade and developer roller and, if extensive, spots develop on printed images.

Causes	1. Defective doctor blade or developer roller.
	2. Improper assembly of cartridge (especially, the side leakage).
	    - Imbalance in tightening of doctor blade.
	    - Worn-out end felt of developer roller.
	3. Weak charging of toner / possibly due to improper storage condition.

Suggestion	1. Care in regeneration of cartridge components and not using damaged components. 2. Precise control of blade gap and replacement of end felt. 3. Maintaining the charging power of toner / Proper toner storage.

Problem	Backgrounding.
Details	Toner speckles being printed in the margin of printed image.
Causes	1. PCR contamination / defective PCR or wiper blade. 2. Lack of re-usability of OPC drum (Defective surface or improper cleaning). 3. Calibration error due to worn-out transfer belt. 4. Weak charging of toner / possibly due to improper storage condition.
Suggestion	1. Replace PCR and /or wiper blade. 2. Replace OPC drum. 3. Replace transfer belt. 4. Maintaining the charging power of toner / Proper toner storage.

Problem	Streaking.
Details	Development of streaks on printed images.
Causes	1. Physical or chemical damages of doctor blade and / or developer roller surface (scratches, damages of surface coating etc.). 2. Toner coating forms on blade due to an insufficient gap between doctor blade and developer roller.
Suggestion	1. Proper regeneration of the components and selection of good components. 2. Change the cartridge assembly method.

Problem	Scattered toner in the edge of paper.
Details	Traces of toner in the paper margin and edge section and contamination of transfer belt.
Causes	1. Localized wear of OPC drum, wiper blade, PCR, developer roller, and / or doctor blade. 2. Side leakage (toner build-up).
Suggestion	1. Replace the worn component. 2. Be careful with sealing properly during the cartridge assembly (end felt, sealing blade, recovery blade, etc.).

DEFECTS DUE TO IMPROPER TONER

Problem	Image density (ID) problem
Details	ID of printed images is either too low or too high and the color gradation deviates too much from the linearity.
Causes	1. Weak charging power of toner / possibly due to improper storage. 2. Defective OPC drum, doctor blade, developer roller, adder roller. 3. Calibration error due to defective Smartchip, worn-out transfer belt (it could be a simple mis-calibration at printer switch-on).
Suggestion	1. Maintaining the charging power of toner / Proper toner storage. 2. Replace worn components. 3. Replace the Smartchip or the transfer belt (Repeat the calibration more than three times before deciding to replace).

ABSOLUTE COLOR® TONERS

#6462 - HP® 5500, EP 86 Absolute Black® Chemical toner (13,000 pages)

#6463 - HP® 5500, EP 86 Absolute Cyan® Chemical toner (12,000 pages)

#6464 - HP® 5500, EP 86 Absolute Magenta® Chemical toner (12,000 pages)

#6465 - HP® 5500, EP 86 Absolute Yellow® Chemical toner (12,000 pages)

BLADES WIPER & DOCTOR

#6063 - HP® 5500, EP 86 doctor blade sealing foam, 25 pack

#8403 - HP® 5500, EP 86 doctor blade, 10 pack

#9763 - HP® 5500, EP 86 doctor blade, 10 pack (with chemical coating)

#8362 - HP® 5500, EP 86 Mylar recovery blade, 25 pack (special order)

#8269 - HP® 5500, EP 86 wiper blade, 10 pack

CARTRIDGE PARTS

#5698 - HP® 5500 wiper blade sealing foam, 25 pack

#9618 - HP® 5500, 4600 drum axle retaining ring, 100 pack

#5959 - HP® 5500, 4600 toner adder roller felt washer, 50 pack

#9151 - HP® 5500, EP 86 developer roller end felt (Left & Right), 50 sets

#9808 - HP® 5500, EP 86 Wiper blade end felt, 100 pack

#5925 - HP® 5500, EP 86 Wiper blade end foams, 50 pack

DRUMS

#8544 - HP® 5500, EP 86 Uni Drum ® BLUE OPC with gears (special order)

MAG, DVR & PCR ROLLERS

#9791 - HP® 5500, EP 86 developer roller, 5 pack

#5875 - HP® 5500, EP 86 developer sponge supply roller, 10 pack (und. fin. test)

SEALS

#9118 - HP® 5500, 4600 pull tab, 10 pack

#8584 - HP® 5500, EP 86 Clear Seal® adhesive, 50 pack

#9117 - HP® 5500, EP 86 shipping lock, 10 pack

SMARTCHIP & FUSES

#8419 - HP® 5500, EP 86 Smartchip ® Black cartridge

#8420 - HP® 5500, EP 86 Smartchip ® Cyan cartridge

#8421 - HP® 5500, EP 86 Smartchip ® Magenta cartridge

#8422 - HP® 5500, EP 86 Smartchip ® Yellow cartridge