# HP 2600N CARTRIDGE REMANUFACTURING INSTRUCTIONS



# HP 2600N **COLOR LASER PRINTER**

Parts •

Coatings

PRELIMINARY **TECHNICAL DETAILS** AND REMANUFACTURING **INSTRUCTIONS FOR CMYK CARTRIDGES** 











BRAZIL +81-3-44-55-2789 +55-11-4822-3033 +55-11-4822-3353

+54-11-4574-3706



#### **HP 2600N DETAILS**

- New Canon engine 8 ppm.
- New AIO Cartridges.
- Miniature ASIC Chip 20% smaller in size than prior chips.
- Smaller and cheaper.
- Size and weight reduction.
- Difficulties to recycle working on options.
- Major challenge to produce compatible chip.
- Below \$500,00.00 USD.

#### ELECTROPHOTOGRAPHIC SYSTEM

- New Canon engine 600 x 600 dpi.
- 780nm ASGI Laser con 4 prisms.
- Single Pass.
- Direct imaging into paper. No transference band.
- New Chemical Toner.
- · Fast fusing, accept wide range of media.

#### **CARTRIDGES WITHOUT CHIPS**

- Printer Initializes.
- Acts as if cartridge is missing, red light at panel, screen indicates "Install 'Black' Cartridge," etc.
- · Immediately shows figure of missing cartridge.
- Without chip in any individual cartridge printer would not work.
- Yellow indicates "10.1003 supply error."
- Cyan indicates "10.1001 supply error."
- Magenta indicates "10.1002 supply error."
- · Cannot reset chip and cannot print without chip.







### HP 2600N CARTRIDGE

• Gross weight of cartridges are: BLK = 675g. YCM = 642g.

#### CARTRIDGE DATA

• Black ref. Q6000A yields 2500 A4 pages at 5% coverage. Hopper with 110g toner.

- Cyan ref. Q6001A yields 2000 A4 pages at 5% coverage. Hopper with 90 g. toner.
- Magenta ref. Q6003A yields 2000 A4 pages at 5% coverage. Hopper with 90g toner.
- Yellow ref. Q6002A yields 2000 A4 pages at 5% coverage. Hopper with 90g toner.
- Optical detection for toner depletion.
- Metal pin left-side acts also as an electrical contact for PCR and Wiper Blade.
- Right-side pin is plastic and hollow, yet it can be extracted to disassemble the cartridge and is reusable.
- Design of image section is such that it does not allow disassembly of the OPC drum.





 Pn: +1 310-280-9020
 +34-93-757-1335
 +81-3-44-55-2789
 +55-11-4822-3033

 Fx: +1 310-838-7294
 +34-93-741-4166
 +1 310-838-7294
 +55-11-4822-3353

55-11-4822-3353 +54-11-4574-3706

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### CARTRIDGE DISASSEMBLY: METAL PIN REMOVAL

1. Drill a parallel hole 2,5mm x 3mm deep just above the pin at the front of the cover as shown to allow extraction with needle pliers.



2. Grip the metal pin to pull it out with pliers. using a pair of tweezers, move the top metal tab back and forth while pulling slowly. This will allow disengagement of the pin from the internal contact without breaking the plate. Do not use apply any undue force in pulling. See step 15 explaining the consequences.



3. Metal pin extracted.

#### NOTES



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**CARTRIDGE DISASSEMBLY:** <u>PLASTIC</u> PIN REMOVAL 4. A 2mm (0,078") conical Boring Tool is used for this procedure. Alternatively use a 14-13 wood screw.



5. Thread the tool 3 or 4 turns into the plastic pin hole.



6. Once tool is firmly into the pin, start pulling straight out to dislodge the pin from the cartridge.



7. Pin extracted.



#### UNINET INC. • HP 2600 CARTRIDGE REMANUFACTURING IMAGING RUCTIONS



**RELEASING THE DRUM SHUTTER FROM THE HOPPER** 8. Using a scriber or small screwdriver, push the drum shutter toner hopper tab out from its housing on one side of the hopper.



9. Repeat the same procedure for the opposite side.

NOTES





#### **CARTRIDGE SEPARATION PROCEDURE**

10. Insert a flat screwdriver in the area shown between the two sections of the cartridge and pry them apart.



11. Pry the sections out far enough to grasp within your hands.



**REMOVING THE TENSION SPRINGS** 12. Remove the tension spring on the side of the cartridge as shown.



13. Repeat the same procedure on the other side of the cartridge.

Note: Spring tabs are very fragile and will recommend caution when installing or removing them in a difference manner.





14. With the springs removed, carefully separate the two sections as shown.



ABOUT THE ELECTRICAL CONTACT

15. If undue force is applied during the removal of the metal pin and without concern for the integrity of the electrical contact (shown) it can be rendered useless.



16. Cartridge sections shown side by side.

NOTES





**RELEASING THE DRUM SHUTTER FROM THE DRUM UNIT** 17. Unhook the drum shutter from its support tab on one side of the drum unit.



18. Repeat the same procedure on the opposite side.



19. Drum shutter completely removed.



### DRUM REMOVAL PROCEDURE

20. To replace the drum and to reach other components, it is necessary to actually cut off the non-contact plastic spindle shown.

Use a scriber or small flathead screwdriver to push the drum away to avoid damaging the end cap during cutting.



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**CUTTING THE OPC** 

21. Using a hacksaw, begin cutting the non-contact spindle halfway only.



22. Rotate drum 90° counter-clockwise midway the cut to avoid going too deep and damage components.



23. The drum can now be removed.



24. Drum shown with spindle severed off.





#### **REMOVING THE OPC**

25. Carefully lift the drum from the right side shown and slide it out.



26. Push in the sawed-off spindle out through the end cap as shown.



27. Spindle removed.

NOTES





#### **REMOVING & CLEANING THE PCR**

28. Using a pair of needle-nose pliers, pull the PCR out from one side as shown.



29. Then slide it out



30. Clean with a small amount of water and mild soap in case of contamination, otherwise use a simple dry pad.

NOTES





#### **DISASSEMBLING THE WIPER BLADE**

31. Disassemble the blade by removing the two phillips screws that hold it in place.



32. Be careful not to crease or damage the PCR contact strip attached.



33. Use a scriber or flathead screwdriver to pry the wiper blade assembly from its adhesive seal.



34. Lift the wiper blade out from one side and to the next.





**CLEANING THE WIPER BLADE ASSEMBLY** 35. Clean the wiper blade with a dry, lint-free cotton pad.



**CLEANING THE WASTE HOPPER** 36. Use a vacuum to clean the waste bin. This will allow you to re-use the OEM adhesive.

Avoid using compressed air to keep the toner from scattering and disrupting the purpose of the OEM adhesive seal.



**ASSEMBLING THE WIPER BLADE** 37. Install the clean wiper blade assembly and tighten with the two Phillips screws.



**TESTING THE WIPER BLADE CONTACT** 38. Check the electrical continuity with a Tester to ensure good contact of the wiper blade frame against main contact.



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**CLEANING THE PCR CONTACT STRIP** 39. Remember to clean the PCR contact strip and PCR saddles where residual toner may still be present.



40. Using a cotton tip swab, clean the edges and underlining of the PCR blade.



**CLEANING THE PCR SADDLES** 41. Use a cotton tip swab to clean the PCR saddles to remove residual toner.



42. Apply a small amount of isopropyl alcohol for best results.



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43. Apply a small amount of conductive grease onto the black PCR saddles on both sides. Do not over-lubricate.



**ASSEMBLING THE PCR** 

44. Install the PCR by sliding it into the saddle on one side then lowering it onto the other saddle using a pair of needle-nose pliers.

NOTES





#### INSTALLING THE NEW OPC DRUM

45. A new covered OPC drum with pre-inserted drive/contact spindle and a separate non-contact spindle (shown) is required for this procedure.



46. First, lubricate the blue axle housings with a minimum amount of white bearing grease.

Insert the non-contact spindle (shown) into the housing.



47. Carefully slide the drum with its drive/contact spindle into the axle housing on the left as shown.



48. Lower the opposite end of the drum into place as shown. Align flange with the axle attachment.





49. The next step is fitting the pieces together using a phillips screwdriver.



50. Close-up of axle housing.



51. Rotate the spindle back and forth to align it with the OPC. Once it is aligned, push inward until the spindle locks.



52. The final step in assembling the drum unit is to install the drum shutter. You can choose to unwrap the newly installed drum now and complete this process, or keep the drum covered and continue with the disassembly and cleaning of the developer unit.





DISASSEMBLING THE DEVELOPER UNIT



**REMOVING THE CONTACT PLATE** 53. Unscrew the two phillips screws shown to remove the contact side end-plate.



54. Carefully separate the contact plate assembly from the developer unit while keeping the contoured contact (shown) from being distorted, especially at the point of separating it from the pillar.



55. Contact plate removed with contoured contact shown intact.





**REMOVING THE GEAR-SIDE END PLATE** 56. Unscrew the two phillips screws shown.



57. Separate plate carefully.



**POSITIONING THE GEARS** 58. Note the position of all the gears shown.



**REMOVING THE DEVELOPER SLEEVE** 59. After removing the gears, slide out the developer sleeve without damaging the <u>mylar</u> blade -- not the doctor blade beneath.





#### **DEVELOPER SLEEVE MAINTENANCE**

60. Secure the two bushings and clean the developer roller with compressed air. Alternate with a lint-free cotton pad. Be sure to clean the two bushings thoroughly.



**REMOVING THE DOCTOR BLADE** 61. Remove the blade assembly by unscrewing both phillips screws on both ends of it.



62. Lift doctor blade carefully.



# DOCTOR BLADE MAINTENANCE

63. Clean the working edge with a soft pad. Be aware that the working edge is made of coated steel which can be damaged by cleaning with solvents or applying excessive pressure.



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**CLEANING THE FEEDING ROLLER & HOPPER** 64. Note that the feeding roller cannot be taken out.



65. Vacuum the toner from the roller and from the hopper. Secure foam seal at each end.



### **REFILLING THE TONER HOPPER**

66. Refilling can be done thru the opening in the mag roller and the space on top of the feeding roller. Use a 12mm beak in the bottle and load the proper toner volume.



**ASSEMBLING THE DEVELOPER ROLLER** 67. Reinsert the bushings on each end of the developer roller shown and slide into place.



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68. Apply a very small amount of conductive grease in the contacts ends, then install the contact plate with the two phillips screws.



**ASSEMBLING THE DOCTOR BLADE** 69. Fit Doctor Blade assembly into place.



70. Tighten screws at both ends.

NOTES





**JOINING BOTH SECTIONS: METAL & PLASTIC PINS** 71. Join both sections aligning the pin insertion points.

Insert the metal pin back into place until a click is heard.



72. Insert the plastic pin by hand mid way.



73. Then drive it home with a small hammer.



74. Section assembly is complete.





**OEM CHIP REMOVAL PROCEDURE** 75. Locate the OEM chip at the rear of the hopper.



76. Using an X-Acto knife, carefully cut away the melted plastic tabs above the chip that anchor it into place.



77. Slide the blade beneath the base of chip and begin lifting it up carefully, sliding it out through the slotted housing as shown.



78. OEM chip removed.





#### **REPLACING THE CHIP**

79. Apply a small amount of plastic cement into the slots near the broken tabs shown. This will seal the sides of the replacement chip into place. NOTE: Be careful not to apply so much glue that would cover up the contacts rendering the chip useless.



80. Insert the new chip into the slots with the golden contact position shown.



81. New chip inserted.



82. Allow the cement to dry before testing the cartridge.

