# FUTURE GRAPHICS





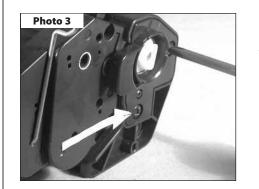
#### **Technical Instructions Printers OEM** Info Tools 1 Part Number: C4129X #1 Phillips Head Screwdriver HP5000 Gram Load: 500 grams Small Flat Blade Screwdriver CORPORATE HP5000N LOS ANGELES, USA HP5000GN Yield @ 5%: 10,000 Needle Nose Pliers Pages/Min.: 16 ppm Anhydrous Isopropyl Alcohol Resolution: 300/600/1200dpi Padding Powder Soft Lint-Free Cloth ATLANTA, USA Cotton Swabs Vacuum or Compressed Air Photo 2 DALLAS, USA Step 1 Place the cartridge top down, drum side

up, with the metal drum axle facing you.

# Step 2

With a #1 Phillips screwdriver, remove the screws and pull the drum axle (metal side plate) away.

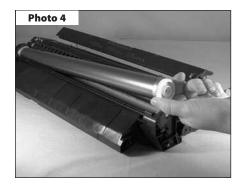
(See Photo 2)



# Step 3

Turn the cartridge end for end and remove the two screws holding the drum bushing (plastic side plate) then remove the bushing.

(See Photo 3)



# Step 4

Place the axle, and bushing aside. Pull the drum shutter back, and tape it or hold it with your thumb and grab the drum by the small gear end. Lift up on the small gear and pull the drum out, being careful not to catch the large drum gear on the corner of the recovery blade, it may bend or tear the blade, causing future toner leaks.

(See Photo 4)

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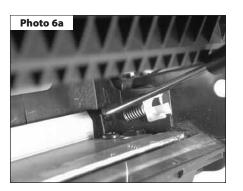
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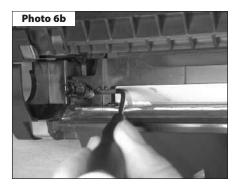
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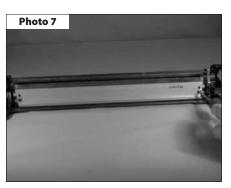


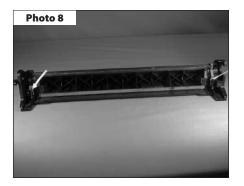
# Notes

Wrap the drum for protection, if it is to be used again, and place it off to the side.











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# **HP5000 Technical Instructions**

# Step5

Next, using a pair of Needle Nose pliers, grasp the PCR by the metal shaft, remove it, and place it off to the side as well.

# **Step6**

You can now remove the two pins that hold the cartridge together. Do not try to push the pins in from the outside, the wiper blade and plastic stops are in the way, they must be removed from the inside of the cartridge. Use a long punch or bent extraction tool, and tap, then press the pins out from the inside, on both ends of the cartridge. The OEM pins can be reused during re-assembly, or after-market pins which have a shoulder (allowing them to be removed from the outside) can be used instead. Separate the two halves and put the toner hopper aside for now. (See Photo 6a and 6b)

# Step7

Hold the waste hopper with the wiper blade facing you, and remove the two Phillips head screws holding the wiper blade.

(See Photo 7)

# Step8

Lift the wiper blade out and away. Dump out all waste toner from the hopper, being careful not to damage the recovery blade or foam seal (on the upper back of the waste hopper). Clean the PCR saddles with a cotton swab and alcohol.

(See Photo 8)

# Step 9

Clean or replace the wiper blade and reinstall it at this time. Clean the PCR with a clean lint free cloth (avoid using water or solvents on this PCR). Re-install the PCR, and then apply padding powder to a new drum and install it.

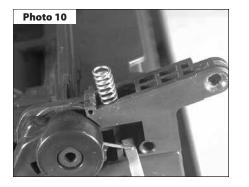
(See Photo 9)

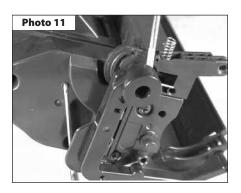
# Step 9 (cont.)

Be careful when installing the drum axle that the inner shoulder fits into the depression around the hole in the side piece completely . If not it will pinch the waste hopper side piece against the drum gear, which can cause binding. The waste hopper is now finished and can be set aside.



Notes





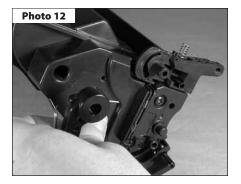
# Step10

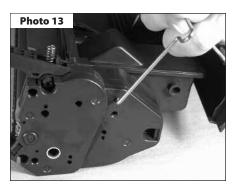
Take the toner hopper and place it on the table with the mag roller side facing you. The drum cover is attached on the right side by a wire only, while the left side is attached by both a wire and the curved, spring-loaded plastic "drum cover arm". First, on the left end lift the drum cover arm spring and latch it on the cutout of the arm. (See Photo10)

# Step11

Take a flat blade screwdriver and pry the drum arm outward until it comes completely off of the shaft.

(See Photo 11)





# Step 12

At this point, pull out the wire on that side until it is completely released from the toner hopper.

(See Photo 12)

# Step 13

Turn the wire back and upward until the keyed flat piece of the wire on the right side is vertical and aligned with the vertical slot on the plastic side plate, then slide it out.

# (See Photo 13)

Do not force it, as it will come out easily when aligned correctly. You have now removed the drum cover completely (it is very easy to re-install, in reverse order, at the end). Set it aside until the last.

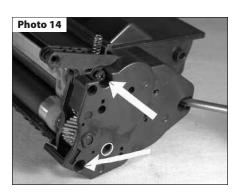
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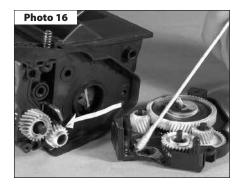


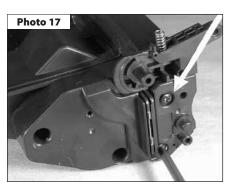
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#### Step14

Use a Phillips screwdriver to remove the three screws on the end cap on the right side of the toner hopper.

(See Photo 14)

# Step15

Remove the side plate with a small, flat blade screwdriver. All the gears will stay attached to the side cover and can easily be air cleaned.

# Step 16

Clean the conductive grease from the mag bias contact and replace it with fresh conductive grease. Do not remove the mixing paddle drive gear still attached to the toner hopper (indicated by arrow in photo 16).

(See Photo 16)

# Step17

Remove the two screws from the small left side end cap and remove the end cap. (See Photo 17)



Remove the white plastic drive gear, plastic stabilizer arm and mag bushings from the mag roller. Remove the mag roller assembly.

(See Photo 18)

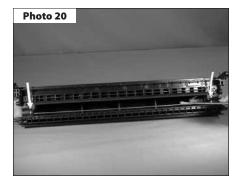
# Step 19

Remove the two Phillips head screws holding on the doctor blade.

(See Photo 19)

**NOTE:** These screws are longer than all of the other screws in this cartridge and must be used here only. Remove the red and white plastic spacers and then the doctor blade. For reassembly: the red spacer goes on the right.

# Notes







# Step 20

Dump the remaining toner from the toner hopper and vacuum or clean with compressed air. Clean the toner sensor with a cotton swab and alcohol.

# (See Photo 20)

Also vacuum the mag roller "magnetic seals" (indicated with arrows in photo #20).

# Step 21

The hopper may now be filled through the magnetic roller opening and reassembled in reverse order, if a seal is not to be used.

(See Photo 21)

# Step 22

Complete the toner hopper reassembly in reverse order. Reattach the drum cover assembly.

# Step 23

With the toner hopper and waste hopper units reassembled, test each one for free movement and lack of noise by turning them manually.

# Step 24

Finally, join the two hoppers together. (See Photo 24)

# Step 25

Align them and push the two pins into place. The cartridge is now ready for testing.



# Notes

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# **CARTRIDGE CROSS COMPATIBILITY**

CANON IMAGECLASS 2210/2220	HP LASERJET 5000
HP5000	HP5000GN
HP5000N	

# **FUTURE GRAPHICS PRODUCT LISTING**

Carridge Bag15x23.5 mil Heat-Sealable Black/Silver AntiStatic FoilBAG13X23100Carridge Bax25Carridge Bax Issert50Carridge Bax IssertHSX001AREI100Carridge Bax IssertMetal/Toer-Gor Self-AdhesiveHPS0001RAIEI100Carridge Ten GuideMetal/Toer-Gor Self-AdhesiveHPS0001FCI10Carridge Ten GuideRemandacturing InstructionsHPS0008RAIDEK10/150Doctor Blade End PieceRed/White,Mag Roller End, Set of TwoHPS0008RAIDEK100Doctor Slade End PieceSionar, Weighted, Extra QuietHPS0004RGNT5/50DrumSionar, Weighted, Extra QuietHPS0008RID10Drum Protector FeltSinder Felt, Adhesive, S InchSUTTERFELTS100Find Spatter / Actuator AmmSight Side1010Mag Roller BuhlengSight Side101010Hopper GapSide Infolge Spatter, RedSIGTIL PIUG1010Mag Roller BuhlingSier Of Two, Side per SetHPS0001RDXPR1010Mag Roller BuhlingSier Of Two, Side per SetHPS0001RDXPR1010Seal Pul TabNew, OyaHPS0001RDXPR101010Seal Pul TabNew, OyaHPS0001RDXPR101010Seal Pul TabNew, OyaHPS0001RDXPR101010Seal Pul TabNew, OyaHPS0001RDXPRHPS0001RDXPR1010Seal Pul TabNew, OyaHPS0001RDXPRHPS0001RDXPR10	PRODUCT	DESCRIPTION	ITEM #	PACK QTY.
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Hopper CapFill Hole Plug .98" Diameter, RedSXFILL PLUG100Hopper Rail340 nm Full-Length, PlasticWXCL IP340MM100Mag Roller BushingSet of Two, Sold per SetHP5000BUSHING10Mag Roller SleeveNew, Black SurfaceHP5000PCRONYX10PCRNew, OnyxHP5000PCRONYX10Recovery BladeWasteWasteSologocul Stall50Seal Pull TabNon-jece, Black and OrangeHP5000PULITAB10Seal Pull TabOrange With Adhesive StripWXPULITAB10TonerS00 gm BottleHP5000ONYX50010TonerSub Black Surface Strip StripHP5000ONYX50010TonerSub Black Surface Strip Strip StripHP5000ONYX50010TonerSol gm Bottle, OnyxHP5000ONYX50010TonerSub Black Surface Strip St	Drum Shutter Actuator Arm	With Spring	HP5000ARM	10
Hopper Rail340 mm Full-Length, PlasticWXCLIP340MM100Mag Roller BushingSet of Two, Sold per SetHP5000BUSHING10Mag Roller SleeveNew, Black SurfaceHP5000PCRONYX10PCRNew, OnyxHP5000PCRONYX10Recovery BladeWasteWXRBLADEW50SealAdhesive Goldseal, Foam, WhiteHP5000QCLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP5000PULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100TonerS00 gm Bottle, OnyxHP5000NYX50010TonerS00 gm Bottle, OnyxHP5000NYX10KG10Toner, MICRS00 gm BottleSon gm BottleInMCRS00 gm BottleInInMCRS00 gm BottleInInMCR <td>End Cap</td> <td>Right Side</td> <td>HP5000ENDCAPR</td> <td>10</td>	End Cap	Right Side	HP5000ENDCAPR	10
Nag Roller BushingSet of Two, Sold per SetHP5000BUSHING10Mag Roller SleeveNew, Black SurfaceHP5000PCRONYX10PCRNew, OnyxHP5000PCRONYX10Recovery BladeWateWate50SealAdhesive Goldseal, Foarn, WhiteHP5000GLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP5000PULLTAB10Soang With Adhesive StripWXPULLTAB100TonerS00 gm Bottle, OnyxHP5000TNRS0010TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000NYX10KG1Toner, MICRS00 gm BottleHP5000NYX10KG10	Hopper Cap	Fill Hole Plug .98" Diameter, Red	SXFILLPLUG	100
Mag Roller SleeveNew, Black SurfaceHP5000MAGONYX10PCRNew, OnyxHP5000PCRONYX10Recovery BladeWasteWXRBLADEW50SealAdhesive Goldseal, Foam, WhiteHP5000GOLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP5000PULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100Toner500 gm BottleHP5000TNR50010TonerSol gm Bottle, OnyxHP5000NYX10KG1Toner, MICRSol gm BottleSol gm BottleIn	Hopper Rail	340 mm Full-Length, Plastic	WXCLIP340MM	100
PCRNew,OnyxHP500PCRONYX10Recovery BladeWasteWXRBLADEW50SealAdhesive Goldseal, Foam, WhiteHP5000GLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP5000PULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100TonerS0 gm BottleHP5000TNR50010TonerBuk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000NYX10KG1Toner, MICRS0 gm BottleInterfield and the stripInterfield and the strip	Mag Roller Bushing	Set of Two, Sold per Set	HP5000BUSHING	10
Recovery BladeWasteWXRBLADEW50SealAdhesive Goldseal, Foam, WhiteHP500GOLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP500OPULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100Toner500 gm Bottle, OnyxHP500OTNR50010TonerSol gm Bottle, OnyxHP500ONYX50010TonerBuk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP500ONYX10KG10Toner, MICRSol gm BottleHP500ONICR50010	Mag Roller Sleeve	New, Black Surface	HP5000MAGONYX	10
SealAdhesive Goldseal, Foam, WhiteHP500GOLDSEAL50Seal Pull TabTwo-piece, Black and OrangeHP500OPULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100Toner500 gm BottleHP500OTNR50010TonerSol gm Bottle, OnyxHP500ONYX50010TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP500ONYX10KG10Toner, MICRSol gm BottleHP500ONICR50010	PCR	New, Onyx	HP5000PCRONYX	10
Seal Pull TabTwo-piece, Black and OrangeHP5000PULLTAB10Seal Pull TabOrange With Adhesive StripWXPULLTAB100Toner500 gm Bottle, OnyxHP5000TNR50010TonerS00 gm Bottle, OnyxHP5000NYX50010TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000NIXES0010Toner, MICRS00 gm BottleSol gm Bottle10	Recovery Blade	Waste	WXRBLADEW	50
Seal Pull TabOrange With Adhesive StripWXPULLTAB100Toner500 gm BottleHP5000TNR50010Toner500 gm Bottle, OnyxHP5000ONYX50010TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000ONYX10KG1Toner, MICR500 gm BottleIonge BottleIonge BottleIonge Bottle	Seal	Adhesive Goldseal, Foam, White	HP5000GOLDSEAL	50
Toner500 gm BottleHP5000TNR50010Toner500 gm Bottle, OnyxHP5000ONYX50010TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000ONYX10KG1Toner, MICR500 gm BottleSo0 gm Bottle10	Seal Pull Tab	Two-piece, Black and Orange	HP5000PULLTAB	10
Toner 500 gm Bottle, Onyx HP5000ONYX500 10   Toner Bulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per Box HP5000ONYX10KG 1   Toner, MICR 500 gm Bottle, Onyx Sold gm Bottle, Onyx 10	Seal Pull Tab	Orange With Adhesive Strip	WXPULLTAB	100
TonerBulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per BoxHP5000ONYX10KG1Toner, MICR500 gm BottleHP5000OMICR50010	Toner	500 gm Bottle	HP5000TNR500	10
Toner, MICR500 gm BottleHP5000OMICR50010	Toner	500 gm Bottle, Onyx	HP5000ONYX500	10
	Toner	Bulk Bag, 22 lb Per Fill – Box of 2, ONYX, Sold per Box	HP5000ONYX10KG	1
Wiper BladeKurokiHP50000WBLADEK10/150	Toner, MICR	500 gm Bottle	HP5000OMICR500	10
	Wiper Blade	Kuroki	HP5000OWBLADEK	10/150

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