GRAPHICS

HP4000TECH

241111 **TECHNICAL INSTRUCTIONS**



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Technical Instructions		Printers		OEM Info		Tools	1
CORPORATE LOS ANGELES, USA US 1 800 394.9900 Int'l +1 818 837.8100 FAX 1 800 394.9910 Int'l +1 818 838.7047	HP4000/4000 4000TN/4050 4050T/4050T Canon LBP-1 3175MS (FX-0 Canon Lasero	DN/4000T/ D/4050N/4050SE/ N 760MS/3175/ 5) class 3170/3175	Part Number Gram Load: 3 Yield @ 5%: 6 Pages/Min.: Resolution: 3 Part Number	r: C4127A 305 gms 5,000 pgs 17 300/600/1200dpi r: C4127X	#1 Phillips So Small Flat Bla Needlenose Padding Pov Soft Lint-Fre Cotton Swał Conductive	crewdriver ade Screwdriver Pliers wder e Cloth bs Grease	
ATLANTA, USA US 1 877 676.4223 Int'l +1 770 516.9488 FAX 1 877 337.7976 Int'l +1 770 516.7794			Gram Load: 5 Yield @ 5%: 1 Pages/Min.: 7 Resolution: 3	00 gms 0,000 pgs 7 00/600/1200dpi	Punch or Be Anhydrous I Vacuum or C	nt Extraction Too sopropyl Alcohol Compressed Air	,
DALLAS, USA US 1 877 499.4989 Int'l +1 972 840.4989 FAX 1 877 774.1750 Int'l +1 972 840.1750 MIAMI, USA US 1 800 595.429 Int'l +1 305 594.3396 FAX 1 800 522.8640 Int'l +1 305 594.3309 NEW YORK, USA US 1 800 431.7884 Int'l +1 631 345.0121 FAX 1 800 431.8812 Int'l +1 631345.0690	Photo 1			Step 1 Place the cart up, on the tab facing you. W remove two s (See Photo 1)	cartridge top down, drum side table with the metal drum axle I. With a Phillips #1 screwdriver, IO screws. 1)		
SANFORD, USA US 1 800 786.9049 Int'l +1 919 775.4584 FAX 1 800 786.9049 Int'l +1 919 775.4584 TORONTO, CAN CAN 1 877 848.0818 Int'l +1 905 712.9501 FAX 1 877 772.6773 Int'l +1 905 712.9502 BUENOS AIRES, ARG ARG 0810 444.2656 Int'l +011 4583.5900 FAX +011 4584.3100	Photo 2			Step 2 Pull the drum (See Photo 2)	axle (metal side	plate) away.	



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Step 3

Place the axle 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 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 3)

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



Notes















Step 4

Next, using a pair of needlenose pliers, grasp the PCR by the metal shaft, remove it, and place it off to the side as well. (See Photo 4)

Step 5

You can now remove the two pins that hold the cartridge together. These are tapered pins pushed in from the outside, so they must be removed from the inside of the cartridge. With the drum shutter held back, use a long punch or bent extraction tool, and tap, then press, the tapered pins out from the inside on both ends of the cartridge.

(See Photo 5 and 6)

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. Set the toner hopper aside for now.

Step 6

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

(See Photo 7)

Step 7

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)

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Notes

Photo 16	Step 13 Next, use a Phillips screwdriver to remove the two screws on the left (gear) side of the toner hopper. (See Photo 16)
Photo 17	Step 14 Pressing backward on the latch with a small, flat blade screwdriver remove the side plate. All the gears will stay attached to the side cover and can easily be air

Photo 18

Photo 19

Photo 20



The mag roller can now be removed. (See Photo 20)

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Photo 12



Clean or replace the wiper blade and reinstall it at this time. Clean the PCR using a mild soap & water. Re-install the PCR, and then apply padding powder to a new drum and install it. Be careful when installing the drum axle that the inner shoulder fits into the depression around the hole in the side piece completely (*See Photo 9*), so as not to pinch the waste hopper side piece against the drum gear (*See photos #10 "right",* and #11 "wrong"). This can cause binding, gear noise and a possible "error code 51". The waste hopper is now finished and can be set aside.

Step 9

Take the toner hopper and place it on the table with the mag roller side facing you. The drum cover is attached on the left side by a wire only, while the right side is attached by both a wire and the curved, spring-loaded plastic "drum cover arm". First, lift the drum cover arm spring and latch it on the cutout of the arm. (See Photo 12)

Step 10

Next, take a flat blade screwdriver and pry the drum arm outward until it comes completely off of the shaft. (See Photo 13)



Step 11

At this point, pull out the drum shutter bar until it is completely released from the toner hopper.

(See Photo 14)





Step 12

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

(See Photo 15)

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



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HP4000 Technical Instructions





Photo 23



Step 16

Remove the white plastic mag roller guide, while noting the correct position for re-assembly.

(See Photo 21)

NOTE: It will cause banding if put back on wrong.

Step 17

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

(See Photo 22)

NOTE: These screws are longer than all of the other screws in this cartridge and must be used here only.



Pry out gently on each end of the doctor blade with a small flat blade screwdriver to aid in removal.

(See Photo 23)



Step 19

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 24)



Step 20

Also vacuum or with compressed air clean the mag roller "magnetic seals" (indicated with arrows).

(See Photo 25)



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Notes



Notes



Step 21

Clean the old conductive grease off of the mag roller bias contact plate and add a very small amount of fresh conductive grease. (See Photo 26)

The hopper may now be filled through the magnetic roller opening and reassembled in reverse order.



Step 23

Complete toner hopper assembly, including reinstallation of the drum cover assembly. With the toner hopper and waste hopper units reassembled, test each one for free movement and lack of noise by turning them manually.

(See Photo 27)

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