160/1320/P2015



TECHNICAL INSTRUCTIONS

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Technical Instructions		Supplies						Tools	1
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Using a 3/32-inch drill bit, drill a hole into the square holes on the back of the waste hopper. (See Photos 5 & 6)





Step 5

If the cartridge pins are not pushed out the ends of the cartridge, use a small, flat-blade screwdriver to push the pins out the end of the cartridge. (See Photo 7) Grab the pins using needlenose pliers and remove the pins.



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Photo 8 Step 6 Separate the two sections of the cartridge. (See Photo 8) Photo 9 Step 7 Using a utility knife, cut two small notches in the plastic that surrounds the drum contact axle. Photo 9 and Photo 10 Photo 10 Photo 11 Step 8 With needlenose pliers, grab the drum contact axle and pull the axle out from the end of the waste hopper. (See Photos 11) Photo 12 Step 9 Carefully lift up on the non-gear end of the drum and slide the drum out of the bearing end cap. (See Photos 12) If the drum is going to be reused, place it in a protected area away from the light.

HP 1160/1320/P2015 Technical Instructions

Photo 13



Step 10

Lift out the PCR. (*See Photo 13*) Clean the PCR using mild soap and water.

Photo 14









Step 11 Remove the two screws holding the wiper

blade. (See Photo 14)

Step 12

Remove the wiper blade. (*See Photo 15*) Clean the waste hopper using dry, compressed air or a vacuum.

Step 13

Apply padding powder to the wiper blade. Place the blade onto the waste hopper and install the two screws that hold the blade in place. (*See Photo 16*)

Step 14

Clean the PCR saddles using a cotton swab and alcohol. Apply new conductive grease to the black conductive saddle and put the clean PCR into place. (See Photo 17)



Step 15

Apply padding powder to the drum. Install the drive gear into the bearing end cap. Slide the drum's contact axle into the end of the waste hopper. *(See Photo 18)* Rotate the drum to ensure that the drum and wiper blade are properly lubricated. Clean the padding powder off the PCR using a lint-free cloth. Set the waste hopper aside in a protected area away from the light.



Step 16

The gear housing end cap on the toner hopper is sonically welded to the toner hopper. Place a small, flat-blade screwdriver at the base of each plastic weld and carefully pry up. *(See Photo 19)*



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Using a 3/32 inch drill bit, drill a hole into the gear housing end cap where the two plastic welds hold the end cap to the toner hopper.

(See Photo 20)



Step 18

Insert a small, flat-blade screwdriver between the toner hopper and the gear housing end cap next to the sonic welds. Carefully pry the end cap away from the toner hopper. (See Photo 21)





Photo 26



HP 1160/1320/P2015 Technical Instructions

Before the end cap can be removed, Hewlett-Packard has also sonically weld-

ed the alignment pin that holds the mag

roller stabilizing bar in place. This weld has

to be broken as well. Insert a flat-blade

screwdriver between the stabilizing bar

and the toner hopper. (See Photo 22)

Carefully pry the gear housing end cap

away from the toner hopper. Remove the

Remove the three gears from the end of the cartridge, leaving the toner agitator

Rotate the cartridge 180°. Remove the

two screws holding the contact end cap to

Step 19

end cap.

Step 20

Step 21

the toner hopper.

(See Photo 24)

qear. (See Photo 23)









end plate is sonically welded to the toner hopper. Insert a small, flat-blade screwdriver between the contact plate and the toner hopper. Carefully pry the contact plate away from the toner hopper. (See Photo 25)

Step 23

Carefully remove the mag roller from the toner hopper. (See Photo 26)

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HP 1160/1320/P2015 Technical Instructions







Step 24

and the mag roller bushings from the ends of the mag roller. (See Photo 27) Clean the mag roller first with compressed air or a vacuum, then use a mag roller cleaner. Clean the mag roller bushings using alcohol and a lint-free cloth.

Remove the mag roller stabilizing bar,

Step 25

Remove the two screws holding the doctor blade. (See Photo 28)

Step 26

Remove the plastic scrapers from the ends of the doctor blade and remove the blade. (See Photo 29) Clean the doctor blade using alcohol and a lint-free cloth. Empty the remaining toner from the toner hopper. Clean the toner hopper using dry, compressed air or a vacuum.

Step 27

Remove the white plastic wall that is stuck to the top of the mag roller opening using a flat-blade screwdriver or a utility knife. (See Photo 30)

Step 28

Remove the doctor blade end foams from each side of the toner hopper. (See Photo 31) Fill the hopper with toner.



Step 29

Using a small, flat-blade screwdriver, push the seal exit port plug from the end of the toner hopper. (See Photo 32) Carefully clean the seal area. Once most of the toner is removed from the seal area, clean again using a cotton swab and alcohol.



Step 30

Remove the seal liner from the back of the seal and adhere the seal to the toner hopper. Slide the tail of the seal through the seal exit port and reinstall the seal exit port plug. (See Photo 33)















Install the doctor blade end foams onto each side of the toner hopper. (See Photo 34)



Step 32

Install the clean or new doctor blade onto the hopper. Place the scrapers on each end of the doctor blade and install the two screws that hold the blade in place. (See Photo 35)



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Photo36







Photo 38



Photo 39

Photo 40



Step 33

Place the clean mag roller bushings onto the end of the mag roller. The white bushing goes on the gear end and the black bushing goes on the contact end. Install the mag roller stabilizing bar onto the gear end of the mag roller and set the mag roller into the toner hopper. (See Photo 36)

Step 34

Slide the tail of the seal through the contact end cap and place the end cap into position. Install the two screws that hold the end cap in place. (*See Photo 37*)

Step 35

Place the three gears onto the end of the cartridge. (See Photo 38)

Step 36

Install the gear housing end cap onto the end of the toner hopper. Secure the end cap with two screws. (See Photos 39)

Step 37

Join the toner hopper and waste hopper together. Install the two cartridge pins that hold the cartridge together. (See Photos 40 & 41)









Place the drum shutter onto the waste hopper so that the tension spring fits into its slot. (*See Photo 42*) Press down on each end to lock the drum shutter posts into position. (*See Photo 43*)

Test the cartridge.

A First Look at the HP LaserJet 1160/1320/P2015

In September 2004, Hewlett- Packard (HP) released two new, entry-level monochrome printers based on the same Canon print engine. The LaserJet 1160 (Q5933A), which is the base model, is a non-networking machine capable of printing 20 pages per minute at 600 x 600 dpi with HP REt and FastRes 1200 technology. The LaserJet 1160 sells for \$329.99 on HP's website.

The HP LaserJet 1320 is available in four different models. The LaserJet 1320 (Q5927A) is the base model which that sells for \$389. The networked LaserJet 1320n (Q5928A) has a list price of \$500. HP's LaserJet 1320nwwn (Q5929A) is a wireless network-ready printer that features Bluetooth technology and sells for \$450. Lastly, the LaserJet 1320tn (Q5930A), which is network ready and supports a second 250-sheet paper tray,

sells at for \$104. The whole LaserJet 1320 family prints at 22 pages per minute at 1200 x 1200 dpi.

The LaserJet 1160 and LaserJet 1320 feature a 133 MHz Motorola V4 Coldfire processor, and each machine comes standard with 16MB of RAM. Additional memory can be added to the LaserJet 1320, up to 144MB. Both printer models have instant- on fuser technology that can deliver the first page out in 8.5

seconds, which is .5 seconds slower than the LaserJet 1300.

Both the LaserJet 1160 and LaserJet 1320 series printers have a monthly duty cycle of 10,000 pages. Each machine ships with a standard yield cartridge (Q5949A) that prints 2,500 pages at 5% coverage. The standard yield cartridge sells for \$103.40. A high yield cartridge (Q5949X) is also available from HP. The high yield cartridge sells for \$189.20, yields 6,000 pages and can only be used in the LaserJet 1320 series printers.

This How To article is a first look at the new HP LaserJet 1160 and HP LaserJet 1320 cartridges. Products for this new engine are still in development, but this will give you a good look atindication of what you remanufacturers are up against.

Cross Reference:

HP LaserJet 1160 HP LaserJet 1320 HP LaserJet 1320n HP LaserJet 1320nw HP LaserJet 1320tn

Supplies Part Number:

Q5949A 2,500pgs (for both LaserJet 1160 and 1320) Q5949X 6,000pgs (only for the LaserJet 1320)

Cross Reference:

HP LaserJet P2015 Printer HP LaserJet P2015d Printer HP LaserJet P2015dn Printer HP LaserJet P2015x Printer

Supplies Part Number:

Q7553A 3000 pgs Q7553X 7000 pgs

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7