



HPP2055TECH

Technical Instructions	Printers	Cartridge Info	Tools	1
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PHOTO 1



PHOTO 2



PHOTO 3



Step 1

If the OPC drum is going to be replaced, use Drum Drive Axle Removal Tool to remove the drum drive axle (*See photo 1*). You will install it later on a new drum. To remove the drive axle, insert the C-shaped claw of the tool under the drive flange of the axle and use the lip on the drum end plate as a leverage to pry the drive axle out (*See photos 2 & 3*).

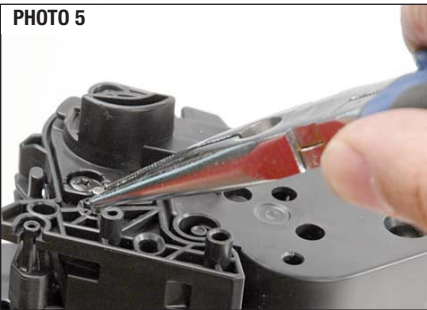
Step 2

Using a scratch awl, carefully pry the cartridge pins out of the cartridge (See photo 4). Grab the pins with needle-nose pliers and remove them (See photo 5).

PHOTO 4



PHOTO 5

**Step 2**

Separate the two sections of the cartridge (See photo 6). Set the toner hopper aside.

PHOTO 6



PHOTO 7



PHOTO 8



PHOTO 9



PHOTO 10



PHOTO 11

**Step 3**

Insert a flat screwdriver between drum contact end and waste hopper and carefully pry out the drum contact axle (See photo 7).

Step 4

Using needle-nose pliers, remove the drum contact axle (See photo 8).

Step 5

Carefully lift up on the contact end of the drum and remove the drum out of the drum end plate (See photo 9). If the drum is going to be reused, place it in a protected area away from light.

Step 6

Lift out the PCR (See photo 10). Clean the PCR using a dry lint-free cloth.

Step 7

Remove two screws holding the wiper blade (See photo 11).

PHOTO 12



Step 8

Remove the wiper blade (See photo 12). Clean the waste hopper using dry, compressed air or a vacuum.

PHOTO 13



Step 9

Apply padding powder to a new or once-used wiper blade. Place the blade onto the waste hopper and install the two screws that hold the blade in place (See photo 13).

PHOTO 14



Step 10

Clean the PCR saddles using a cotton swab. Apply new conductive grease to the black conductive saddle. Install the clean PCR (See photo 14).

PHOTO 15B



Step 11

Apply high temperature grease to the drum bearing plate (See photo 15A). Apply padding powder to the drum. Carefully slide the drum into the drum end plate (See photo 15B).

PHOTO 15A



PHOTO 17



Step 12

Install the drum contact axle (See photo 16).

Step 13

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.

Step 14

Using an X-acto knife, cut the plastic weld holding the chip in place (See photo 17). Install the new chip onto the cartridge. Set the waste hopper aside in a protected area away from light.

PHOTO 17



NOTE: If you don't plan to seal the toner unit, do not remove the contact end cap. Remove the gear housing end cap instead. Use the same procedure as in steps 16, 19, 20 to remove the gear housing end cap.

Step 15

The contact end cap on the toner hopper is sonically welded to the toner hopper. Using a utility knife, cut off the plastic welds on contact end cap (See photo 18).

PHOTO 18



Step 16

Using a 3/32-inch drill bit, drill a hole into the contact end cap where the two plastic welds hold the end cap to the toner hopper (See photo 19).

PHOTO 19

**Step 17**

To make a hole for the HP4200PIN, mark the center of the hole with scratch awl as shown on photo 20.

PHOTO 20



PHOTO 22



PHOTO 22



PHOTO 23



PHOTO 24



PHOTO 25

**Step 18**

Drill the hole with 9/64-inch drill bit (See photo 21).

NOTE: Make sure the hole is made straight through the end cap and the flange of the toner hopper. This will ensure the correct position of the end cap against the toner hopper when toner unit is assembled. Tilted end cap will cause banding.

Step 19

Insert a putty knife blade between the toner hopper and the contact end cap next to the sonic welds. Carefully pry the end cap away from the toner hopper (See photo 22).

Step 20

The alignment pin holding the contact side mag roller arm is sonically welded to the toner hopper. Insert a small, flat-blade screwdriver between the contact side mag roller arm and the toner hopper. Carefully pry the contact side mag roller arm away from the toner hopper (See photo 23). Remove the end cap.

Step 21

Remove the mag roller from the toner hopper (See photo 24). Remove the mag roller drive gear from the toner hopper (See photo 25).

PHOTO 26



Step 22

Remove the mag roller bushings from the ends of the mag roller. Clean the mag roller first with compressed air or a vacuum, then using a dry lint-free cloth. Clean the mag roller bushings using a lint-free cloth.

Step 23

Remove the two screws holding the doctor blade (See photo 26).

Step 28

Drill a hole into the toner hopper using light pressure to start the hole (See photo 31).

NOTE: Too much pressure could cause drill bit to grab and damage the hopper.

PHOTO 27



Step 24

Remove the plastic scrapers from the ends of the doctor blade and remove the blade (See photo 27). Clean the doctor blade using a lint-free cloth. Empty the remaining toner from the toner hopper. Clean the toner hopper using dry, compressed air or a vacuum.

PHOTO 31



PHOTO 28



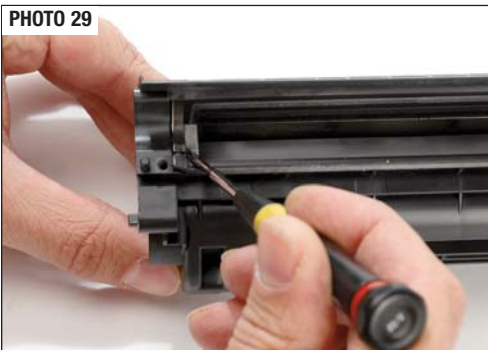
Step 25

Remove the white plastic bar that is attached to the top of the mag roller opening with a flat-blade screwdriver or a utility knife (See photo 28).

To make a toner fill hole in CE505X cartridge use the same procedure as in steps 28 and 29 to make a fill hole using 3/8-inch drill bit (See photo 32).

Alternatively, use a 3/4-inch hole saw with pilot drill bit to drill a hole into the contact side of the toner hopper:

PHOTO 29



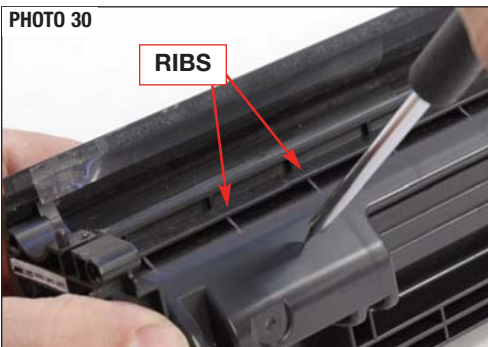
Step 26

Remove the doctor blade end foams from each side of the toner hopper (See photo 29).

PHOTO 32



PHOTO 30



Step 27

To make a toner fill hole in CE505A cartridge, use 3/8-inch drill bit. Mark the center of the hole on the flat surface of the top side of the toner hopper with a scratch awl (See photo 30). Make sure to position the hole between the ribs of the hopper.

Step 29

Mark the center of the hole on the flat surface of the contact side of the toner hopper with a scratch awl (See photo 33).

PHOTO 33

**Step 30**

Using a 3/4-inch hole saw with pilot drill bit, drill a hole applying light pressure to prevent the hole saw from grabbing and damaging the toner hopper (See photo 34).

Step 31

Clean the toner hopper using dry compressed air, making sure the hopper is void of plastic shavings.

PHOTO 34



PHOTO 35



PHOTO 36



PHOTO 37



PHOTO 38



PHOTO 39

**Step 32**

Using a small, flat-blade screwdriver, push the seal exit port plug from the end of the toner hopper (See photo 35). 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 33

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 36).

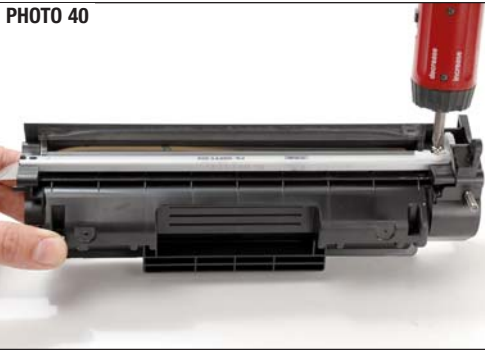
Step 34

Fill the hopper with toner. Seal the fill hole with a fill plug. Use HP1505FILLPLUG to seal a 3/8-inch hole (See photo 37) or HP2600FILLPLUG to seal a 3/4-inch hole (See photo 38).

Step 35

Install the doctor blade end foams onto each side of the toner hopper (See photo 39).

PHOTO 40



Step 36

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 40).

PHOTO 41



Step 37

Place the clean mag roller bushings onto the ends of the mag roller. The white bushing goes on the gear end and the black bushing goes on the contact end. Set the mag roller drive gear behind the mag roller arm. Slide the mag roller into the mag roller arm and into the mag roller drive gear (See photo 41). Set the mag roller into the toner hopper.

PHOTO 42



Step 38

Slide the tail of the seal through the contact end cap and place the end cap into position. Install HP4200PIN as shown on photo 42.

PHOTO 43



Step 39

Install HP2055CLIP (See photo 43 & 44). Using a hammer, carefully push the pin inside until it is flush with the end cap (See Photo 45).

PHOTO 44



PHOTO 45



Step 40

Place one probe of an Ohmmeter on the end cap contact and place the other probe into the hole on the end cap as shown on photo 46. Locate sensor contact that comes out from the toner hopper (See photo 47), making sure you have a low resistance connection.

PHOTO 46

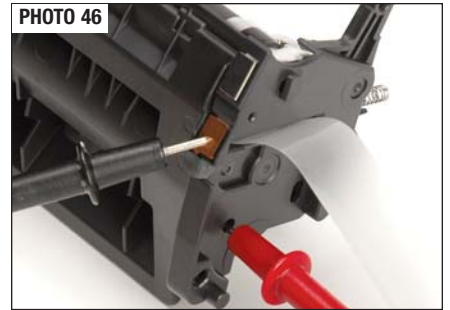


PHOTO 47



Step 41

Join the toner hopper and waste hopper together. Install the two cartridge pins that hold the cartridge together (See photo 48).

PHOTO 48

**Step 42**

Take HP2055PULLTAB and bend it as shown on Photo 49.

PHOTO 49



PHOTO 50



PHOTO 51

**Step 43**

Install HP2055PULLTAB onto the cartridge (see Photo 50). Attach seal pull strip to the adhesive tape on the pull tab (see Photo 51).

PHOTO 52

**Step 44**

Place the drum drive axle into a socket of the drum gear and position the Drum Drive Axle Removal Tool on top of the drive axle (See photo 52). Use the extended flange on the waste hopper gear end as a leverage to press the drive axle down until it snaps into its place (See photos 53 & 54).

PHOTO 53



PHOTO 54





A First Look at the HP LaserJet P2035/P2055 Series Printers



In September 2008 Hewlett-Packard released two entry-level monochrome printer series based on the same engine.

The LaserJet P2035 is available in two models. The LaserJet P2035 (CE461A) is the base model. The LaserJet P2035n (CE462A) is a network ready printer. Both are capable of printing up to 30 ppm at 600 x 600 dpi with HP RET technology.

The LaserJet P2055 is also available in two different models. The LaserJet P2055dn (CE459A) is a network ready printer and features automatic two-sided printing capability. The LaserJet P2055x (CE460A) a network ready, automatic two-sided printing capable and comes with standard 500-sheet input tray, which is optional for the LaserJet P2055dn. The LaserJet P2055 family prints up to 35 ppm at 1200 x 1200 dpi with HP RET and ProRes 1200 technology.

The LaserJet P2035 series feature 266 MHz processor and come with 16 MB of RAM. The LaserJet P2055 series come with 600 MHz processor and 128 MB of RAM, expandable up to 384 MB. Both printer series can deliver first page out as fast as 8 seconds from Ready mode.

The LaserJet P2035 series have a monthly duty cycle up to 25,000 pages. The LaserJet P2055 series have a monthly duty cycle up to 50,000 pages. The LaserJet P2035 printer ships with an introductory print cartridge that prints 1,000 pages at 5% coverage. The LaserJet P2055 printer ships with a standard print cartridge (CE505A) that prints 2,300 pages at 5% coverage. A high yield cartridge (CE505X) is also available from HP. The high yield cartridge yields 6,500 pages at 5% coverage and can only be used in the LaserJet P2055 series printers.