







Using a 3/32" drill bit, drill a small hole next to the metal cartridge pin. (See Photo 1)

Step 2

Using needle nose pliers or diagonal cutters pull the metal pin from the contact side of the cartridge. (See Photo 2)

Step 3

Using a pin removal tool, remove the plastic cartridge pin from the gear side of the cartridge. (See Photo 3)

Step 4

Remove the two cartridge springs from both sides of the cartridge.

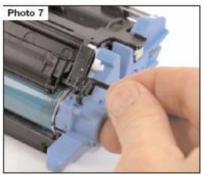
(See Photos 4 & 5)

NOTE: Keep the cartridge springs separate because they are different. The smaller spring is either marked with a black strip or a black anodized spring.





Remove the drum shutter actuator spring. (See Photo 6)



Step 6

Remove the drum shutter from the shutter hinges on both sides of the cartridge. (See Photo 7)



Remove the drum shutter from the cradles on both toner hopper end caps. (See Photo 8)



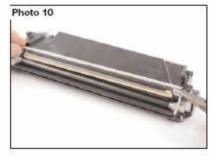
Step 7

Separate the toner hopper and waste hopper. Place the waste hopper aside out of the light. Place the toner hopper so the developer roller is facing up with the gears on the right.



Step 8

Remove the two screws holding the doctor blade. (See Photo 9)



Step 9

Carefully lift the doctor blade from the gear end of the toner hopper. (See Photo 10)

NOTE: The doctor blade is held in place by a tacky sealing material. Clean the doctor blade first using dry compressed air. Place the doctor blade into a cleaning fixture and clean the blade using a dry lint free cloth. If toner buildup is present on the blade, use a small amount of water to clean the blade.

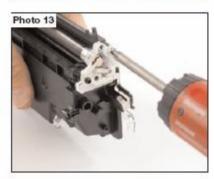


Photo 12

Step 10

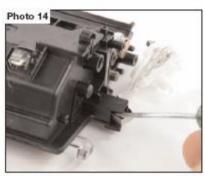
Remove the two screws holding the gear housing end cap. (See Photo 11)

Remove the end cap and the drive gears from the end of the toner hopper. (See Photo 12)



Step 11

Remove the two screws that hold the contact end cap to the toner hopper. (See Photo 13)

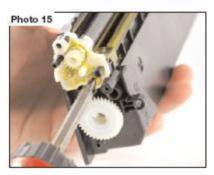


Step 12

Insert a small flat screwdriver behind the mag roller contact to release the metal tab that holds the contact in place. (See Photo 14)

Remove the contact end cap.

NOTE: Clean the contact end cap using a cotton swab and alcohol. Apply new conductive grease on the two contacts (supply and developer roller contacts).



Step 13

Remove the screw that holds the developer roller end cap to the toner hopper. (See Photo 15)
Remove the end cap.

Lift out the developer roller. (See Photo 16) Remove the white developer roller bushing from the ends of the roller. Clean the developer roller using dry compressed air and a lint free cloth.



Step 15

Remove the supply roller sealing end foams from the axle of the supply roller on each side of the toner hopper.

(See Photo 17)

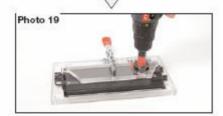


Step 16

Place the toner hopper into the toner hopper holding fixture. Push the red handle down to secure the toner hopper in the fixture. (See Photo 18)



Using the hole saw provided with the fixture begin drilling using light pressure to prevent the hole from grabbing and damaging the toner hopper. (See Photo 19)



Step 18

Lift up the red handle to release the clamp, (See Photo 20) remove the toner hopper from the fixture.



Step 19

Clean the fill hole to remove any burrs caused by the hole saw. (See Photo 21)

Step 20

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





Remove the seal exit port plug located opposite the gear side. (See Photo 22)



Step 22

Using an insertion seal, seal the toner hopper by inserting the seal through the seal exit port plug. (See Photo 23)



Step 23

Install the seal exit port plug. (See Photo 24)



Step 24

Fill the toner hopper through the hole on top of the hopper. Seal the hole using a fill plug.

(See Photo 25)



Step 25

Install the toner supply roller end foams to the axle on each side of the hopper. (See Photo 26)



Step 26

Place the developer roller end cap onto the gear side of the toner hopper. Install the screw that holds the end cap in place. (See Photo 27)

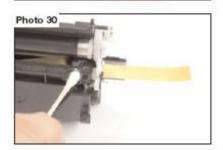


Install the developer roller bushings onto the developer roller. Slide the gear end of the developer roller through the end cap. (See Photo 28)



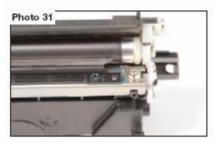
Step 28

Place the contact end cap onto the end of the toner hopper. Install the two screws that hold the end cap to the hopper. (See Photo 29)



Step 29

Using a cotton swab and alcohol clean the OEM sealant where the ends of the doctor blade sit on the toner hopper. (See Photo 30)



Step 30

Place the toner hopper back into the Toner Hopper Holding Fixture. Place the doctor blade onto the toner hopper, install the two screws that hold the doctor blade but do not tighten them. (See Photo 31)



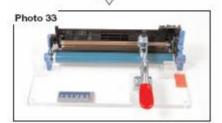
Step 31

Press down on the red handle until the clamp locks into place. Finish tightening down the doctor blade screws. (See Photo 32)

Place the waste hopper into the waste hopper holding fixture making sure the drive element is situated inside the fixture. (See Photos 33 & 34)

NOTE: Make sure the metal end stop on the fixture is located between the drum and cartridge handle.

(See Photo 35)

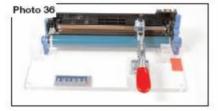






Step 33

Secure the waste hopper by pushing the red handle down until the clamp locks into place. (See Photo 36)

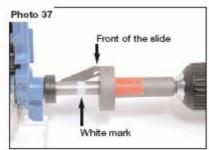


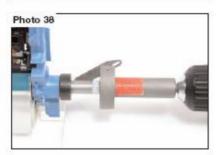
Attach the drum hub cutting bit into the drill. Wearing safety glasses, place the drill into drum bearing end cap in alignment with the drum and begin drilling using light pressure. (See Photo 36)

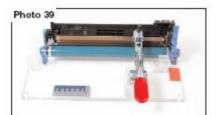
NOTE: Too much pressure could cause damage to the hopper. When the drill reaches the end, stop. Apply smooth added force until the front of the slide reaches the white mark. (See Photos 37 & 38)

Pull the drill straight out to remove.

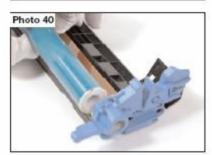








Lift up the red handle to release the clamp, (See Photo 39), remove the waste hopper from the fixture.



Step 36

Lift out the cut end of the drum. (See Photo 40) Remove the drum hub from inside the drum bearing end cap.



Step 37

Remove the PCR from the waste hopper. (See Photo 41) Clean the PCR using a dry soft cloth while rotating the drum. Make sure the PCR is totally clean.



Step 38

Remove the two screws holding the wiper blade. (See Photo 42) Lift out the wiper blade. Clean the waste hopper using dry compressed air.



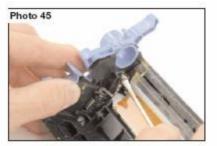
Step 39

Apply DRUMPOWDERCPT to the wiper blade, place the wiper blade onto the waste hopper. (See Photo 43)



Install the two screws that hold the wiper blade.

(See Photo 44)



Put a small amount of conductive grease onto the black contact PCR saddle. (See Photo 45)

Place the clean PCR into the saddles.



Step 41

Place the drum non-gear insert into the drum bearing end cap on the contact side of the waste hopper (the side with the black PCR saddle).

(See Photo 46)



Step 42

Apply yellow toner to the drum. Slide the drive hub end of the drum into the drum bearing end cap on the gear side of the waste hopper.

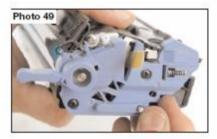
(See Photo 47)



Step 43

Push the drum non gear insert axle into the drum non gear body to lock the insert and drum body together.

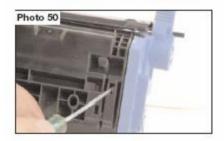
(See Photo 48)



Step 44

Align the toner hopper and waste hopper. Marry the two halves together. Insert the metal cartridge pin on the contact side of the cartridge.

(See Photo 49)



Step 45

Using a small flat screwdriver, make sure that the ground plate is flush against the housing so the plate is in contact with the PCR saddle spring.

(See Photo 50)

Insert the plastic pin into the smaller handle. If using a new waste hopper, use the plastic cartridge pin that came with the hopper.

(See Photo 51)



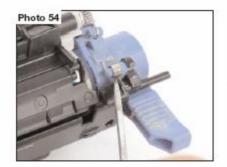
Step 47

Place the two cartridge springs on each end of the cartridge. The smaller spring, either the all black or the spring with the black mark on it, goes on the side of the cartridge with the larger handle.

(See Photos 52 & 53)





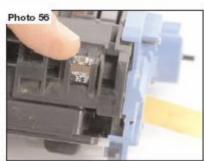


Reassemble the drum shutter and attach the shutter to the toner hopper cradle and the waste hopper hinge. Place the drum shutter spring onto the cartridge. (See Photo 54)



Step 49

Using diagonal cutters or a utility knife partially remove the top part of the plastic that locks the chip in place. Remove the chip by sliding it up and out. (See Photo 55)



Step 50

Place a new chip onto the waste hopper. (See Photo 56)