FUTURE GRAPHICS

HP2100

TECHNICAL INSTRUCTIONS

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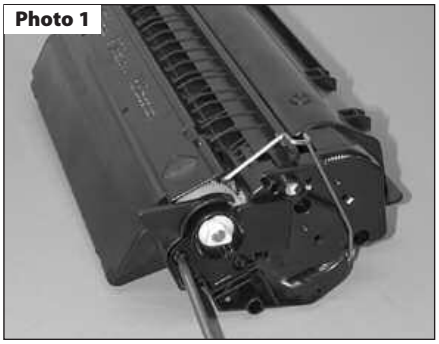
CANON PC-1060/1080f
HP2100
HP2100TN
HP2100M (Mac)

Part Number: C4096A
Gram Load: 230 gms
Yield @ 5%: 5,000 pgs
Pages/Min.: 10
Resolution: 1200dpi
OEM Cart: $89.00

Phillips Screwdriver
Small Flat Blade Screwdriver
Needlenose Pliers
Soft Lint-Free Cloth
Cotton Swabs
Anhydrous Isopropyl Alcohol

The HP2100 has a lot of similarities to the HP4000, and a few parts are interchangeable. It is based on the same development, toner and drum technology but the engines are different and should be treated as totally separate cartridges.

Photo 1

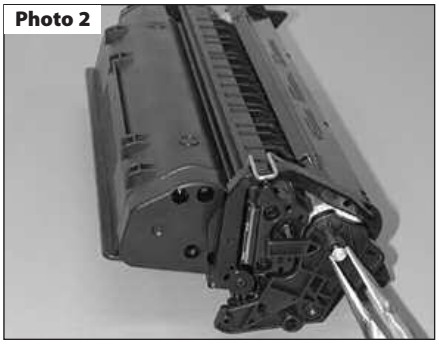


Step 1

Place the cartridge top down, drum side up, on the table with the plastic drum side plate facing you. With a #1 Phillips screwdriver, remove two screws. Pull the plastic drum side plate away.

(See Photo 1)

Photo 2



Step 2

Rotate the cartridge and remove the drum axle pin from the small gear end using needlenose pliers.

(See Photo 2)

Step 3

Place the axle pin 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. If you plan to use the drum again, wrap it in paper and place it to the side.

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 3)*

Photo 3

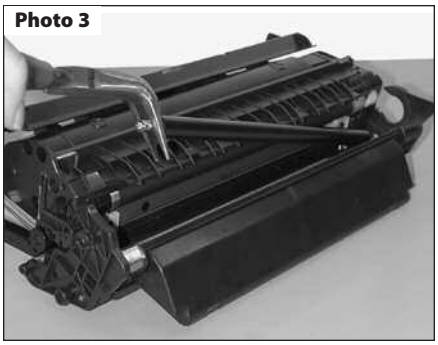


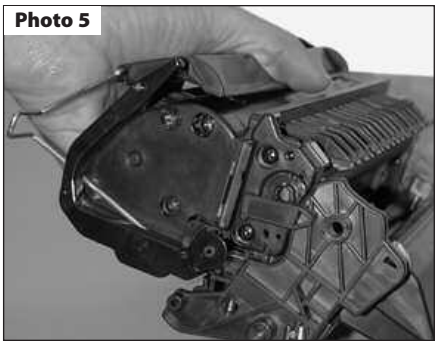
Photo 4

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 thin flat blade screw driver, press the tapered pins out as far as possible, from the inside on both ends of the cartridge.

(See Photo 4)

Photo 5



Grasp the pins from the outside and remove.

(See Photo 5)

Step 6

Set the toner hopper aside for now. Hold the waste hopper with the wiper blade facing you, and remove the two Phillips head screws holding the wiper blade. *(See Photo 6)*

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.

Step 8

Clean or replace the wiper blade and reinstall it at this time. Clean the PCR with a soft clean cloth (do not use water or solvents on this PCR, it reacts differently than those of previous PCR technology). Reinstall the PCR, place the drum in position and reinstall the axle pin and the plastic side plate. The waste hopper is now finished and can be set aside.

Photo 6

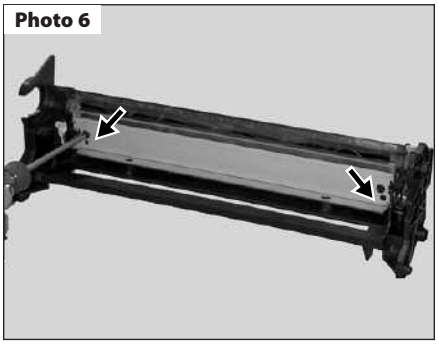
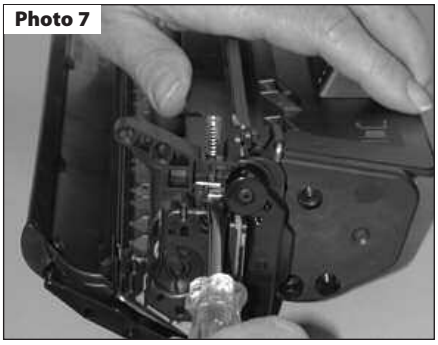


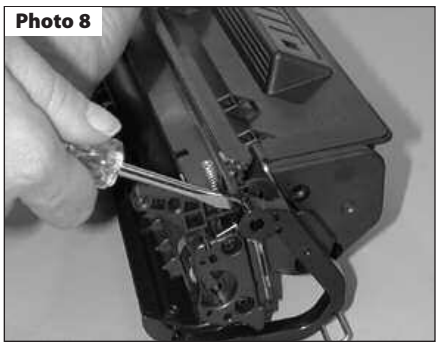
Photo 7



Step 9

Take the toner hopper and place it on the table with the mag roller side facing you. The drum cover is easily broken and attached on the left side by a wire only. On the right side it is attached by both a wire and the curved, spring-loaded plastic "drum cover arm." To remover it, lift the drum cover spring arm and latch it on the cutout of the arm. *(See Photo 8)*

Photo 8



Step 10

Next, take a flat blade screwdriver and pry the drum arm outward until it comes completely off the shaft.

(See Photo 8)

Photo 9

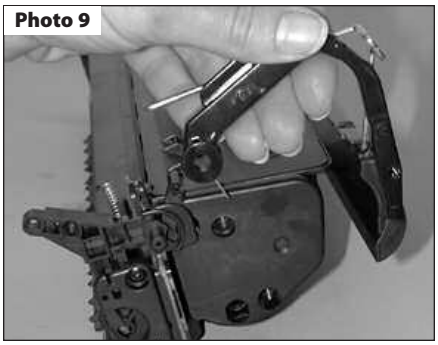
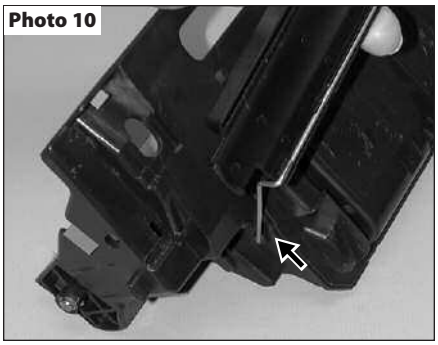


Photo 10



Step 11

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

(See Photo 9)

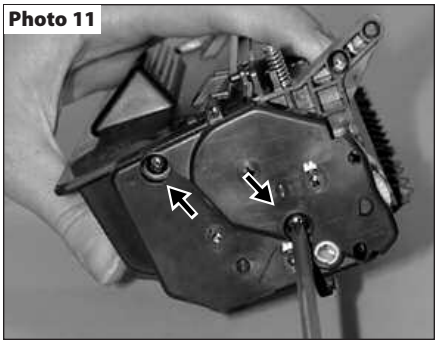
Step 12

Turn the wire back and upward until the keyed flat piece of the wire on the other side is vertical and aligned with the vertical slot on the plastic side plate, then slide it out. Do NOT force it, as it will come out easily when aligned correctly.

(See Photo 10)

You have now completely removed the drum cover (it is very easy to re-install in reverse order). Set it aside until the end.

Photo 11



Step 13

Next, use a Phillips screwdriver to remove the two screws on the left (gear) side of the toner hopper *(See Photo 11)*

Step 14

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

Photo 12

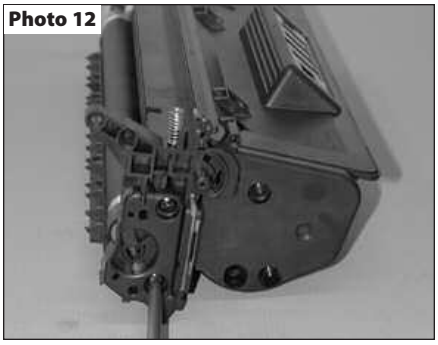
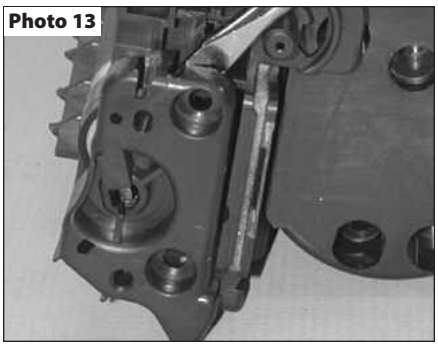


Photo 13



Step 15

Rotate the cartridge and remove the two screws on the other end.

(See Photo 12)

Press backward on the latch with a small, flat blade screwdriver and remove the side plate.

(See Photo 13)

Notes

Need help with a particular remanufacturing problem?
Call the Technical Resource Center from 8am - 5pm PST: 800 394.9900

Step 16

Using a cotton swab and alcohol, remove all conductive grease from the mag roller contact and replace with fresh conductive grease. If you remove the white plastic mag roller guide, carefully put it back in the correct position. **NOTE:** This mag roller guide will cause binding if put back on wrong.

(See Photo 14)

Photo 14

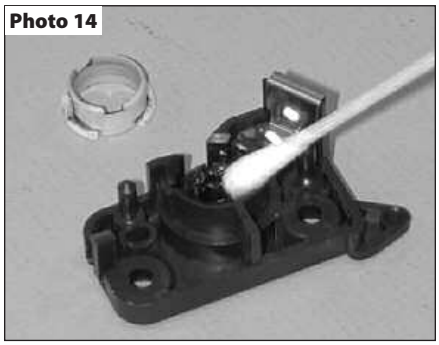
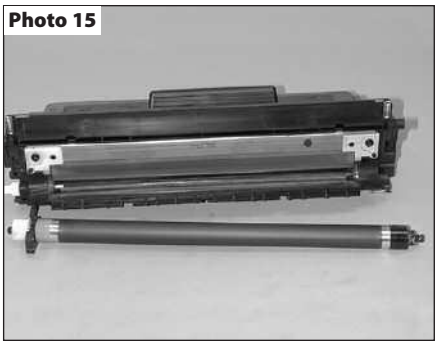


Photo 15



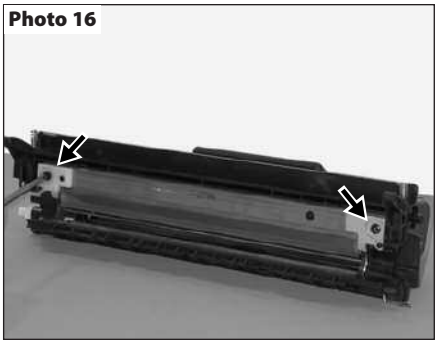
Step 17

The mag roller can now be removed.

(See Photo 15)

NOTE: Be careful no to lose the small c-shaped inner-bearing guide attached to the stabilizer arm.

Photo 16



Step 18

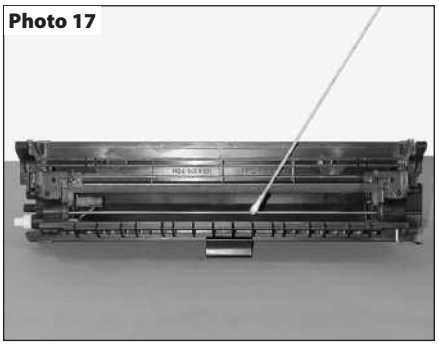
Remove the two Phillips head screws holding on the doctor blade.

(See Photo 16)

NOTE: Be careful not to lose the two clear mylar shims behind the doctor blade.

clear mylar shims

Photo 17



Step 19

Dump the remaining toner from the toner hopper and vacuum or clean with compressed air. Clean the toner sensor bar with a cotton swab and alcohol. *(See Photo 17)*

Step 20

Use a vacuum or compressed air to clean the mag roller "magnetic seals".

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.

Step 22

If you plan to split and seal the hopper, it must be done so with a splitting machine or "dremel" tool along the toner hopper weld as shown by the arrows in photo 18. *(See Photo 18)*

Step 23

After splitting the hopper and installing a gasket seal, add the toner through the fill plug hole and re-install the plug.

Use rail clips or hopper clips to reattach both pieces of the hopper back together, being careful to align them properly.

Step 24

Complete re-assembling the toner hopper, including reinstallation of the drum cover assembly. Check for toner leakage.

Step 25

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

Photo 18

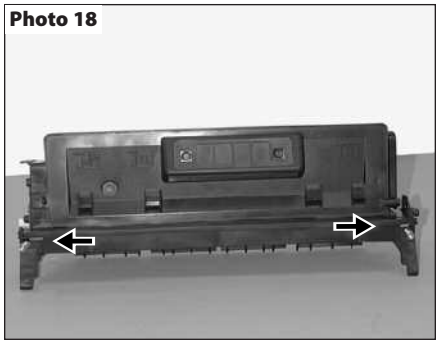
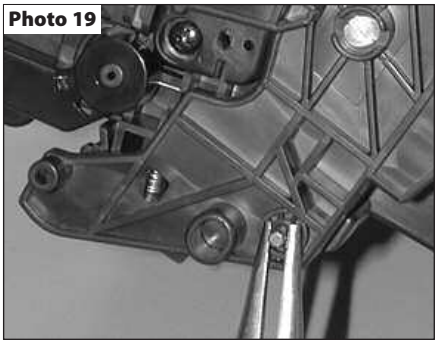


Photo 19



Step 26

Finally, join the two hoppers together. Align them and push the two pins into place.

(See Photo 19)

The cartridge is now ready for testing.