



DELL1100TECH

Technical Instructions

Cartridge Information

Tools & Supplies

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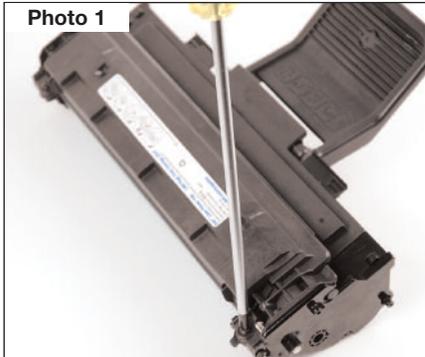
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See Last Page.

See Last Page.

Photo 1



Step 1

Having the handle of the cartridge facing you remove two Philips screws one from each side on the top of the cartridge. (Photo 1)

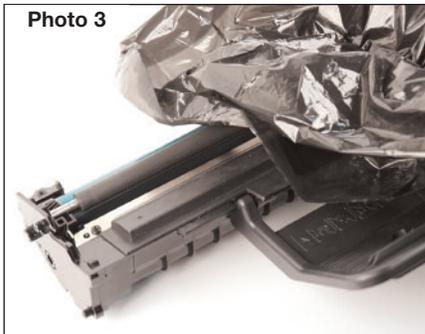
Photo 2



Step 2

Grab the top of the cartridge that has the instruction label on it with both hands. Pull the cartridge top up and back towards yourself to remove. This is the waste hopper section of the cartridge and as it is removed may leak some toner. Turn the waste hopper over and place on the table with label facing down. (Photo 2)

Photo 3



Step 3

Place the toner hopper aside and protect from light. (Photo 3)

Photo 4



Step 4

Take the waste hopper with the wiper blade facing you remove two Philips screws one from each side of the wiper blade. Lift the blade straight up from the waste hopper and visually inspect for damage. Clean the blade with compressed air and clean lint free cloth. Set blade aside. (Photo 4)

Step 5

Clean the remaining waste toner from the waste hopper using a vacuum or compressed air. Careful not to damage the retaining blade in the waste hopper, opposite the wiper blade that was removed. Inspect the retaining blade after cleaning to insure that it is straight and not damaged. (Photo 5)

Photo 5



Step 6

Taking the wiper blade that is to be installed pad the blade with padding powder. Reinstall the blade using two Philips screws one on each side of the blade. Place completed waste hopper aside.

Set the toner hopper with the long handle towards your right and remove two Philips screws that are holding the end cap in place. (Photo 6)

Photo 6



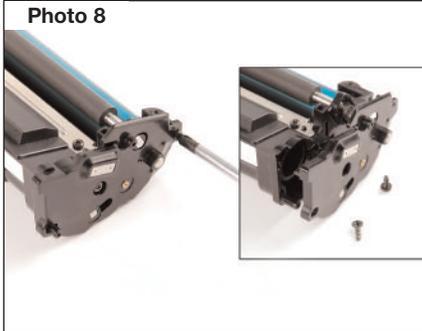
Photo 7



Step 7

Using a small flat blade screwdriver pry the end cap off carefully. The end caps contain the drum axles. (Photo 7)

Photo 8



Step 8

Rotate the cartridge so that the opposite end is facing you with the handle of the cartridge to the left. Remove two Philips screws that are holding the end cap in place. Using a small flat blade screwdriver pry the end cap off carefully. (Photo 8)

Photo 9



Step 9

Rotate the cartridge so that the handle of the cartridge is facing you. Grasp the PCR shaft and slide it towards your left to remove it from the right PCR saddle. To remove the PCR from the left PCR saddle, lift the PCR up on the right side to clear movement and move towards the right to remove the PCR. (Photo 9)

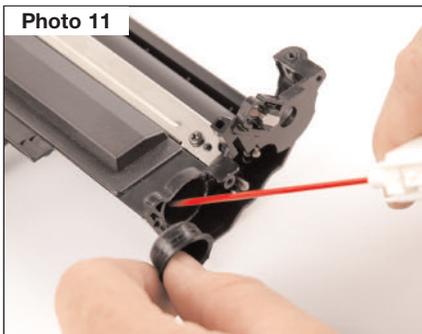
Photo 10



Step 10

Remove the drum by pushing up on the helical gear with your finger enough to grab the entire gear. Pull the drum away slightly from the opposite side and lift completely out. Set the drum aside in a protective area. (Photo 10)

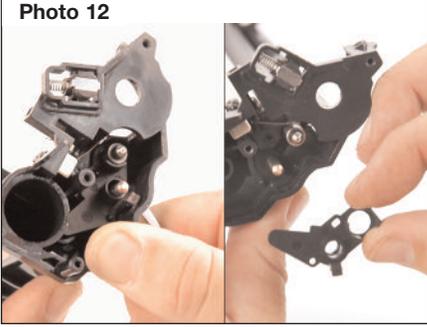
Photo 11



Step 11

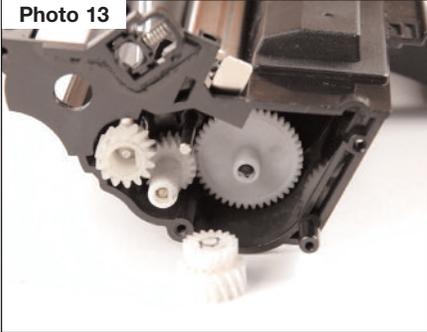
Rotate the cartridge so that the handle is facing towards your left and remove the fill plug from the end cap. Clean out all remains of toner from the inside of the toner hopper. Place the fill plug aside for later. (Photo 11)

Photo 12

**Step 12**

On the cartridge end that contains the fill plug and electrical contacts, push up the wire that contacts the developer roller shaft. Release the clip that holds the black contact support plate by pushing the tab in from the outside of the cartridge. Gently pull forward on the plate to remove. (Photo 12)

Photo 13

**Step 13**

Remove the developer roller drive gear from the developer roller using a small flat blade screwdriver to push with. The center idle gear in the gear train is loose and can fall off so take it off and place aside. The smaller helical diameter teeth face inward. (Photo 13)

Photo 14

**Step 14**

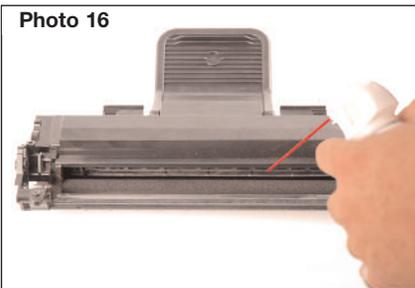
Remove the developer roller by holding the metal shaft on either end and pulling upward. (Photo 14)

Photo 15

**Step 15**

Start by placing the cartridge with the cartridge handle facing you and the handle extended outward. Remove two Philips screws one from each side of the Dr. Bar. Lift carefully from the left side up off the location pin just enough to clear it. Holding the Dr. Bar steady work towards the right and lift straight up off the locator pin and back towards you. This will allow the electrical contact wire to rest in the tab slot of the cartridge. Clean with 99% Isopropyl alcohol and a lint free cloth. (Photo 15)

Photo 16

**Step 16**

Clean the toner hopper area which includes the toner feed roller, developer roller recovery blade, sealing felts, PCR saddles and toner tank area. Be very careful not to damage these parts by using too strong of an air flow. (Photo 16)

Step 17

Place the cartridge with the cartridge handle facing you and the handle extended outward. On the right side push the electrical contact wire forward and to the right to rest just out of the way of the Dr. Bar so that you can install the blade. Install the blade by lining up the location pins on each side and coming straight down. Hold in place by inserting the two Philips screws one on each side of the Dr. Bar. Move the electrical contact wire back into position. (Photo 17)

Photo 17

**Step 18**

Holding the developer by the shaft on each side position and install the developer roller. Push down with just a little pressure to set and replace the developer roller idle and drive gear. (Photo 17)

Photo 18



Step 19

Moving to the electrical contact end of the cartridge push the electrical contact wire up out of the way and replace the black contact support plate by pushing the black contact support plate in until it latches. Bring the electrical contact wire down and in contact with the metal shaft end of the developer roller. (Photo 19)

Photo 19



Step 20

Now fill the toner into the toner hopper and replace the fill plug. (Photo 20)

Photo 20



Photo 21



Photo 22



Photo 23



Photo 24

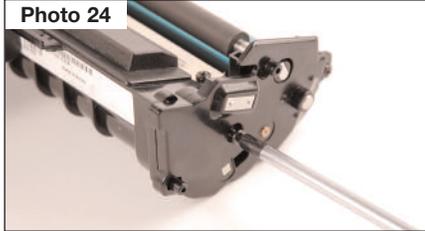
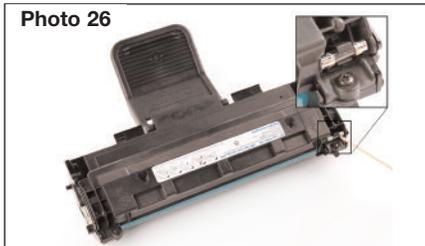


Photo 25



Photo 26



Step 21

Place the cartridge with the cartridge handle facing you and the handle extended outward. Place the drum into the cartridge with the helical gear to your right. (Photo 21)

Step 22

With the longer shaft of the PCR on your left side install the shaft into the left side PCR saddle enough so that you can clear the right side of the cartridge. Pull the right side saddle up enough so that you can push the PCR towards your right and into the saddle until it stops. Place a little conductive grease on contact of PCR saddle before installing. (Photo 22)

Step 23

Set the toner hopper with the long handle towards your right and install the end cap and the two Philips screws to hold the end cap in place. (Photo 23)

Step 24

Rotate the cartridge so that the opposite end is facing you with the handle of the cartridge to the left. Install the end cap and the two Philips screws to hold the end cap in place. Place a little conductive grease on contacts as applicable. (Photo 24)

Step 25

Place the cartridge with the cartridge handle facing you and the handle extended outward. Taking the waste hopper with the label up and embossed arrows pointing away from you place the tabs on each side into the slots and tilt forward. Hold in place using Philips screws one on each side. (Photo 25)

Step 26

Replace the fuse. The fuse is located on the right side of the cartridge with the cartridge handle facing away from you. The fuse is blown when installed into the printer to reset the counter/flag. (Photo 26)



Remanufacturing the Dell 1100 / Samsung ML-2010D3 Laser Cartridges

Tools

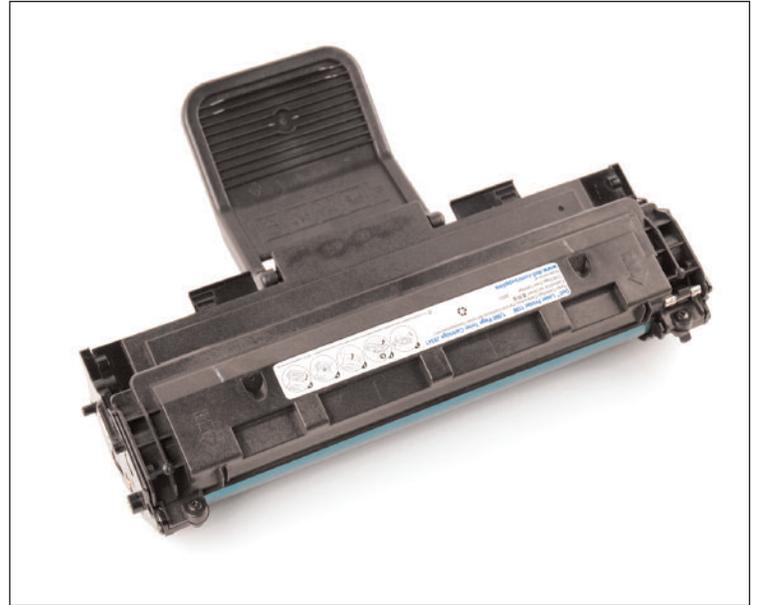
Small flat blade screwdriver
Philips screwdriver number 2
Small needle nose pliers (for fuse replacement)

Supplies

Cotton swabs
99% isopropyl Alcohol
Conductive Grease
Replacement Drum
Replacement fuse
Toner

The "Dell Laser Printer 1100" monochrome printer has a small foot print design at 11.7" x 8.54" x 14.1" and prints at a speed of 15 pages per minute. Its design and price makes it a good choice for home and small offices selling online at \$99.00. The printer when purchased from Dell also comes with 24/7 toll free technical support and one year exchange program. The printer ships with a starter cartridge rated for 1k page use and the replacement cartridge is rated at 2k pages. The Dell replacement part number is 310-6640.

Samsung ML-2010 printer is the engine design and takes the replacement cartridge ML-2010D3 rated at 3k pages.



This cartridge is the same as the Dell replacement cartridge with the exception that the key (cutout on the waste hopper is in a different location) so that you can not put this cartridge into the Dell and visa versa.