



DELL1100TECH

Technical Instructions

Cartridge Info

Tools & Supplies

1

See Last Page.

See Last Page.

CORPORATE
LOS ANGELES, USA
US 1 800 394.9900
Int'l +1 818 837.8100
FAX 1 800 394.9910
Int'l +1 818 838.7047

KANSAS CITY, USA
US 1 913 871.1700
FAX 1 913 888.0626

NEW YORK, USA
US 1 800 431.7884
Int'l +1 631 588.7300
FAX 1 800 431.8812
Int'l +1 631 588.7333

MIAMI, USA
US 1 800 595.4297
Int'l +1 305 594.3396
FAX 1 800 522.8640
Int'l +1 305 594.3309

TORONTO, CAN
CAN 1 877 848.0818
Int'l +1 905 712.9501
FAX 1 877 772.6773
Int'l +1 905 712.9502

MELBOURNE, AUS
AUS 1 800 003.100
Int'l +62 03 9561.8102
FAX 1 800 004.302
Int'l +62 03 9561-7751

SYDNEY, AUS
AUS 1 800 003.100
Int'l +62 02 9648.2630
FAX 1800 004.302
Int'l +62 02 9548.2635

BUENOS AIRES, ARG
ARG 0810 444.2656
Int'l +011 4583.5900
FAX +011 4584.3100

SÃO PAULO, BRAZIL
Int'l +55 11 5524.8000

BOGOTÁ, COLOMBIA
Int'l +57 1410.8842

CALI, COLOMBIA
Int'l +57 2661.1166

MONTERREY, MEXICO
Int'l +01 800 263.4401

JOHANNESBURG, S.A.
S.A. +27 11 974.6155
FAX +27 11 974.3593

ZHUHAI, PR CHINA
Int'l +86 756 3359608
FAX +86 756 3359681



Step 1

With the cartridge handle facing you, remove the two Philips screws from each side of the top of the cartridge (See photo 1).



Step 2

Grab the top of the cartridge with both hands. Pull the cartridge top up and back towards you to remove. This is the waste hopper section of the cartridge (Careful: may leak some toner). Turn the waste hopper over and place on the table with label facing down (See photo 2).



Step 3

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



Step 4

Take the waste hopper with the wiper blade facing you and remove the two Philips screws 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 a lint-free cloth. Set blade aside (See photo 4).

Step 5

Clean waste toner from the waste hopper using a vacuum or compressed air. Be 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 (See photo 5).

PHOTO 5

**Step 6**

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

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

PHOTO 6

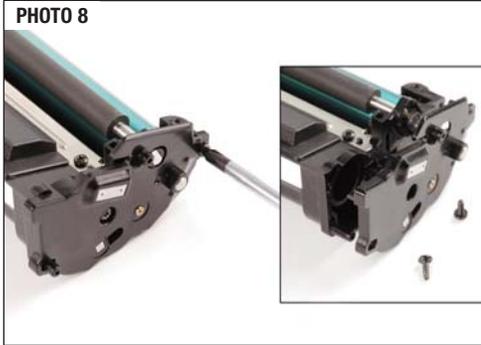


PHOTO 7

**Step 7**

Using a small flat blade screwdriver, carefully pry off the end cap. The end caps contain the drum axles (See 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 the two Philips screws that are holding the end cap in place. Using a small flat blade screwdriver, carefully pry off the end cap (See 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 (See photo 9).

PHOTO 10

**Step 10**

Remove the drum by pushing up on the helical gear with your finger 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 (See photo 10).

PHOTO 11

**Step 11**

Rotate the cartridge so that the handle is facing your left and remove the fill plug from the end cap. Clean out all remaining toner from the inside of the toner hopper. Place the fill plug aside for later (See 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 (See photo 12).

PHOTO 13



Step 13

Remove the developer roller drive gear from the developer roller, pushing with a small flat blade screwdriver. 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 (See photo 13).

PHOTO 14



Step 14

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

PHOTO 15



Step 15

Start by placing the cartridge with the cartridge handle facing you and the handle extended outward. Remove the two Philips screws 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 doctor 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 (See photos 15-17).

PHOTO 16



PHOTO 17



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 (See photo 16).

Step 17

Place the cartridge down with the cartridge handle facing you and extended outward. On the right side, push the electrical contact wire forward and to the right, allowing it to rest just out of the way of the doctor bar so that you can install the blade. Install the blade by lining up the location pins on each side and lowering straight down. Hold in place by inserting the two Philips screws on each side of the doctor bar. Move the electrical contact wire back into position (See photos 18 & 19).

PHOTO 18



PHOTO 19



Step 18

Holding the developer by the shaft on each side, position and install the developer roller. Push down with slight pressure to set and replace the developer roller idle and drive gear (See photo 20).

PHOTO 20



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 (See photo 21).

PHOTO 21

**Step 20**

Fill the toner into the toner hopper and replace the fill plug (See photo 22).

PHOTO 22



PHOTO 23



PHOTO 24



PHOTO 25



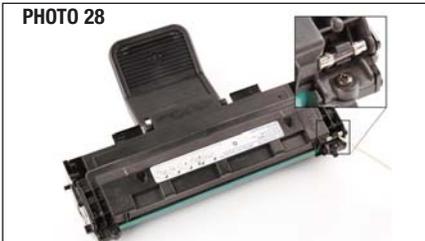
PHOTO 26



PHOTO 27



PHOTO 28

**Step 21**

Place the cartridge down with the cartridge handle facing you and extended outward. Place the drum into the cartridge with the helical gear to your right (See Photo 23).

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 (See photo 24).

Step 23

Set the toner hopper with the long handle towards your right and install the end cap (See photo 25).

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 (See photo 26).

Step 25

Place the cartridge down with the cartridge handle facing you and 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 (See photo 27).

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 (See photo 28).



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

Tools

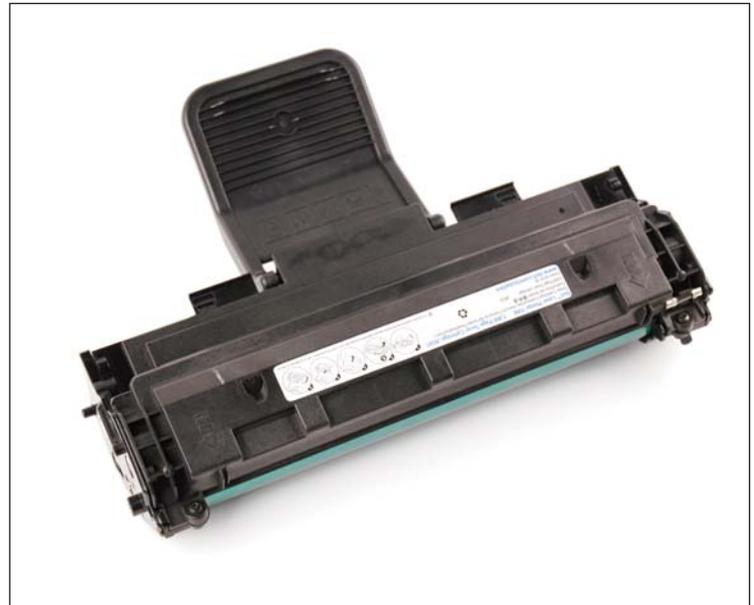
- Small flat blade screwdriver
- Philips screwdriver number 2
- Small needle nose pliers (for fuse replacement)

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.