GRAPHICS

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TECHNICAL INSTRUCTIONS

Technical Instruc	tions	Printers		OEM Info	Tools
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			Part Number Gram Load: 6 Yield @ 5%: 3 Resolution: 1	55 grams 000 pages	Small Flat Blade Screwdriv Philips Screwdriver Needle Nose Pliers
ATLANTA, USA US 1 877 676.4223 Int'l +1 770 516.9488 FAX 1 877 337.7976 Int'l +1 770 516.7794 DALLAS, USA US 1 877 499.4989 Int'l +1 972 840.4989 FAX 1 877 774.1750 Int'l +1 972 840.1750	Machine Samsung Samsung Samsung Samsung	ML-1510 ML-1710 ML-1750	Engine Samsung ML-1710 Samsung ML-1710 Samsung ML-1710 Samsung ML-1710 Samsung ML-1710	Cartridge # ML1710D3 ML1710D3 ML1710D3 SCX-4016D3 SCX-4016D3	(Flatbed multifunction) (Flatbed multifunction)
MIAMI, USA US 1 800 595.429 Int'l +1 305 594.3396 FAX 1 800 522.8640 Int'l +1 305 594.3309	Photo 1			Step 1	ove the 5 screws on the
NEW YORK, USA US 1 800 431.7884 Int'l +1 631 345.0121 FAX 1 800 431.8812 Int'l +1 631345.0690				top of the cartrid (See Photo 1)	
SANFORD,USA US 1 800 786.9049 Int'l +1 919 775.4584 FAX 1 800 786.9049 Int'l +1 919 775.4584					
TORONTO, CAN CAN 1877 848.0818 Int'l +1 905 712.9501 FAX 1877 772.6773 Int'l +1 905 712.9502 BUENOS AIRES, ARG ARG 0810 444.2656 Int'l +011 4583.5900 FAX +011 4584.3100	Photo 2			together. Using a	lips hold the cartridge a small flat blade screw- lips located on each side nandle.
MELBOURNE, AUS AUS 1 800 003. 100 Int'1 +62 03 9561.8102 FAX 1 800 004.302 Int'1 +62 03 9561-7751		-		(
SYDNEY, AUS AUS 1 800 003.100 Int'I +62 02 9648.2630 FAX 1800 004.302 Int'I +62 02 9548.2635 MONTEVIDEO, URY	Photo 3			cartridge clips o	idge 180°. Locate the 2 on the front of the car- nall flat blade screwdriv-
URY 02 902.7206 Int'1 +5982 900.8358 FAX +5982 908.3816 JOHANNESBURG, S.A. S.A. +27 11 974.6155		and designed in succession		er release the 2 c (See Photo 3)	

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Lift the top cover off the cartridge.

Locate and remove the 3 screws from the

Step 4

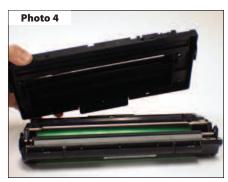
Step 5

contact end cap. (See Photo 5)

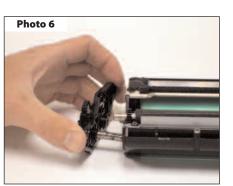
(See Photo 4)

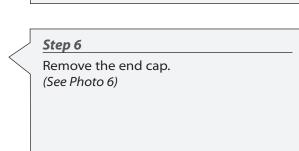


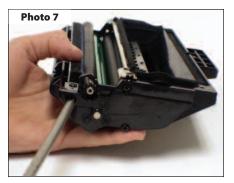
Notes

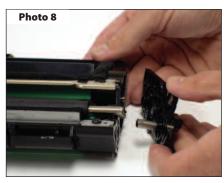


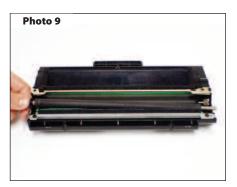












Step 7 Remove the 3 screws holding the gear housing end cap on the side of the cartridge. (See Photo 7)

Remove the end cap. (See Photo 8)

Step 8

Remove the PCR from the cartridge. (See Photo 9) Clean the PCR using a mild soap and water.

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Notes



Step 9

Remove the 2 screws holding the PCR felt brush. (*See Photo 10*) Lift out the felt brush and clean using dry compressed air.

Photo 11

Step 10

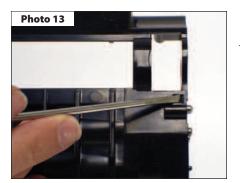
Remove the drum from the cartridge. (See Photo 11)

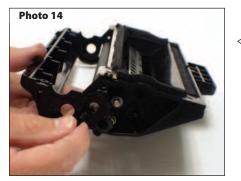
Photo 12



Step 11

Locate and make note of the gear location (See Photo 12), remove the 5 gears from the left side of the cartridge.





Step 12

To remove the developer roller, release the clip that holds the developer roller end plate to the hopper. (See Photo 13)

Step 13

Pull the Developer roller end plate from the cartridge. (See Photo 14)

NOTE: A small black washer will fall off the feed roller axle; make sure the washer is reinstalled during assembly.

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Notes

	Photo 15		Step 14
			Very carefully slide the developer roller out from the side of the cartridge. <i>(See Photo 15)</i>
	Photo 16	ſ	Step 15
		\leq	Using dry compressed air clean the cartridge thoroughly.
			Step 16
	1		Clean the doctor blade using alcohol or Acetone and a cotton swab. (See Photo 16)
	Photo 17	Г	
			Step 17
			Clean the developer roller using a dry lint free cloth. Slide the developer roller into the cartridge. (See Photo 17)
	Photo 18	Г	
			<u>Step 18</u> Install the Developer roller end plate. (See Photo 18)
	Photo 19	Г	
		$\langle \rangle$	Step 19
ical			Install the 5 gears as shown in Photo 19.

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ML 1710 Technical Instructions



Step 20

Carefully place the drum in the cartridge.

(See Photo 20)



Notes

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Step 21

Place the PCR cleaning brush assembly into the cartridge. Install the 2 screws that hold the assembly in place.

(See Photo 21)



Step 22

Slide the contact end cap onto the side of the cartridge. Install the 3 screws that hold the end cap in place.

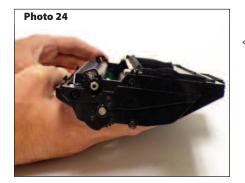
(See Photo 22)



Step 23

Install the gear end of the PCR shaft into the cartridge end cap.

(See Photo 23)

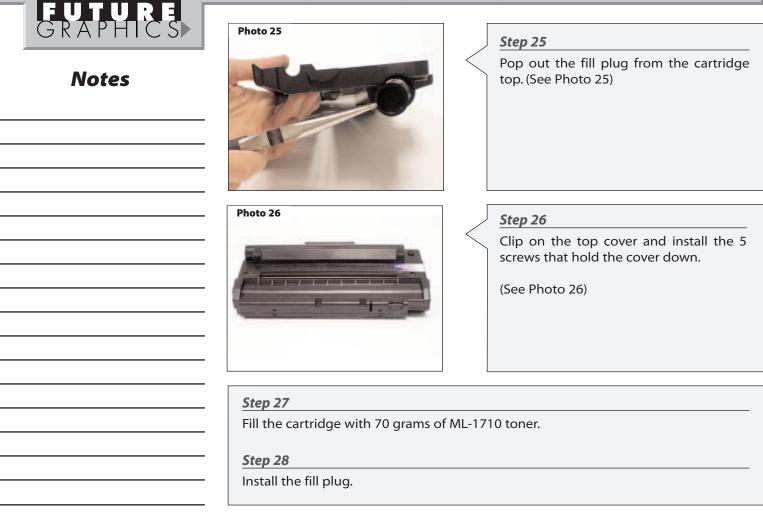


Step 24

Slide the gear housing end cap onto the side of the cartridge. Lift up on the PCR saddle allowing the shaft of the PCR to fit into the saddle. Install the 3 screws that hold the end cap in place.

(See Photo 24)

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<u>ML-1710</u>

In May 2003, Samsung released a new line of low cost printers with the introduction of the ML1510 (overseas version), ML1710, and the ML1750. Based on a print engine similar to the Lexmark E210, Samsung made a change in the cartridge design and improved the print performance. At starting price of under \$200 the new Samsung engine is capable of delivering up to 17 pages per minute at 1200x600 dpi on the ML1750 and only 600x600 dpi on the ML1710. The other difference in the two machines is in the processor. The ML1710 processor has a speed of 66Mhz and the ML1750 processor has a speed of 166Mhz.

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Samsung also released two multifunction machines based on the ML1710 print engine. The Samsung SCX-4016



ML1710

and the SCX-4216F, both machines are copiers, printers, scanners, but only the Samsung SCX-4216F is capable of faxing.

Each machine ships with a starter cartridge that prints 1,000 pages based on 5% coverage. New printer cartridges part number ML1750D3, retail for around \$75 dollars and print 3,000 pages based on



5% coverage. The multifunction cartridge part number is SCX-4016DS and uses the same cartridge as the ML1710 the only difference being the fuse located in the front of the cartridge. This fuse will have to be replaced every time the cartridge is remanufactured to reset the counter.