



E310TECH

Technical Instructions	Printers / OEM Info		Tools	1
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Xerox Work Center 390
Toner Part Num.: 113R462
Page Yield @ 5%: 3,000 pgs
Resolution: 6,000 dpi

**Xerox Docuprint
P8E/P8EX/WC385**
Toner Part Num.: 13R00296
Page Yield @ 5%: 5,000 pgs
Resolution: 1,200 dpi

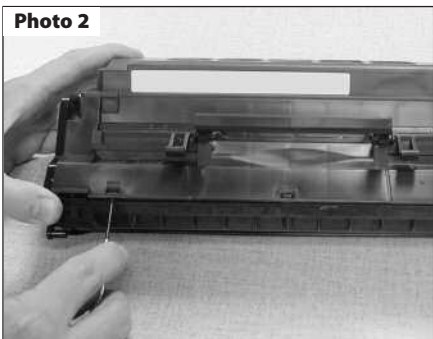
**Lexmark Optra
E310/E312/E312L**
Toner Part Num: 13T0301
Page Yield @ 5%: 3,000 pgs
Resolution: 1,200 dpi

Toner Part Num: 13T10
Page Yield @ 5%: 6,000 pgs
Resolution: 1,200 dpi

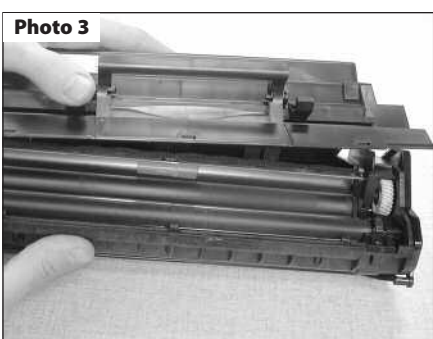
#1 Phillips Screwdriver
Small Flat Blade Screwdriver
Needlenose Pliers
Soft Lint-Free Cloth
Cotton Swabs
Anhydrous Isopropyl Alcohol
Vacuum or Compressed Air



Step 1
Using a Phillips screwdriver remove the two screws from the top of the cartridge.
(See Photo 1)



Step 2
With a small flat blade screwdriver release the three clips located on the front of the cartridge under the handle.
(See Photo 2)



Step 3
To separate the two sections, lift up on the front of the toner hopper. Be careful when separating the two sections, toner will spill out of the toner hopper.
(See Photo 3)
NOTE: Do not break off the clips on the back of the hopper.

Notes

Photo 4

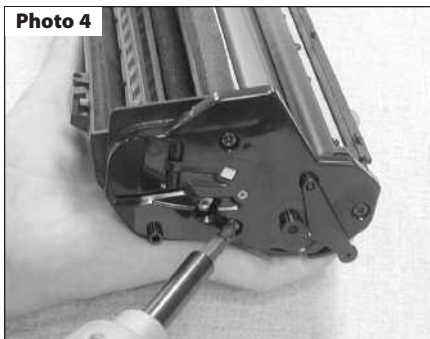


Photo 5



Photo 6

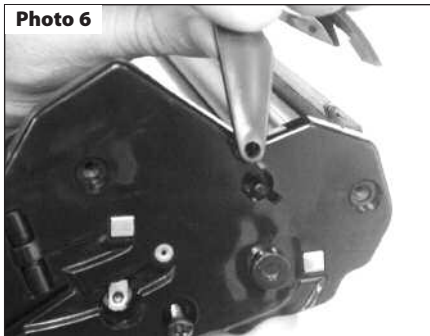


Photo 7

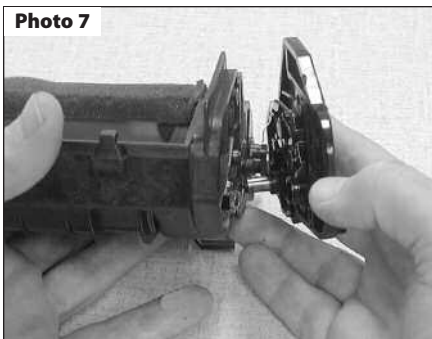


Photo 8

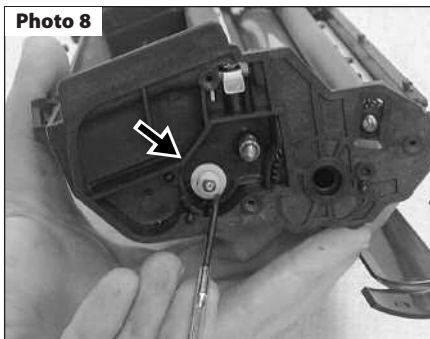
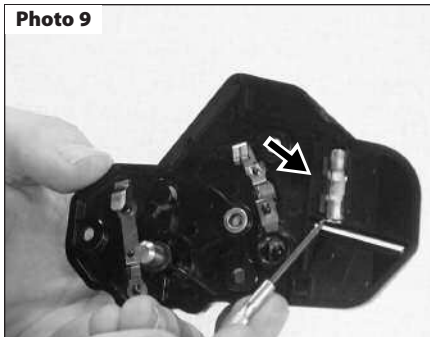


Photo 9



Step 4

Using dry compressed air or a vacuum, clean out both sections of the cartridge.

Step 5

Remove the three screws holding the end caps on each side of the cartridge.

(See Photos 4 and 5)

Step 6

Remove the drum shutter arm from the contact end cap, rotate the drum shutter up towards the handle on the cartridge until the tab on the shutter fits through the notch on the end cap. (See Photo 6)

NOTE: Let the shutter dangle; Do not remove the shutter from the other end cap.

Step 7

Pull the contact end cap from the side of the cartridge.

(See Photo 7)

NOTE: Do not lose the white bearing that fits on the foam feed roller axle

(See Photo 8)

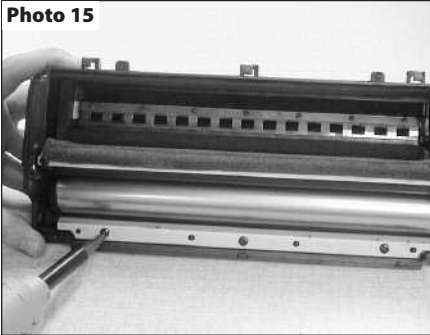
Step 8

Located ONLY on the contact end cap of the fax cartridge is a blown 100m fuse. This fuse must be replaced each time this cartridge is recycled. Replace the fuse.

(See Photo 9)

Step 14

Remove the three screws that hold the wiper blade.
 (See Photo 15)

Photo 15**Step 15**

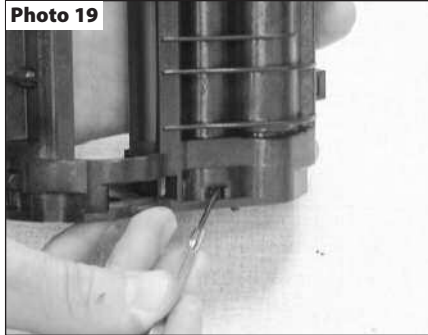
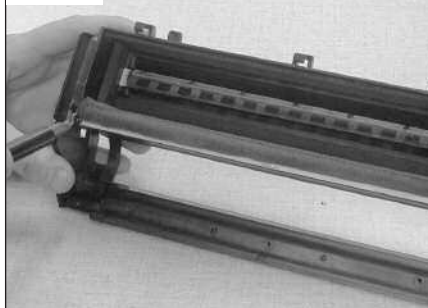
Lift out the wiper blade straight up to remove.

Step 16

Grab the drum by the gears and lift the drum out of the hopper. Clean the drum using a lint free cloth.
 (See Photo 16)

Photo 16**Step 17**

Remove the black gear from the developer roller axle.
 (See Photo 17)

Photo 18**Photo 19****Photo 20****Photo 21****Photo 17****Step 18**

Release the two clips that hold the developer roller end cap.
 (See Photo 18 and 19)
 Remove the end cap.

Step 19

Slide the developer roller out through the side of the hopper.
 (See Photo 20)
 Clean the developer roller using a dry lint-free cloth.

Step 20

Remove the two screws that hold the doctor blade.
 (See Photo 21)

Step 21

Lift the doctor blade up. It may be necessary to remove the small foam strips that are connected to the back of the doctor blade. Clean the doctor blade using alcohol and a cotton swab.

Step 22

Apply a seal to the toner hopper.

Step 23

Reassemble in reverse order.

FUTURE
GRAPHICS

Lexmark Optra E210

ENGINE FACT SHEET



PRINTER MODEL COMPATIBILITY

PRINTER MODEL

Lexmark E210
Samsung ML-1010
Samsung ML-1020M
Samsung ML-1210
Samsung ML-1220M
Samsung ML-1250
Samsung ML-1430
Samsung ML-4500
Samsung ML-4600

OEM NUMBER

10S0150
ML1210D3
ML1210D3
ML1210D3
ML1210D3
ML1210D3
ML1210D3
ML4500D3
ML4500D3

FUTURE GRAPHICS PRODUCT LISTING

Product	Description	Item Number	Pack Qty.
Drum	Sinonar	E210SNR	5/100
Technical Guide	Cartridge Remanufacturing Instructions - Lexmark E210	E210TECH	1
Toner	65gm Bottle	E210TNR65	10

FUTURE
GRAPHICS

Lexmark Optra E310

ENGINE FACT SHEET



PRINTER MODEL COMPATIBILITY

PRINTER MODEL	OEM NUMBER
Lexmark Optra E310	10S0150
Lexmark Optra E312	ML1210D3
Lexmark Optra E312L	ML1210D3
Olivetti PGL 8L	ML1210D3
Samsung ML-5000A	ML1210D3
Samsung ML-5000G	ML1210D3
Samsung ML-5050G	ML1210D3
Samsung ML-5100A	ML4500D3
Xerox Docuprint P8e	ML4500D3
Xerox Docuprint P8ex	113R296
Xerox WorkCentre 385	113R296
Xerox WorkCentre 390	113R462

FUTURE GRAPHICS PRODUCT LISTING

Product	Description	Item Number	Pack Qty.
Cartridge Box	Two-Color Self-Adhesive	ML5000LABEL	100
Cartridge Tech Guide	Remanufacturing Instructions	ML5000TECH	1
Developer Roller		ML5000DVRROL	10
Docotr Blade	Doctor Bar With Sponge	ML5000DRBLADEG	10
Cartridge Tech Guide	AEG	ML5000AEG	5/60
Drum		ML5000DRUMG	5/50
Fuse	Drum Unit Reset Fuse, Fax	ML5000FUSED	10
PCR	For Printer (Not for Fax) , New, Onyx	ML5000PCR	10
Seal	Adhesive Goldseal	ML5000GOLDSEAL	50
Seal	Adhesive Onyx, Reinforced	ML5000SEALONYXR	50
Toner	Bulk Bag, 22 lb Per-Fil - Box of 1, Sold per box	ML500010KG	1
Toner	160gm Bottle	ML5000TNR160	10
Wiper Blade		ML5000WBLADEG	10/200