FUTURE GRAPHICS

Brother DR-250

TECHNICAL INSTRUCTIONS

BRDR250TECH

Technical Instructions | **Machine Compatibility** | **OEM Info** | **Tools** | **1**

Machine Compatibility

Brother DCP-1000
Brother Fax 8070 P
Brother IntelliFAX-2800
Brother IntelliFAX-2900
Brother IntelliFAX-3800
Brother MFC-4800
Brother MFC-6800
Brother MFC-9030
Brother MFC-9070
Brother MFC-9160
Brother MFC-9180

OEM Info

Part Number: DR-250
Yield @ 20,000 pgs
Pages/Min.: 6
Resolution: 600x600 dpi

Tools

Phillips Screwdriver
Small flat blade Screwdriver

Supplies Required:
Cotton Swab
99% Alcohol
Replacement Drum

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

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

MIAMI, USA
US 1 800 595.429
Int'l +1 305 594.3396
FAX 1 800 522.8640
Int'l +1 305 594.3309

NEW YORK, USA
US 1 800 431.7884
Int'l +1 631 345.0121
FAX 1 800 431.8812
Int'l +1 631345.0690

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

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

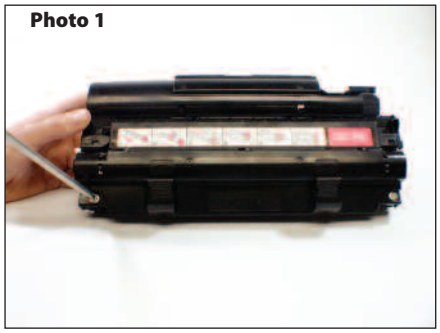
MELBOURNE, AUS
AUS 1 800 003. 100
Int'l +62 03 9561.8102
FAX 1 800 004.302
Int'l +62 03 9561-7751

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

MONTEVIDEO,URY
URY 02 902.7206
Int'l +5982 900.8358
FAX +5982 908.3816

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

Photo 1



Step 1

Remove the two Philip screws from the top of the drum unit.

(See Photo 1)

Photo 2

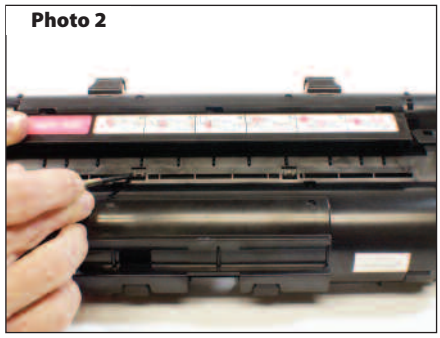


Photo 3

Step 2

Locate the two locking tabs on the top of the cartridge. *(See Photo 2)* Using a small flat blade screw driver, squeeze the legs of the two inserts together. These inserts prevent the lock tabs on the top of the cartridge from being released.
(See Photo 3) Remove the inserts.

NOTE: These inserts can go flying during the removal process, be careful not to lose the inserts as they will need to be reinstalled.

Photo 4

Step 3

Step 3: Using a small flat blade screwdriver, release the two locking clips on the back of the cartridge. *(See Photo 4)*

Photo 5

Step 4

Next to the locking tabs located on the top of the cartridge there are two slots were you can see the metal toner filling cover. Using a screwdriver push the cover down (towards the drum) till the guide tab is exposed.

(See Photo 5)

Photo 6

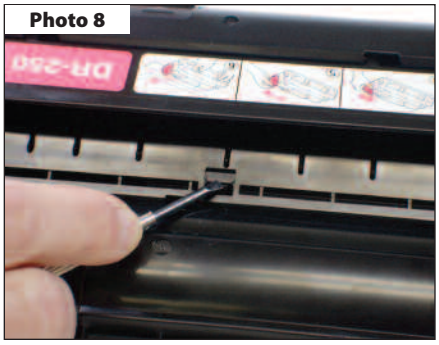
Photo 7

Step 5

Release the locking tabs on both sides of the cartridge.

(See Photo 6 & 7)

Photo 8

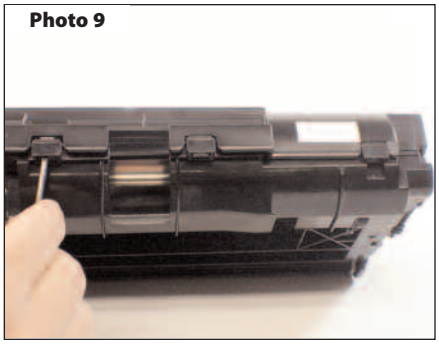


Step 6

Using a flat blade screwdriver release the two locking tabs from the top of the cartridge.

(See Photo 8)

Photo 9



Step 7

Step 7: Release the three locking tabs from the front of the cartridge.

(See Photo 9)

Photo 10

Step 8

Lift the top cover of the cartridge to separate the two sections.

(See Photo 10)

Photo 11

Step 9

Lift the transfer roller away from the drum. *(See Photo 11)* Clean the transfer roller using dry compressed air.

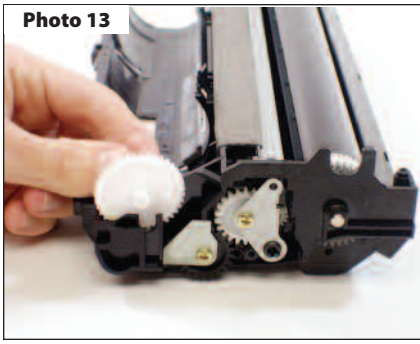
Photo 12

Step 10

Remove the white transfer roller saddle from the non-gear side of the cartridge.

(See Photo 12)

Photo 13

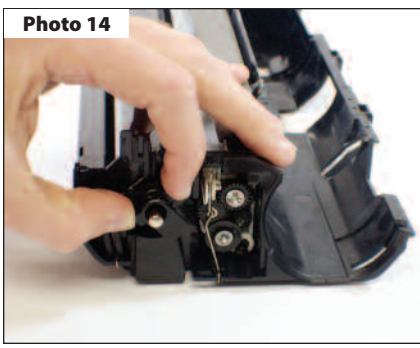


Step 11

Remove the toner agitator drive gear from the side of the cartridge.

(See Photo 13)

Photo 14



Step 12

Rotate the drum locking hub counter-clockwise and remove the hub from the drum axle.

(See Photo 14)

Notes

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

Notes

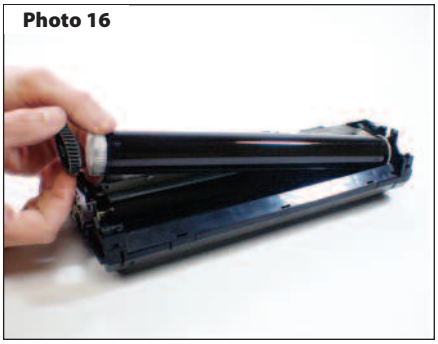
Photo 15

Step 13

Slide the drum axle out from the drum.

(See Photo 15)

Photo 16

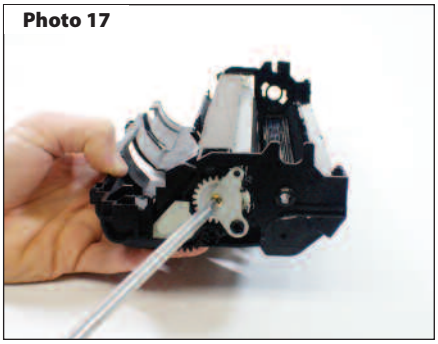


Step 14

Lift out the drum from the cartridge. Remove the gray drive gear from the end of the drum. *(See Photo 16)*

NOTE: The drive gear will need to be used with the new drum. It is important not to lose the gear.

Photo 17

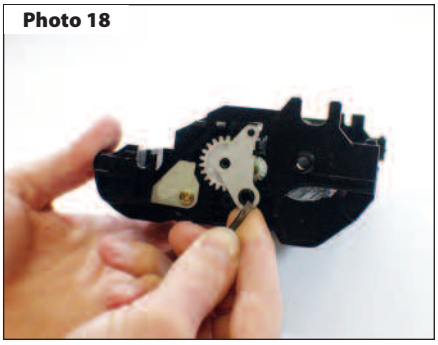


Step 15

Remove the Philips screw holding the metal gear housing end plate on the side of the cartridge.

(See Photo 17)

Photo 18



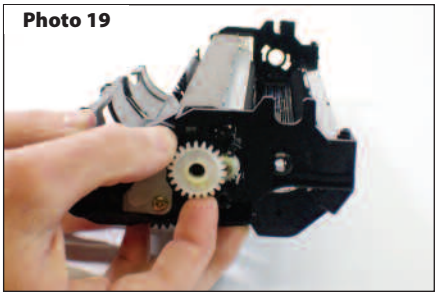
Step 16

Release the two locking tabs that hold the gear housing end plate in place.

(See Photo 18)

Remove the gear housing end plate.

Photo 19



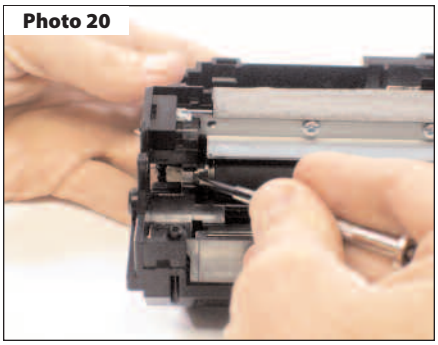
Step 17

Remove the large white gear and the developer roller drive gear from the end of the cartridge.

(See Photo 19)

FUTURE GRAPHICS

Photo 20

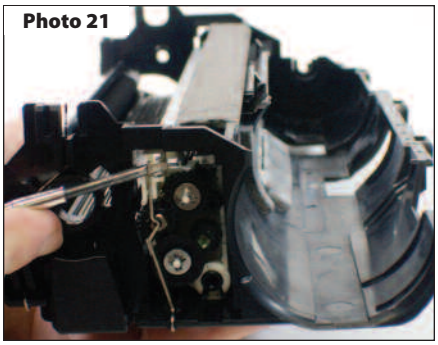


Step 18

Remove the metal developer roller bearing from the gear side of the cartridge.

(See Photo 20)

Photo 21



Step 19

Move the developer roller contact bar to the side.

(See Photo 21 & 22)

Photo 22

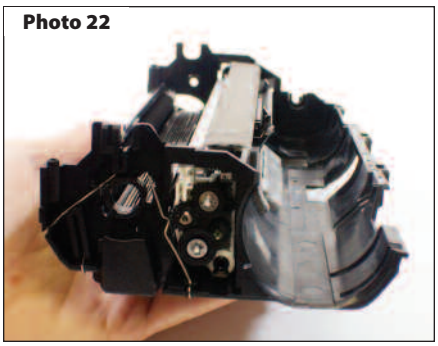


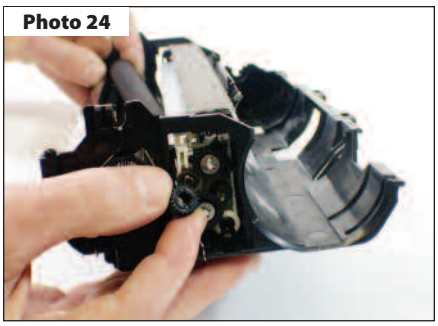
Photo 23

Step 20

Move the drive gear end of the developer roller out and slide the roller away from the contact end.

(See Photo 23)

Photo 24



Step 21

Remove the gear and the metal developer roller bearing from the contact side of the roller.

(See Photo 24)

Notes

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Call the Technical Resource Center from 8am - 5pm PST: 800 394.9900

Notes

Photo 25

Step 22

Carefully remove the developer roller.

(See Photo 25)

Clean the cartridge using dry compressed air or a vacuum.

Photo 26

Step 23

Remove the bearing and spring from the end of the developer roller. *(See Photo 26)* Clean the roller using a dry lint free cloth. **NOTE:** Visually inspect the developer rollers. These rollers usually have a lot of wear and maybe unusable for a second cycle.

Photo 27

Step 24

Clean the doctor blade using a cotton swab and Acetone.

(See Photo 27)

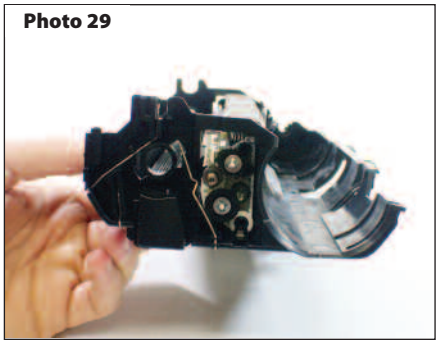
Photo 28

Step 25

Place the spring and bearing onto the developer roller. Install the developer roller back into the cartridge.

(See Photo 28)

Photo 29



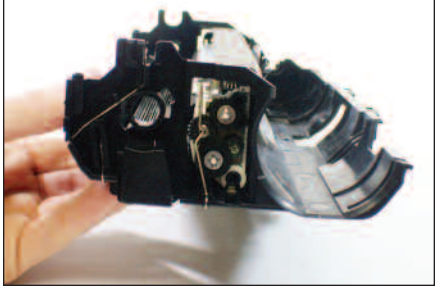
Step 26

Install the developer roller bearing that's has the smaller ID and the small gear onto the roller axle on the contact side.

(See Photo 29)

FUTURE GRAPHICS

Photo 30

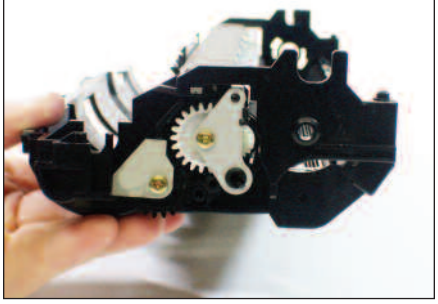


Step 27

Pull the drive gear end of the developer roller out of the cartridge again. Install the contact end gear onto the developer roller axle. Place the contact bar back onto the developer roller.

(See Photo 30)

Photo 31



Step 28

Install the developer roller bearing, drive gear and the large white gear onto the end of the cartridge. Place the metal gear housing end plate onto the cartridge and install the screw that holds the end plate in place.

(See Photo 31)

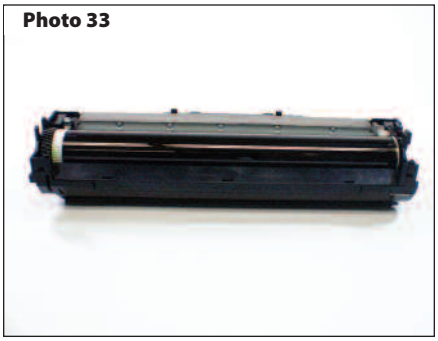
Photo 32

Step 29

Clean the corona wire using a cotton swab and alcohol.

(See Photo 32)

Photo 33

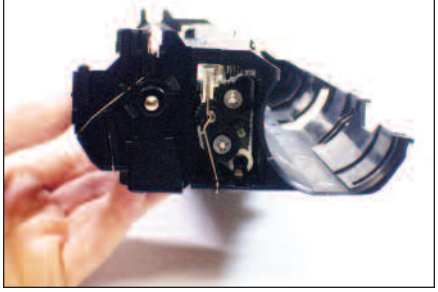


Step 30

Place the drive gear onto the drum and install the drum into the cartridge.

(See Photo 33)

Photo 34



Step 31

Slide the drum axle through the drum starting on the contact side. Install the drum axle locking hub onto the drum axle. Rotate the hub clock-wise to lock the hub in position.

(See Photo 34)

Notes

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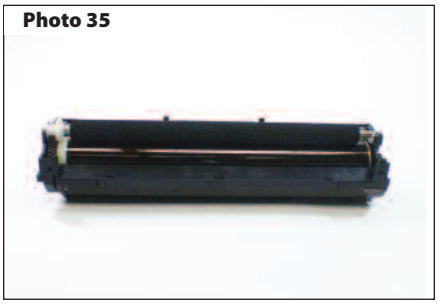
Photo 35

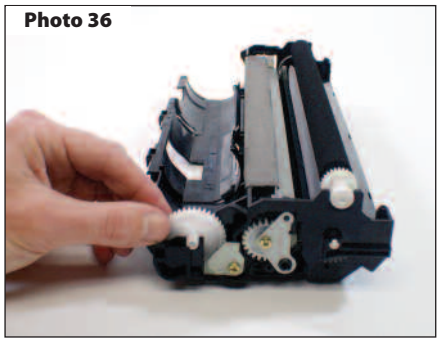


Step 32

Install the white transfer roller saddle onto the contact side of the cartridge. Place the transfer roller into position, atop of the drum.

(See Photo 35)

Photo 36



Step 33

Place the toner agitator gear onto the cartridge.

(See Photo 36)

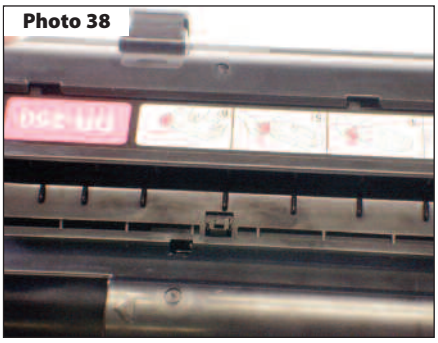
Photo 37

Step 34

Place the top of the section of the cartridge onto the bottom. Press down till the top of the cartridge snaps into place. Install the two screws that hold the lid in place.

(See Photo 37)

Photo 38



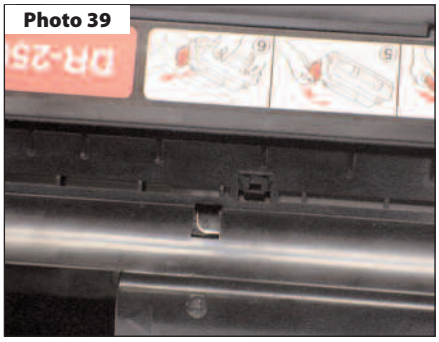
Step 35

Install the two inserts into the two locking taps on top of the cartridge.

(See Photo 38)

NOTE: The two legs on the inserts will face up away from the locking tabs.

Photo 39



Step 36

Slide the toner fill cover plate up so the top of the plate covers the guide tads on the top section of the cartridge. *(See Photo 39)*

Step 37

Insert toner cartridge and test.

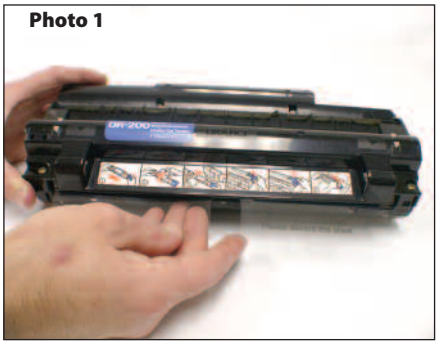
RESETTING THE DRUM COUNTER

Step 1

Install the jagged end of the clear reset sheet into the cartridge between the drum and transfer roller.

(See Photo 1)

Photo 1



Step 2

Rotate the drum so the reset sheet is fed into the cartridge and the end of the sheet is flush with the end of the cartridge with the jagged end of the sheet sticking out the top of the cartridge. *(See Photo 2)*

NOTE: Once the sheet is fed through the printer, the machine will reset the drum counter.

Photo 2

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Remanufacturing the Brother DR-250

This new family of multifunction machines was released to replace the now discontinued Brother HL 720. Like the HL720, these of machines use separate drum and toner units. Similar looking in appearance to the DR200, the new DR-250 uses different drum gears and employs molding differences in the cartridge prevents the cartridges from being interchangeable.

However, the same problems that haunt the DR-200 also plague the DR-250. Streaking caused by worn developer rollers is a common problem with these drum units. Careful visual inspection of the developer roller is important to producing a quality product.

As with most new releases, an improvement to the engines performance was accomplished by increasing the printers speed to 10 pages per minute while maintaining the same 600 x 600dpi print resolution.

DR-250