



HP1012TECH

Technical Instructions	Supplies	Tools	1
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**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 +1 678 919.1189
FAX 1 877 337.7976
Int'l +1 770 516.7794

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 +52 55 5333.9800

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

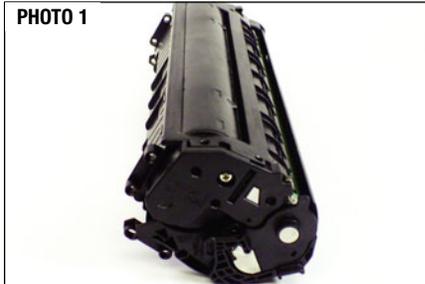
Padding Powder
Soft Lint Free Cloth
Swabs
Toner
BR1240FILLCAP (if the cartridge has no fill plug)

Cartridge pin installation Tool
Long Thin Needle Nose Pliers
Phillips Screwdriver

Small Flat Blade Screwdriver
Diagonal cutters
Bent Extraction Tool

If the cartridge has no fill plug you'll need additional tools:
Hole Saw, diameter 7/8", with Arbor
Shaft Collar, Inside Diameter 7/8", set screw type
Drill

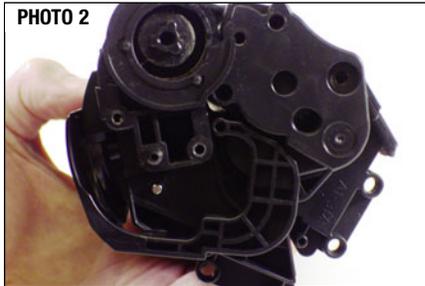
PHOTO 1



Step 1

Place the cartridge on the workbench so the drum shutter is facing up and the drum axle pin is towards you (See photo 1).

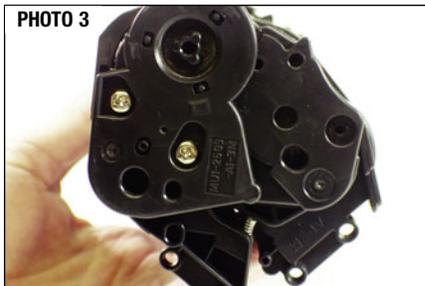
PHOTO 2



Step 2

Holding the drum shutter open, use a spring hook to remove the tension spring located next to the non gear side of the drum (See photo 2).

PHOTO 3



Step 3

Using a Phillips screwdriver remove the two screws holding the drum bearing hub to the cartridge (See photo 3). Remove the hub, left side.

PHOTO 4



Step 4

Holding the drum shutter open, lift the drive gear end of the drum away from the cartridge. Rotate the drum counter clock-wise while pulling the drum off the contact axle on the opposite side of the cartridge (See photo 4).



Step 5

Using needle nose pliers remove the PCR from the cartridge (See photo 5). Clean the PCR using a mild soap and water.



PHOTO 6



Step 6

With a bent extraction tool push the cartridge pin out from the inside of the cartridge (See photo 6).

PHOTO 7



Step 7

Using diagonal cutters pull the cartridge pins out from the both sides of the cartridge (See photos 7 & 8).

PHOTO 8

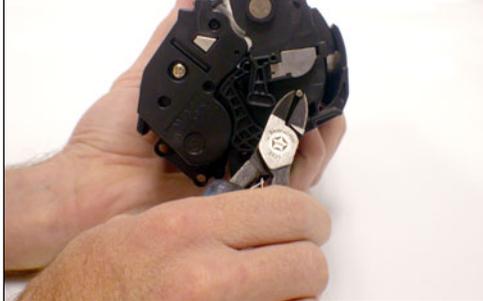


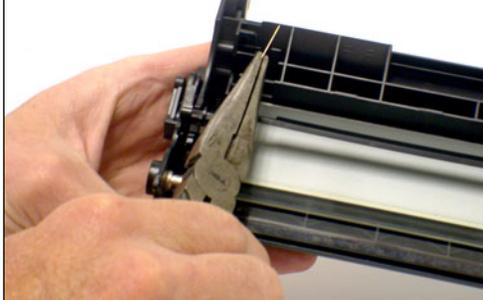
PHOTO 9



Step 8

Separate the two sections of the cartridge (See photo 9). Set the toner hopper aside.

PHOTO 10



Step 9

Remove the drum shutter tension spring (See photo 10).

Notes

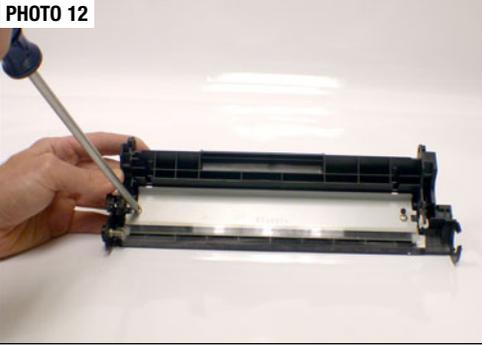
PHOTO 11



Step 10

Slide the drum shutter open and lift the shutter from its cradles (See photo 11).

PHOTO 12



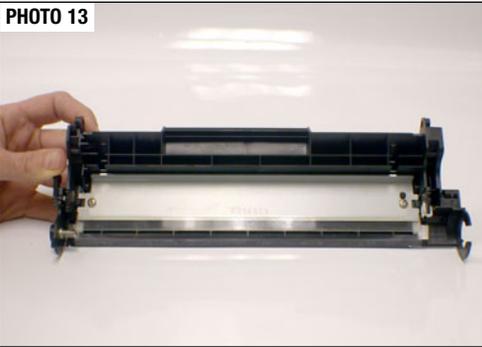
Step 11

Using a Philips screwdriver remove the two screws holding the wiper blade (See photo 12). Remove the wiper blade.

Step 12

Clean the waste hopper using dry compressed air or a vacuum. Clean the PCR saddle contact with alcohol and a swab.

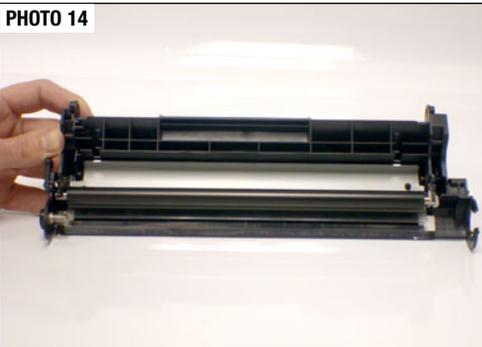
PHOTO 13



Step 13

Apply padding powder to the used or new wiper blade. Install the blade onto the waste hopper and install the two screws that hold the blade in place (See photo 13).

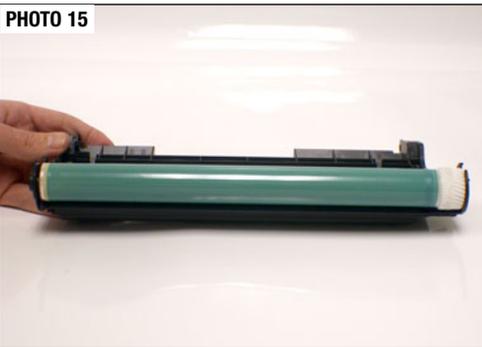
PHOTO 14



Step 14

Apply conductive grease to the PCR contact (black) saddle. Install the cleaned PCR into the saddles (See photo 14).

PHOTO 15



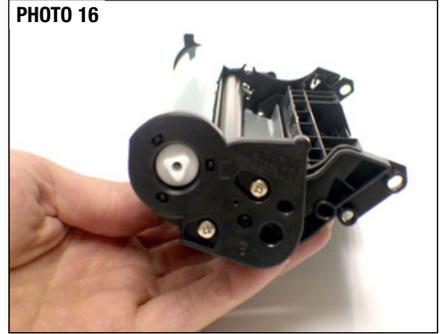
Step 15

Apply padding powder to the drum. While rotating the drum counter clock-wise, slide the drum onto the contact axle (See photo 15).

Step 16

Install the drum bearing hub onto the side of the cartridge. Install the two screws that hold the hub in place (See photo 16).

PHOTO 16



Step 17

Slide the drum shutter over the waste hopper and place the shutter into its cradles (See photo 17).

PHOTO 17



Step 18

Reinstall the tension spring onto the drum shutter (See photo 18).

PHOTO 18

**Step 19**

Set the waste hopper aside in a protected area

Step 20

Remove the screw holding the gear end cap to the toner hopper (See photo 19). Remove the end cap.

PHOTO 19

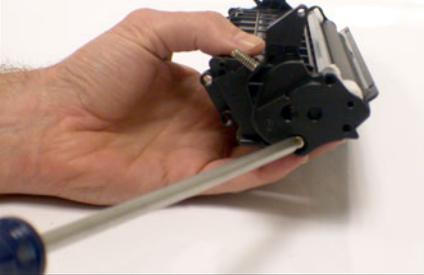


PHOTO 20

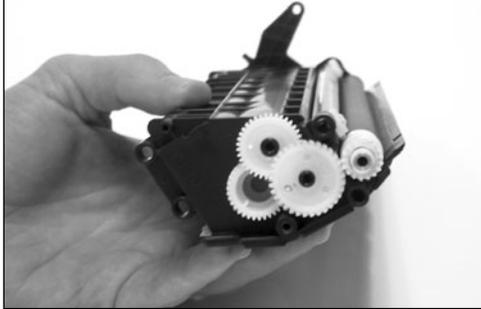


PHOTO 21

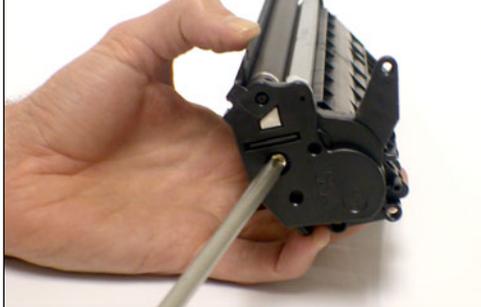


PHOTO 22



PHOTO 23



PHOTO 24

**Step 21**

Remove the three gears from the side of the toner hopper, leaving the toner hopper agitator gear (See photo 20).

Step 22

Rotate the cartridge 180°. Remove the screw holding the contact end cap to the toner hopper (See photo 21). Remove the end cap.

Step 23

Lift out the mag roller. Remove the mag roller bushings from the ends of the roller (See photo 22).

Step 24

Clean the mag roller first using dry compressed air or a vacuum. Then clean the roller using a lint free cloth and a mag roller cleaner.

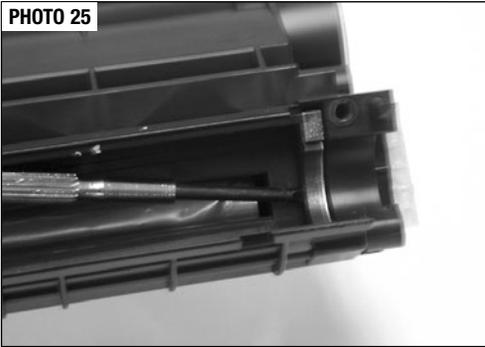
Step 25

Remove the two screws holding the doctor blade to the toner hopper (See photo 23). Remove the white scraper from the end of the blade, and remove the doctor blade. Clean the doctor blade using a lint free cloth and DI water.

Step 26

Remove the doctor blade sealing end foams from both sides of the toner hopper (See photo 24).

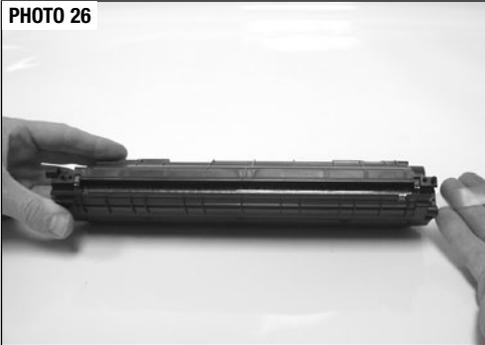
PHOTO 25



Step 27

Using a small flat blade screwdriver push the seal exit port plug out from the hopper (See photo 25).

PHOTO 26



Step 28

Clean the seal area using a swab and alcohol.

Step 29

Remove the backing of the seal and install the seal onto the toner hopper (See photo 26).

PHOTO 27



Step 30

Slide the tail of the seal through the seal exit port and install the plug in the end of the hopper (See photo 27).

PHOTO 28

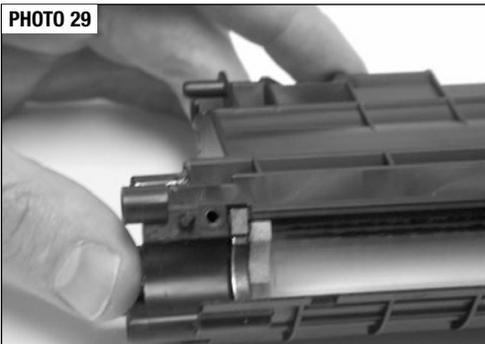


Step 31

Remove the fill plug. Fill the toner hopper with toner (See photo 28). Reinstall the fill plug.

NOTE: If the cartridge has no fill plug, please see Appendix A.

PHOTO 29



Step 32

Install new doctor blade sealing end foams on both ends of the hopper (See photo 29).

Step 33

Install a new or a clean used doctor blade onto the hopper. Install the two white scrapers on the end of the doctor blade and install the two screws that hold the blade in place (See photo 30).

PHOTO 30



Step 34

Place the mag roller bushing on the ends of the mag roller, the white bearing goes on the gear side and the black bearing goes on the contact side of the mag roller (See photo 31).

PHOTO 31



Step 35

Install the mag roller onto the toner hopper. Place the contact end cap onto the side of the cartridge and install the screw that holds the end cap in place.

NOTE: Make sure the magnet sits correctly inside the contact end cap (See photo 32).

PHOTO 32

**Step 36**

Install the three gears on the end of the toner hopper (See photo 33).

PHOTO 33

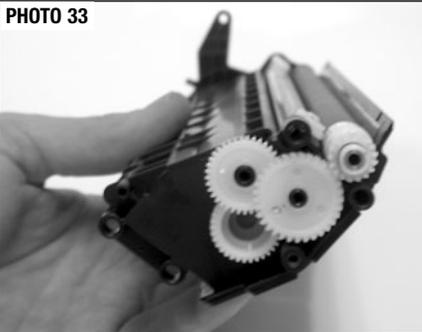


PHOTO 34

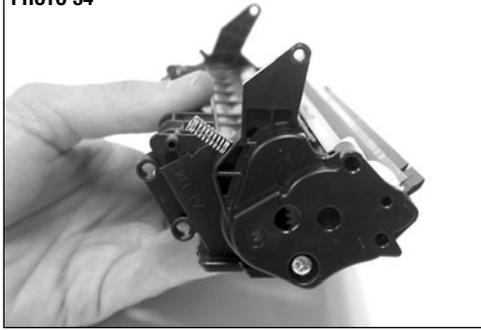


PHOTO 35



PHOTO 36

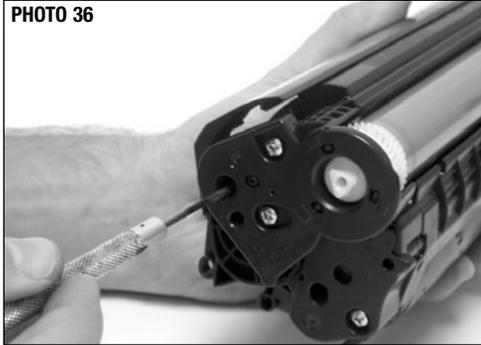


PHOTO 37

**Step 37**

Place the toner hopper gear end cap on to the toner hopper install the screw that holds the end cap in place.

NOTE: The mag roller drive gear must sit correctly inside the end cap (See photo 34).

Step 38

Apply a small bead of toner to the mag roller. Rotate the mag roller 4-5 revolutions.

Step 39

Join the toner hopper and waste hopper together. Carefully slide the drum shutter open, install the cartridge pin on the contact side of the cartridge (See photo 35).

Step 40

Using long thin needle nose pliers or a cartridge pin installation tool, install the cartridge pin through the drum axle hub on the gear side of the cartridge (See photo 36).

Step 41

Install the cartridge tension spring next to the drum contact hub (See photo 37).

Step 42

Test cartridge.



In September 2003, HP released a new entry level laser printer, the HP1012. Based on a new Canon engine the HP1012 provides a few improvements over the discontinued HP1000. The biggest improvement being that the HP1012 can print at 15 pages per minute, an increase of 5 pages per minute compared to the HP1000. Like the HP1000, the HP1012 prints at a resolution of 600x600 dpi but also can support 1200 dpi using the HP FastRes 1200 technology. Targeted at small business users and home offices, the HP1012 has a starting price of just under \$200.

The machine uses a new all in one toner cartridge (Q2612A) that holds 110 grams of toner and yields 2,000 pages at 5% coverage. At a price of \$69 the HP1012 cartridge holds less toner, prints less pages, and costs more than the HP1000 cartridge.



Q2612A



HP1012

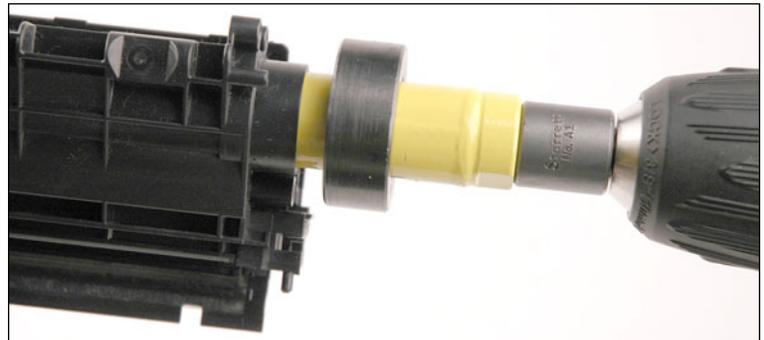
Appendix A:

New style HP1012 cartridges do not have a toner entry port or a fill plug. Use a 7/8" Hole Saw to make a hole on the left (contact) side of the toner hopper, where the toner entry port has been located on the old style cartridges.

Install set screw type Shaft Collar on the Hole Saw (Photo A). The distance between the working edge of the saw and the low edge of the collar should be 13 mm, to limit the drilling depth and prevent agitator damage.



Drill a hole through the molded plastic funnel, where the toner entry port has been located on the old style cartridges (Photo B).



Clean the toner hopper with vacuum or compressed air.

Fill the toner hopper with toner. Install BR1240FILLCAP (Photo C).



Go to the Step 32 of the Technical Instructions.