



HP2500/HP1500TECH

Technical Instructions

Supplies

Tools

1

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Toner
Seal
Cotton Swab

Lint Free cloth
99% Isopropyl Alcohol

#2 Philips Screwdriver
#0 Philips Screwdriver
Small Flat Blade Screwdriver
X-acto Knife
Silicon

Photo 1



Step 1

Place the cartridge on the work bench so the toner hopper contact end plate is facing you. (See Photo 1)

Photo 2



Step 2

Using a #2 Philips screwdriver, remove the two black screws from the end plate. (See Photo 2)
NOTE: The screw located just below the developer roller is longer than the other screws on the cartridge. Make sure the correct screw is used when reassembling the cartridge.

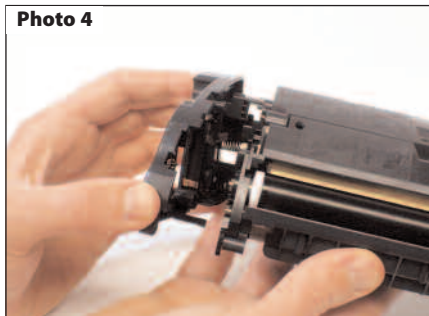
Photo 3



Step 3

Using a #0 Philips screwdriver remove the small silver screw from the contact end plate. (See Photo 3)

Photo 4



Step 4

Slide the contact end plate away from the cartridge. (See Photo 4)

Notes

Photo 5

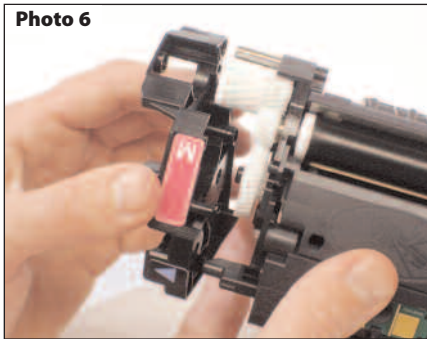


Step 5

Rotate the cartridge 180°, and remove the two screws holding the gear housing end cap to the toner hopper. (See Photo 5)

NOTE: The screw located below the drive gear is a fine threaded screw and must be reinstalled in the correct location.

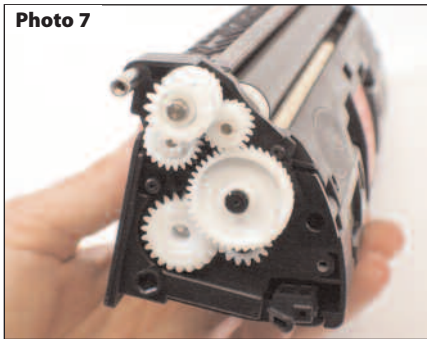
Photo 6



Step 6

Slide the gear housing end cap from the toner hopper. (See Photo 6)

Photo 7



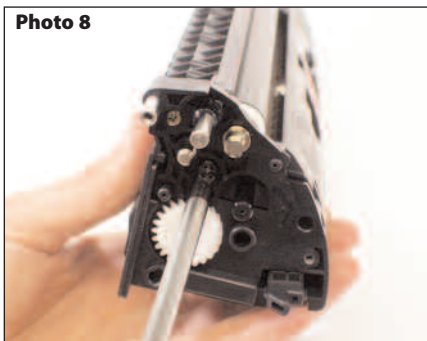
Step 7

Remove the 5 gears from the end of the cartridge leaving the toner hopper agitator drive gear. (See Photo 7)

Photo 9



Photo 8



Step 8

The developer roller end plate is held in place by 2 screws. (See Photo 8) Using a #2 Philips screwdriver remove the large screw. Then using a #0 Philips screwdriver remove the small silver screw. (See Photo 9)

Photo 11

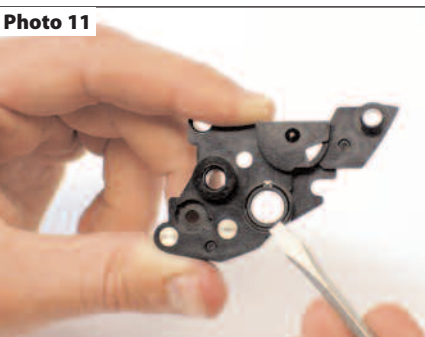
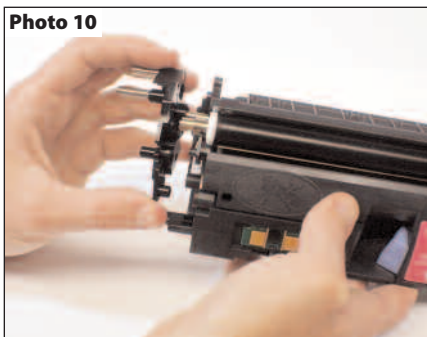


Photo 10

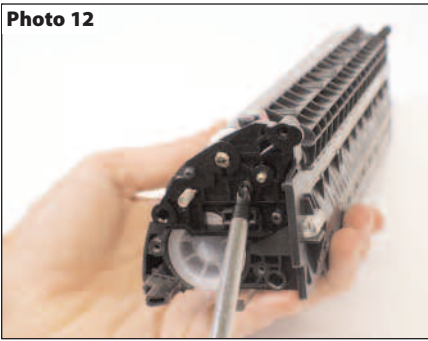


Step 9

Slide the developer roller end plate from the side of the cartridge. (See Photo 10)

NOTE: Do not lose the round bearing that sits inside the developer roller end plate. (See Photo 11)

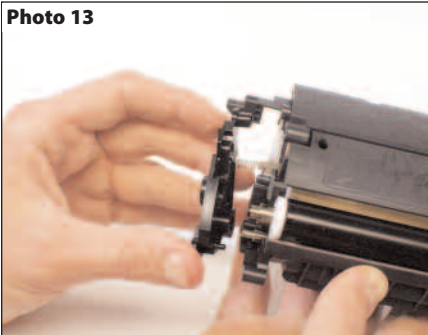
Photo 12



Step 10

Rotate the cartridge 180°. Remove the screw holding the developer roller end plate to the hopper. (See Photo 12)

Photo 13



Step 11

Remove the end plate while holding the developer roller. (See Photo 13)

NOTE: Do not lose the round bearing that sits inside the end plate. (See Photo 14)

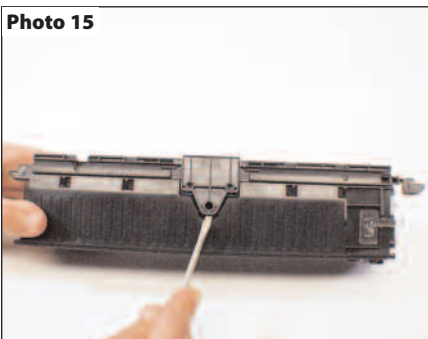
Step 12

Remove the developer roller. Remove the developer roller bearings from the ends of the roller. **NOTE:** Clean the developer roller using a lint free cloth and alcohol.

Photo 14



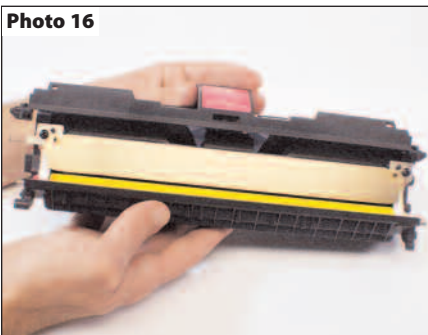
Photo 15



Step 13

To remove the top cover of the hopper, lift the back end of the cover off the positioning post located on the back side of the hopper. (See Photo 15)

Photo 16

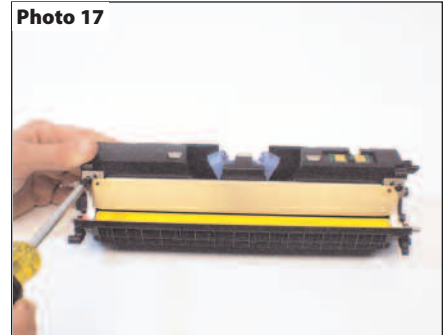


Lift off the top cover. (See Photo 16)

Step 14

Remove the 2 screws holding the doctor bar. (See Photo 17)

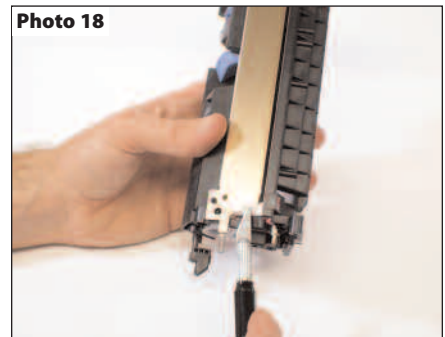
Photo 17



Step 15

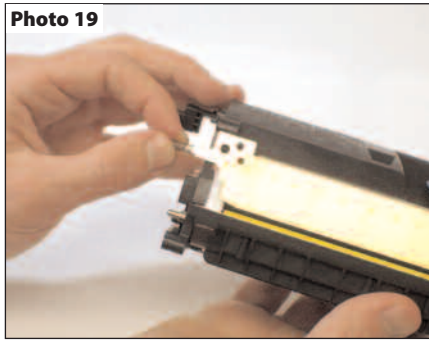
The ends of the doctor blade are adhered to the developer roller end felts. Using an X-acto knife cut the doctor blade away from the developer roller end felts. (See Photo 18)

Photo 18



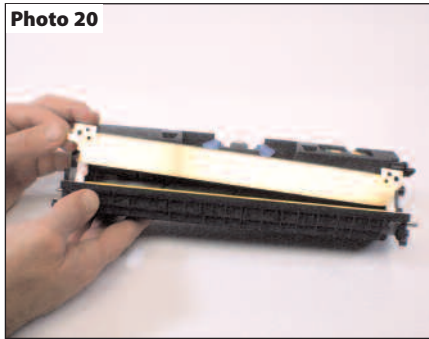
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Photo 19

**Step 16**

Remove the contact spring from the end of the doctor blade. (See Photo 19)

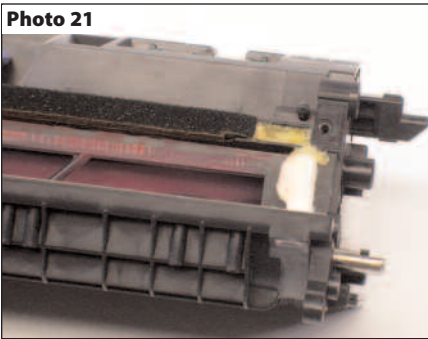
Photo 20

**Step 17**

Lift up on the doctor blade and remove. (See Photo 20)

NOTE: The ends of the doctor blade are filled with the same sticky foam found on the HP4200 wiper blades. (See Photo 21) Clean the doctor blade using water and a cotton swab. If toner is built up on the doctor blade use alcohol and a cotton swab to clean the blade.

Photo 21



Notes

Photo 22

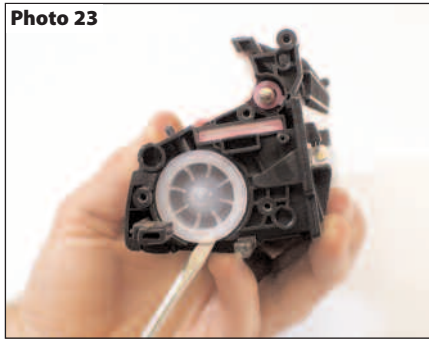
**Step 18**

Remove the feed roller end felts from the ends of the feed roller. (See Photo 22)

Step 19

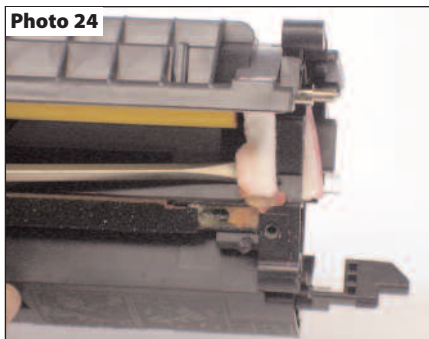
Remove the toner hopper fill plug. (See Photo 23)

Photo 23

**Step 20**

Clean the toner hopper using dry compressed air or a vacuum. **NOTE:** Be very careful when cleaning out the hopper. Any damage to the developer roller sealing blade could cause the cartridge to leak.

Photo 24

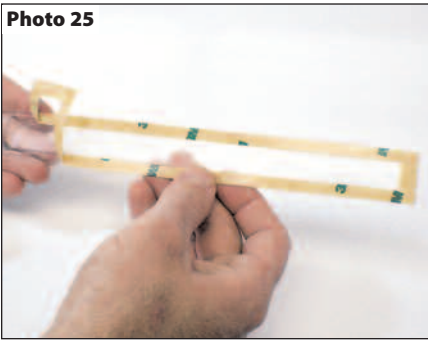
**Step 21**

Using a small flat blade screwdriver push the seal exit port plug out from the toner hopper. (See Photo 24)

Step 22

Clean the seal area using a cotton swab.

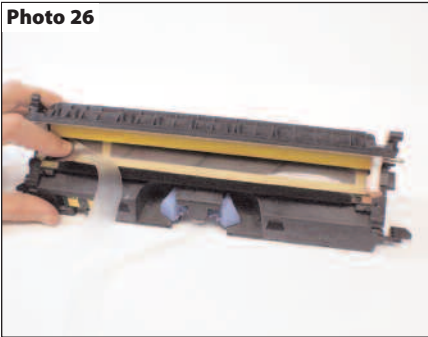
Photo 25



Step 23

Fold a corner of the seal over so the liner sits above the top of the seal. *(See Photo 25)*

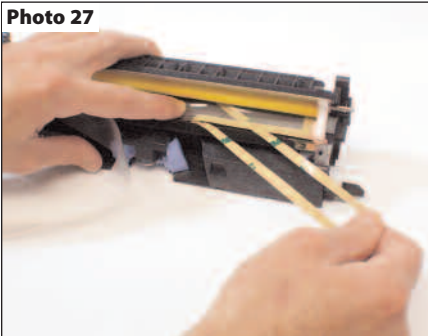
Photo 26



Step 24

Place the seal under the feed roller and press down on the end of the seal. *(See Photo 26)*

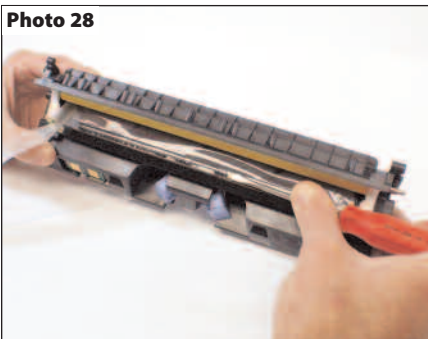
Photo 27



Step 25

Slowly pull the liner of the seal across the cartridge, exposing the adhesive. *(See Photo 27)*

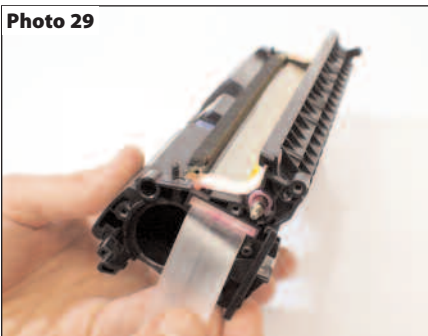
Photo 28



Step 26

Press down along the edge of the seal to help the adhesive adhere to the hopper. *(See Photo 28)*

Photo 29



Step 27

Slide the tail of the seal through the seal exit port and install the seal exit port plug. *(See Photo 29)*

Step 28

Fill the hopper with toner. *(See Photo 30)*

Install the toner hopper fill plug.

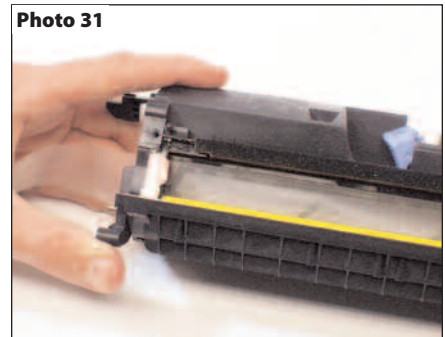
Photo 30



Step 29

Remove the foam sealant from the both ends of the toner hopper. *(See Photo 31)*

Photo 31



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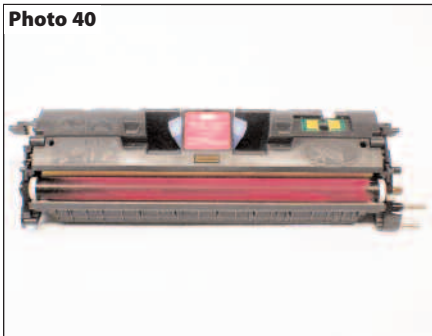
Step 35

Slide the developer roller end plate onto the contact side of the cartridge. Install the screw that holds the end plate in place. (See Photo 38)



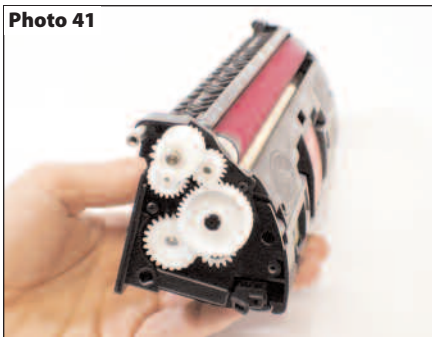
Step 36

Slide the developer roller end plate onto the gear side of the hopper. Install a standard cartridge screw and a small silver screw to hold the end plate in place. (See Photo 39)



Step 37

Place the top cover onto the toner hopper. (See Photo 40)



Step 38

Install the gears onto the side of the hopper. (See Photo 41)



Step 39

Install the gear housing end cap onto the end of the cartridge. Install the fine threaded screw in the screw hole just below the drive gear and a standard cartridge screw in the screw hole toward the top of the end cap. (See Photo 42)

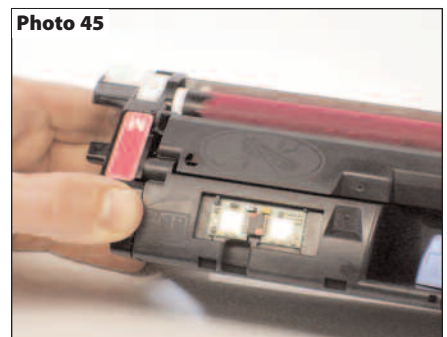
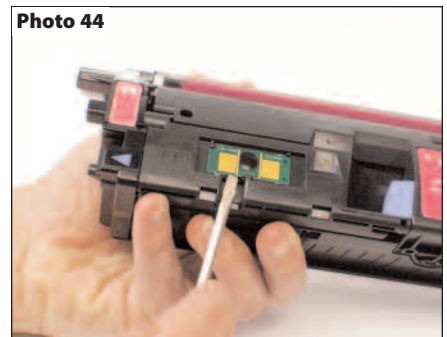
Step 40

Place the contact end cap onto the other end of the cartridge. Install the 3 screws that hold the end cap in place. The large cartridge screw goes in the screw hole by the developer roller, the small silver screw goes in the screw hole on the bottom of the end cap and the standard cartridge screw goes in the hole toward the top of the end cap. (See Photo 43)



Step 41

Replace the chip found on top of the toner hopper. (See Photo 44 & 45)





Remanufacturing the HP Color LaserJet 2500

Released back in October 2002, the HP Color LaserJet 2500 was Hewlett-Packard's first entry into the low-cost color printer market. At a starting price of just under \$1000 (\$999 to be exact), it was the cheapest color printer HP ever released—well, at least for a few months.

In 2003, HP released the HP1500 and the HP1500L color printers. These host-based printers rely on the host computer to render the print jobs before it is sent to the printer. What does this mean for the consumer? How about a savings of about \$450!! The HP1500L has a list price of only \$549.99, making it the least expensive color printer ever released by HP. The reason HP can sell the printer so cheaply is because the computer handles the processing of the print job. This means the printer requires less memory and processor power, which leads to a lower cost printer. The HP 1500L requires only a 150MHz processor and 16MBs of RAM, while the HP 2500L requires a 300MHz processor and 64MBs of RAM.

In June 2004, HP discontinued the HP2500 line of printers and released the new HP Color LaserJet 2550. Capable of printing 20 monochrome pages per minute, that's 4 pages faster than the HP2500. However the color print speed remained the same, only 4 pages per minute.

The new Canon engine uses five consumables, four toner cartridges and one imaging unit. There are different part numbers for the HP2550 consumables. Further testing is needed to determine if changes have been made to the cartridges.

The color cartridges for the HP 1500 and HP 2500 series printers (C9701A Cyan, C9702A Yellow and C9703A Magenta) print 4,000 pages at 5% coverage, while the black toner cartridge (C9700A) yields 5,000 pages at 5% coverage. The black cartridge for the HP 2550 series printers (Q3960A) also prints 5,000 pages at 5% coverage. The color cartridges however are available in a high yield version (Q3964A Cyan, Q3962A Yellow and Q3963A Magenta) that yield 4,000 pages at 5% coverage, as well as a low yield version (Q3971A Cyan, Q3972A Yellow and Q3973A Magenta) that yield only 2,000 pages at 5% coverage.

The imaging units consist of the OPC drum and a transfer belt. Both imaging units yield the same amount of pages: 20,000 monochrome and 5,000 pages full color. However, the part numbers are different. The HP 1500 and 2500 series printers use part number C9704A and the HP 2550 series uses part number Q3964A.

MACHINE COMPATIBILITY:

Machines	Part Numbers	Supplies:
HP1500L	Q2488A	C9700A Black print cartridge 5K
HP1500	Q2489A	C9701A Cyan print cartridge 4K
HP2500L	C9705A	C9702A Yellow print cartridge 4K
HP2500	C9706A	C9703A Magenta print cartridge 4K
HP2500n	C9707A	C9704A Imaging unit 20K black, 5K color
HP2500tn	C9708A	

Machine	Part number	Supplies
HP2550L	Q3702A	Q3960A Black print cartridge 5K
HP2550Ln	Q3703A	Q3961A Cyan print cartridge 4K
HP2550n	Q3704A	Q3962A Yellow print cartridge 4K
		Q3963A Magenta print cartridge 4K
		Q3971A Cyan print cartridge 2K
		Q3972A Yellow print cartridge 2K
		Q3973A Magenta print cartridge 2K
		Q3964A Imaging unit 20K black, 5K color

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