



HP4250_4350TECH

Technical Instructions	Machine Compatibility		OEM Info	Tools	1
<p>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</p> <p>ATLANTA, USA US 1 877 676.4223 Int'l +1 678 919.1189 FAX 1 877 337.7976 Int'l +1 770 516.7794</p> <p>KANSAS CITY, USA US 1 913 871.1700 FAX 1 913 888.0626</p> <p>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</p> <p>MIAMI, USA US 1 800 595.4297 Int'l +1 305 594.3396 FAX 1 800 522.8640 Int'l +1 305 594.3309</p> <p>TORONTO, CAN CAN 1 877 848.0818 Int'l +1 905 712.9501 FAX 1 877 772.6773 Int'l +1 905 712.9502</p> <p>MELBOURNE, AUS AUS 1 800 003.100 Int'l +62 03 9561.8102 FAX 1 800 004.302 Int'l +62 03 9561-7751</p> <p>SYDNEY, AUS AUS 1 800 003.100 Int'l +62 02 9648.2630 FAX 1800 004.302 Int'l +62 02 9548.2635</p> <p>BUENOS AIRES, ARG ARG 0810 444.2656 Int'l +011 4583.5900 FAX +011 4584.3100</p> <p>SÃO PAULO, BRAZIL Int'l +55 11 5524.8000</p> <p>BOGOTÁ, COLOMBIA Int'l +57 1410.8842</p> <p>CALI, COLOMBIA Int'l +57 2661.1166</p> <p>MONTERREY, MEXICO Int'l +52 55 5333.9800</p> <p>JOHANNESBURG, S.A. S.A. +27 11 974.6155 FAX +27 11 974.3593</p> <p>ZHUHAI, PR CHINA Int'l +86 756 3359608 FAX +86 756 3359681</p>	<p>HP4240n HP4250 HP4250n HP4250tn HP4250dtn HP4250dtnsl</p> <p>HP4350n HP4350tn HP4350dtn HP5340dtnsl</p>	<p>HP4220n Cartridge Part Number: Q5942A Yield @ 5% Coverage: 10,000 Pages/ min: 40 Resolution: 1200dpi</p> <p>HP4250 Cartridge Part Number: Q5942A Yield @ 5% Coverage: 10,000 Cartridge Part Number: Q5942X Yield @ 5% Coverage: 20,000 Pages/ Min 45 Resolution: 1200dpi</p>	<p>HP4350 Cartridge Part Number: Q5942A Yield @ 5% Coverage: 10,000 Cartridge Part Number: Q5942X Yield @ 5% Coverage: 20,000 Pages/ Min 55 Resolution: 1200dpi</p>	<p>Phillips Screwdriver, Diagonal Cutters, Dremel Tool with cutting bit, Small flat blade Screwdriver, Needle-nose Pliers, HP4200PINGUIDE2, 3/32 inch drill bit</p> <p>Supplies Required: Padding Powder, Soft Lint Free Cloth, Swabs, Toner, Drum, Doctor Blade, Wiper Blade, Expanding Foam, HP4200PIN, High Temperature Grease (Dow Corning 44® recommended)</p>	

Photo 1

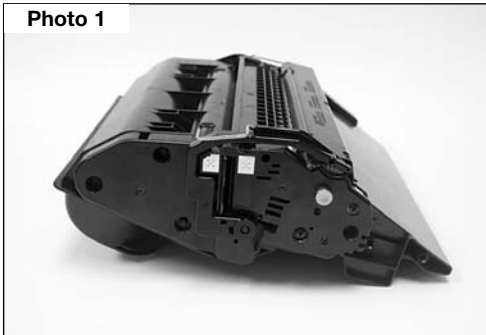


Photo 2

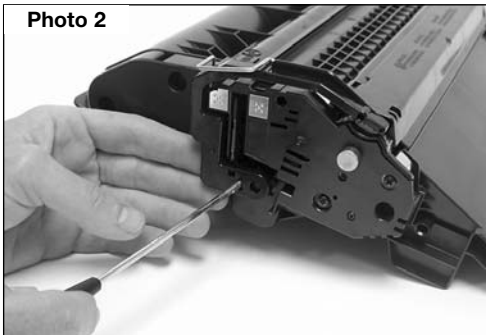


Photo 3



Step 1

Place the cartridge on the workbench with the drum up and the drum shutter arm towards you. (See Photo 1)

Step 2

Using a small flat blade screwdriver release the clip that holds the drum shutter arm to the cartridge. (See Photo 2)

Step 3

Pull the shutter arm from the drum shutter and slide the shutter arm from its positioning post. (See Photo 3 and Photo 4)

NOTE: Do not lose the tension spring that fits inside the drum shutter arm. Place the tension spring back into the shutter arm as shown in photo 5.

Photo 4

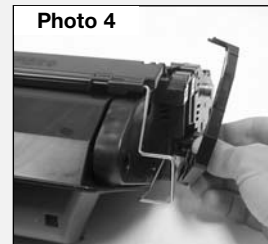
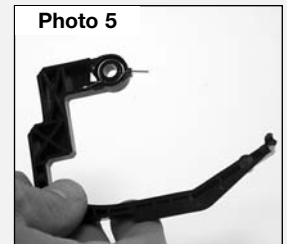
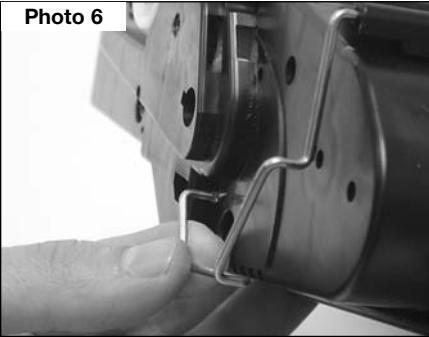


Photo 5

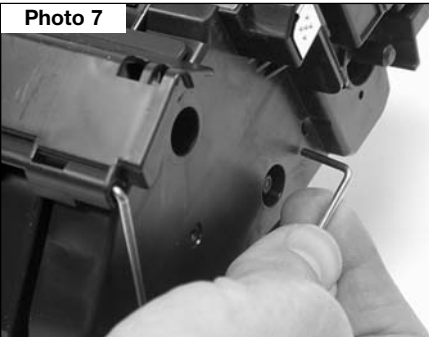
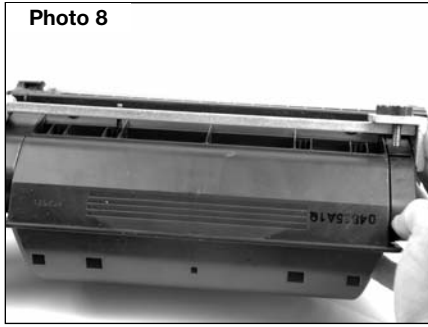
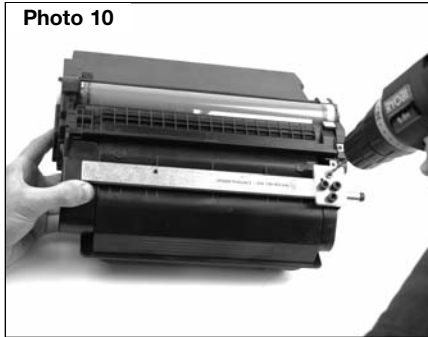
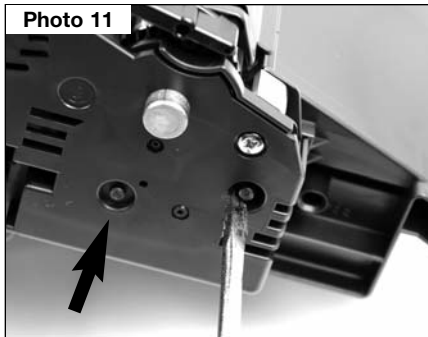
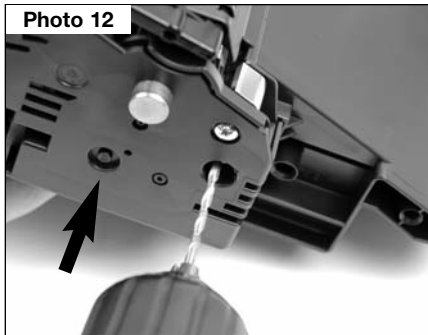


Step 4

Open the drum shutter, exposing the drum. The drum shutter bar is keyed on the non-contact side of the cartridge. Slide the shutter bar back until the bar can be removed from the cartridge end cap. (See *Photo 6*)

Photo 6**Step 5**

Pull the drum shutter bar from the cartridge contact end cap. (See *Photo 7*) Set the drum shutter aside.

Photo 7**Photo 8****Photo 9****Photo 10****Photo 11****Photo 12****Step 6**

Place the Side Plate Drill Guide onto the bottom of the toner hopper. The Side Plate Drill Guide has three alignment pins. (See *Photo 8*) The large alignment pin fits into the square notch on the bottom of the contact end cap, the smaller alignment pin located next to the large pin fits just over the first supporting rib next to the end cap. The last alignment pin will fit over the fourth supporting rib. (See *Photo 9*)

Step 7

Using the provided .136 (#29) drill bit, drill a hole through the contact end cap. (See *Photo 10*)

Step 8

Remove the Drill Guide.

Step 9

Place a flat blade screwdriver at the base of the long plastic weld that holds the contact end cap to the toner hopper. Pry up on the screwdriver to break the weld.

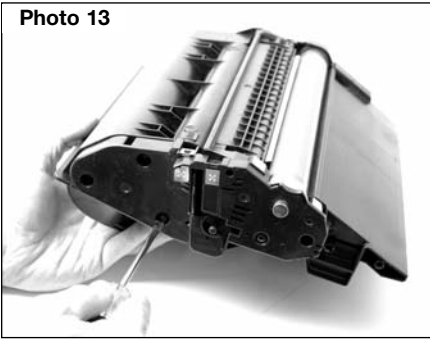
(See *Photo 11*)

Step 10

Using a 3/32 inch drill bit, drill a hole into the two plastic welds. The holes will be used to reattach the end cap to the waste hopper with screws.

(See *Photo 12*)

Photo 13



Step 11

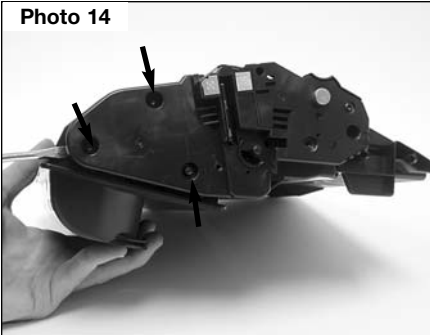
Place a small flat blade screwdriver at the base of the three plastic welds that hold the end cap to the toner hopper. Pry up on the screwdriver to break the welds.

(See Photo 13)

Step 16

Remove the screw holding the drum axle.
(See Photo 18) Remove the axle.

Photo 14



Step 12

Insert a flat blade screwdriver between the toner hopper and the contact end cap, next to the plastic welds that hold the end cap to the toner hopper. Carefully pry the end cap away from the toner hopper.

(See Photo 14) Remove the end cap.

Photo 18

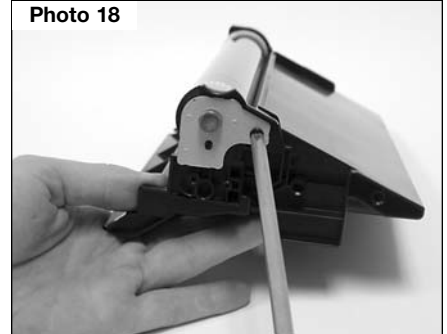
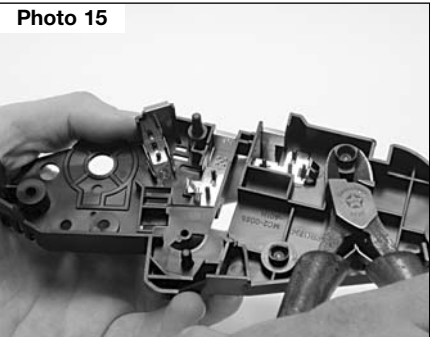


Photo 15



Step 13

Using diagonal cutters cut the 3 plastic welds flush with the contact end cap.

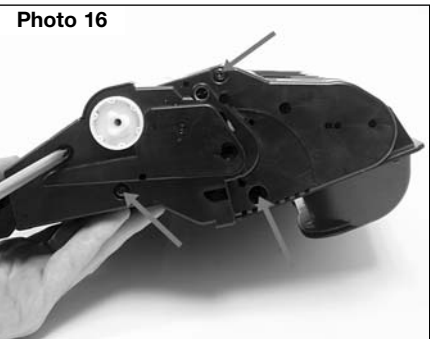
(See Photo 15)

Step 17

Lift the drum by the small gear and pull the drum from the bearing hub.

(See Photo 19)

Photo 16



Step 14

Rotate the cartridge 180°. Remove the 4 screws holding the gear housing end cap.

(See Photo 16)

Photo 19



Photo 17



Step 15

While holding the opposite end of the cartridge, remove the gear assembly end cap from the cartridge.

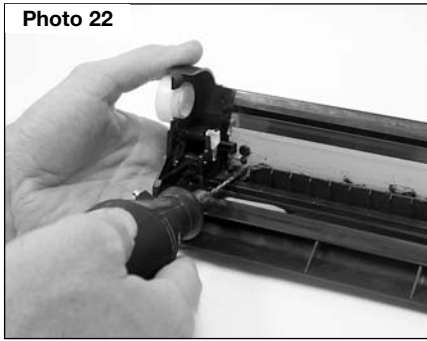
(See Photo 17) Separate the two sections and set the toner hopper aside.

Step 18

Remove the PCR from the PCR saddles. (See *Photo 20*)

NOTE: If you are going to reuse the PCR clean the roller using a lint free cloth and DI water.

Photo 22



Step 20

NOTE: This step is only for the HP4350. Using a Dremel with a cutting bit cut away the retaining wall that prevents the wiper blade from being removed. (See *Photo 22*)

Photo 20



Photo 23



Step 21

Remove the 2 screws holding the wiper blade. (See *Photo 23*) Remove the blade.

Step 22

Dump the waste toner from the hopper. Clean the hopper using dry compressed air or a vacuum.

Step 19

In order to remove the wiper blade, pull the OEM sealing foam material away from the wiper blade. (See *Photo 21*)

NOTE: The OEM sealing foam material is sticky and is not easily removed.

Photo 24



Step 23

Apply padding powder to the new wiper blade and place the blade onto the waste hopper. Install the 2 screws that hold the blade in place. (See *Photo 24*)

Photo 21

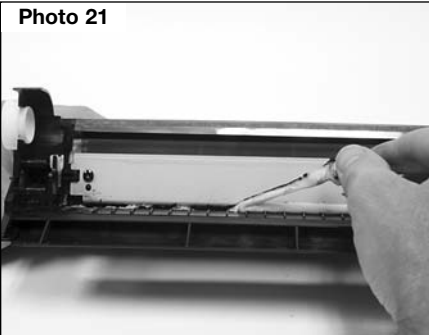
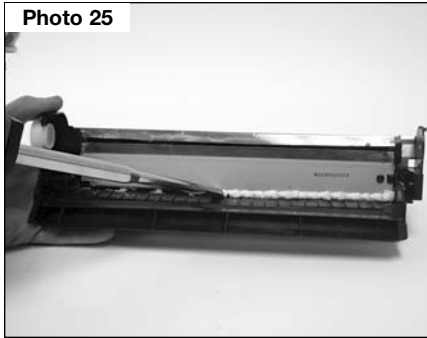


Photo 25



Step 24

To seal the area around the wiper blade use an expanding foam with an adjustable bead. Apply the foam along the edge of the blade and in the square holes on the ends. (See *Photo 25*)

Photo 26



Step 25

Clean the PCR saddles using a swab and alcohol. (See *Photo 26*)

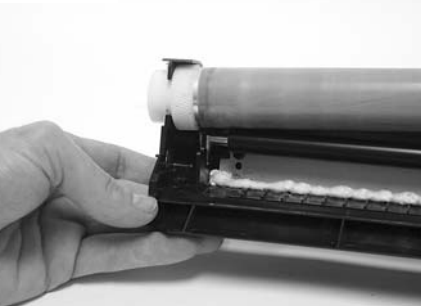
Photo 27



Step 26

Apply new conductive grease to the black contact saddle. Install the cleaned PCR. (See Photo 27)

Photo 28



Step 27

Apply high temperature grease to the bearing hub before installing the drum. Apply padding powder to the drum. Slide the drive gear into the bearing hub. (See Photo 28)

Photo 29



Step 28

Install the contact end plate. (See Photo 29)
NOTE: Make sure the contact plate sits flush with the end of the waste hopper.

Photo 30



Step 29

Install the screw that holds the contact plate in position. (See Photo 30)

Step 30

Place the waste hopper aside in a protected area out of the light.

Photo 31



Step 31

Remove the mag roller drive gear housing from the end of the toner hopper. (See Photo 31) Remove the mag roller drive gear.

Step 32

Remove the screw that holds the mag roller end plate. (See Photo 32)

Photo 32



Step 33

Using needle nose pliers remove the hinge pin from the mag roller end plate. (See Photo 33)

Photo 33



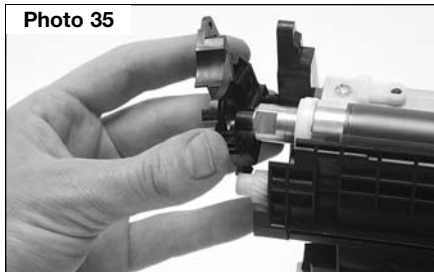
Step 34

Remove the mag roller tension spring. (See Photo 34)

Photo 34



Photo 35

**Step 35**

Pull the mag roller end plate from the toner hopper. (See Photo 35)

NOTE: Do not lose the bearing that sits inside the mag roller end plate. (See Photo 36)

Photo 36

**Step 36**

Lift the free end of the mag roller, slide the roller out of the mag roller end plate on the opposite side of the toner hopper. (See Photo 37)

NOTE: Do not lose the bearing that sits inside the mag roller end plate. (See Photo 38)

Photo 37



Photo 38

**Step 37**

Remove the mag roller bearings from the each end of the roller. (See Photo 39)
Clean the mag roller using dry compressed air or a vacuum, then using a lint free cloth and a mag roller cleaner. Clean the mag roller bearings using alcohol and a lint free cloth.

Photo 39



Photo 40

**Step 38**

Remove the 2 screws holding the doctor blade. (See Photo 40)

Step 39

Lift the plastic scrapers and mylar shims off each end of the doctor blade. (See Photo 41)

Photo 41

**Step 40**

Lift the doctor blade from the toner hopper. (See Photo 42) If you plan on using the doctor blade again, clean the doctor blade using dry compressed air or a vacuum, then using a lint free cloth and DI water.

Step 41

Dump the old toner out of the toner hopper. Using dry compressed air or a vacuum, clean out the hopper.

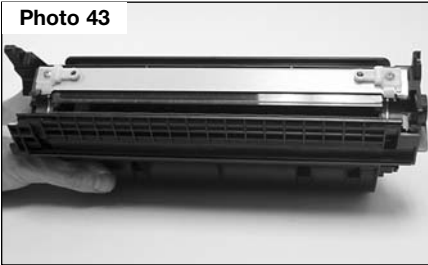
Step 42

Fill the toner hopper with the correct amount of toner depending on the cartridge type you are building.

Photo 42



Photo 43



Step 43

Place the new or cleaned doctor blade onto the toner hopper. Place the mylar shims and the plastic scrapers on each end of the doctor blade. Install the 2 screws holding the blade in place. (See Photo 43)

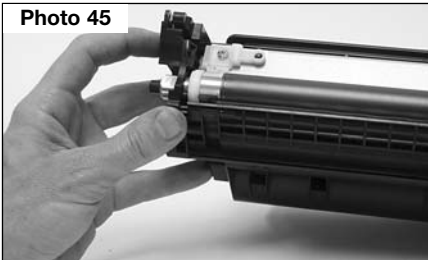
Photo 44



Step 44

Slide the black mag roller bearing onto the contact end and the white bearing onto the drive gear end of the mag roller. Slide the mag roller contact hub into the mag roller bearing plate on the toner hopper. (See Photo 44)

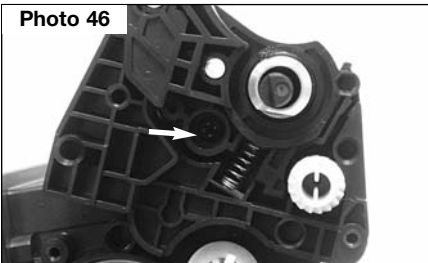
Photo 45



Step 45

Align the mag roller bearing end plate to the toner hopper and slide the end plate onto the toner hopper. (See Photo 45)

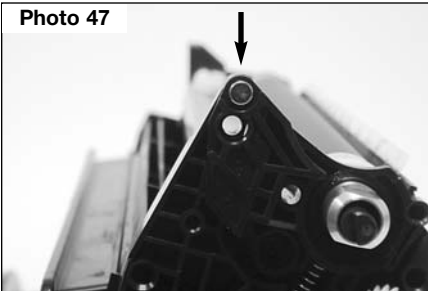
Photo 46



Step 46

Install the mag roller tension spring and the screw into the mag roller bearing end plate. (See Photo 46)

Photo 47



Step 47

Install the hinge pin into the mag roller bearing end plate. (See Photo 47)

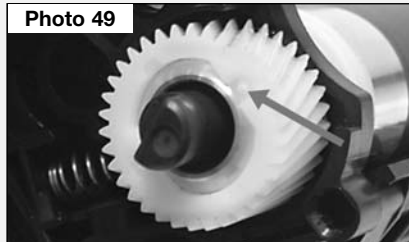
Photo 48



Step 48

Slide the mag roller drive gear onto the mag roller. (See Photo 48) **NOTE:** Make sure the two injection molding points on the mag roller drive gear face outward. (See Photo 49)

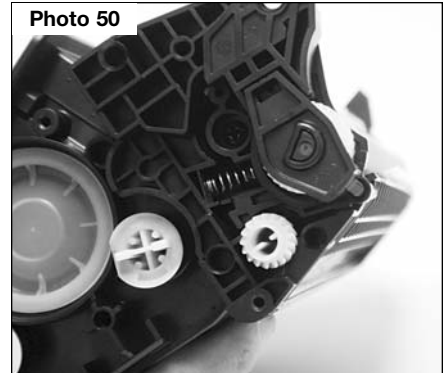
Photo 49



Step 49

Place the mag roller drive gear housing onto the end of the mag roller, making sure the keyed end of the magnet fits into the gear housing. (See Photo 50)

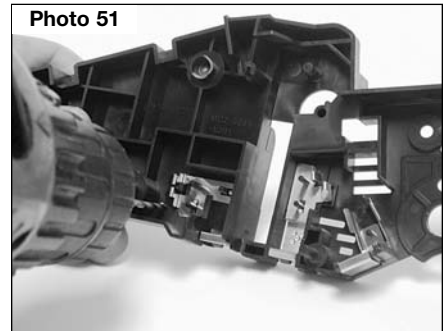
Photo 50



Step 50

Using a 3/32-drill bit, drill a hole next to the toner sensing contact on the cartridge contact end cap as shown in photo 51.

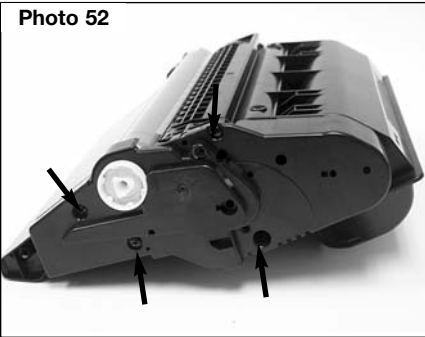
Photo 51



Step 51

Join the toner hopper and waste hopper together. Place the cartridge gear housing end cap onto the side of the cartridge. Install the 4 screws that hold the end cap in place. (See Photo 52)

Photo 52

**Step 52**

Place the contact end cap onto the end of the cartridge. Install the 2 screws that hold the end cap in place. (See Photo 53)

Photo 53

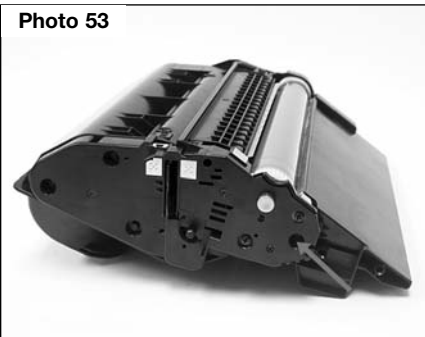


Photo 54

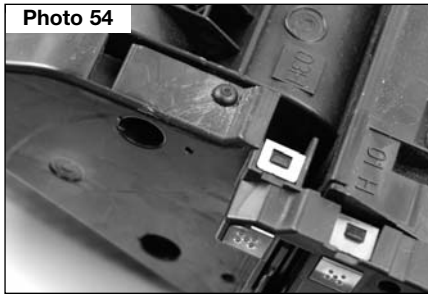


Photo 55



Photo 56

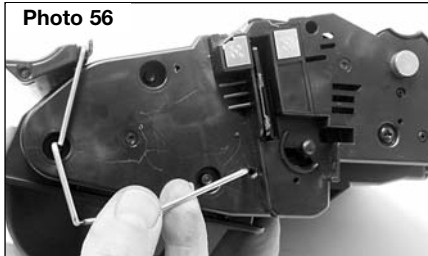


Photo 57

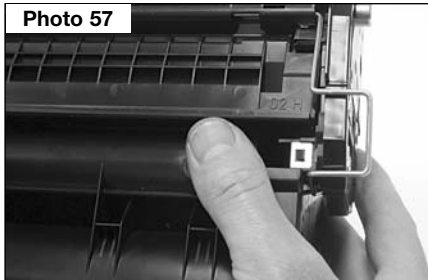


Photo 58

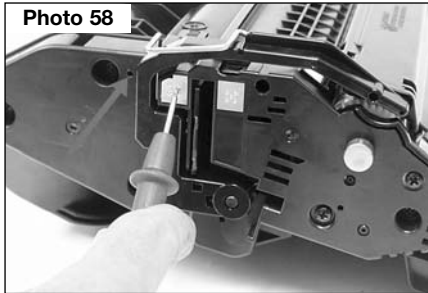


Photo 59

**Step 53**

Insert the HP4200PIN into the drilled hole in the bottom of the contact end cap. (See Photo 54)

Step 54

Install the keyed end of the drum shutter bar into the gear housing end cap. (See Photo 55)

Step 55

Install the non-keyed end of the drum shutter bar into the contact end cap. (See Photo 56)

Step 56

Slide the drum shutter arm onto the positioning post. Push the drum shutter arm into the drum shutter. (See Photo 57) Slide open the drum shutter to engage the tension spring.

Step 57

Place one probe of an Ohmmeter on the toner sensor contact and place the other probe into the hole that was drilled next to the contact. (See Photo 58) Locate the sensor bar that comes out from the toner hopper through the hole drilled in the end cap, making sure you have a low resistance connection. (See Photo 59)

NOTE: If contact is not made between the sensor bar and the contact on the end plate this will result in an error "54.1 Remove Sealing Tape" or if contact is lost during usage a premature toner low can occur.

Step 58

Test cartridge.