



HP4500TECHBLACK

Technical Instructions	Printers	OEM Info	Tools	1
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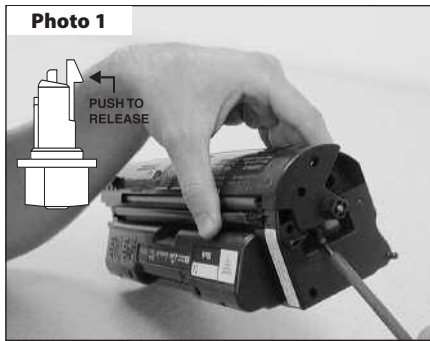
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HP4500/4550  
HP4500N/4550N  
HP4500DN/4550DN

Part Number: C4171A  
Yield @ 5%: 9,000 pages  
PPM: 4 Color/ 16 Black  
Resolution: 600dpi  
(HP ImageRET 2400)

Cartridge Clip Remover  
#1 Phillips Head Screwdriver  
Small Flat Blade Screwdriver  
Phillips Head Jeweler's Screwdriver  
Soft Cleaning Wipes  
Needle Nose Pliers  
Vacuum or Compressed Air  
Mag Roller Sleeve Cleaner

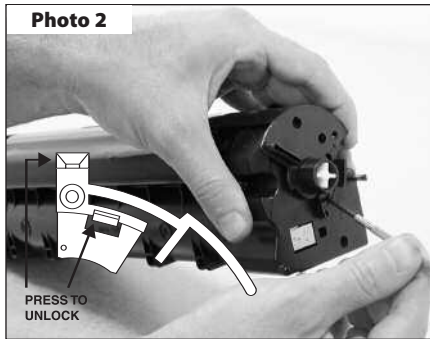
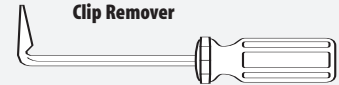


**Step 1**

Carefully remove the contact pin from the cartridge by disengaging the locking tab. Insert a hook tipped tool in the end-cap opening and compress the locking tab, releasing the contact pin for removal.

(See Photo 1)

**Clip Remover**



**Step 2**

With a small flat blade screwdriver release the shutter lock from the opposite end of the cartridge.

(See Photo 2)



**Step 3**

Elongate the shutter just enough to disengage it from the cartridge drive hub.

(See Photo 3)

**Other Technical Instruction Guides available for this engine:**

HP4500/4550 C, M, Y Toner Cartridges Reman. Instructions ..... HP4500TECH-CMY  
HP4500/4550 Drum Unit Remanufacturing Instructions ..... HP4500TECH-DRUM

## Notes

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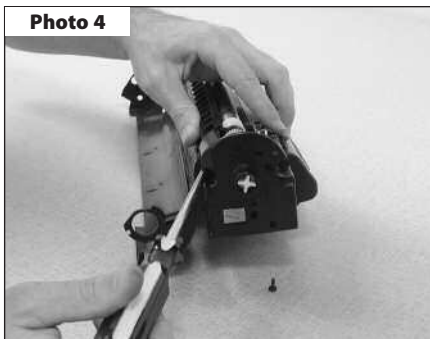


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Photo 4



### Step 4

Remove the two screws holding the contact end cap.

*(See Photo 4)*

Photo 5



### Step 5

Release the locking tab that holds the end cap to the hopper by pressing down on the tab. Remove the end cap. Clean the mag roller contact using a swab and alcohol. Apply new conductive grease.

*(See Photo 5)*

Photo 6

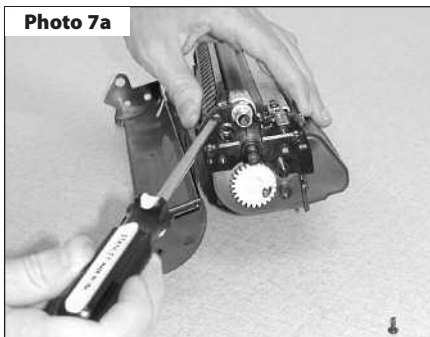


### Step 6

Remove the mag roller contact and three gears leaving the toner hopper agitator gear. Clean the mag roller contact with a swab and alcohol. Apply new conductive grease.

*(See Photo 6)*

Photo 7a



### Step 7

Remove the two screws holding the mag roller bearing and cap. Remove the end cap.

**NOTE:** Do not lose the white bearing that sits inside the end cap.

*(See Photo 7a and 7b)*

Photo 7b

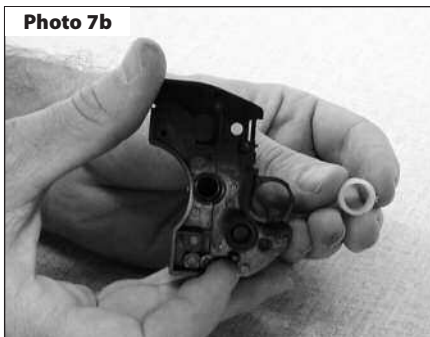
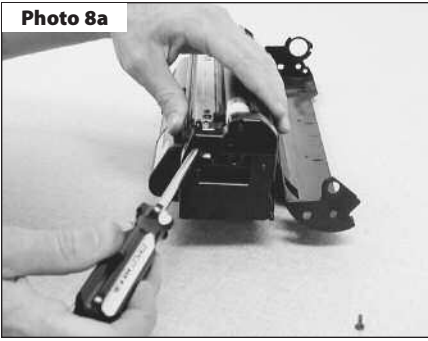


Photo 8a



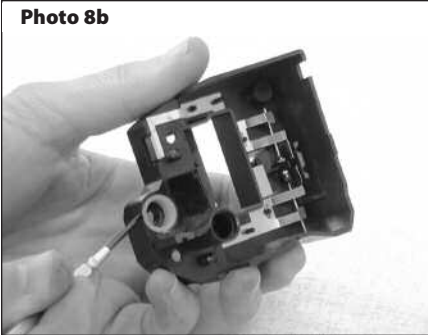
**Step 8**

Rotate the cartridge 180 degrees. Remove the two screws holding the end cap on the fill plug side of the cartridge. Remove the end cap.

*(See Photo 8a and 8b)*

**NOTE:** Do not lose the white bearing that sits inside the end cap.

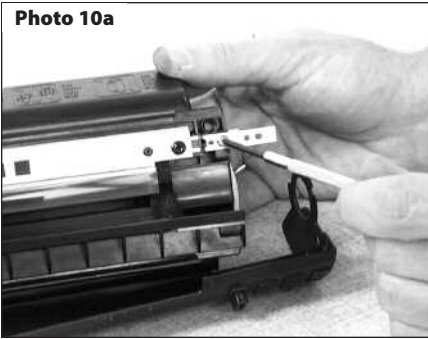
Photo 8b



**Step 9**

Carefully lift out the mag roller. Remove the mag roller bushings from each end of the mag roller. Using dry, compressed air blow off the mag roller. Clean the roller with Future Graphics mag roller cleaner, anhydrous ethanol, or other non-filming solvents.

Photo 10a



**Step 10**

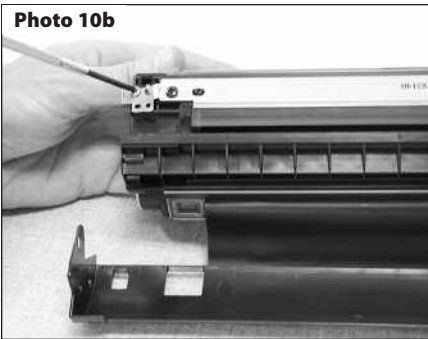
Using a small Phillips screwdriver, remove the screw holding the contact bridges on each end of the doctor blade.

*(See Photo 10a and 10b)*

**Step 11**

Remove the two screws holding the doctor blade.

Photo 10b



**Step 12**

Lift the doctor blade straight up on the right side and remove.

*(See Photo 12)*

**Step 13**

Dump out the toner remaining in the hopper. Using dry, compressed air or a vacuum, clean the hopper.

**Step 14**

Fill hopper through the mag roller opening.

**Step 15**

Reassemble in the reverse order.

Photo 12



**Notes**

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

## Engine Fact Sheet

### FUTURE GRAPHICS PRODUCT LISTING

PRODUCT	DESCRIPTION	ITEM #	PACK QTY.
Cartridge Bag	Heat-Sealable Black/Silver Anti-Static Foil		100
Cartridge Box	Tape-Top White Box/Blue Print		25
Cartridge Box Insert	Die Cut Corrugated		50
Cartridge Box Label	Two-Color Self-Adhesive, For Black and Color Cartridges	HP4500LABEL	100
Cartridge Tech Guide	Remanufacturing Instructions – Black Toner	HP450TECHBLACK	1
Cartridge Tech Guide	Remanufacturing Instructions – Color Toner	HP450TECHCMY	1
Cartridge Tech Guide	Remanufacturing Instructions – Drum Unit	HP450TECHDRUM	1
Chip – MultEPOM	Compatible Replacement	HP4500CHIPC	1
Chip – MultEPOM Reset	Reprogrammed Exchange	HP4500CHIPX	1
Chip Reset Device Kit	Reset Device, 100 Resets included in Purchase Price	HC458KIT	1
Chip Reset Device Resets	Sold in Increments of 20	HC458RSET	20
Contact Pin	Shutter Support Electrical, for All Toner Hoppers, 2-Part Assembly	HP4500HOPRPIN	50
Contact Pin Removal Tool		HP4500HOPRPIN	1
Developer Roller	New, Color Developer Roll	HP4500DVRONYX	10
Developer Roller Felt		HP4500DVRFELT	
Doctor Blade	Black Cartridge	HP4000DRBALDEK	10/240
Doctor Blade	Color Cart, Molded both Sides, Copper (Do Not Bend)	HP4500DRBALDEK	10/200
Doctor Blade End Foams	Doctor Blade Seal End Foams, Sold per Set	HP4500DBFOAM	
Doctor Blade Shim	Black Cartridge, 0.004 Plastic Spacer, Use Two Per	HP4000DBSHIM	100
Drum	Sinonar	HP4500SNR	5/25
Drum Kit	Sinonar Drum and MultEPROM Chip	HP4500SNRCHPKIT	5
Hooper Rail	34mm, Low Profile	HP4500CLIP34MM	500
Mag Roller Bushing	Small/Short, Large/Long, For Black Unit, Set of Two, Sold per Set	HP4500BUSHING	50
Mag Roller Sleeve	New, Black Surface, For Black Toner Unit, Onyx	HP4500MAGONYX	10
PCR	New, Onyx	HP4000PCRONYX	10
PCR	New, Soft Foam Type, Extra Quiet	HP4000PCREQ	10
PCR	Soft Foam Type, Onyx, Extra Quiet	HP4000PCONYXEQ	10
PCR Saddle	1-Piece, Non-Conductive Contact Clip w/Spring, for Drum Unit, White	HP4500PCRSADDL1	50
PCR Saddle	Two-Piece Conductive, With Spring	HP4500PCRSADDL2	50
Seal	Adhesive Onyx Gray, Foam – For Black Unit	HP4500SEALONYX	50
Seal	Adhesive GoldSeal – For Black and Color Units	HP4500GOLSDSEAL	50
Seal Channel End Foams	Seal End Foam Set, Sold per Set	HP4500ENDFOAMS	
Seal Channel End Foam		HP4500RAILFOAM	
Sutter Film	Shutter Film and Tape	HP4500FILM	
Sutter Stopper	Toner Hopper Shutter Stopper	HP4500HOPRLOCK	50
Toner	390 gm Bottle, Black	HP4500TNR390B	10
Toner	Black Bulk Bag, 22 lb Per-Fill – Box of 1, Sold per Box	HP4500B10KG	1
Toner	Cyan, Onyx	HP4500TNR200C	10
Toner	Cyan Bulk Bag, 22 lb Per-Fill – Box of 1, Sold per Box	HP4500C10KG	1
Toner	Magenta, Bottle	HP4500TNR200M	10
Toner	Magenta Bulk Bag, 22 lb Per-Fill – Box of 1, Sold per Box	HP4500M10KG	1
Toner	Yellow, Bottle	HP4500TNR200Y	10
Toner	Yellow Bulk Bag, 22 lb Per-Fill – Box of 1, Sold per Box	HP4500Y10KG	1
Toner, MICR			10
Toner Supply Roller	Toner “Adder” Roller	HP4500SUPPLY	10
Wiper Blade	Kuroki, Blade Only, No Tape	HP2100WBLADEK	10/200
Wiper Blade gap Tool	0.080 Inch, Plastic	HP4500WBGAPTOOL	1
Wiper Blade Instructions	Installation Instructions	HP4500WBTECH	1
Wiper Blade Kit	10 Wiper Blades/20 Strips of Tape/Instructions Kit	HP4500WBKIT	10
Wiper Blade Tape Set	Use Two Strips Per Cartridge, Pack of 10 Strips	HP4500WBTAPE	10