

THE RECYCLER

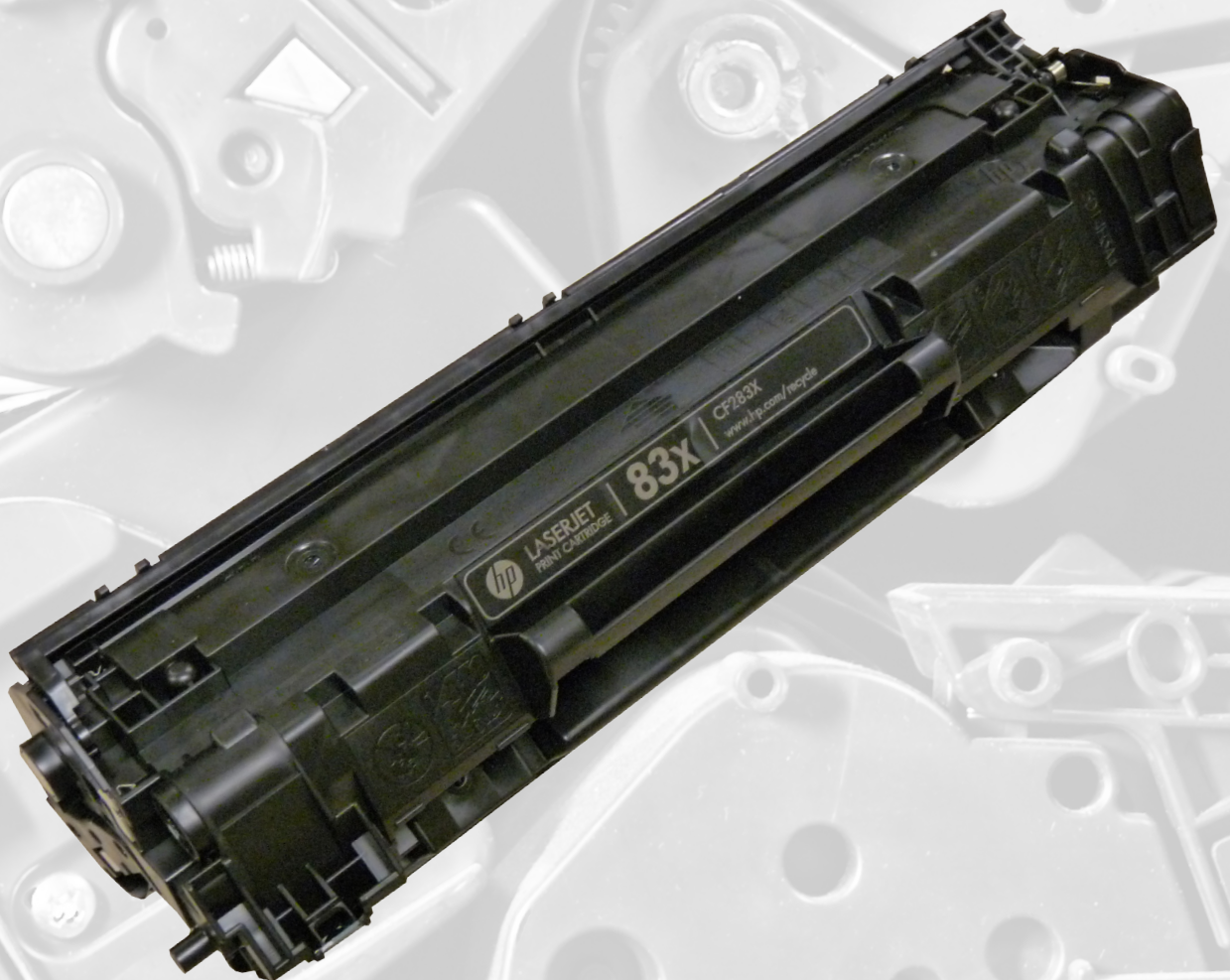
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Technical Guide

Remanufacturing the HP LaserJet Pro M201, MFP M225 series toner cartridge (CF283X)



By Mike Josiah and the Technical Staff at Uninet

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In December 2013, HP released the LaserJet Pro M201 series. The M201 laser printers are based on a 26ppm, 600 x 600dpi (1,200dpi with Fast Res) Canon engine. The CE283X is rated for 2,200 pages.

The printer itself has a very small footprint. It's a nice small office/home machine. The memory is fixed and not expandable at 128MB and 256MB for the MFP machines. The recommended monthly volume is from 250 to 2,000 pages/month. The printer, when new, comes with a starter cartridge that is rated for 1,500 pages at five percent coverage.

So far there are six printers based on this engine: the Pro M201n, M201dw, M202n, M202dw, MFP M225dn, and the MFP M225dw. Cartridge troubleshooting will be covered at the end of this article.

REQUIRED SUPPLIES

- Toner for use in the HP CF283X cartridge
- New drum
- Replacement chip (dedicated)
- Wiper blade
- Doctor blade
- Magnetic roller
- Sealing strip
- Cotton swabs
- Isopropyl alcohol
- Drum padding powder
- Conductive grease

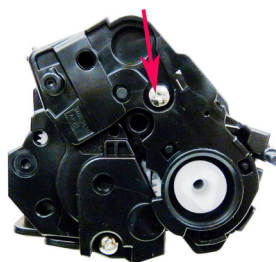
REQUIRED TOOLS

- Phillips head screwdriver
- Small common screwdriver
- Needle-nose pliers
- Jewellers screwdriver set



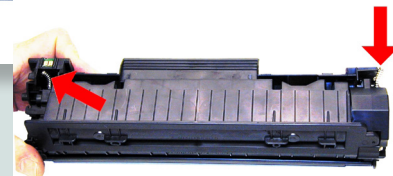
STEP ONE

With the handle facing you, remove the right side screw and end cap from the cartridge. Be careful of the drum cover spring! Remove it with the end cap.



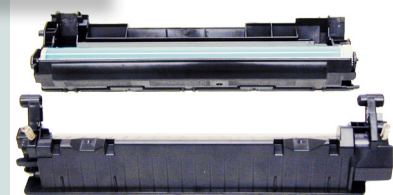
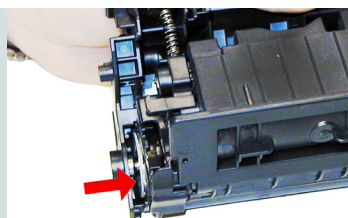
STEP TWO

With the pair of needle-nose pliers, release both the hopper tension springs.



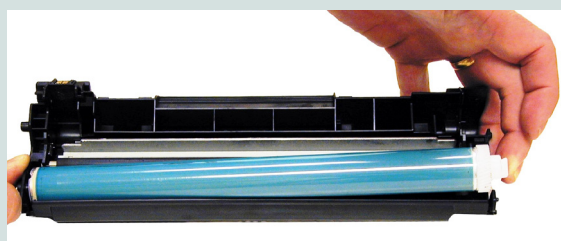
STEP THREE

Slide the waste/drum section over to the left side. Separate the two halves.



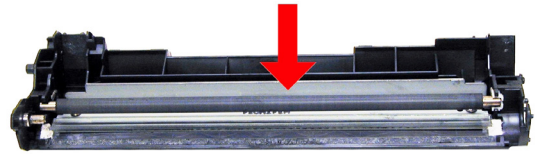
STEP FOUR

On the waste/drum section, lift the drum up from the gear side. Twist and remove from the hopper.



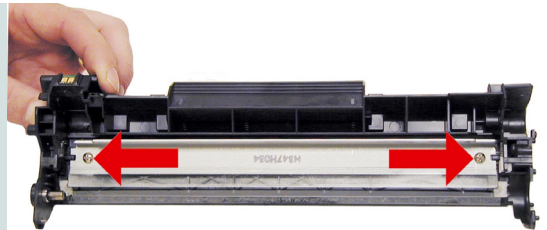
STEP FIVE

Remove the PCR and clean with your standard PCR cleaner.



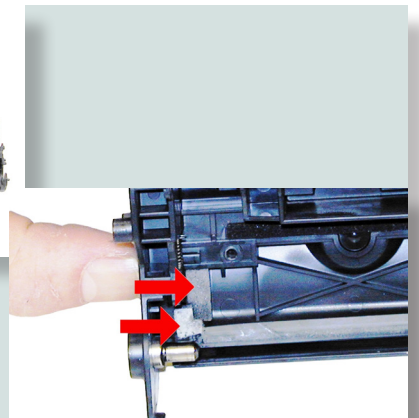
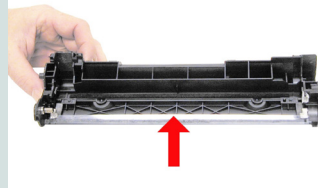
STEP SIX

Remove the two screws and the wiper blade.



STEP SEVEN

Clean out all the waste toner from the hopper. Be careful not to damage the recovery blade located next to the wiper blade. If this blade is bent in any way, the cartridge will leak. Make sure the wiper blade foam seals are clean.



STEP EIGHT

Coat the new/cleaned wiper blade with your preferred lubricant. Install the wiper blade and two screws

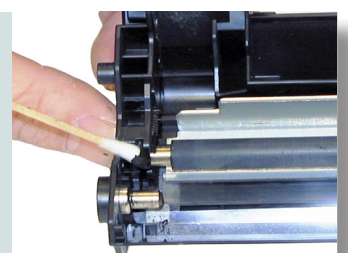


STEP NINE

Install the cleaned PCR. Place a small amount of conductive grease on to the black holder side of the shaft.

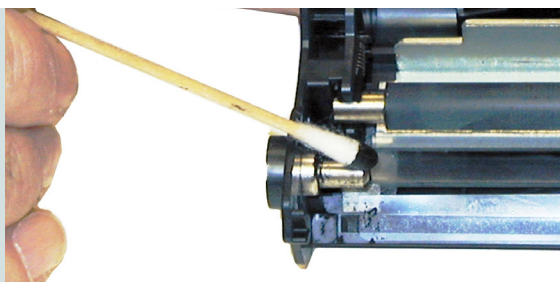


Just a small amount of grease is more than sufficient.



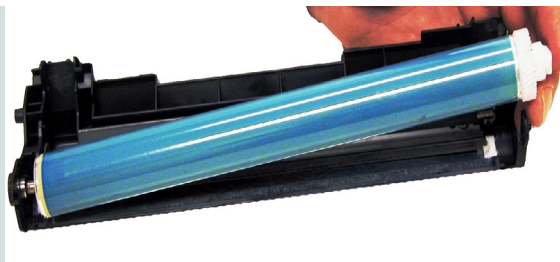
STEP TEN

Place another small amount of conductive grease on to the metal drum axle.



STEP ELEVEN

Install the new/cleaned drum hub side first.

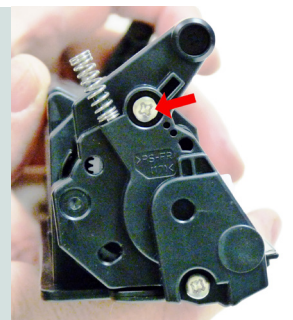


STEP TWELVE

Place the waste/drum section aside.

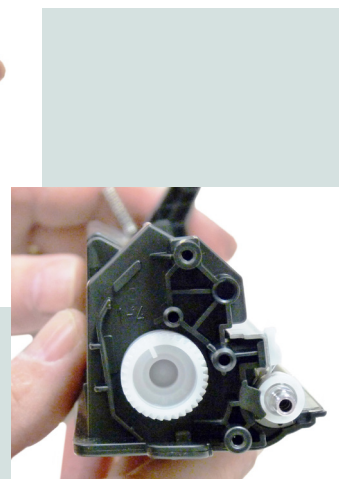
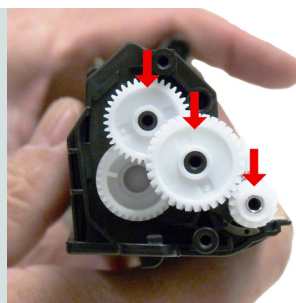
STEP THIRTEEN

On the toner supply chamber right side, remove the two screws and end cap.



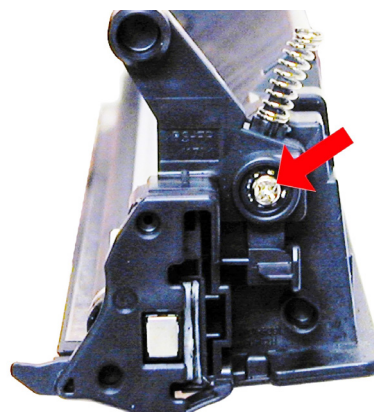
STEP FOURTEEN

Remove the gears from the hopper as shown; leave the large auger gear in place.



STEP FIFTEEN

Remove the single screw and end from the opposite side.



STEP SIXTEEN

Remove the magnetic roller assembly.



Be careful of the bushings! They are very fragile.



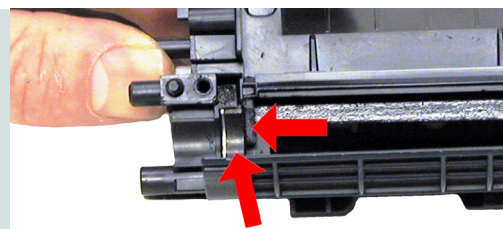
STEP SEVENTEEN

Remove the doctor blade and two screws.



STEP EIGHTEEN

Clean out all the remaining toner from the hopper. Make sure the magnetic roller seals and the doctor blade seals are all clean.



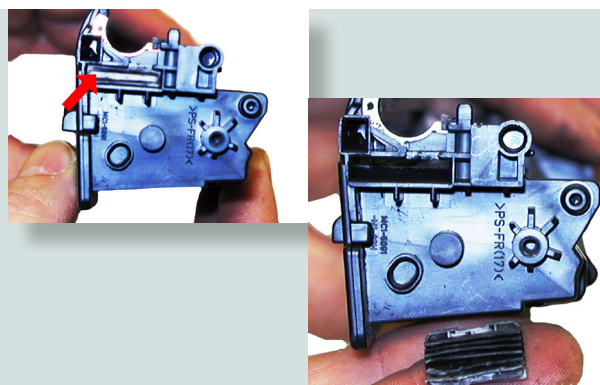
STEP NINETEEN

Fill the hopper with toner for use in the CF283X cartridge.



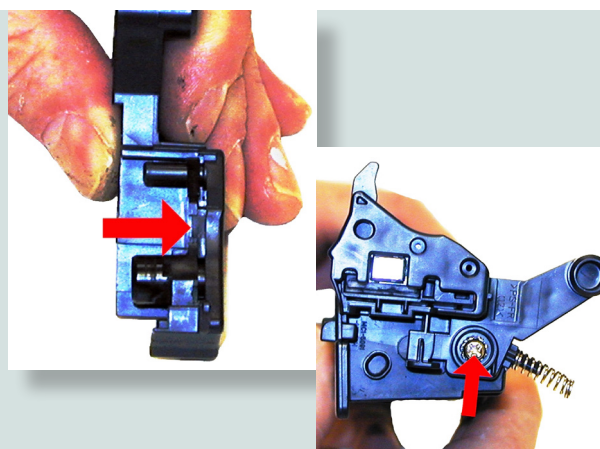
STEP TWENTY

To install a seal, remove the seal port plug, and install the seal. Bring the tail out through the seal port hole. Install the plug.



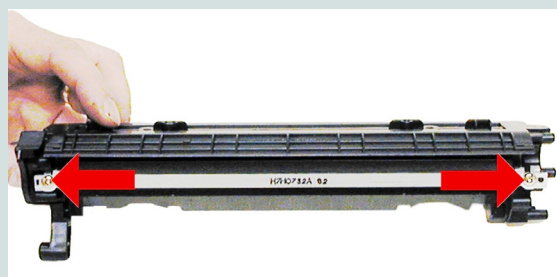
STEP TWENTY-ONE

Install the left side end cap and screw. Make sure the small contact piece is installed correctly on the end cap.



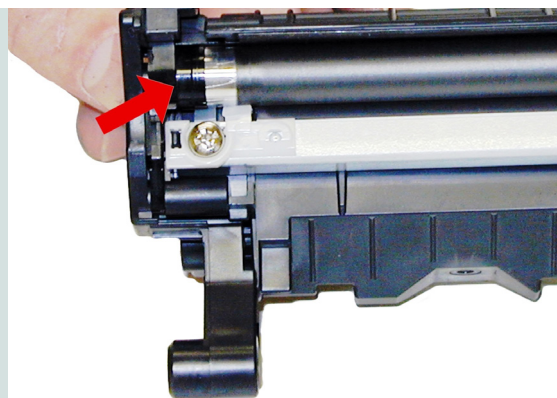
STEP TWENTY-TWO

Install the doctor blade and two screws.



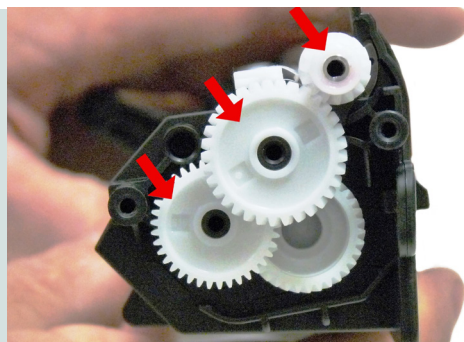
STEP TWENTY-THREE

Install the magnetic roller black bushing side first. Turn the roller until the keyed end locks in place.



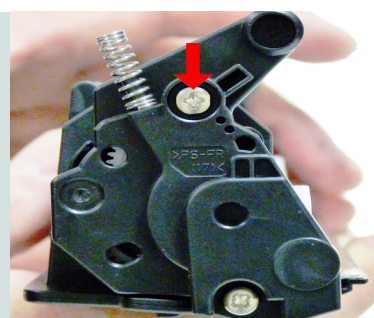
STEP TWENTY-FOUR

Install the gears as shown.



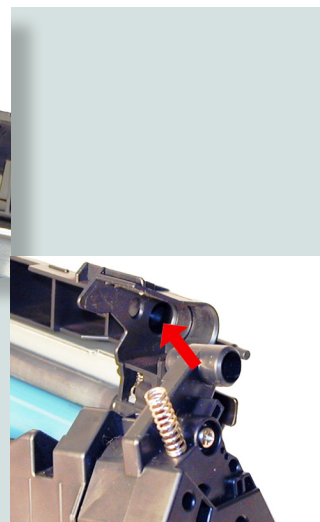
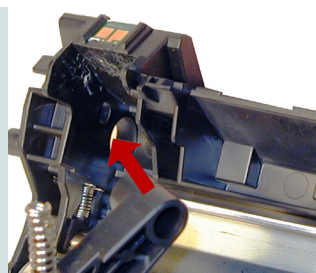
STEP TWENTY-FIVE

Install the end cap and screws.



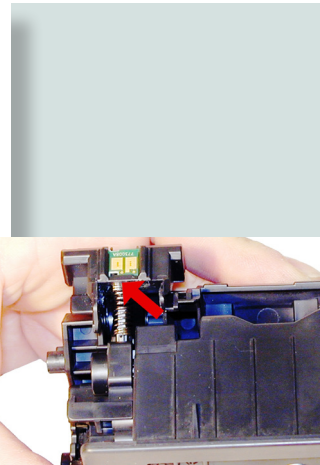
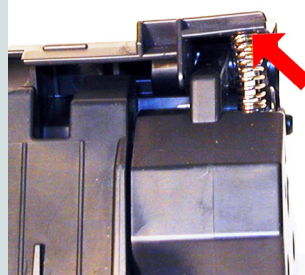
STEP TWENTY-SIX

Place the drum/waste hopper into the toner hopper. Slide it over so the round hinge pins fit into their respective holes.



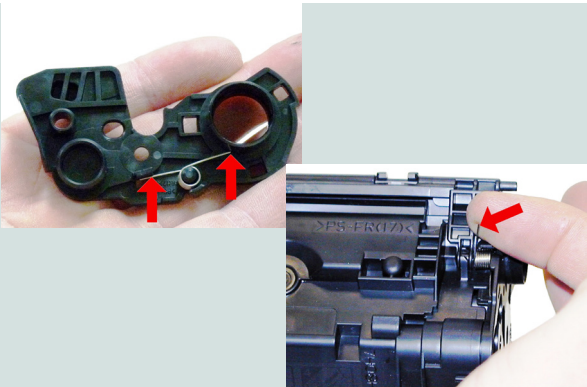
STEP TWENTY-SEVEN

Set the hopper tension springs back in place.



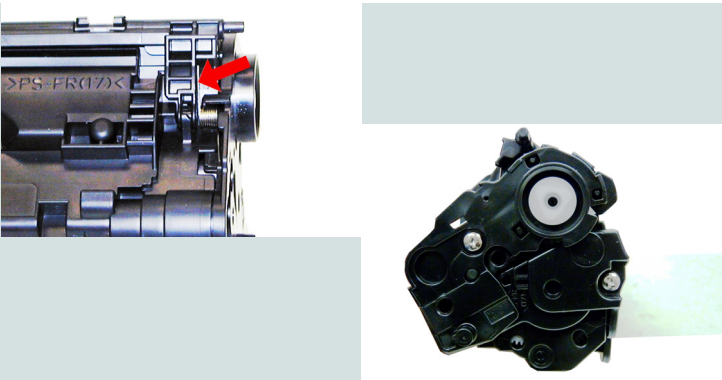
STEP TWENTY-EIGHT

With the drum cover spring as shown on the end cap, install the end cap. Lift up the tail of the spring to fit onto the hopper.



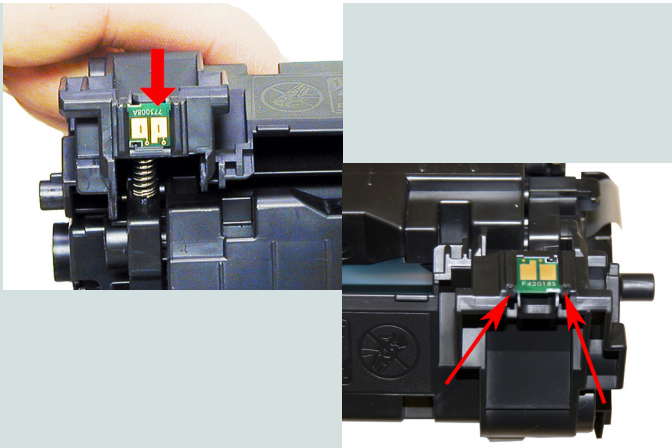
STEP TWENTY-NINE

Lift up the drum cover sprint tail to fit as shown on the drum cover. Install the screw into the cover.



STEP THIRTY

Replace the chip by slicing off the melted chip rails. If the chip seems loose upon installation, you can place small dabs of hot glue on the corners to hold it in place.



Repetitive defect chart	
OPC drum	75mm
Upper fuser film	57mm
Lower pressure roller	56mm
Transfer roller	39mm
Magnetic roller	34mm
PCR	27mm

NOTES

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THE RECYCLER TEAM

Editor & Publisher

David Connett - publisher@therecycler.com

Deputy Publisher

Stefanie Unland – s.unland@therecycler.com

Deputy Editor

William Roszczyk – w.roszczyk@therecycler.com

Journalist

Nicholas Dawson – n.dawson@therecycler.com

Designer

Ian Winter - production@therecycler.com

Publishing Consultant

Anthony Critchley – a.critchley@therecycler.com

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THE RECYCLER

Wittas House, Two Rivers,
Station Lane, Witney,
United Kingdom OX28 4BH

Phone: +44 (0) 1993 899 800

Fax: +44 (0) 1993 226 899

Email: info@therecycler.com

Website: www.therecycler.com

Bureau Office – Australia
Graham McCusker

Phone: +61 (0) 416 813 700

Email: g.mccusker@therecycler.com

Bureau Office – Germany
Stefanie Unland

Phone: +49 (0) 2582 9910 701

Email: info@therecycler.com

Bureau Office – United States
Email: usa@therecycler.com

www.therecycler.com/contactus

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