

SAMSUNG® PROXPRESS M4580

TONER CARTRIDGE REMANUFACTURING INSTRUCTIONS



SAMSUNG MLT-D303E TONER CARTRIDGE

REMANUFACTURING THE SAMSUNG PROXPRESS M4580 TONER CARTRIDGE

By Mike Josiah and the Technical Staff at UniNet

The Samsung ProXpress M4580 series of printers are based on a 47ppm, 1200 Dpi engine. The first page out is stated to be under 6.5 seconds, The M4580 machines are MFP in that they can print, copy, scan and fax. They come built in with Wi-Fi, Google Cloud Print, Samsung Mobile Print, NFC tap and print, and Apple Airprint.

The M4580 comes with 1GB (2GB max) memory installed and has a duty cycle of 200,000 pages per month.

These machines use a two-cartridge system, a toner hopper and a drum unit. The printer comes with a starter cartridge rated for 7,000 pages. As you can see below, the replacement has a dramatically larger yield.

CARTRIDGES USED IN THE M4580FX

Toner:	MLT-D303E	40,000 pages	USD\$168.99*
Drum:	MLT-R303	100,000 pages	USD\$ 99.99*

PRINTERS BASED ON THIS ENGINE*

Samsung ProXpress M4580fx

*As of 9/1/16. Prices in U.S. American Dollars

REQUIRED TOOLS

1. Toner approved vacuum
2. A small common screwdriver
3. A Phillips head screwdriver
4. Needle nose pliers
5. Chisel blade knife
6. Modified soldering iron with 1/2" copper pipe cap to melt a hole

REQUIRED SUPPLIES

1. Replacement toner for use in the Samsung M4580FX
2. Replacement chip
3. Label to cover melted hole
4. Small tube of a good 100% silicone caulk

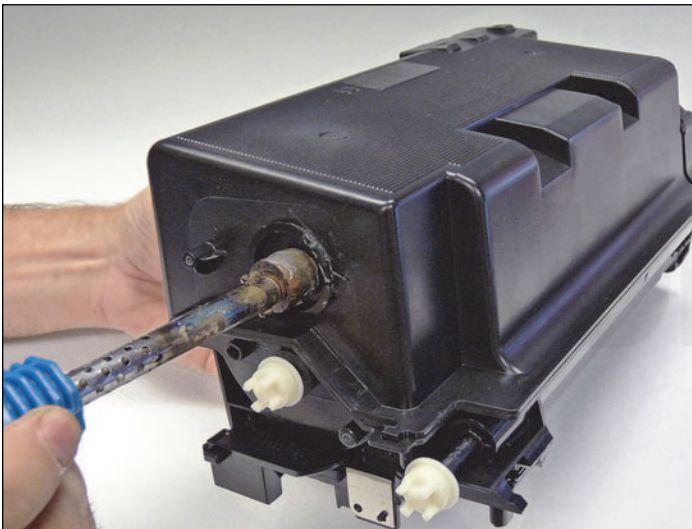




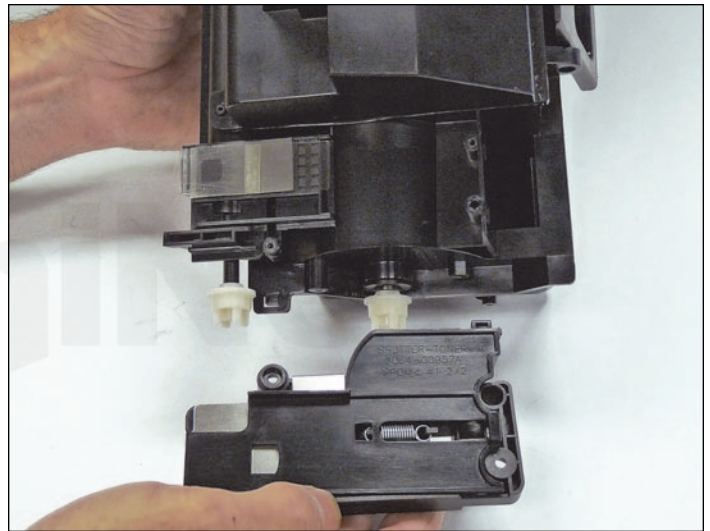
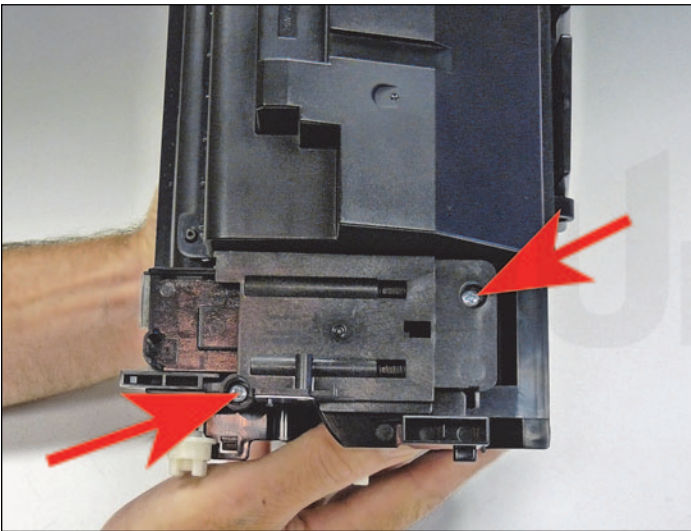
1. Remove the three screws from the drive gear (right) side end cap.



2. Remove the end cap.



3. Using the modified soldering iron, melt a hole either in the middle of the fill plug or right next to it. If you choose to melt it in the fill plug so the hole cannot be seen when done, I highly recommend you seal the edges of the cover label with a good silicone caulk to seal it up. The OEM plugs are glued/welded in place and cannot be removed without damaging the hopper.

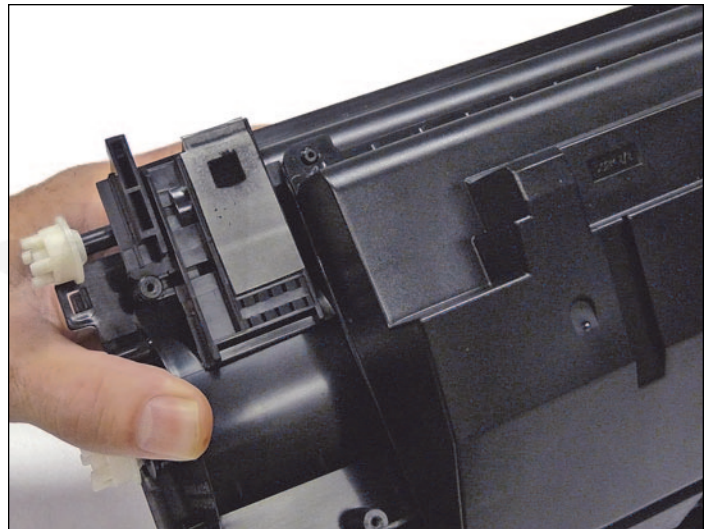
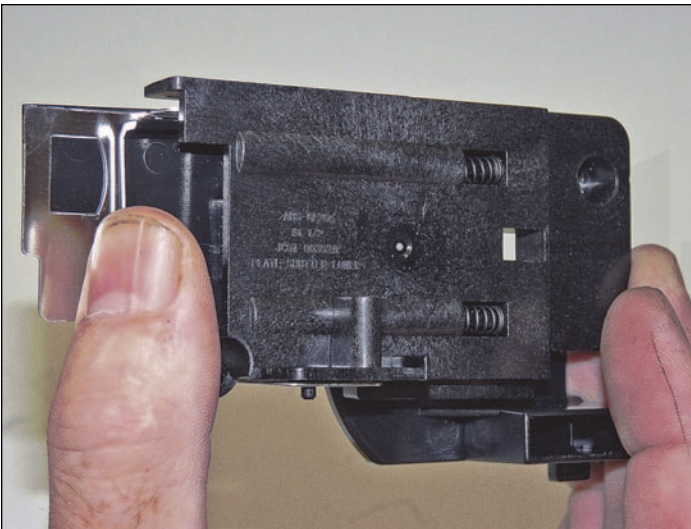


4. Remove all the remaining toner.

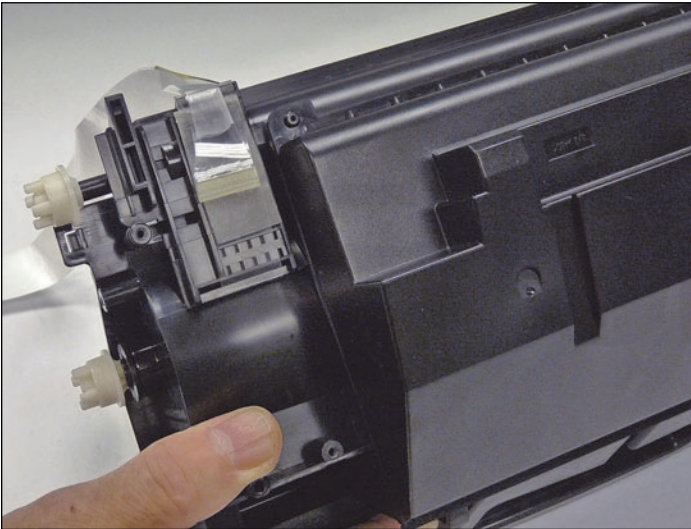
5. Turn the cartridge upside down.

On the right (drive gear) side, remove the two screws for the toner port assembly.

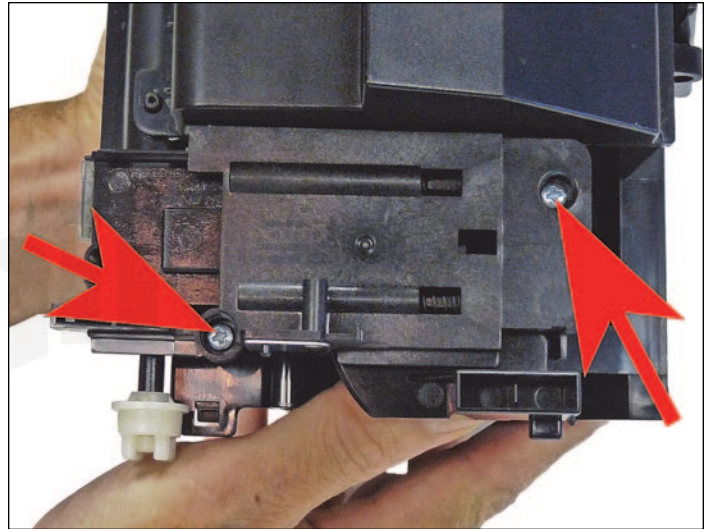
Remove the toner port.



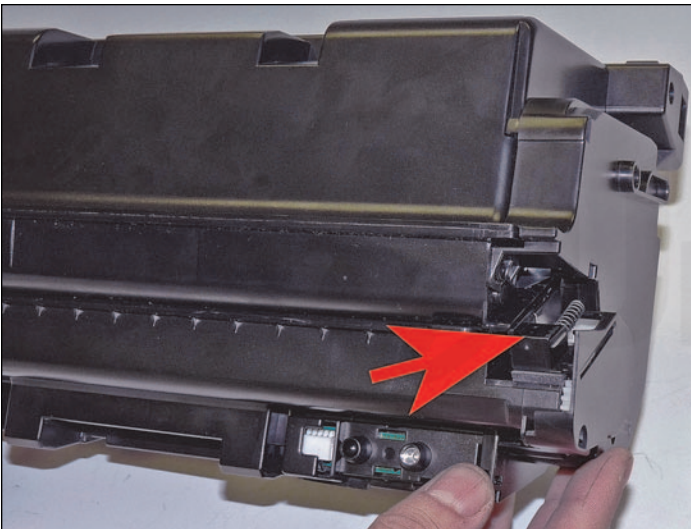
Clean and make sure that the spring-loaded toner port assembly is working properly.



6. When a seal becomes available it should be installed now.



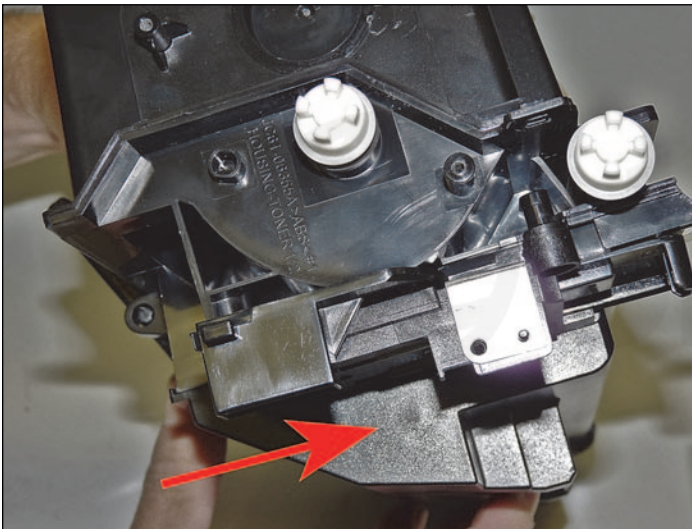
7. Replace the toner port assembly and two screws.



8. On the opposite side of the cartridge, locate the small spring-loaded waste port cover.

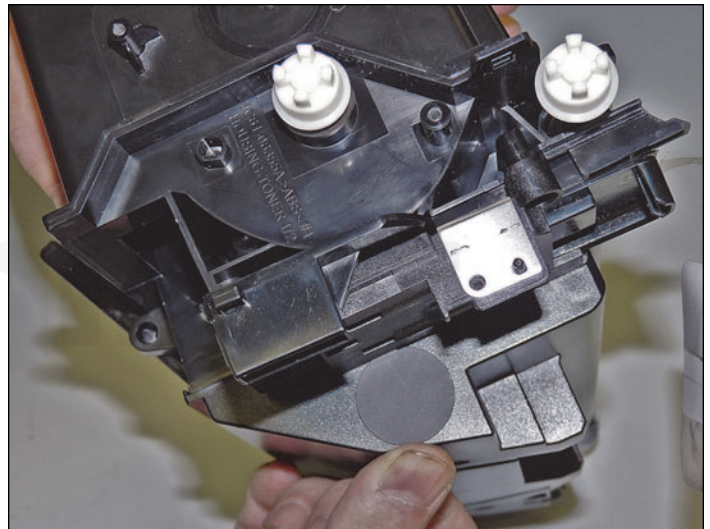
Press in the cover and vacuum the waste chamber clean.



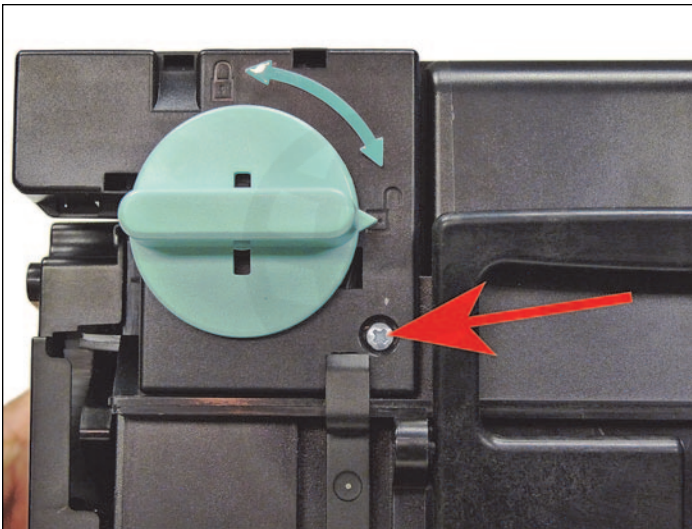


This is a small access point so you may want to melt a hole in the waste chamber to speed things up.

If you place the hole in the side of the waste by the toner port (opposite side of cartridge), it won't be very visible and will not have the weight of the waste toner pressing down on the seal as the cartridge is used.

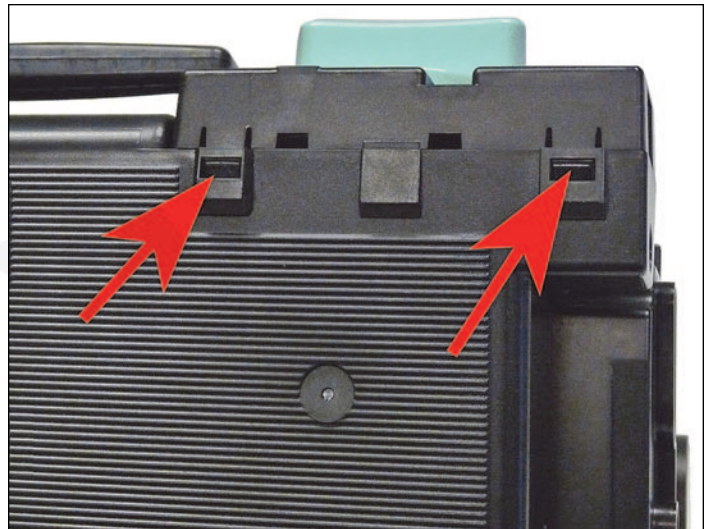


9. If you melted a hole, place a good-quality sealing label over it.

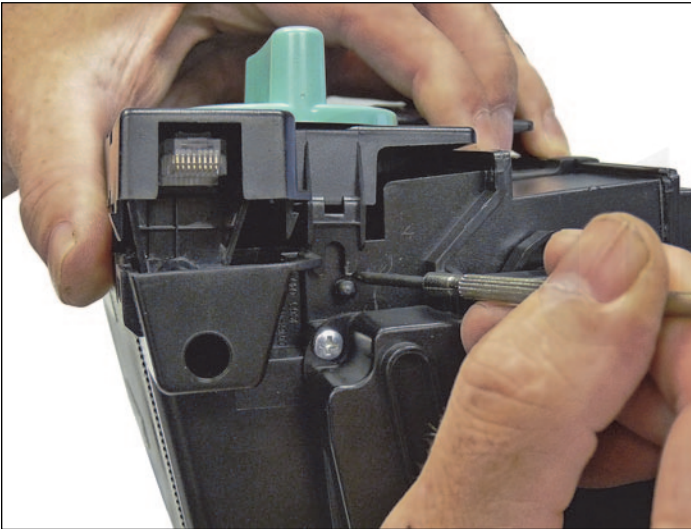


10. Remove the screw on the cover by the large green knob.

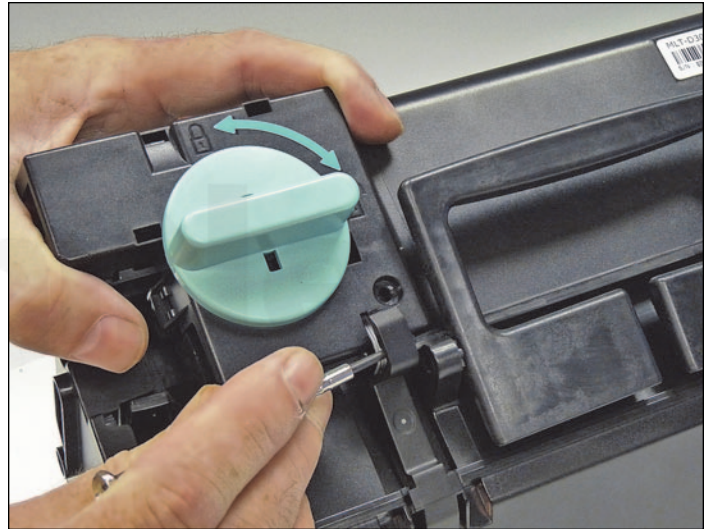
Make sure the knob is turned so that the connector is fully retracted.



11. Press in on the two bottom tabs.

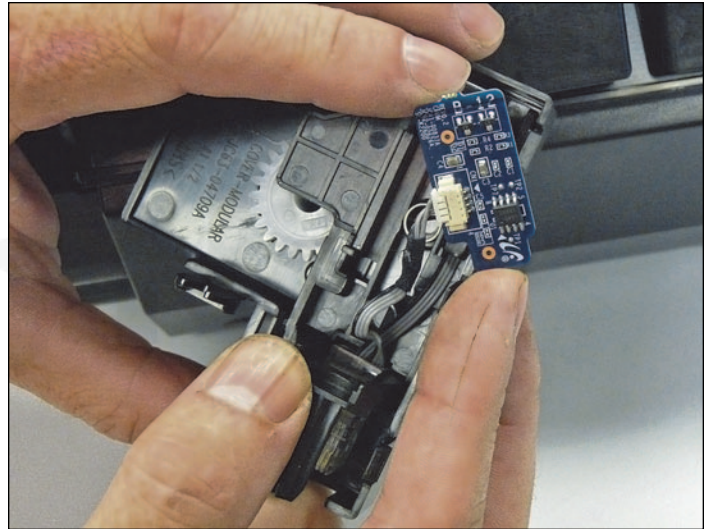
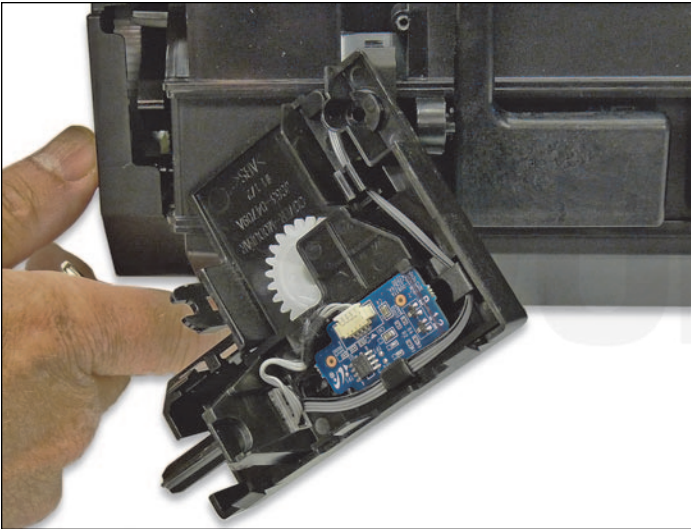


12. Pry the cover up from the side pin guide.

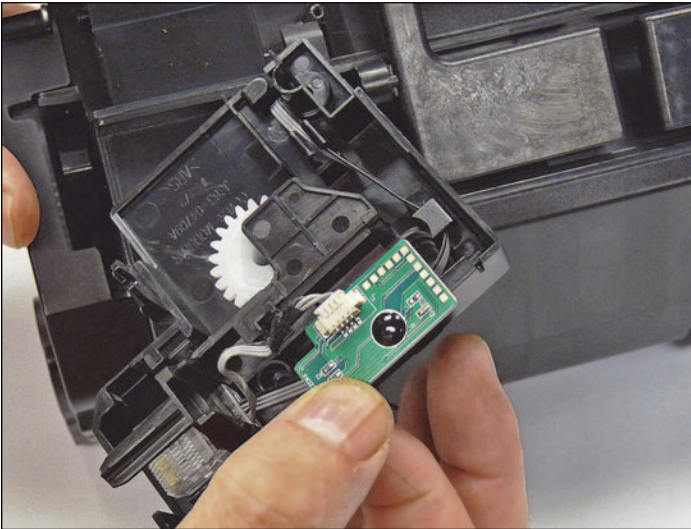


13. Lift up the wire cover so that the chip cover comes free.

There is a small tab on the wire cover.



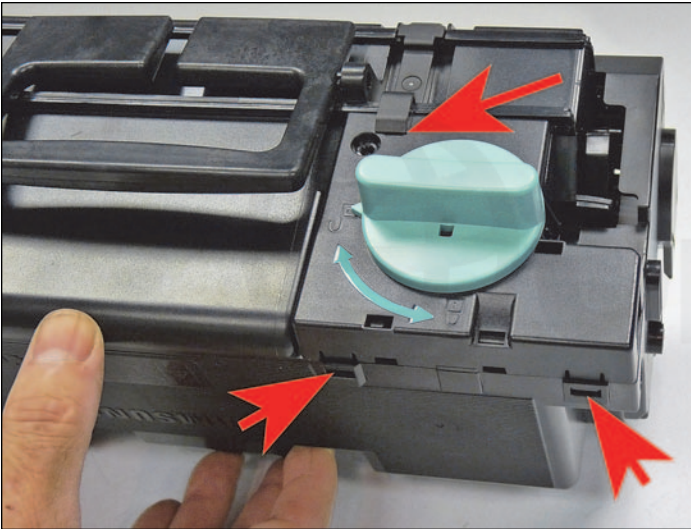
14. Lift up the chip board and remove from the cover.



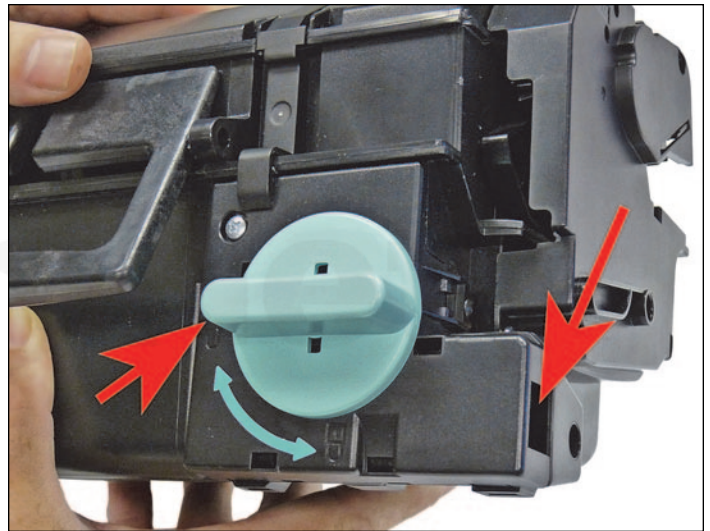
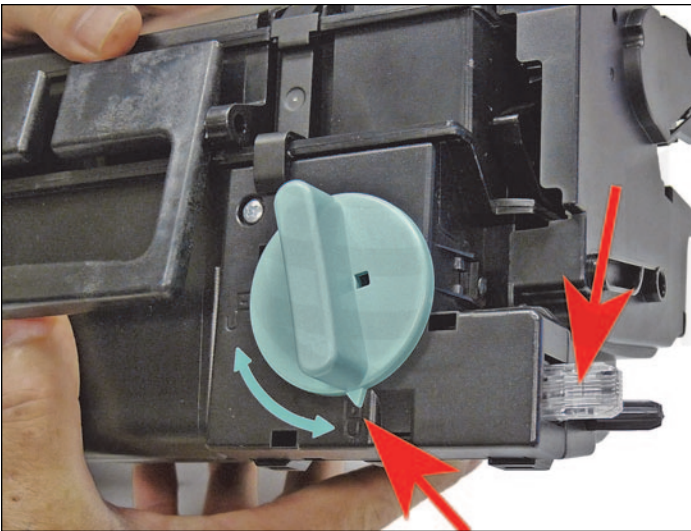
15. Remove the connector from the board, replace the chip and reconnect the wire connector.



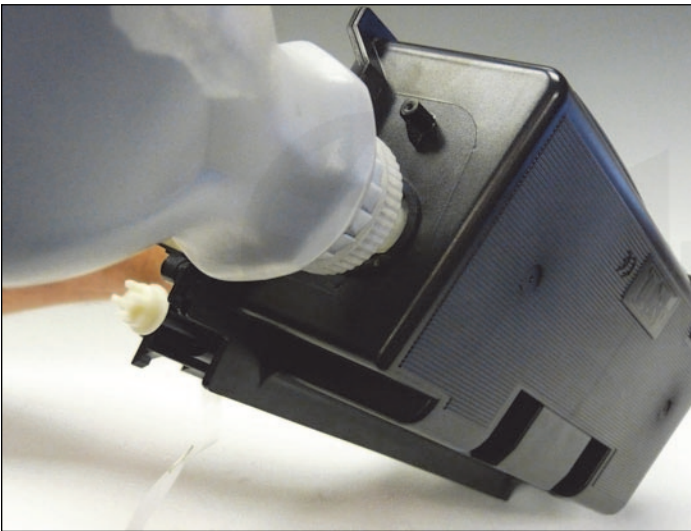
16. Replace the chip in the holder and tuck the wires in.



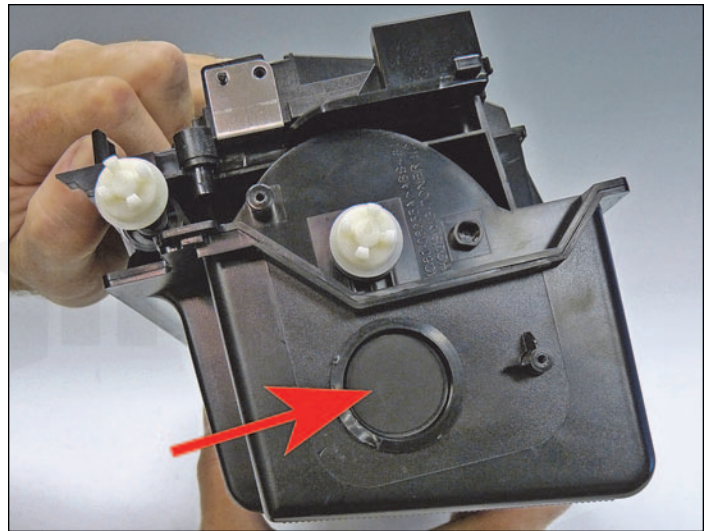
17. Snap the chip assembly back in place. Make sure the two bottom tabs are locked and the wire cover is locked in place. Replace the screw.



18. Make sure that the connector extends and retracts properly by turning the green knob.



19. Fill the supply chamber with toner for use in the Samsung ProXpress M4580.



20. Place the sealing label over the fill hole. Seal the edges of the label with a high quality 100% silicone caulk.



21. Install the cover and three screws.