SAMSUNG SF-560R

CARTRIDGE REMANUFACTURING INSTRUCTIONS

THE SAMSUNG SF-560R TONER CARTRIDGE



DOC# 0451

By Mike Josiah and the technical staff at Summit Technologies - a distributor of Summit and Uninet Products.





Remanufacturing the Samsung SF-560R Toner Cartridge



THE SF-560R TONER CARTRIDGE

irst introduced in May 2008, the Samsung SF-560R engine is a Laser based fax engine. These machines are fax only and come with a new cartridge, the SF-D560RA.

Samsung created a very confusing issue here with very similar machine model numbers. This has already proven to be very confusing to many people. The problem is that the older machines in this series have models numbers of SF-560 and SF-565P. These machines use cartridge # SCX-4216D3. The new machines have model numbers of SF-560R and SF-565PR and use a new and different cartridge the SF-D560RA. Besides being physically different enough so they do not fit into the other machine, the older SCX-4216 cartridge uses a fuse to reset the machine, and the SF-D560RA cartridges uses a new chip.

Figures 1-8 show the differences between the two cartridges.

As with most Samsung cartridge, these cartridges do not have a drum cover, and come new with a piece of heavy paper taped around the cartridge.



The standard cartridge (Samsung part# SF-D560RA) comes new with 90g toner, and is rated for 3,000 pages at 5% coverage. The starter cartridges that come with the machines however are only rated for 1000 pages.



Figure 1



3232 West El Segundo Blvd., Hawthorne, California 90250 USA • Ph +1 424 675 3300 • Fx +1 424 675 3400 • techsupport@uninetimaging.com

www.uninetimaging.com



Required Tools

Toner approved vacuum. Small Common screw driver Phillips head screwdriver Needle nose pliers

Required Supplies

90g SF-560R Toner (Preliminary amount) Replacement chip (In development) New OPC drum Developer roller Cleaning blade Doctor blade PCR Conductive Grease Drum lubricating powder

Disassembly

1) Remove the two screws on the right side end cap. See **Figure 9**



2) Pry up on the fill plug cover with a small jewelers screwdriver. Remove the end cap. See **Figure 10**



Figure 10



3) Place the cartridge with the handle facing up. Remove the 5 top cover screws. See **Figure 11**

Figure 11



4) Underneath the handle of the cartridge to the right and left, there are 2 plastic tabs GENTLY pry them up, and lift the back side of the cover up. See **Figure 12**



Figure 12

5) On the front edge of the cartridge, there are two more tabs. Press these two tabs in, and lift the cover off. See **Figure 13**



Figure 13

CAUTION: The upper half of the toner hopper is being removed. If there is a lot of toner left in the hopper, it can dump out all over! Vacuum the hopper clean. 6) On the remaining end cap, remove the two screws. Remove the end cap. See **Figure 14**



7) On the right side there is a series of gears under the end cap. Make a note of the location of each gear, and remove them. See **Figure 15**



8) Remove the PCR. See Figure 16



9) Clean the PCR with your normal PCR cleaner.

WARNING: Do not clean the OEM PCR with alcohol, as this will remove the conductive coating from the roller. If the PCR is an aftermarket, follow the cleaning methods recommended by the manufacturer. If the PCR is an OEM, we recommend it be cleaned with your standard PCR cleaner.

10) Remove the single screw on the PCR cleaning assembly and gently pry the blade up. Note that there are not any alignment tabs or posts to worry about. This PCR cleaner also has what can be considered a wiper blade. It is a very flimsy blade attached to the metal bar. Wipe this blade down with a clean lint free cloth before re-installing. See **Figures 17 & 18**



Figure 17



11) It is very important that the PCR cleaner be cleaned. Vacuum or blow off any residual toner from the foam/felt.

Figure 16





12) With the PCR Cleaner Assembly removed, the drum can easily be removed by lifting it out. See **Figure 19**



Figure 19

13) Clean out any remaining toner from the cartridge.

14) Press in on the bottom tab of the Developer roller plate (Right Side) to release it. See **Figure 20**



15) Slide the entire plate towards the edge of the developer roller cavity, and lift up. The Plate should come loose. You may have to remove the metal washer on the developer roller shaft to remove the plate. You can also just leave the washer and plate on the roller shaft if that's easier for you. See **Figure 21**

Figure 21



16) Remove the Developer Roller. Be careful not to damage or lose the flat washers on the roller. I left the plate and washer on the roller shaft here. See **Figure 22**



Figure 22

17) It is highly recommended that the Doctor Blade be cleaned. Failure to do so can cause streaking. The Doctor Blade can be cleaned without removing it. Dampen a cotton swab with alcohol, and clean the blade. Be careful not to press too hard and damage the blade. If the blade has a heavy buildup of toner on it, clean it with Acetone, and then alcohol. Replacement doctor blades are available if your blade is damaged or worn. See **Figure 23**



18) Replace the Developer roller, and flat washers. See **Figure 24**



Figure 24



3232 West El Segundo Blvd., Hawthorne, California 90250 USA • Ph +1 424 675 3300 • Fx +1 424 675 3400 • techsupport@uninetimaging.com www.uninetimaging.com

Figure 20

19) If no grease is left on the gears and gear shafts, or it is contaminated with toner clean it all off. Replace it with white lithium grease. Be sure to clean and grease the gear shafts, and inside the gear.

20) Replace the roller plate and 5 gears. When installing the plate, do the opposite of how it came out. Keep it towards the front edge so that the small tab on top fits behind the wall of the cartridge. Look carefully at the picture of the gears. Each gear must fit in this exact way. The gears labeled in order of installation. See **Figures 25 & 26**



21) Install the new drum in place. See Figure 27



Figure 27



22) Install the PCR cleaner Assy. and screw. The right side of the assembly has fingers that fit into the cartridge wall. See **Figures 28 & 29**





23) Clean the conductive grease off the left side end cap and replace with fresh grease. Make sure the PCR fits correctly in its holder, and all the gears are aligned. Replace the end cap and two screws. See **Figure 30**

Figure 30





24) Install the PCR. See Figure 31



25) Remove the fill plug from the top cover. See **Figure 32**



27) Carefully snap the cover on making sure all the tabs lock in place. See **Figure's 34 & 35**



Figure 34



28) Install the five screws in the top cover. See **Figure 36**

Figure 36

26) Replace the chip inside the top cover. See **Figure 33**





Figure 33





3232 West El Segundo Blvd., Hawthorne, California 90250 USA • Ph +1 424 675 3300 • Fx +1 424 675 3400 • techsupport@uninetimaging.com

www.uninetimaging.com

29) Fill the hopper with the SF-560 toner. See Figure 37



Figure 37

30) Install the fill plug, check for leaks. See figure 38



Figure 38

31) Install the remaining end cap and two screws. Make sure the top of then end cap snaps into place over the fill plug. See **Figures 39 & 40**



Figure 40

Printing a Test Page

The best way to run test pages is simply to make a copy. Take a printed page with both text and graphics, and run a few copies.

Machine error codes

As with most of the newer Samsung models, the error codes are all in English and are self-explanatory. The biggest problems you will run into are paper jams, and a dirty scanner. Keeping the machine clean with periodic maintenance will take care of most of them.





3232 West El Segundo Blvd., Hawthorne, California 90250 USA • Ph +1 424 675 3300 • Fx +1 424 675 3400 • techsupport@uninetimaging.com

www.uninetimaging.com