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Samsung® CLP-300



Samsung® CLP-350

Purpose of this SSS

The purpose of this SSS is to provide you a guide and the basic information needed to remanufacture a Samsung® CLP-300/350 toner cartridge. This SSS contains information about:

- Remanufacturing the cartridge
- Basic cleaning

Your cartridge might have been changed by the original equipment manufacturer (OEM) and include parts or features which are not described in this documentation. The documentation might be updated occasionally to include information about those changes, or technical updates might be available from the SCC Web site.

Visit www.scc-inc.com/Library/ to check for updated documentation and technical updates:

Before you begin, read the entire SSS to familiarize yourself with the procedures and take notes.

Be sure to follow all necessary safety precautions while working with tools, and chemicals, such as toner and alcohol.

Use of Compressed Air

As of April 28, 1971, the Occupational Safety & Health Administration (OSHA) Standard, 29 CFR 1910.242 paragraphs a & b for general industry requires effective chip guarding and personal protective equipment (PPE) when using compressed air. When cleaning residual toner particles from cartridges using a compressed air system, you must use air nozzles meeting OSHA requirements. Air nozzles that regulate air pressure to a maximum of 30 psi comply with this standard. Refer to the OSHA publication for any updates or changes that have occurred since the date noted above.

CARTRIDGE REMANUFACTURING INSTRUCTIONS FOR: **SAMSUNG® CLP-300/350 TONER CARTRIDGE** (SAMSUNG® CLX-3160, SAMSUNG® CLX-2160, XEROX® 6110/6110MFP)

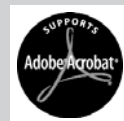
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Illustrations

The illustrations and photos in this document might differ slightly from your cartridge. Every effort is made to include the most up to date photos and illustrations at the time of printing. However, the OEM may make changes which were not available at the time of printing.

Safety

Statement 1: Always wear eye protection while operating power tools.

Statement 2: Always wear eye protection and protective clothing while working with toner and or other chemicals.

Statement 3: Do not swallow or ingest toner, isopropyl alcohol, toner dust, or any chemicals or materials used in the process of remanufacturing

Additional Tools & Supplies

Additional Items:

- Qualified toner
- HP1320 Hopper Cap (HP1320HCAP)

For Basic Remanufacturing:

- Angled Blade Knife (ABKTOOL)
- Compressed air for cleaning
- Lint-free cleaning cloth (LFCLOTH)
- 91-99% isopropyl alcohol
- Narrow Toner Pour Spout (TPS-90)
- Hopper Entry & Chip Placement Kit (SAM300HEKIT)
- Hopper Entry Jig Upgrade (SAM350KHEJIGUPG)
(Note: For CLP-350 Black cartridge only)

The following is a summary of the printer information for the Samsung® CLP-300/350. This information were obtained from the OEM's website and is considered to be the most up to date information at the time of printing.

	Samsung® CLP-300	Samsung® CLP-300N	Samsung® CLX-2160 (UK)	Samsung® CLX-3160	Samsung® CLP-350N
Printer Information					
Printer Introduction Date	February 2006	February 2006	February 2006	February 2006	February 2006
Printer Introduction Price	\$300	\$350	\$550	\$600	N/A
Print Resolution (dpi)	2400 x 600	2400 x 600	2400 x 600	2400 x 600	2400 x 600
Print Speed (pages per min)	17 ppm black 4 ppm color	17 ppm black 4 ppm color	17 ppm black 4 ppm color	17 ppm black 4 ppm color	19 ppm black 5 ppm color
RAM	32 MB	64 MB	128 MB	128 MB	128 MB
Cartridge Information					
OEM Rated Page Yield	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages	4,000 black pages 2,000 color pages

printer & cartridge specifications

The following is a summary of the cartridge information for the Samsung® CLP-300/350.

	Samsung® CLP-300 /CLX-3160	Samsung® CLP-300N /CLX-2160 (UK) /CLX-3160	Samsung® CLP-350N
Cartridge OEM Part #			
Black	CLP-K300A / XAA	CLP-K300A / SEE	CLP-K350A
Magenta	CLP-M300A / XAA	CLP-M300A / SEE	CLP-M350A
Cyan	CLP-C300A / XAA	CLP-C300A / SEE	CLP-C350A
Yellow	CLP-Y300A / XAA	CLP-Y300A / SEE	CLP-Y350A
Imaging Unit	CLP-R300A / XAA	CLP-R300A / SEE	CLP-R350A
Waste Toner Bottle	CLP-W300A / SEE	CLP-W300A / SEE	CLP-W350A

The following is a summary of the printer information for the Xerox® 6110. This information was obtained from the OEM's web site and is considered to be the most up to date information at the time of printing.

	Xerox® 6110B	Xerox® 6110N	Xerox® 6110MFP/S	Xerox® 6110MFP/X
Printer Information				
Printer Introduction Date	February 2006	February 2006	February 2006	February 2006
Printer Introduction Price	\$299	\$329	\$649	\$749
Print Resolution (dpi)	2400 x 600	2400 x 600	2400 x 600	2400 x 600
Print Speed (pages per min)	17 ppm black 4 ppm color	17 ppm black 4 ppm color	17 ppm black 4 ppm color	17 ppm black 4 ppm color
RAM	32 MB	64 MB	128 MB	128 MB
Cartridge Information				
OEM Rated Page Yield	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages	2,000 black pages 1,000 color pages

The following is a summary of the cartridge information for the Xerox® 6110.

	Xerox® 6110/6110MFP
Cartridge OEM Part #	
Black	106R01274
Magenta	106R01272
Cyan	106R01271
Yellow	106R01273
Imaging Unit	208R00744
Waste Toner Bottle	108R00722

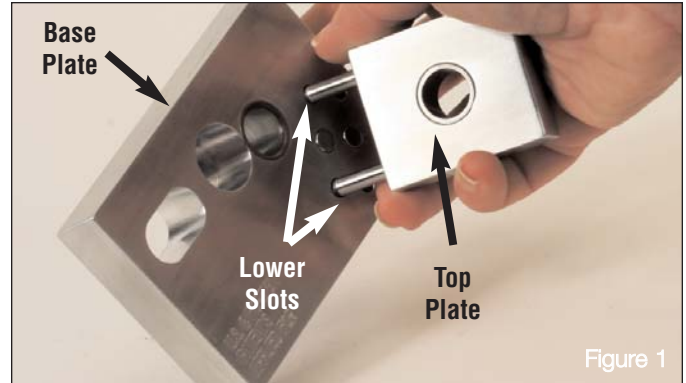


Remanufacturing the Color Toner Cartridge

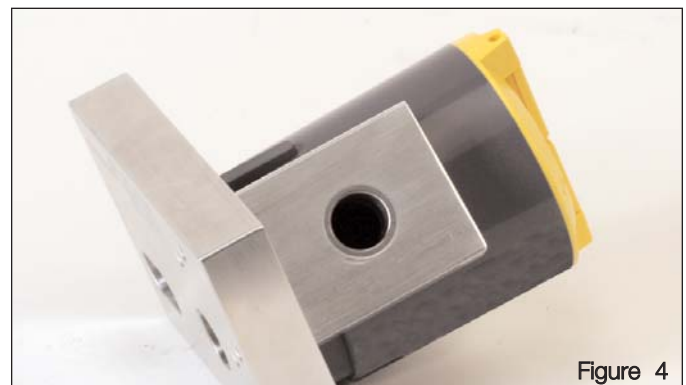
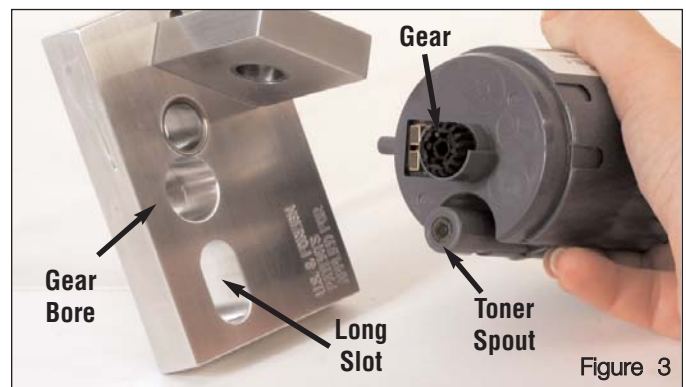
REMANUFACTURING THE SAMSUNG® CLP - 300/350 COLOR TONER CARTRIDGE

The following steps apply to the Samsung® CLP-300/350 color toner cartridges (cyan, magenta, & yellow). Refer to page 7 for the CLP-300 black cartridge and refer to page 9 for the CLP-350 black cartridge.

1. Fit the dowels of the hopper entry jig top plate into the lower slots of the hopper entry jig base plate as shown in Figure 1 & 2.



2. In order to insert the toner cartridge onto the hopper entry jig, place the toner spout into the long slot of the base plate and the gear into the gear bore as shown in Figure 3 & 4.



Important: Eye protection should be worn for steps 3, 4 & 5.

3. Hold the cartridge and jig firmly. Using the drill bit, drill into the opening of the hopper entry jig top plate as shown in Figure 5.
4. Using slight forward pressure, drill until the collar of the drill bit is flush with the hopper entry jig top plate.

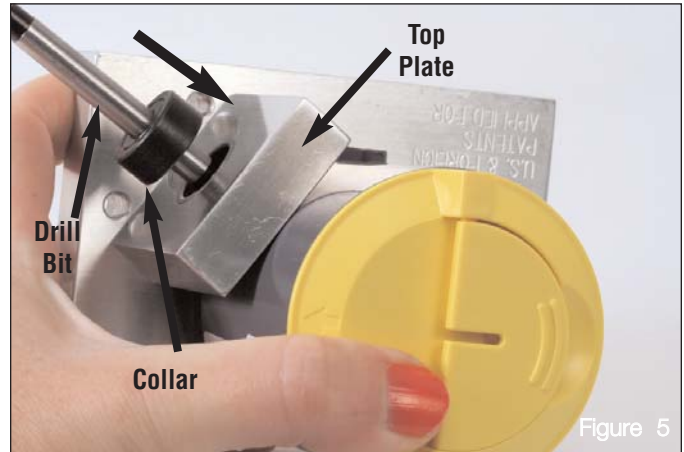


Figure 5

5. Hold the cartridge and jig firmly. Drill the second hole into the cartridge as shown in Figure 6. Remove the cartridge from the jig.

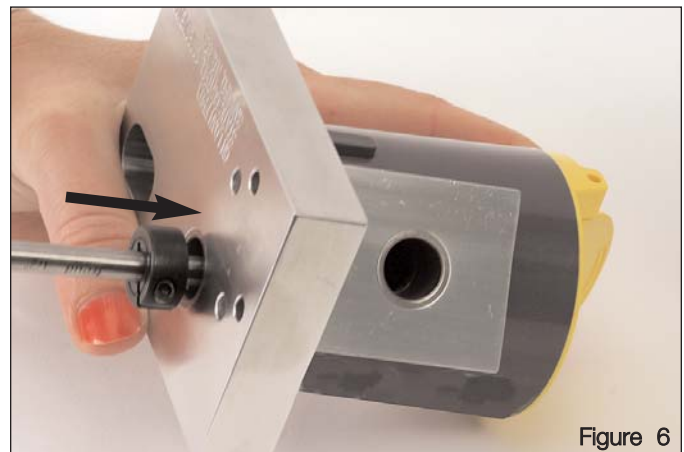


Figure 6

6. Using an angle blade knife, deburr both drilled holes as shown in Figure 7.



Figure 7

remanufacturing the toner cartridge

7. Dump out any excess toner and plastic shavings. Clean the cartridge using dry, filtered compressed air as shown in Figure 8.



Figure 8

8. Shake the cartridge to ensure that no plastic parts remain.

Note: Plastic shavings inside the cartridge could cause the toner spout to clog resulting in problems during printing.

9. Fill the cartridge with the appropriate color toner as shown in Figure 9.



Figure 9

10. Clean the surface area around the toner fill hole with 91-99% isopropyl alcohol. See Figure 10.



Figure 10

11. Remove the backing from the hopper cap as shown in Figure 11a. Place the hopper cap on the cartridge as shown in Figure 11b.

Note: For chip installation instruction, please refer to SSS# 932 Samsung® CLP-300/350 Chip Solution.

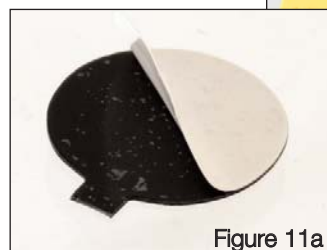


Figure 11a

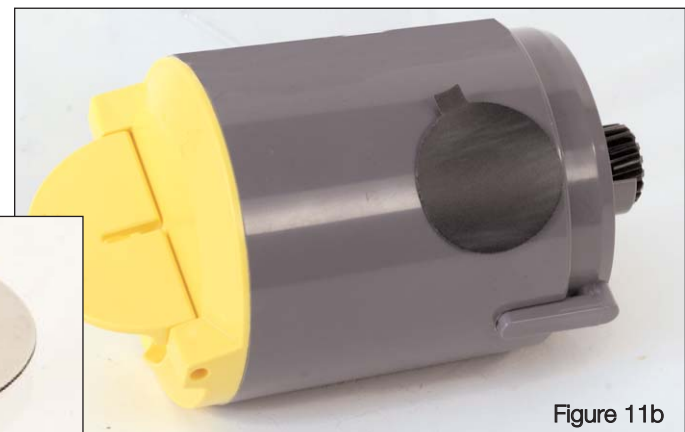


Figure 11b



Remanufacturing the CLP-300 Black Toner Cartridge

REMANUFACTURING THE SAMSUNG® CLP - 300 BLACK TONER CARTRIDGE

The following steps apply to the Samsung® CLP-300 black toner cartridges.

1. Fit the dowels of the hopper entry jig top plate into the lower slots of the hopper entry jig base plate as shown in Figure 12 & 13.

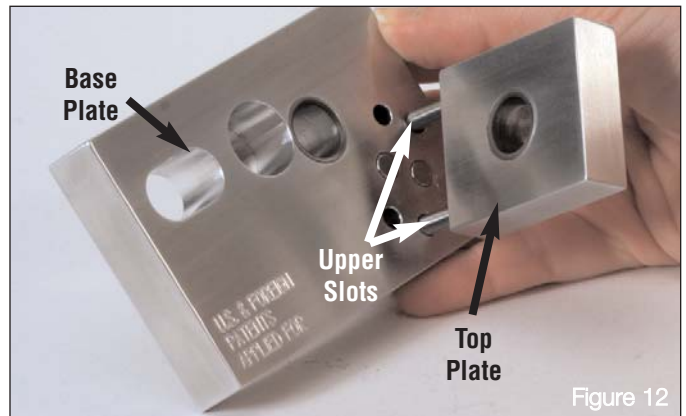


Figure 12



Figure 13

2. In order to insert the toner cartridge onto the hopper entry jig, place the toner spout into the long slot of the base plate and the gear into the gear bore as shown in Figure 14 & 15.

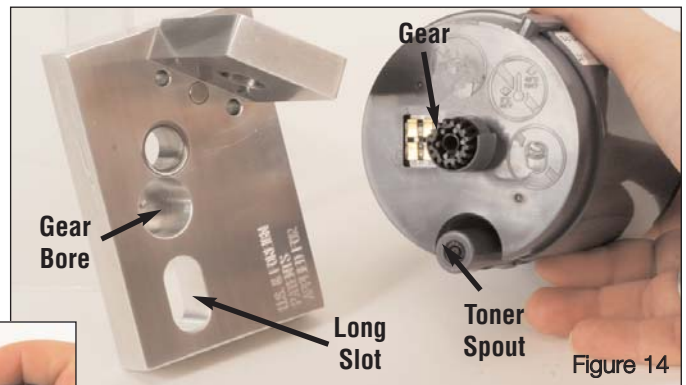


Figure 14

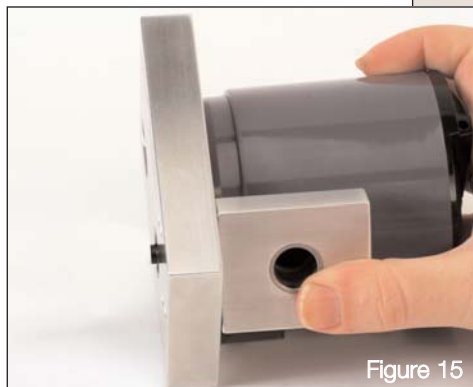


Figure 15

remanufacturing the toner cartridge

Important: Eye protection should be worn for steps 3, 4 & 5.

3. Hold the cartridge and jig firmly. Using the drill bit, drill into the opening of the hopper entry jig top plate as shown in Figure 16.



Figure 16

4. Using slight forward pressure, drill until the collar of the drill bit is flush with the hopper entry jig top plate.

5. Hold the cartridge and jig firmly. Drill the second hole into the cartridge as shown in Figure 17. Remove the cartridge from the jig.



Figure 17

6. Using an angle blade knife, deburr both drilled holes as shown in Figure 18.



Figure 18

Note: For cleaning, filling and sealing information continue to page 11.



Remanufacturing the CLP-350 Black Toner Cartridge

REMANUFACTURING THE SAMSUNG® CLP - 350 BLACK TONER CARTRIDGE

The following steps apply to the Samsung® CLP-350 black toner cartridges.

1. Fit the dowels of the hopper entry jig top plate into the upper slot of the hopper entry jig base plate as shown in Figure 19 & 20.

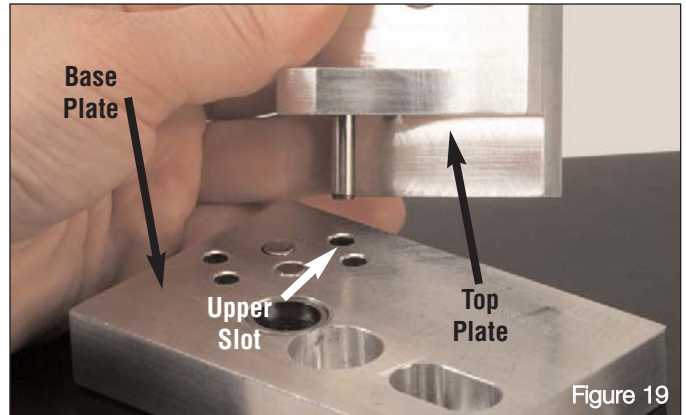


Figure 19



Figure 20

2. In order to insert the toner cartridge onto the hopper entry jig, place the toner spout into the long slot of the base plate and the gear into the gear bore as shown in Figure 21 & 22.

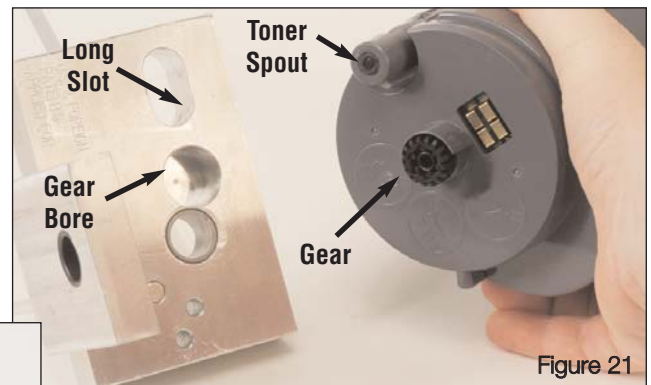


Figure 21



Figure 22

remanufacturing the toner cartridge

Important: Eye protection should be worn for steps 3, 4 & 5.

3. Hold the cartridge and jig firmly. Using the drill bit, drill into the opening of the hopper entry jig top plate as shown in Figure 23.

4. Using slight forward pressure, drill until the collar of the drill bit is flush with the hopper entry jig top plate.

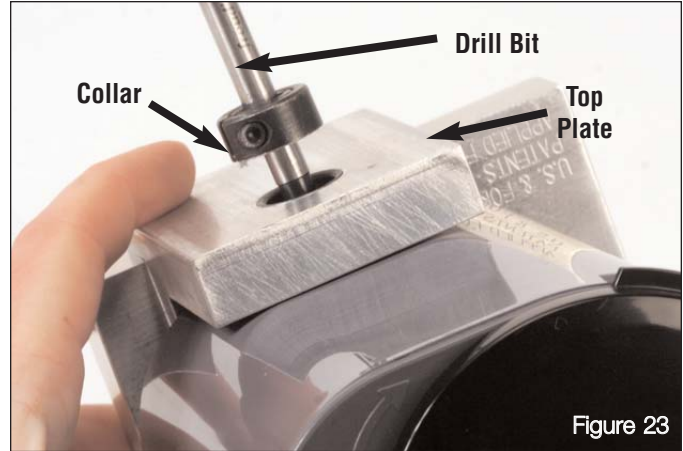


Figure 23

5. Hold the cartridge and jig firmly. Drill the second hole into the cartridge as shown in Figure 24. Remove the cartridge from the jig.

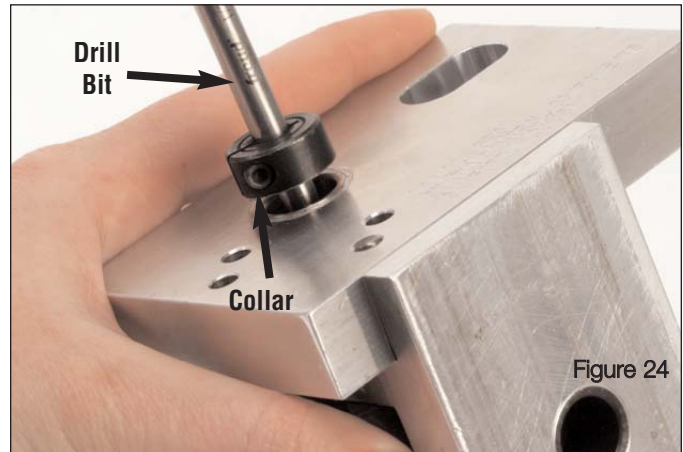


Figure 24

6. Using an angle blade knife, deburr both drilled holes as shown in Figure 25.



Figure 25



Cleaning and Filling the Black Toner Cartridge

REMANUFACTURING THE SAMSUNG® CLP - 300/350 BLACK TONER CARTRIDGE

Note: For instructional purposes, the photographs are of the CLP-300 black cartridge.

1. Dump out any excess toner and plastic shavings. Clean the cartridge using dry, filtered compressed air as shown in Figure 26.



Figure 26

2. Shake the cartridge to ensure that no plastic parts remain.

Note: Plastic shavings inside the cartridge could cause the toner spout to clog resulting in problems during printing.

3. Fill the cartridge with black toner as shown in Figure 27.



Figure 27

4. Clean the surface area around the toner fill hole with 91-99% isopropyl alcohol. See Figure 28.



Figure 28

5. Remove the backing from the hopper cap as shown in Figure 29a. Place the hopper cap on the cartridge as shown in Figure 29b.

Note: For chip installation instruction, please refer to SSS# 932 Samsung® CLP-300 Chip Solution.

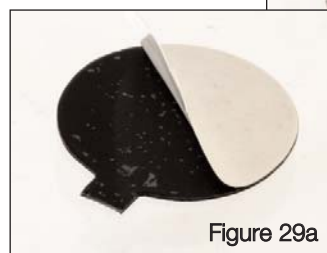


Figure 29a



Figure 29b

MOVING AT THE SPEED OF NEW TECHNOLOGY

The development of cartridge imaging systems is the primary mission of our Imaging Labs. Through extensive testing and research, we develop the optimum combination of matched components for each cartridge system. Our engineering and manufacturing expertise provides us with total control in design, quality and development to produce products from the ground up. The result is a system of components that seamlessly work together in each cartridge application.

This dedication and commitment results in integrated cartridge systems that Static Control fully supports, allowing you to quickly attack new market opportunities with complete confidence in the reliability and performance of your cartridges.



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