

LICENSE AGREEMENT

Static Control Components, Inc. (Static Control) grants this limited license to the person, firm or corporation (hereinafter "User) downloading electronically or by printing this file to use Static Control's copyrighted documents in accordance with the terms of this agreement. If you agree with the terms of the license then you may download this information. If you do not agree with the terms of the license, then you are not authorized to use this information, and any use of it may be in violation of Static Control's copyrights or trademarks.

TRADEMARKS

The Static Control material herein may make reference to its own trademarks, or trademarks of others. Static Control grants a limited license to the User to use Static Control's trademarks in its internal documents and for its internal purposes on the following terms and conditions. Any use of Static Control's trademark must be used in a context which makes it clear that the product reference is a Static Control Components, Inc. product, and not a product from any source.

The materials provided to the User may include reference to trademarks of others. Any use of the User makes of these marks should reference the owner of those marks. Nothing in this agreement constitutes any authorization by Static Control to use any of these trademarks in any context.

COPYRIGHTS

Static Control grants a limited license to the User to use the attached copyrighted documents. The permitted use of these documents is limited to internal purposes and needs of the company. The company is prohibited from using these copyrighted documents, or any part of them, including graphic elements, in any materials that are used outside the physical business location of the User. The User is prohibited from using any materials in any documents whether printed or electronic, which are distributed to any third party. The use of these copyrighted documents, or parts of them, including graphic elements, from these documents in marketing material, either print, electronic or web is prohibited. The sale, transfer, copying of these documents or any parts of these documents to any other party is prohibited.

Static Control Components, Inc. retains all rights to its copyrighted documents, and any use of these documents by User should reference Static Control's copyrights, with the notice "copyright Static Control Components, Inc."

Static Control reserves the right to cancel this license on 30-days written notice. All of the User's material incorporating Static Control's copyrighted documents shall be destroyed upon receipt of its notice of termination.

The User may not distribute, share, and otherwise convey the copyrighted documents to any other persons, corporations or individuals.

The User, by use of these documents, acknowledges Static Control's copyright in these materials.

STATIC CONTROL DOES NOT GUARANTEE OR WARRANT DOWNLOADED INFORMATION

The information User is downloading is published by Static Control in "as is" condition "with all faults". Static Control makes no representations or warranties of any kind concerning the quality, safety, or suitability of the downloadable materials, either express or implied, including without limitation any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. Further, Static Control makes no representations or warranties as to the truth, accuracy or completeness of any statements, information or materials concerning items available for download. In no event will Static Control be liable for any indirect, punitive, special, incidental, or consequential damages however they may arise even if Static Control has been previously advised of the possibility of such damages.



Hewlett Packard® LaserJet® 1000/1200/1220 (HP1000/1200/1220) Remanufacturing Instructions



Printer Availability

The HP LaserJet® 1200 printer and 1220 printer/copier/scanner were introduced in April 2001 as replacements for the popular LaserJet 1100/1100a, and included a number of features considered innovative at the time of release. For example, unlike the top-loading HP1100, the toner cartridge installs into the front of the machines, making them ideal for desktop use. The instant-on fuser allows for a first-page-out time of less than 10 seconds, and their print speed of 15 ppm is nearly double that of the HP1100/1100a. Instead of being gear-driven like their predecessors, the 1200 and 1220 use a more reliable spline drive. Both support USB and parallel ports and can be connected to two computers at once, have a more powerful processor, and are Macintosh compatible.

Aimed at small office/home office and single business users, the LaserJet® 1200/1220 have no built-in network interface, but can be connected using the optional external JetDirect® 175x network server. A 1200n network-ready version shipped with the JetDirect standard, and both versions could be configured with an optional color scanner for added scanner/copier functionality. The 1220/1220Se models were configured with the color scanner/copier standard.

The HP1200 will not work with older versions of the Anacom® SmartBox® units because of the

"hot" interface that watches both the USB and Parallel ports allowing two computers to be connected to the printer at the same time. Specialized information must be received from the driver before a print job can be processed.

The HP LaserJet® 1000

HP entered the low-end laser printer market with the October 2001 introduction of the LaserJet® 1000, the lowest priced monochrome laser printer produced by HP at the time. Aimed at entrepreneurial businesses, telecommuters and home office users, the 1000 offers professional-quality prints at personal-printer prices, but limits its use to computers with newer operating systems, and is not upgradable.

All computers using the HP1000 must be IBM® compatible and have an available universal serial bus (USB) port. There is no parallel port. Supported operating systems are limited to Windows® 98, Me, 2000 and XP. The printer will not function with Windows 3.1x, 95, NT, XP Professional Edition (64-bit) or Window Terminal Server versions, UNIX®, Linux®, OS/2 Warp® or Macintosh®.

The LaserJet 1000 can be shared with other users on a network using Microsoft® Windows-sharing only, and does not support networking through the use of any HP Jetdirect or third party print server.

Toner cartridges are the same as those used in HP1200 and 1220 series machines, and are available in standard (2,500 page yield at 5%) and high-yield (3,500 pages) versions.

The Toner Cartridge:

The HP1000, 1200 and 1220 machines all use the same cartridge, which looks like a small version of the HP2100, and comes in both standard and high-yield versions with OEM ratings of 2,500 and 3,500 respectively. The design of the hoppers for the two versions differ, with the standard having a recessed area to prevent over-filling (190g max).

continued, page 2

Table of Contents

Introduction	1-2
Tools & Supplies You Will Need . . .	2
Use of Compressed Air	2
Use of Isopropyl Alcohol	2
Toner Unit	3
Waste Bin Unit	4
Disassembly Toner Cartridge	5-6
Disassembly Toner Hopper Section	6-7
Assembly of the Toner Hopper Section	8
Disassembly/ Assembly of the Waste Bin Section	9-10
Reassembly of the Cartridge	11

WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Hewlett-Packard® LaserJet® 1000/1200/1220 Online Engine Center at www.scc-inc.com

System Support Series™ documents are available on our Web site in Adobe® Acrobat® format.



If you need additional information or technical assistance, please contact your Regional Support Team.

800 488 2426 (USA)
919.774.3808 (Int'l)
+44 (0) 118.923.8800 (UK)
info@scc-inc.com (US Email)
info@scceurope.co.uk (UK Email)
www.scc-inc.com

Version 2
Revision 8/02

Cartridge Information

Part Number	C7115A Standard Yield	C7115X High Yield
Cartridge List Price*	\$65.00	\$82.00
OEM Rated Page Yield	2,500 @ 5%	3,500 @ 5%
Typical Cartridge Wholesale Price*	\$50.00	\$63.00

*Prices as of October 2001

* Patent applied for.

Although the HP1200 printer was intended to replace the HP1100, their cartridges are not compatible.

Critical Issues:

- The HP1200/1220 or 1000 cartridge presents no new technology.
- Remanufacturing is fairly straightforward.
- The two sections of the unit are held together with pins that can be difficult to remove.
- Toner cartridges are available in standard and high-yield versions.
- Standard and high-yield version hoppers differ in physical design to accommodate the different toner loads.

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.

Use of Isopropyl Alcohol

For best results, we recommend using ONLY 91-99% for cleaning as directed in these instructions. 91% Isopropyl alcohol is available at most major drug stores; 99% Isopropyl alcohol is available through distributors of chemical products. Follow the alcohol manufacturer's safety instructions.

Tools and Supplies You Will Need

For Basic Remanufacturing:

- Phillips Screwdriver
- Standard Flat-Blade Screwdriver
- Small-Tipped Flat-Blade Screwdriver
- Needlenose Pliers
- Funnel for Toner Bottle
- Compressed Air for Cleaning(See left)
- 91-99% Isopropyl Alcohol(See left)
- Lint-Free Foam Tip SwabLFSWAB
- Lint-Free Cleaning ClothLFCLOTH
- Cotton SwabQTIP
- Conductive Cartridge LubricantCONCLUBE
- Kynar® Lubricating PowderKPOW
- Shallow Trough for Dipping the Wiper Blade
- SCC HP1200 Pin Removal KitHP12PRKIT
 - HP1200 Pin Removal ToolHP12PRTOOL
 - HP1200 Pin Removal Drill BitHP12PRDBIT
 - HP1200 Plexiglass Hopper JigHP12HJIG
 - HP1200 Pin Removal Fixture
- HP1200 Cartridge PinsHP12CARTPIN

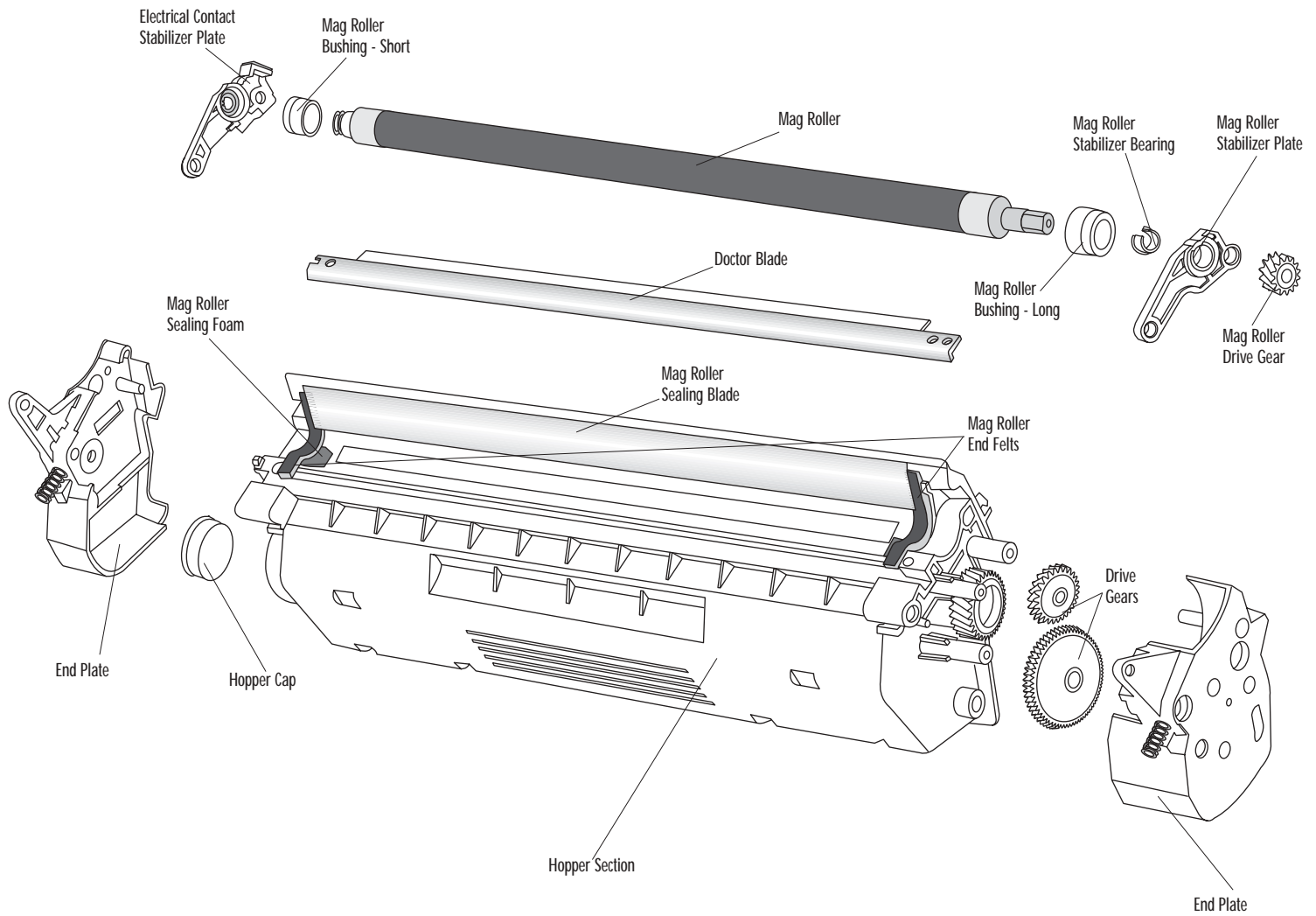
Compatibility:

HP LaserJet® 1000	HP LaserJet® 1200
HP LaserJet® 1200Se	HP LaserJet® 1200N
HP LaserJet® 1220	HP LaserJet® 1220Se

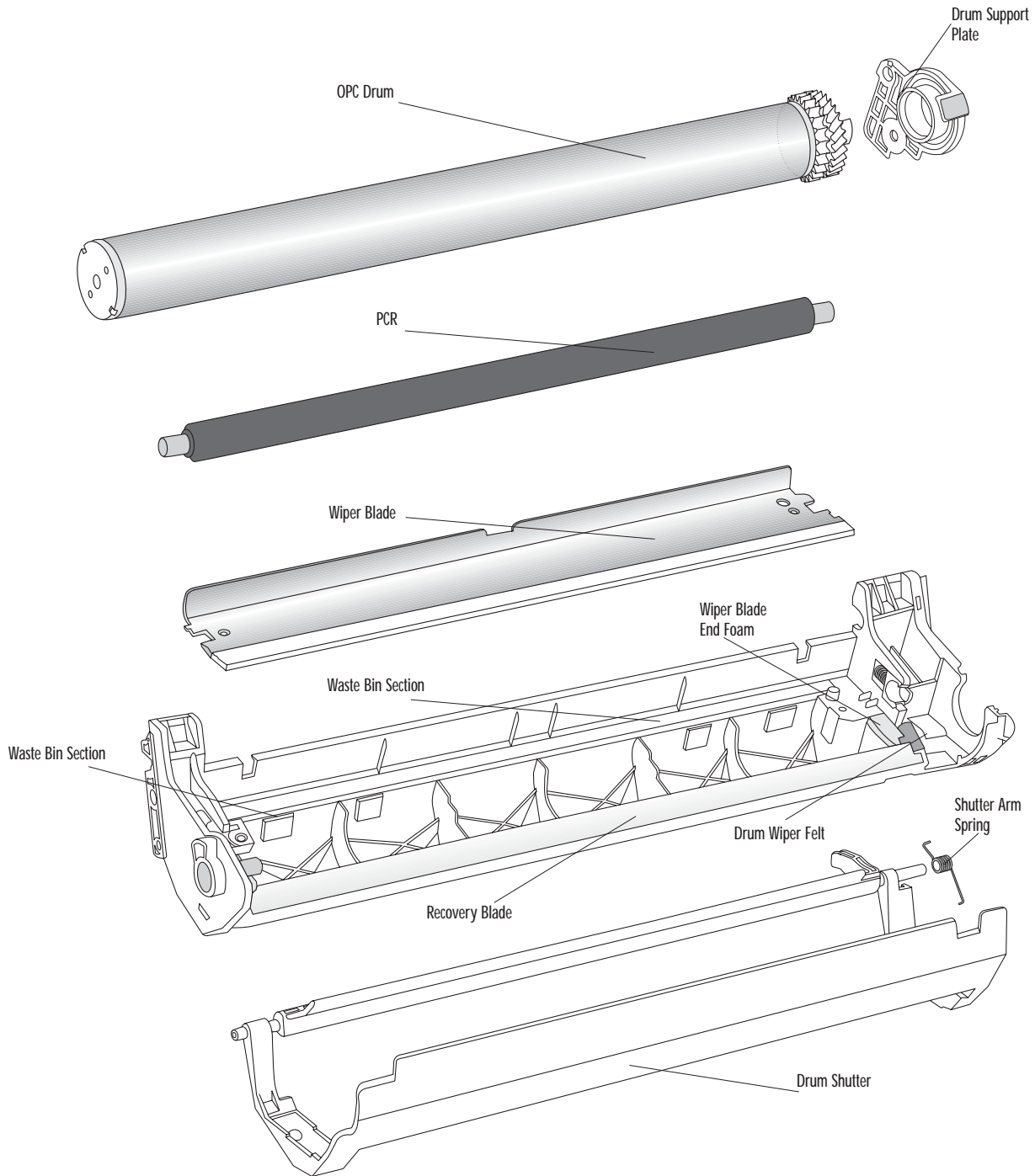
Engine Information

Engine Name	HP LaserJet® 1200/1200Se	HP LaserJet® 1220/1220Se	HP LaserJet® 1000
Printer Price	\$399.00	\$529.00	\$249.00
Cartridge Design	All-in-one Monochrome	All-in-one Monochrome	All-in-one Monochrome
Toner Type	Monocomponent	Monocomponent	Monocomponent
First Page Out	less than 10 seconds	less than 10 seconds	15 seconds
Fuser	Instant-On	Instant-On	Instant-On
Date of U.S. Printer Introduction	April 2001	April 2001	October 2001
Print Speed (pages per minute)	15 (letter) / 14 (A4) ppm	15 prints/12 copies	10
Duty Cycle	10,000 pages per month	10,000 pages per month	7,000 pages per month
Print Resolution (dpi)	1200 x 1200 dpi	1200 print/600 scan	600 (1200 w/RET)

HP1200 Toner Unit



HP1200 Waste Bin Unit



Disassembly of the Toner Cartridge

1. Place the cartridge in the HP1200 jig (HP12HJIG). The jig should be secured with clamps to a stable surface. Remove the shutter from the cartridge by carefully prying the axles loose (FIG 1). When removing the shutter make sure not to lose the spring in FIG 1A.

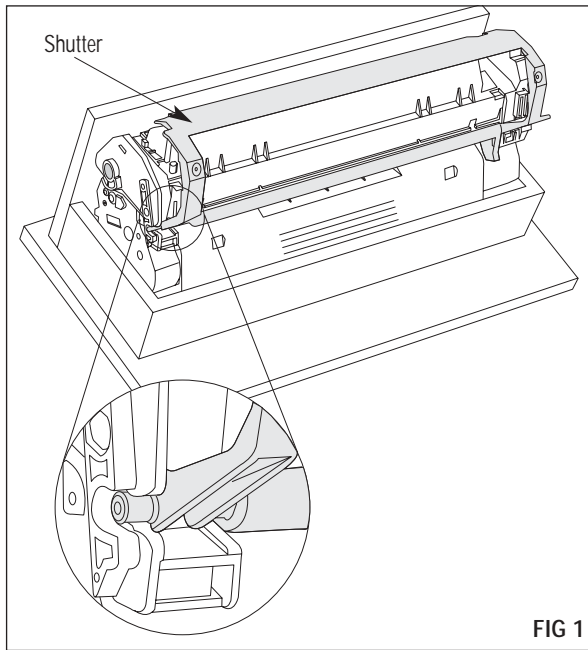


FIG 1

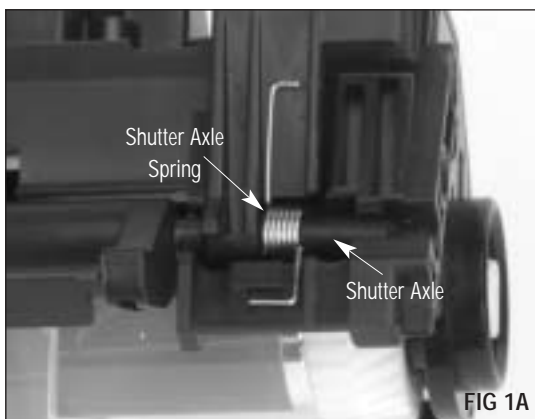


FIG 1A

NOTE: When removing the shutter be careful not to damage shutter axle.

2. Place the fixture on the cartridge as shown (FIG 2).

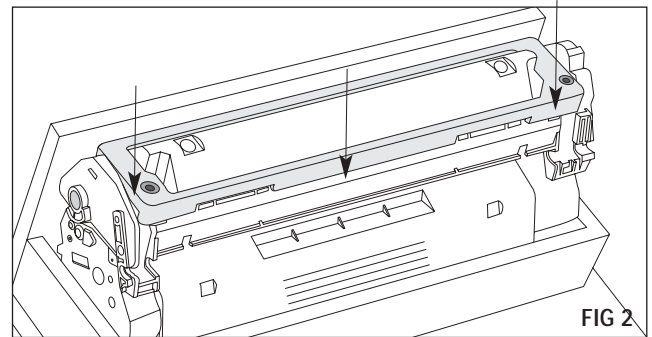


FIG 2

3. Drill through holes on each side of the fixture until the drill-stop reaches the fixture surface (FIG 3).

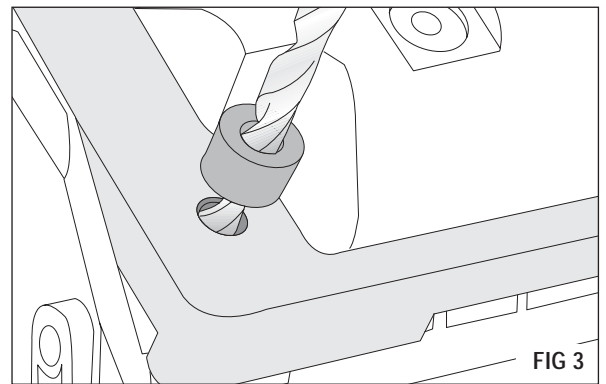


FIG 3

NOTE: Use of a drill bit without the drill stop could damage the cartridge.

4. Use the pin removal tool (HP12PRTOOL) to push the cartridge pins outside of the cartridge as shown (FIG 4). Use a pair of needlenose pliers to grasp the pin and remove. The pin on the non-gear side is visible through the drilled hole, on the gear side it is not.

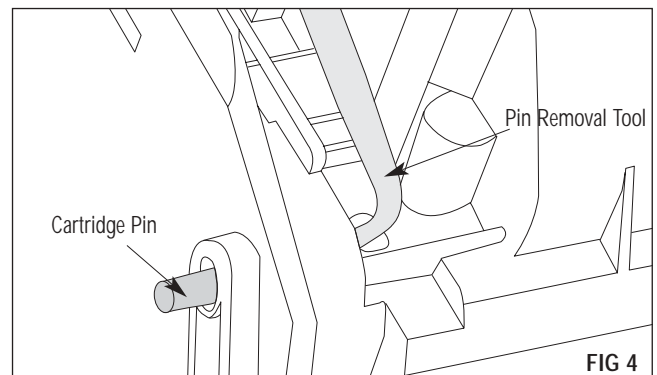
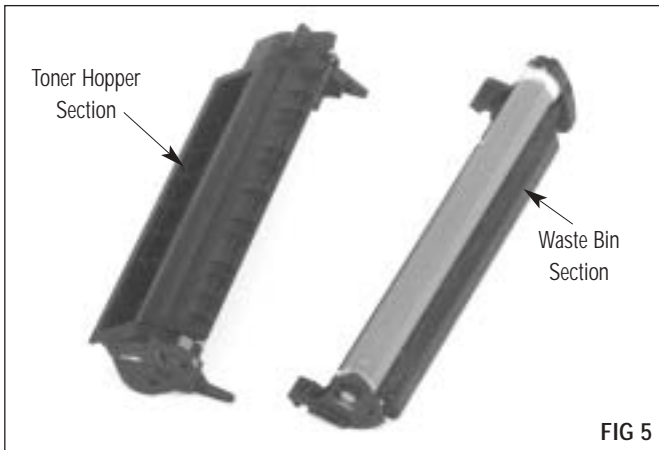


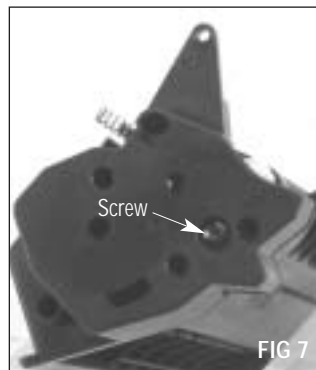
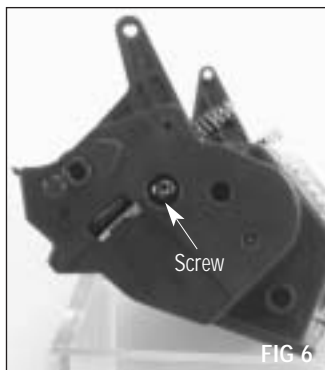
FIG 4

5. Separate the toner hopper section from the waste bin section (FIG 5).

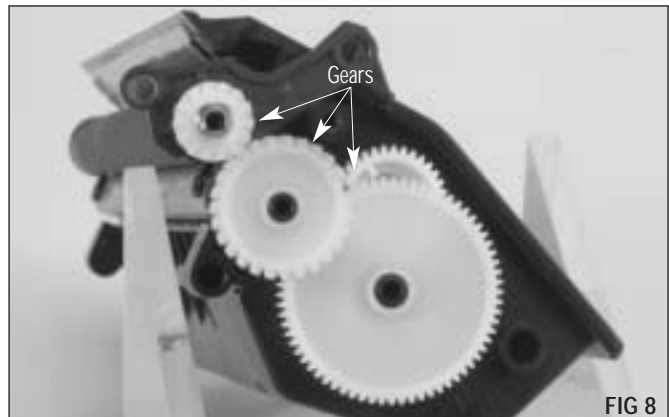


Disassembly of the Toner Hopper Section

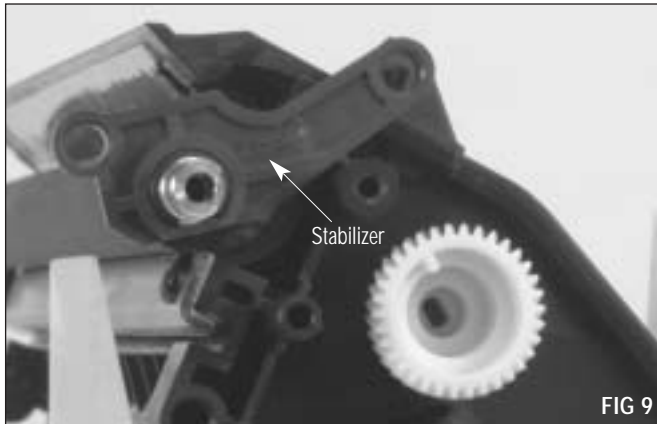
1. Remove the screws from each side of the hopper section with a Phillips screwdriver, then remove the end plates (FIG 6 & 7).



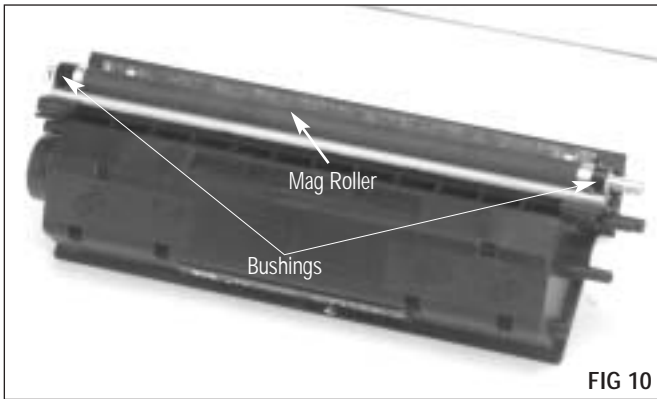
2. Remove the three gears from the left side of the hopper section (FIG 8).



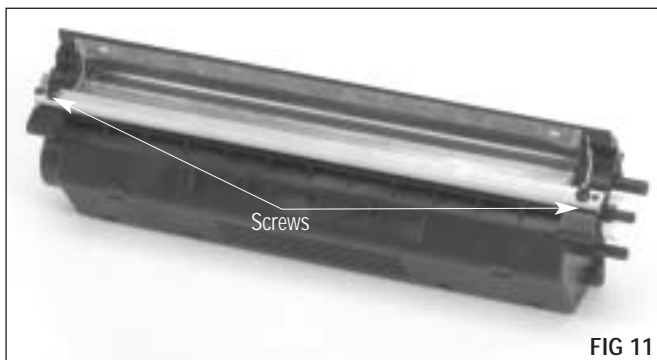
- Remove the stabilizer on each side of the mag roller (FIG 9). Make sure not to lose the mag roller stabilizer bearing.



- Remove the mag roller & bushings from the hopper (FIG 10).



- Using a Phillips screwdriver, remove the screws from each end of the doctor blade stamping. Grasp the metal stamping and remove the doctor blade from the hopper. (FIG 11).



- Remove the hopper cap and dump the remaining toner (FIG 12).



- Clean the cartridge with dry, filtered compressed air (FIG 13).



NOTE A toner hopper seal is necessary to prevent toner leakage during storage and transportation of your HP1200 cartridge. See System Support Series™ 409 for seal instructions.



Assembly of the Toner Hopper Section

1. Fill the cartridge with toner. Replace the hopper cap (FIG 14).



FIG 14

2. Install the doctor blade (FIG 15).



FIG 15

3. Replace the mag roller & bushings from the hopper (FIG 16). The short bushing is placed on the contact side and the long bushing is placed on the gear side.

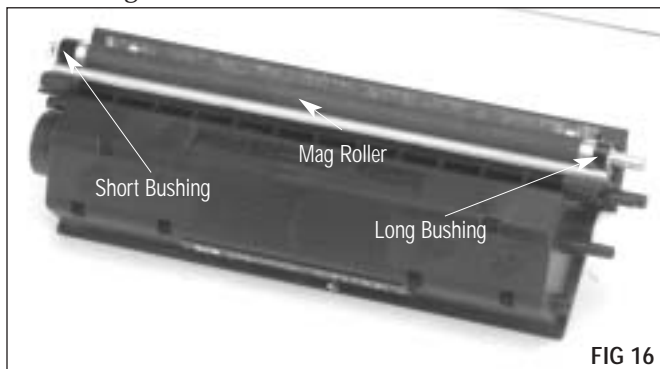


FIG 16

4. Replace the mag roller stabilizer bearing. Replace the stabilizer on each side of the mag roller (FIG 17).

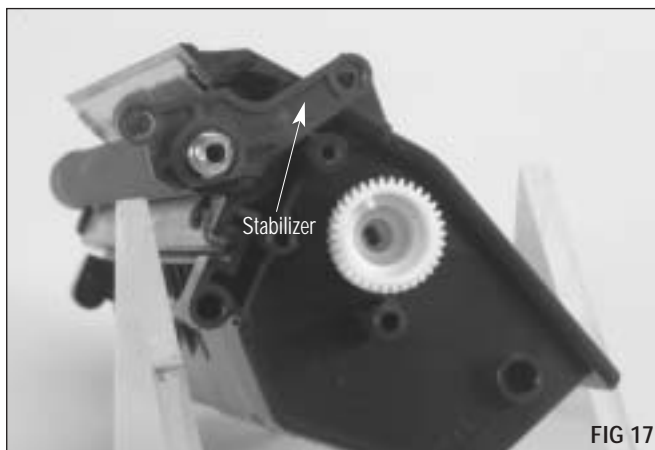


FIG 17

NOTE: When replacing the stabilizer, make sure that the finger on the contact stabilizer plate is touching the mag roller shaft.

5. Replace the three gears from the left side of the hopper section (FIG 18).

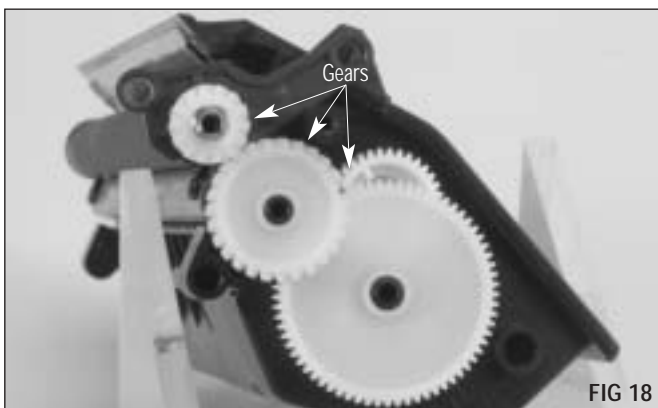


FIG 18

6. Replace the end plates. Secure the screws from each side of the hopper section (FIG 19 & 20).

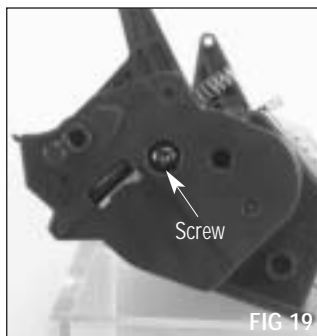


FIG 19

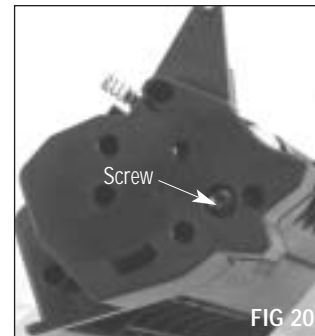


FIG 20



Disassembly/Assembling the Waste Bin Section

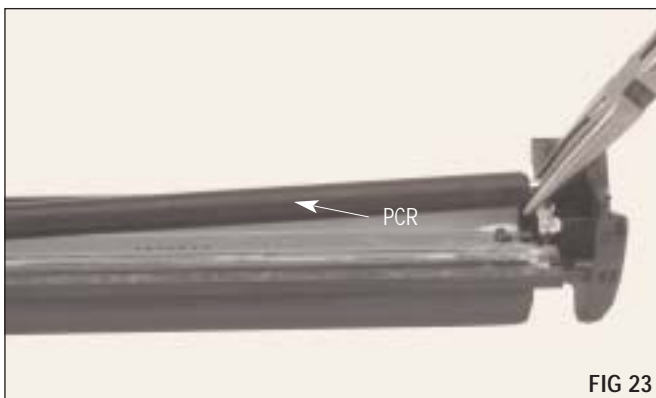
1. Remove the screw securing the drum support plate and remove the plate (FIG 21).



2. Remove the OPC drum. Carefully lift the drum by the gear side of the drum and slide it from the axle (FIG 22).



3. Remove the PCR. Use a pair of needlenose pliers to grasp the PCR shaft and remove (FIG 23).



4. Using a Phillips screwdriver, remove the two screws securing the wiper blade (FIG 24). Remove the wiper blade.



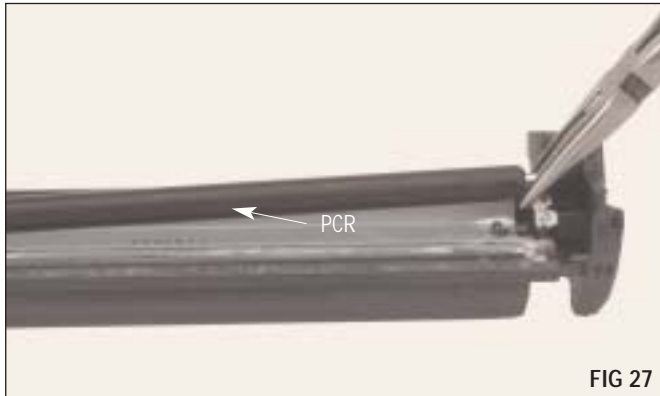
5. Clean the waste bin with dry, filtered compressed air (FIG 25).



6. Inspect the recovery blade for damages and replace if needed. Replace the wiper blade and secure with the two screws (FIG 26).



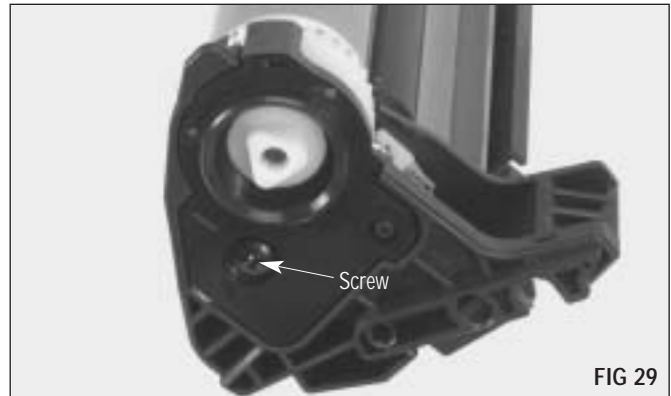
7. Using a cotton swab dampened with 91%-99% isopropyl alcohol, clean PCR saddles. Apply a thin layer of Conductive Cartridge Lubricant (CONCLUBE) to the black contact saddle, then replace the PCR. Use a pair of needlenose pliers to grasp the PCR shaft and replace (FIG 27).



8. Replace the OPC drum. Carefully slide the drum on the axle (FIG 28).

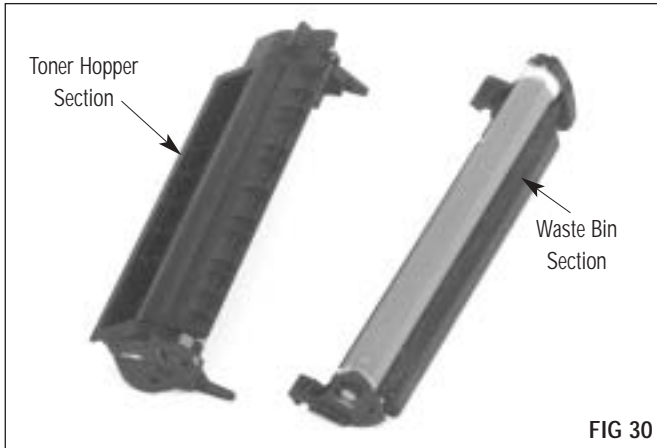


9. Replace the drum support plate and secure the screw (FIG 29).

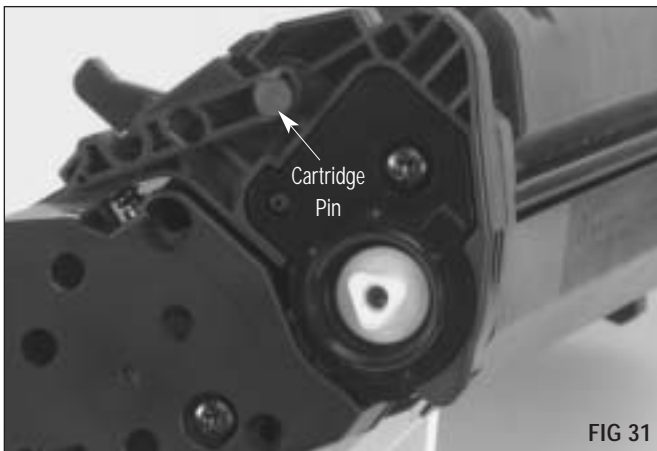


Assembly of the Cartridge

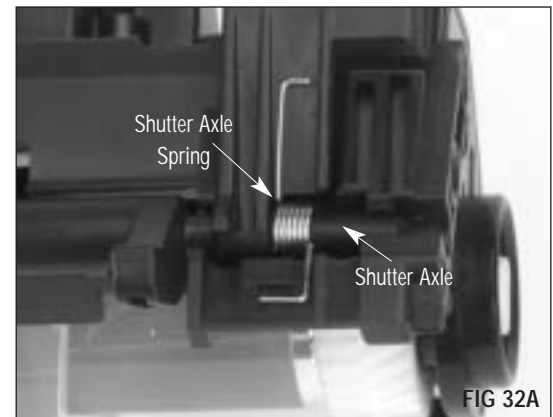
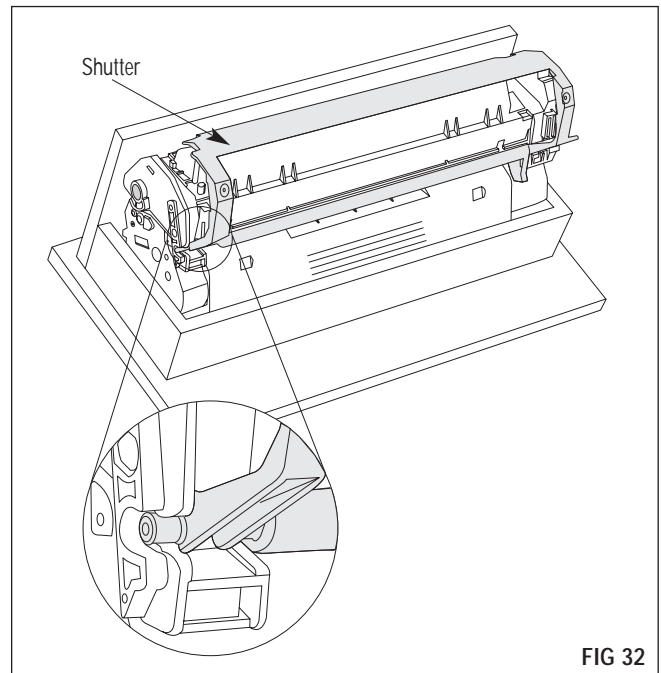
1. Replace the toner section to the waste bin section (FIG 30).



2. Install the cartridge pins (HP12CARTPIN) (FIG 31).



3. Replace the spring as shown (FIG 32A). Replace the shutter to the cartridge using a pair of needlenose pliers to carefully push the ends into the cartridge (FIG 32).



NOTE: When replacing the shutter be careful to not damage shutter axle.

Technology and Support You Can Rely On!

We realize that the success of your business directly affects the success of Static Control. It's no longer a matter of keeping up with your competition, but surpassing them. That is why we invest so much time and effort in the technology necessary for your business to address new market opportunities quickly, and with confidence.

Where monochrome once ruled the industry color is now emerging and taking a foothold. It is our pledge to you, our customer, to do all we can to help you move into this new opportunity and others, as quickly and effortlessly as possible. We will continue to support monochrome markets, while building a comprehensive color technology library for your reference, along with products to support your growing business. Together we can build a partnership for a successful future.



Static Control Components, Inc.
3010 Lee Avenue • PO Box 152 • Sanford, NC 27331
US/Can 800-488-2426 • US/Can Fax 800-488-2452
Int'l 919-774-3808 • Int'l Fax 919-774-1287
www.scc-inc.com

Static Control Components (Europe) Limited
Unit 30, Worton Drive
Reading • Berkshire RG2 0TG • United Kingdom
Tel +44 (0) 118 923 8800 • Fax +44 (0) 118 923 8811
www.scc-inc.com