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Tektronix® Phaser® 560/740/750
Remanufacturing Instructions
For Toner Units

About the Cartridges

The Matsushita® engine was the first full-color laser based on a monocomponent imaging system, offering superior print quality over dual-component imaging systems.

In June 1997 Tektronix® released the Phaser® 560, the first printer of its class to officially sanction manual two-sided printing. The 560 was Tektronix's fourth product based on the Matsushita engine.

Although the 560 was physically identical to its predecessors, the Phaser 540 and 550 series, internally the 560 was almost completely redesigned, making its imaging system incompatible with the previous machines.

In October 1998 Tektronix introduced the Phaser 740, as a fully-functional color laser printer. The new line replaced the 560 series, and it was positioned as a general-purpose printer for both color and monochrome, at half the price of the Phaser 560.

May 2000 saw the release of the Phaser 750, the sixth product to utilize the evolving Matsushita® print engine. Nearly identical to the 740, the 750 offered no new engine technology. It did, however, come with a few minor engine modifications. For example, a new controller, faster microprocessor, a user-serviceable paper transport unit and a paper calibration feature.

The most significant change was a new set of toners, which offered improved reliability, a more consistent toner particle size and lower costs. The toners were housed in cartridges that looked the same as those of the earlier Phaser models, but the new cartridges had been "keyed" making them incompatible with either the 560 or the 740. High-yield toner cartridges offered 50% greater yield than the standard cartridges, and were available for all four color toners.

The supplies set had nine consumables, which included the four toner cartridges, a transfer unit (transfer roller and waste toner receptacle), an imaging unit (OPC and a transfer belt), a fuser assembly (fuser roller and charge grid, or corona wire).

The 740 and 750 used the same basic imaging supplies as the 560 model, but the toner cartridges all had different part numbers and were not interchangeable between models due to printer-specific cartridge tab configurations.

The 750 was not meant to be a replacement for the 740, which to date remains in Xerox's product line-up as an entry-level printer for the price-sensitive market.

Matsushita® (Panasonic®) Engine Information

Printer Name	Tektronix® Phaser® 560
Date of Introduction (Current/Discontinued)	June 1997 (Discontinued)
Print Speed	5 ppm (3 Color, 600x600 dpi)
	14 ppm (Monochrome)
Toner Class	Magnetic, mono-component
Printer Name	Tektronix® Phaser® 740
Date of Introduction (Current/Discontinued)	October 1998 (Current)
Print Speed	5 ppm (3 Color, 600x600 dpi)
	16 ppm (Monochrome)
Toner Class	Magnetic, mono-component
Printer Name	Tektronix® Phaser® 750
Date of Introduction (Current/Discontinued)	May 2000 (Current)
Print Speed	5 ppm (3 Color, 600x600 dpi)
	16 ppm (Monochrome)
Toner Class	Magnetic, mono-component

Model Compatibility

Tektronix® Phaser® 560*/740*/750*

**Some modification necessary for cartridge compatibility, toner compatibility testing in process*

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Toner Hopper Unit - Re-assembly of 6-8
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Use of Isopropyl Alcohol 3

WWW.SCC-INC.COM

Get the latest information on the web at Static Control's Tektronix® Phaser® 560/740/750 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 Support Team.

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Version I - August 2000

Cartridge Information

Phaser® 560/740/750 Toner Cartridge Statistics

	Toner Cartridge OEM Part Number :	List/Wholesale Price:	OEM Rated Page Yield:
Tektronix® Phaser® 560*			
Black (Standard)	016-1536-00	$119/$103	12,000
Cyan (Standard)	016-1537-00	$329/$286	10,000
Magenta (Standard)	016-1538-00	$329/$286	10,000
Yellow (Standard)	016-1539-00	$329/$286	10,000
Imaging Unit	016-1523-00	$446/$388	60,000
Transfer Kit	016-1533-00	$45/$39	60,000
Fuser Roll	016-1556-00	$82/$71	15,000
Fuser Assembly	016-1534-00	$209/$182	30,000
** High capacity cartridges not available*			
Tektronix® Phaser® 740			
Black (Standard)	016-1684-00	$86/$75	6,000
Black (High Capacity)	016-1656-00	$109/$94	12,000
Cyan (Standard)	016-1685-00	$175/$152	5,000
Cyan (High Capacity)	016-1657-00	$245/$212	10,000
Magenta (Standard)	016-1686-00	$175/$152	5,000
Magenta (High Capacity)	016-1658-00	$245/$212	10,000
Yellow (Standard)	016-1687-00	$175/$152	5,000
Yellow (High Capacity)	016-1659-00	$245/$212	10,000
Imaging Unit	016-1662-00	$209/$179	60,000
Transfer Kit	016-1664-00	$39/$34	80,000
Fuser Roll	016-1663-00	$69/$56	15,000
Fuser Assembly	016-1660-00	$215/$176	60,000
Main Charge Grid (Corona Wire)	016-1665-00	$39/$31	30,000
Tektronix® Phaser® 750			
Black (Standard)	016-1807-00	$89/77	6,000
Black (High Capacity)	016-1803-00	$109/95	12,000
Cyan (Standard)	016-1804-00	$182/$158	5,000
Cyan (High Capacity)	016-1800-00	$245/$213	10,000
Magenta (Standard)	016-1805-00	$182/$158	5,000
Magenta (High Capacity)	016-1801-00	$245/$213	10,000
Yellow (Standard)	016-1806-00	$182/$158	5,000
Yellow (High Capacity)	016-1802-00	$245/$213	10,000
Imaging Unit	016-1841-00	$219/$190	60,000
Transfer Kit	016-1842-00	$40/$35	80,000
Fuser Roll	016-1843-00	$69/$60	15,000
Fuser Assembly	016-1839-00	$215/$187	60,000

All prices as of August 2000

NOTE For purposes of demonstration, a Tektronix® Phaser® 740 toner cartridge was used in the following photos. The method of disassembly, cleaning, reassembly and filling are the same for Phaser 560, 740 and 750 cartridges.

Tools and Supplies You Will Need

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

Recommended for Basic Remanufacturing:

- Phillips Screwdriver
- Small Flat-Blade Screwdriver
- Jewelers' Screwdriver (1.44mm works best)
- Needle Nose Pliers
- Conductive Cartridge Lubricant . . . . . .CONCLUBE
- Compressed Air for Cleaning . . . . . *(See left)*
- 91-99% Isopropyl Alcohol . . . . . *(See left)*
- Cotton Tipped Swab . . . . . .QTIP
- Toners qualified for Tektronix® Phaser® 560/740/750
- Tektronix® Phaser® 560/740/750 Printer

Disassembly of the Toner Hopper Unit

1. Remove the developer roller

Position the cartridge on your work surface with the screws up. Using a Phillips screwdriver, remove the two screws closest to the developer roller (FIG 1).

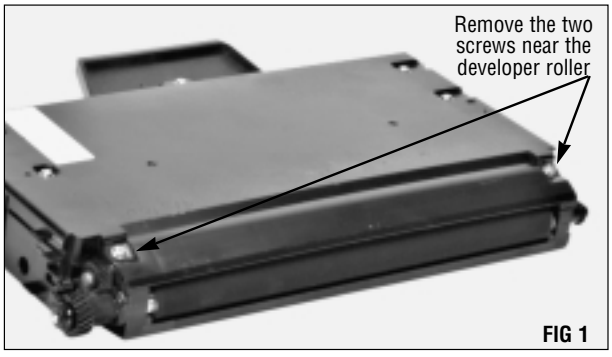

FIG 1

NOTE Oils from your skin will adhere to the developer roller, causing print defects. If you plan to reuse the roller, be sure to use gloves or other protective materials when working near the developer roller.

Using a small flat blade or jewelers' screwdriver, remove the developer roller retaining washer from the contact end of the cartridge (FIG 2).

The rubber retaining washers are not closed, making it easier to remove them by placing the blade near the slit in the material and turning the blade slightly.

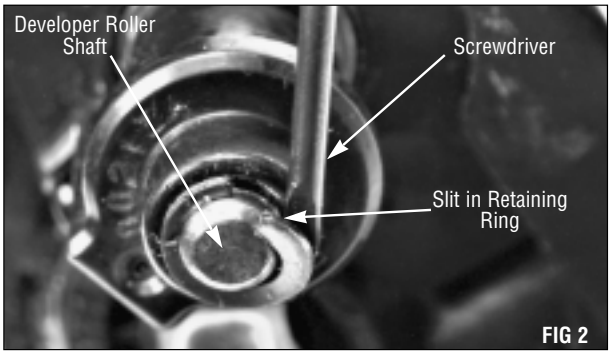

FIG 2

Remove the developer roller stabilizer by sliding it off the developer roller shaft (FIG 3).

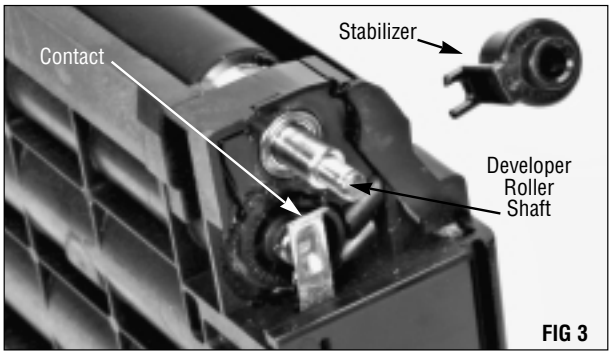

FIG 3

Using a flat blade screwdriver, carefully pry the developer roller housing away from the developer roller stabilizer bearing assembly enough f or the corner of the assembly to clear the housing (FIG 4).

Using a second flat blade screwdriver at the point shown, pry the developer roller stabilizer bearing assembly out of the housing and remove it (FIG 4).

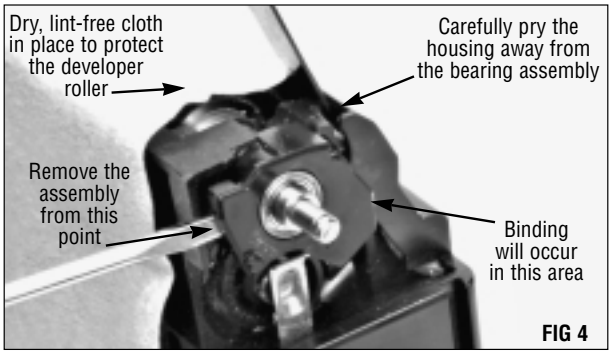

FIG 4

Using the same method as for the contact end, remove the developer roller retaining washer from the drive gear end of the cartridge (FIG 5).

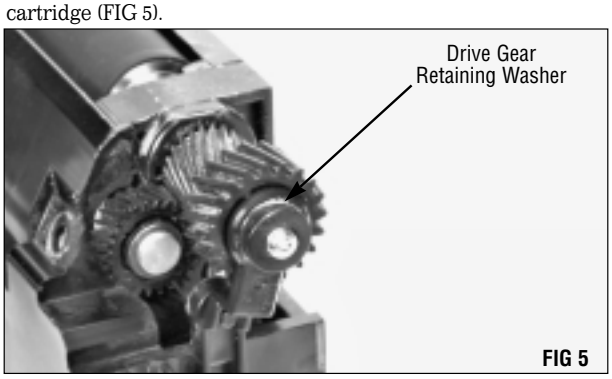

FIG 5

Remove the developer roller stabilizer by sliding it off the developer roller shaft (FIG 6).

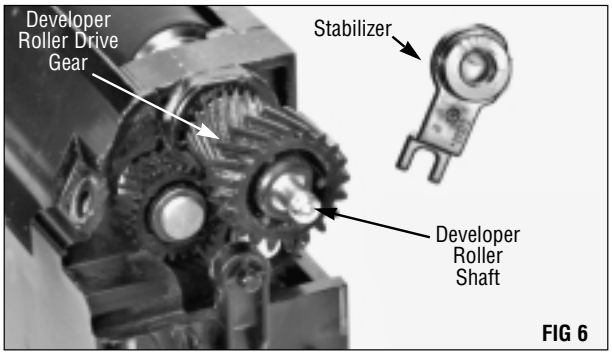

FIG 6

Remove the developer roller drive gear by sliding it off the shaft (FIG 7).

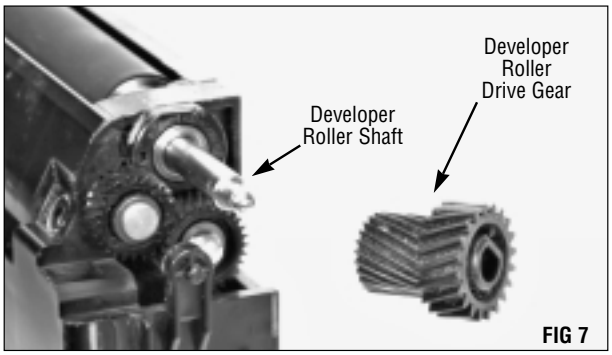

FIG 7

Remove the retaining washer from the smaller gear using the same method as for the previous two washers (FIG 8).

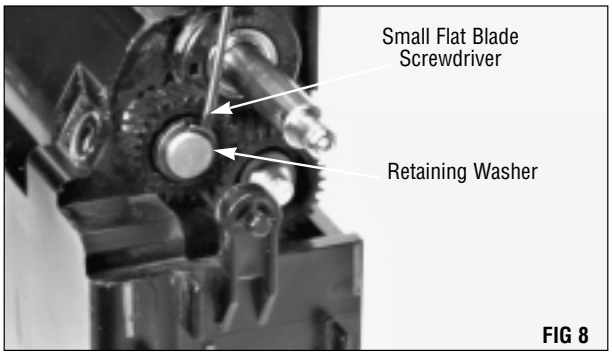

FIG 8

Pry the housing out slightly to free the gear as you slide it off the gear axle (FIG 14).

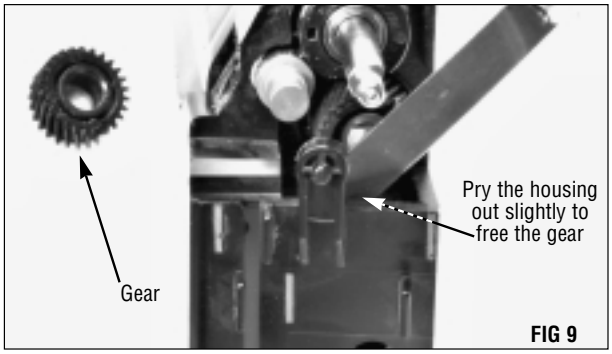

FIG 9

Remove the developer roller bearing assembly by inserting a small flat blade screwdriver into the notched area and prying the assembly away from the housing (FIG 10). Slide the assembly off the shaft, being careful not to dislodge the bearing.

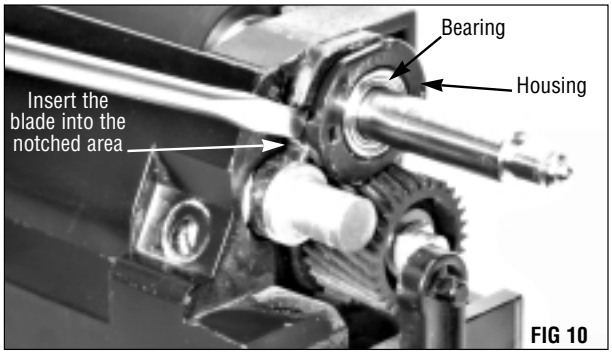

FIG 10

Remove the developer roller by first pressing in on the drive gear end, and lifting up on the contact end. Lift the developer roller up and out of the cartridge (FIG 11). Remember not to touch the roller with your bare fingers.

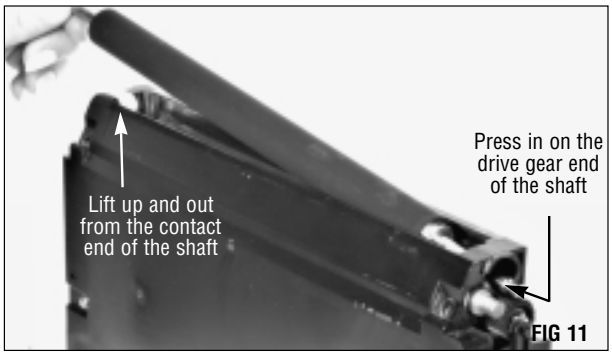

FIG 11

2. Remove the hopper cap

Remove the hopper cap by prying the edges up with a small flat blade screwdriver (FIG 12). Be careful not to damage the edges of the cap, which could allow toner leakage.

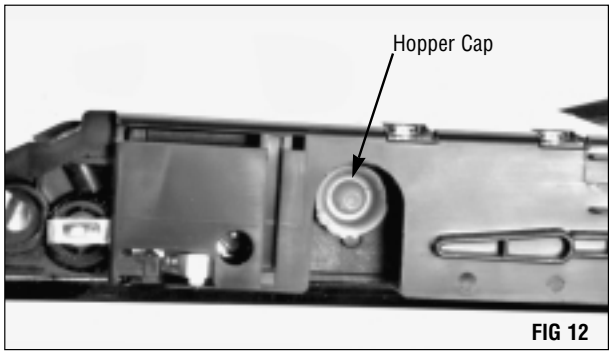

FIG 12

3. Clean the hopper

Dump any bulk toner from the hopper through the developer roller port. Using dry, filtered compressed air, clean any remaining residual toner from the hopper.

4. Inspect the components

Inspect the toner adder roller, recovery blade and doctor blade for damage (FIG 13). Clean the edge of the doctor blade with a clean, dry, lint-free cloth.

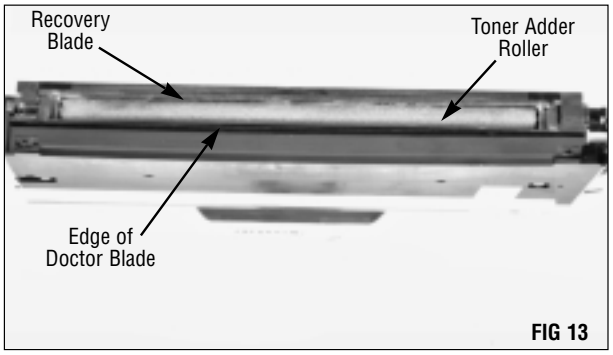

FIG 13

Re-assembly of the Toner Hopper Unit

NOTE Remember to use gloves or other protective materials when handling the developer roller. Do not touch the surface with your bare skin.

1. Install the developer roller

Place the long end of the developer roller shaft through the hole in the drive gear end of the cartridge (FIG 14). Seat the contact end of the developer roller in place.

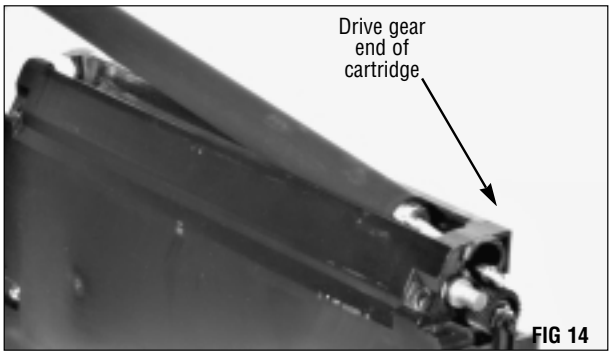

FIG 14

Replace the developer roller bearing on the drive gear end. Align the arrow on the bearing with the notch in the housing (FIG 15).

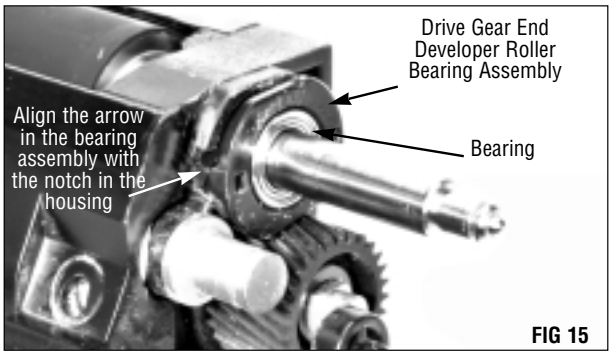

FIG 15

Press down on the developer roller shaft as you slide the bearing assembly into place.

To replace the small drive gear, pry out the end of the cartridge housing slightly (FIG 16).

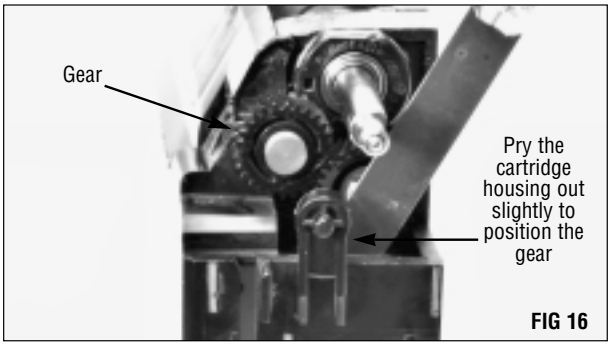

FIG 16

NOTE There are three retaining washers - two small and one large. The large washer is to be placed on the small developer roller gear. The two small washers are for the ends of the developer roller shaft.

Replace the retaining washer (FIG 17).

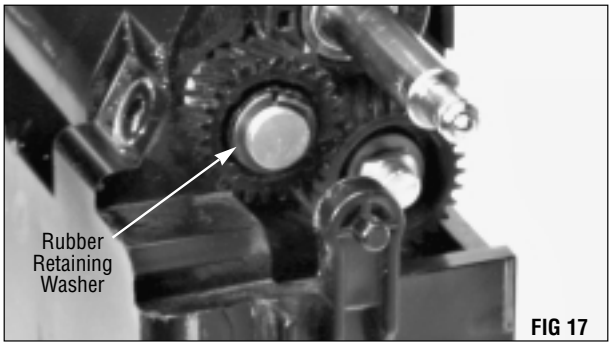

FIG 17

The developer roller shaft is keyed so that the drive gear will fit one way only. Slide the small end of the drive gear onto the shaft. Turn the gear until the keyed (flat) area matches, and push the gear into place (FIG 18).

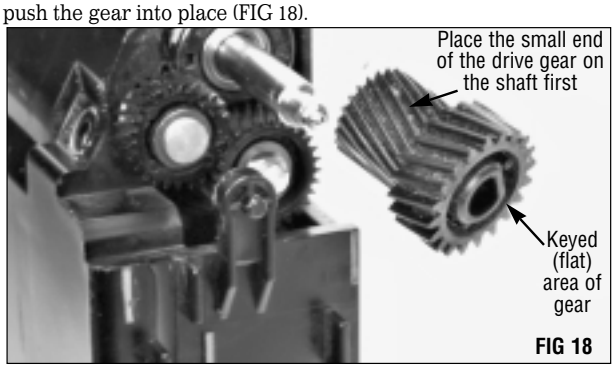

FIG 18

Replace the drive gear end developer roller stabilizer. Make sure the fork of the stabilizer is seated over the peg on the cartridge housing (FIG 19).

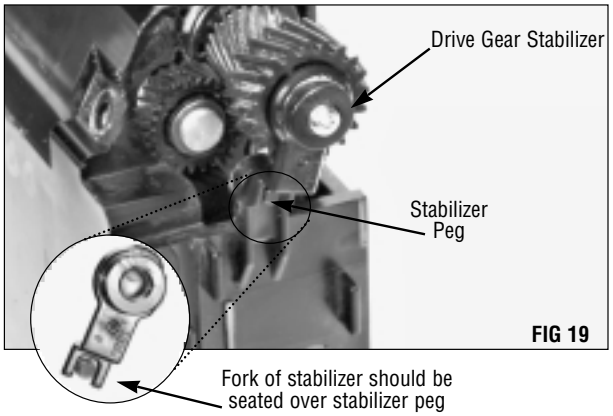

FIG 19

Replace the retaining washer (FIG 20).

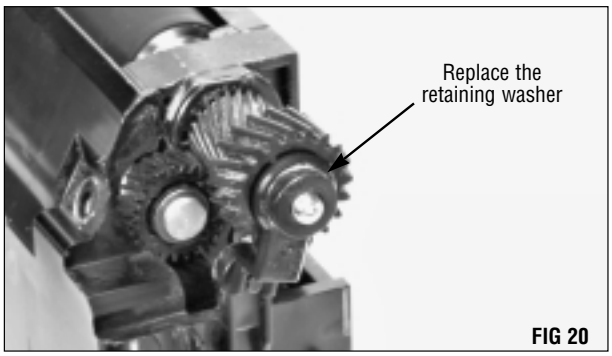

FIG 20

Replace the contact end developer roller bearing assembly by first aligning the assembly with the flat portion on top. Using a flat head screwdriver, pry out the cartridge housing just enough to allow the corner of the developer roller bearing assembly to fit beneath it, inside the housing (FIG 21).

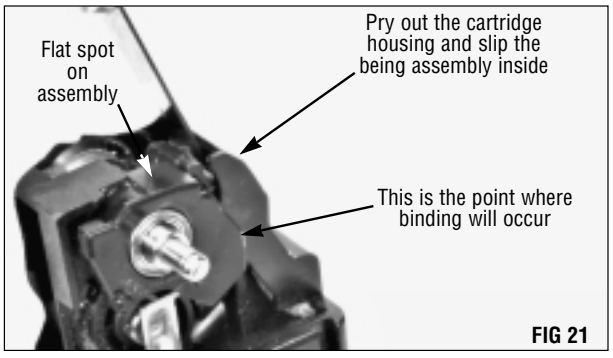

FIG 21

Pressing down on the developer roller shaft, push the bearing completely into the assembly (FIG 22).

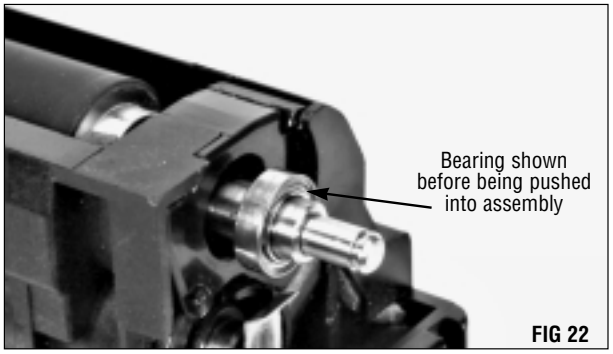

FIG 22

Replace the contact end developer roller stabilizer (FIG 23). Make sure the fork on the stabilizer is seated over the peg on the cartridge housing.

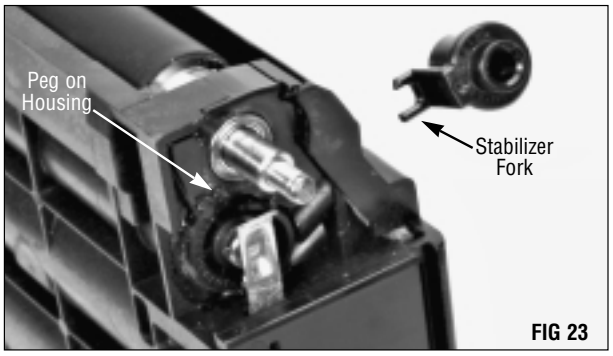

FIG 23

Replace the contact end developer roller stabilizer retaining washer (FIG 24).

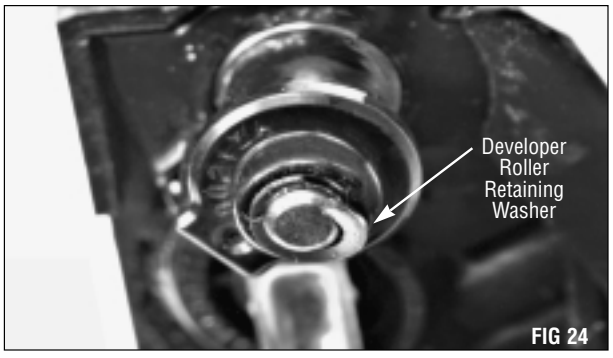

FIG 24

Using a small flat blade screwdriver, move the contact away from the toner adder roller axle slightly. With a cotton tipped applicator, place a small amount of conductive greaseon the end of the toner adder roller axle (FIG 25).

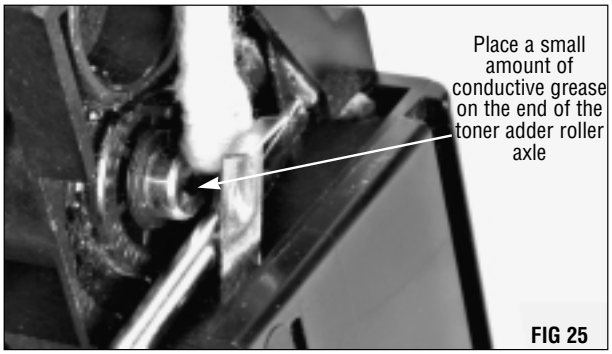

FIG 25

NOTE Be careful not to bend the contact or your cartridge may not function properly when installed in the printer.

Replace the two screws (FIG 26).

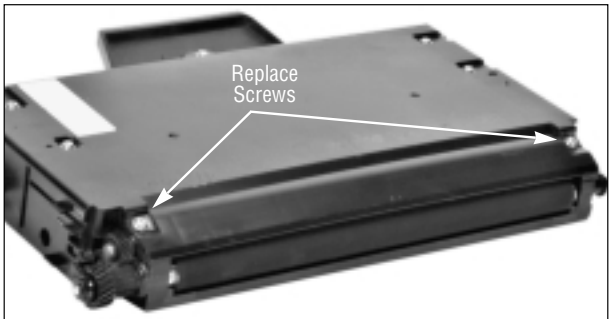

FIG 26

Fill the hopper with qualified toner and replace the hopper cap. Static Control recommends testing your cartridges in the appropriate printer after remanufacturing.

Imaging System Technology You Can Count On!

The development of cartridge imaging systems, such as the Tektronix® Phaser® 560/740/750 Imaging System, is the primary mission of our imaging technology laboratories. 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 designed cartridge application.

This dedication and commitment results in guaranteed 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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