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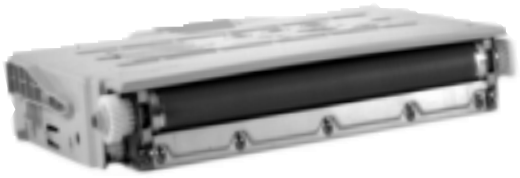
QMS® magicolor® 2 Remanufacturing Instructions For Toner/Developer Cartridges



About the Cartridge

The QMS® magicolor® 2 DeskLaser Printer utilizes a Hitachi® SL-1 color engine which is marketed by a number of OEMs including NEC®, Compaq®, Genicom®, and Brother®. Now in its third year of production, this Hitachi engine presents a prime market opportunity with a large, growing machine population and high OEM supplies pricing.

There are nine consumables, including four toner cartridges, belt unit, fuser cleaning roller, fuser oil, fuser oil/cleaning roller kit and a waste toner bottle.

Key points are:

* The developer roller is made of aluminum, with a smooth surface, and appears to be a one-piece design. It is in direct contact with the OPC belt during development, and does not utilize mag roller bushings to set the air gap.
* Components under the developer roller are a toner adder roller, one upper developer-sealing blade, one lower developer-sealing blade, and four toner augers. To gain access to these components an ultrasonic weld must be broken, which destroys the cartridge.
* The doctor blade is made of a urethane member, attached to a thin, flexible metal stampling, and is easily replaceable.
* The toner hopper can only be cleaned through the toner fill port, making it impossible to remove all residual toner. Any replacement toner must be compatible to avoid contamination problems.

Hitachi® SL-1 Engine Information

Printer Name	QMS® magicolor® 2 DeskLaser
Date of Copier Introduction (Current/Discontinued)	October 1997 (Current)
Print Speed	4 ppm (Color)*
	16 ppm (Monochrome)*

**Based on letter/A4 size paper*

Cartridge Information

Yellow Toner Cartridge OEM Part Number (Code)	1710188-001
Magenta Toner Cartridge OEM Part Number (Code)	1710188-002
Cyan Toner Cartridge OEM Part Number (Code)	1710188-003
Color Cartridge List/Wholesale Price*	$137/$129
OEM Rated Page Yield	6,000 pages @ 5% coverage
Toner Weight	235 grams
Toner Class	Non-magnetic, mono-component
Monochrome Toner Cartridge OEM Part Number (Code)	1710188-004
Monochrome Cartridge List/Wholesale Price*	$137/$99
OEM Rated Page Yield	10,000 pages @ 5% coverage
Toner Weight	235 grams
Toner Class	Non-magnetic, mono-component
Belt Unit OEM Part Number (Code)	1710193-001
Unit List/Wholesale Price*	$285/$269
OEM Rated Page Yield	12,500 pages

**Prices as of March 2000*

Model Compatibility

QMS® magicolor® 2/CX/EX/DeskLaser®, Genicom® microLaser C4, Compaq® Color Laser LNC02, (previously Digital Equipment LNC02), NEC® SuperScript 4200/4400*, Brother® HL-2400*

*Hitachi® SL-1 models with known compatibility keying issues

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WWW.SCC-INC.COM

Get the latest information on the web at Static Control's QMS® magicolor® 2 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.

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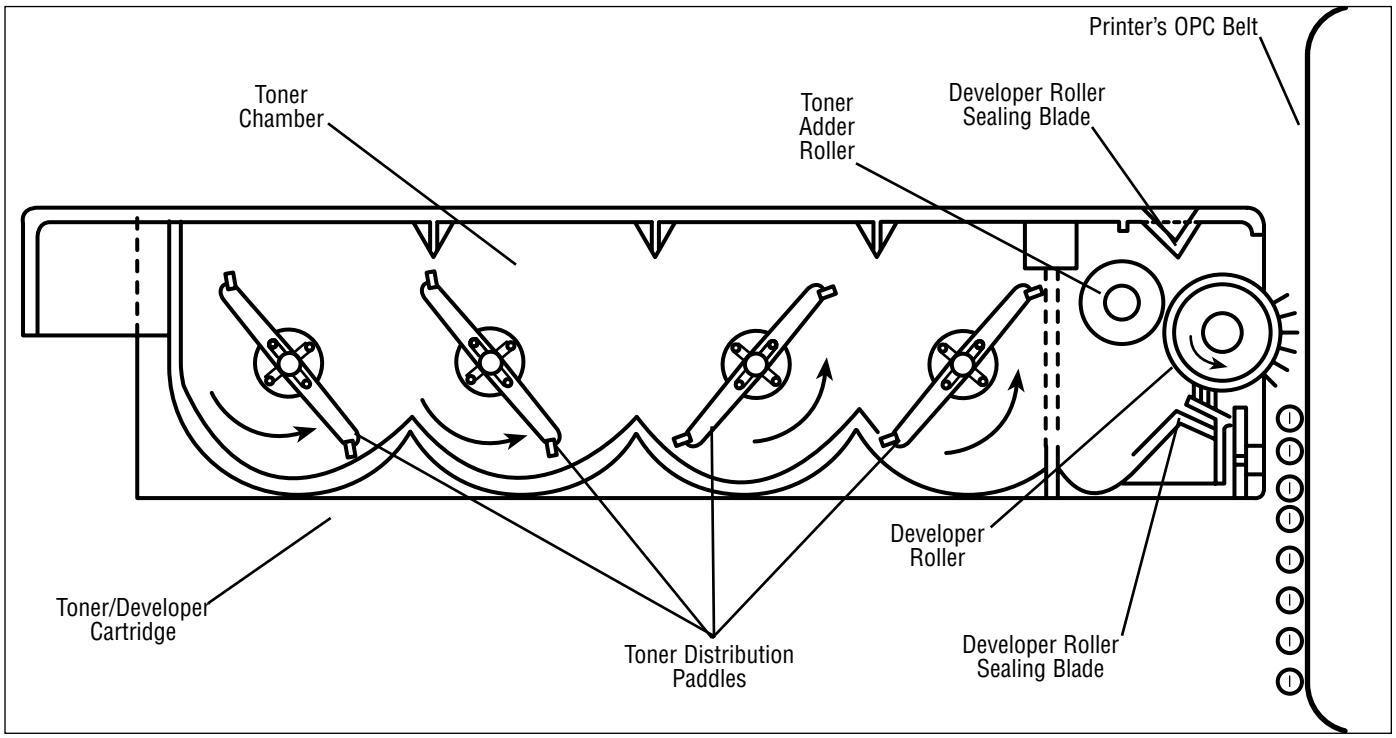
Version 1 - March 2000

Toner/Developer Unit



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:

- 91-99% Isopropyl Alcohol ..... *(See left)*
- Compressed Air for Cleaning ..... *(See left)*
- Needlenose Pliers .....
- Phillips Screwdriver #2
- Standard Flat-Blade Screwdriver
- Toner .....

Disassembly of The Toner/Developer Unit

1. Remove the doctor blade

Using a Phillips screwdriver, remove the five screws that hold the doctor blade cover in place (FIG 1). Lift the cover off and set it aside.

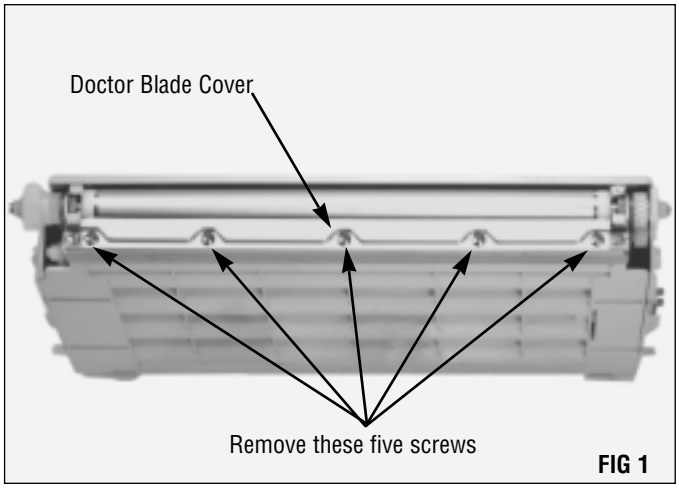


FIG 1

Remove the two Phillips screws that secure the developer roller assembly top support (FIG 2), then lift the support off and set it aside.

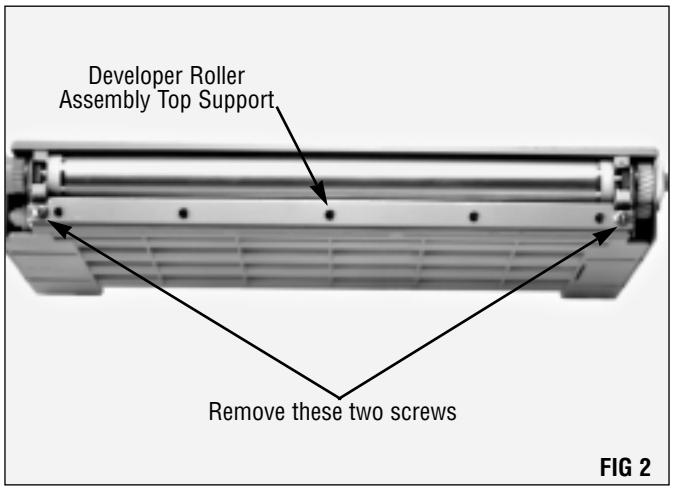


FIG 2

The doctor blade is sandwiched between the developer roller assembly top support and the developer roller bracket.

NOTE The doctor blade is attached to a thin metal strip with a sharp edge. This edge can cause injury if not handled with care.

Carefully remove the doctor blade (FIG 3) and inspect for damage. Avoid bending the metal strip.

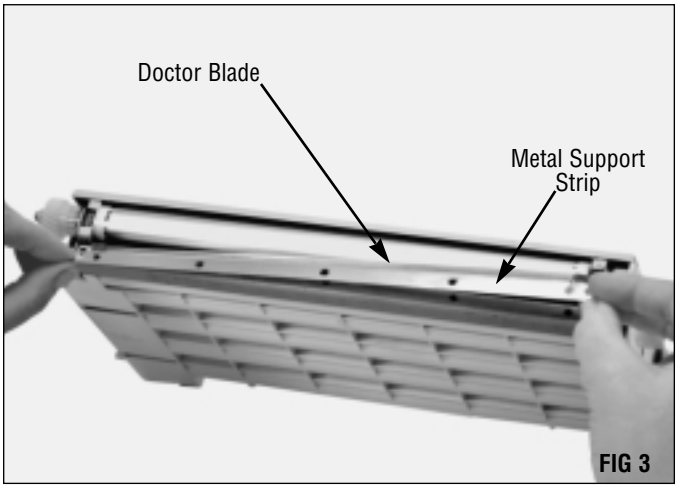


FIG 3

Clean the doctor blade with dry, filtered, compressed air or wipe with a dry, lint-free cloth. Do not use any chemicals or water.

NOTE Avoid touching the developer roller with your fingers. Oils from your skin will transfer to the aluminum coating on the developer roller, attract and hold toner, and result in print defects.

2. Remove the developer roller

Hold the cartridge in both hands. Using your thumbs pivot the developer roller assembly bracket up (FIG 4). Be careful not to touch the developer roller with your fingers.

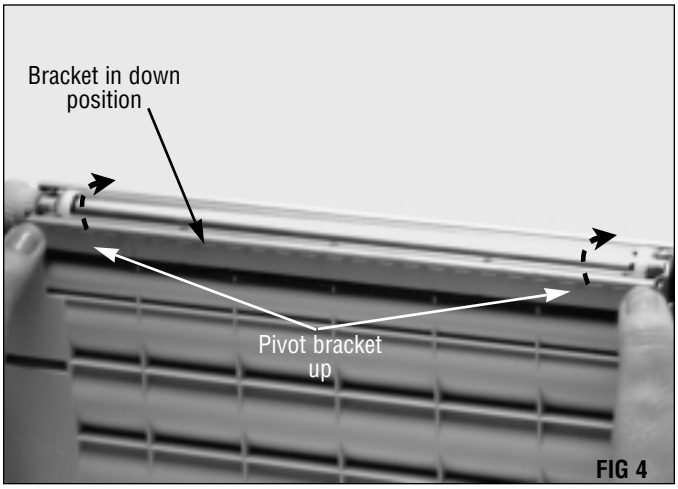


FIG 4

Lift the entire assembly out of the casing by the developer roller assembly bracket (FIG 5). Do not touch the developer roller with your fingers.

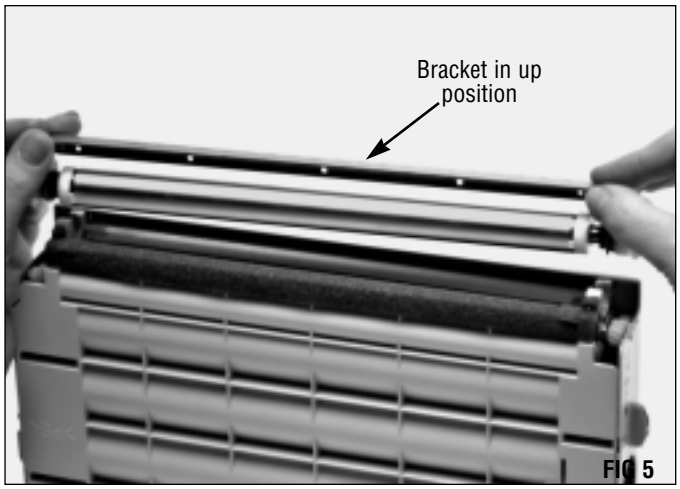


FIG 5

Clean the developer roller assembly using dry, filtered, compressed air, or by wiping with a dry lint-free cloth (FIG 6). Do not use water or chemicals of any kind.

Place the assembly on a flat surface, away from your immediate work area to avoid accidentally touching the developer roller with your bare skin.

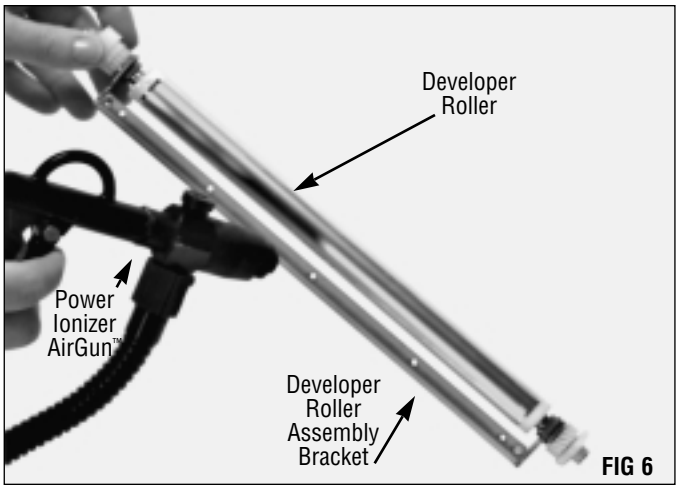


FIG 6

3. Remove the hopper cap

Using needle nose pliers, remove the toner hopper cap (FIG 7). You may need to first carefully pry the edge of the cap up with a flat blade screwdriver.

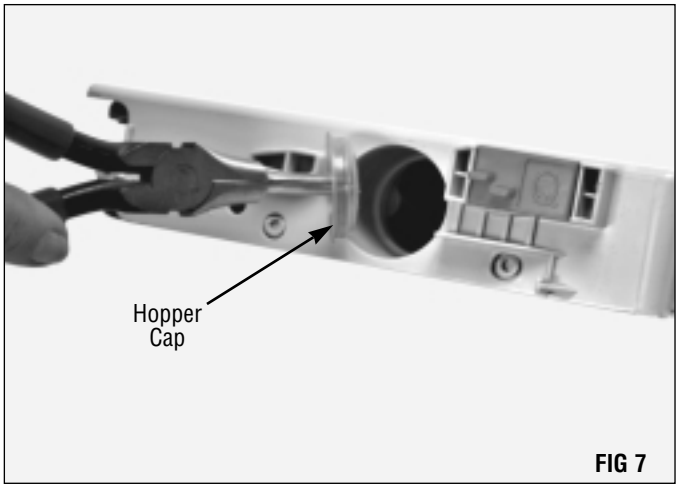


FIG 7

Reassembly of The Toner/Developer Unit

1. Clean and refill the hopper

After dumping any residual toner from the toner hopper, clean the hopper and the area around the developer roller sealing blades, foams and felts using dry, filtered, compressed air (FIG 8).

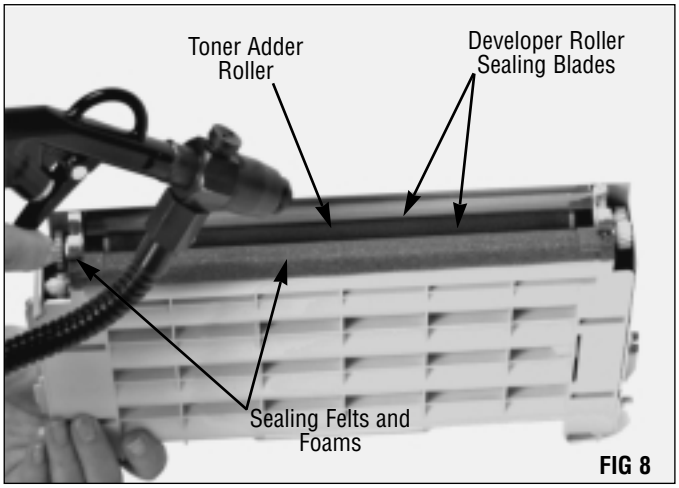


FIG 8

Refill the toner hopper through the toner fill opening and replace the toner hopper cap.

2. Replace the developer roller

With the positioning tab pointing up, seat the developer roller assembly in place (FIG 9).

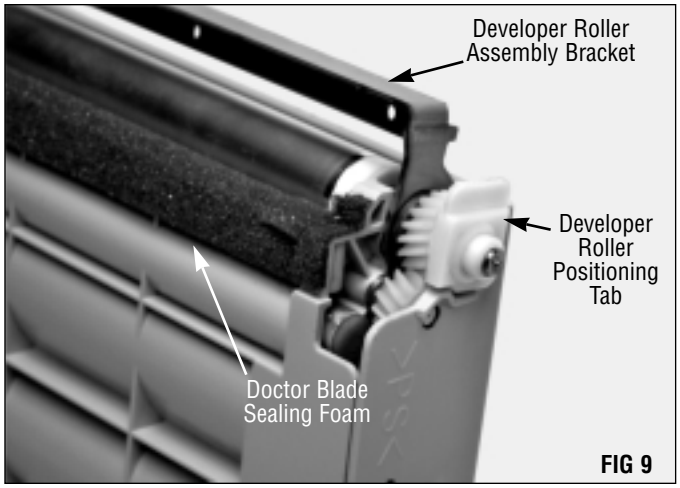


FIG 9

NOTE As of this printing, testing to determine the life of the developer roller is in progress.

Rotate the developer roller bracket down and into place over the doctor blade sealing foam (FIG 10).

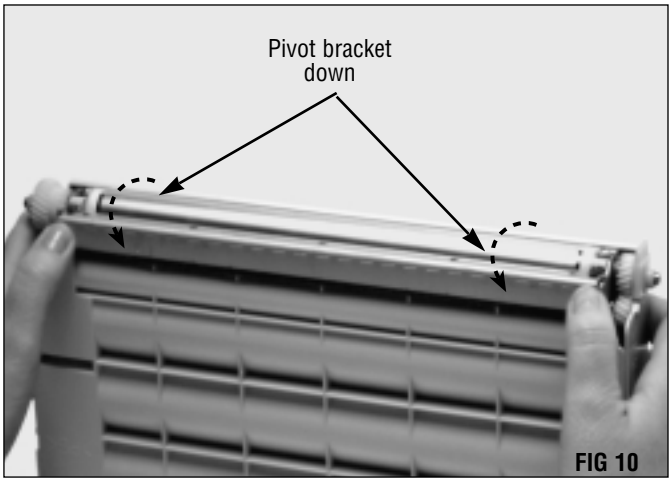


FIG 10

3. Replace the doctor blade

Set the doctor blade in place over the developer roller bracket (FIG 11). Be careful to not bend the metal support strip.

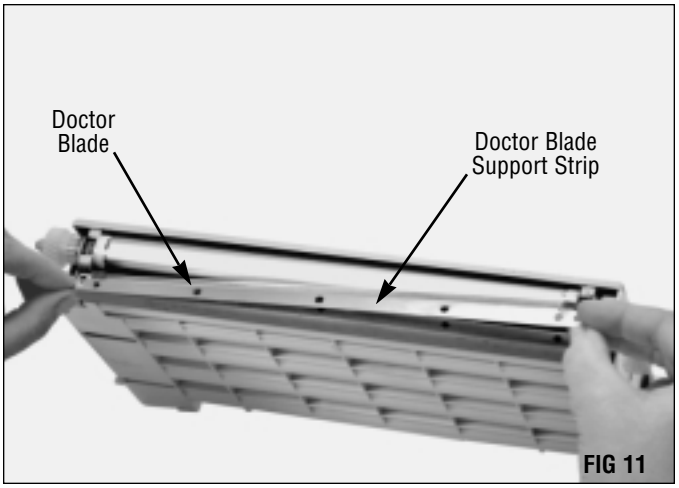


FIG 11

4. Replace the developer roller assembly support

Place the developer roller assembly top support in place over the doctor blade support strip and align the holes with those in the strip (FIG12).

Secure with the two short Phillips screws.

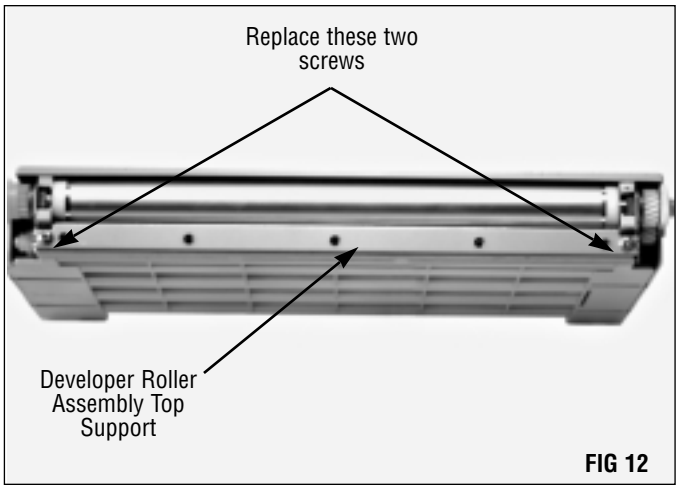


FIG 12

5. Replace the doctor blade cover

Seat the doctor blade cover in place aligning the five holes with those in the doctor blade support strip. Secure the cover with the five short Phillips screws (FIG 13).

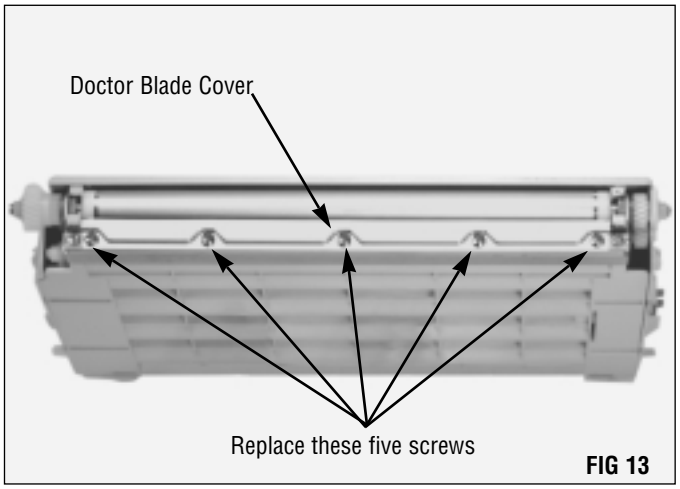


FIG 13

Notes

Imaging System Technology You Can Count On!

The development of cartridge imaging systems, such as the QMS® magicolor® 2 System, is the primary mission of our 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 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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