End of Life Plan

for Kodak S5000 Series

Scanners

Compositional Analysis

This compositional analysis applies to the Kodak S5000 Series Scanner Family. The following table identifies the location of materials that need special treatment by recyclers.

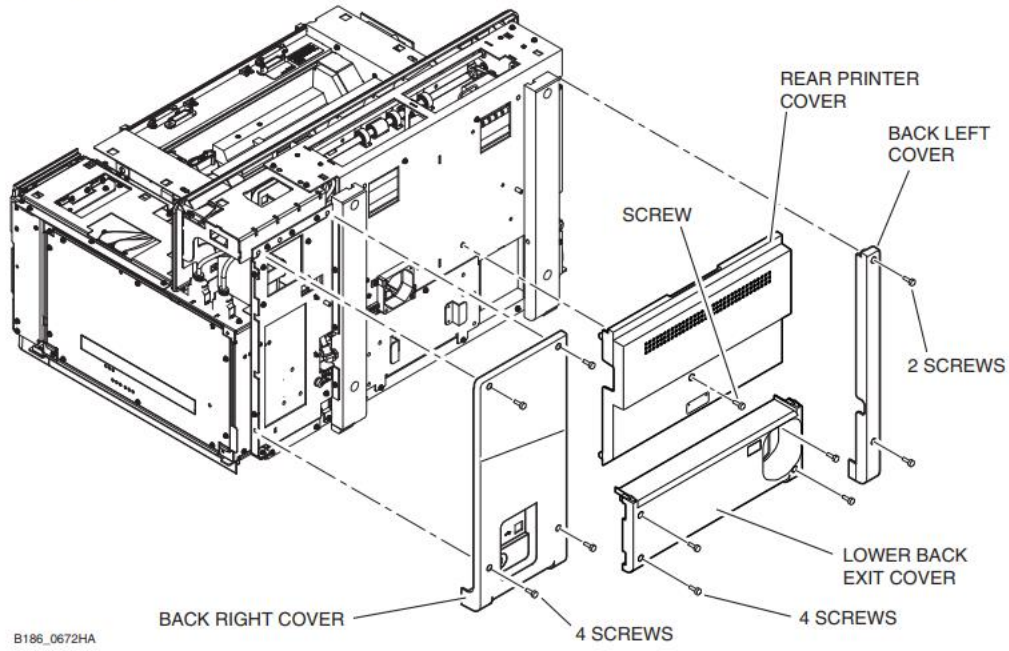
Material of concern	Present in part?	Describe Specific Component and/or location
External Battery	no	
Internal Battery	yes	Yes, Alkaline battery used on the main board.
Asbestos	no	
Backlighting lamps	no	
Beryllium Oxide	no	
Other forms of Beryllium	no	
Cadmium	no	
Capacitors with PCB's	no	
Capacitors with substances of concern and height > 25 mm, diameter > 25 mm or proportionately similar volume	no	
Chromium VI	no	
Gas discharge lamps	no	
Lead	yes	Meets RoHS restrictions - however has components with exemptions; steel shaft, optical glass, wafer - high temp solder, Plug Adapter (copper alloy), gear in motor (copper alloy)
Liquid Crystal Displays with a surface area > 100cm^2	no	
Mercury	no	
Plastic containing brominated flame retardants	Yes	Meets RoHS restrictions
Printed Circuit Boards >10 square centimeters	yes	• Power Supplies. • Electrical Box

		LED control PCB Scan module PCB See procedure for removal in this document
PVC/PVDC	yes	Harness insulation, cable, connectors…
Radio-active substances	no	
Refractory ceramic fibers	no	
Compartments / units / parts under pressure	no	
Compartments / units / contain liquids	yes	possible front imprinter unit with ink cartridge
Compartments / units / contain gasses	yes	Gas shocks to lift the pod
Compartments / units / contain "Hidden" mechanical springs or other equivalent parts	no	
Lasers	no	

Disassembly instructions for S5000 Series Scanners

1a. Back COVERS - Kodak S5160 / S5180 Scanners

To Remove



Caution

Dangerous Voltage

[1] De-energize the SCANNER.

[2] Disconnect:

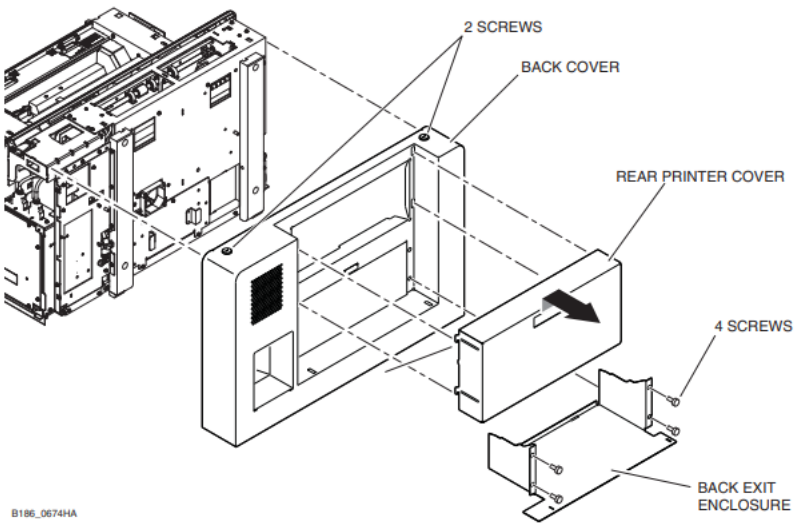
- main power
- USB CABLE

[3] Locate the COVER that you will remove.

COVER	Do:
BACK RIGHT COVER	a. Remove: • 4 SCREWS • BACK RIGHT COVER
BACK LEFT COVER	a. Remove: • 2 SCREWS • BACK LEFT COVER
REAR PRINTER COVER	a. Remove: • SCREW • REAR PRINTER COVER
LOWER BACK EXIT COVER	a. Remove: • 4 SCREWS • LOWER BACK EXIT COVER

1b. Back COVERS - Kodak S5210 Scanners

To Remove



Caution

Dangerous Voltage

[1] De-energize the SCANNER.

[2] Disconnect:

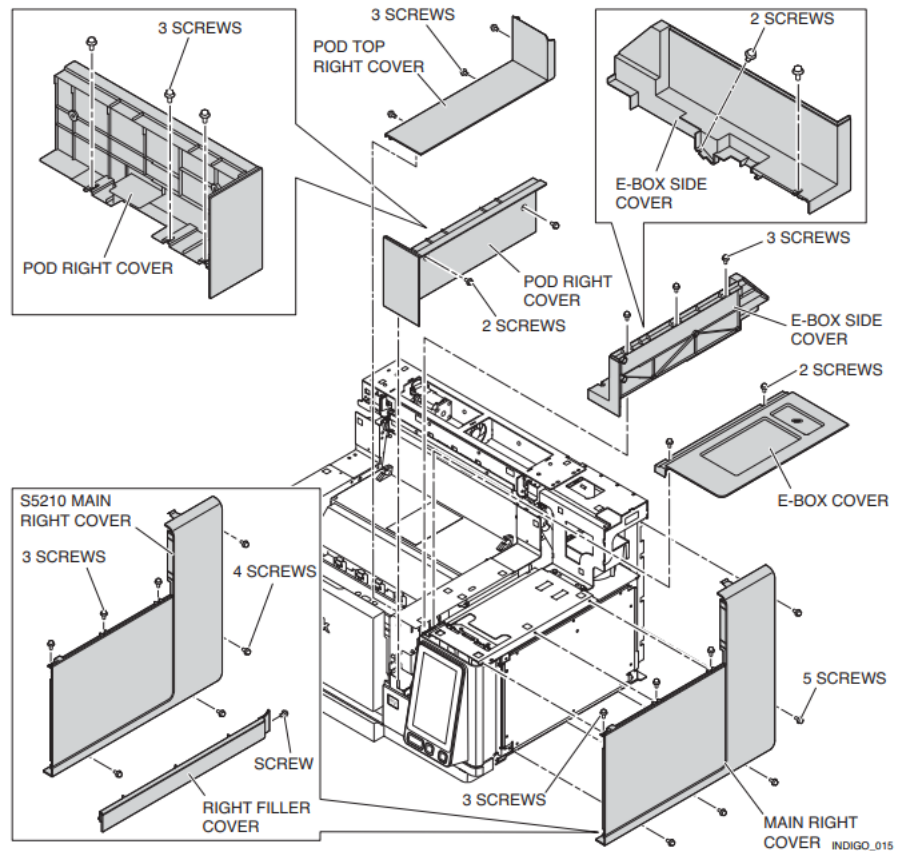
- main power
- USB CABLE

[3] Locate the COVER that you will remove.

COVER	Do:
REAR PRINTER COVER	a. Remove the REAR PRINTER COVER.
BACK EXIT ENCLOSURE	a. Remove: • 4 SCREWS • BACK EXIT ENCLOSURE
BACK COVER	a. Loosen the 2 SCREWS. b. Remove the BACK COVER.

2. Right Covers

To Remove



Caution

Dangerous Voltage

[1] De-energize the SCANNER.

[2] Disconnect the main power.

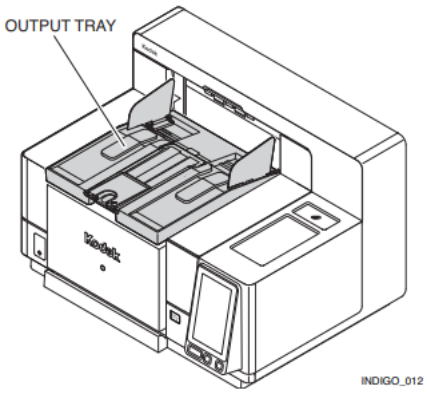
[3] Locate the COVER that you will remove.

COVER	Do:
POD TOP RIGHT COVER	a. Remove:
	• OUTPUT TRAY
	• PRINTER COVER - See Front and Top COVERS
	b. Remove:
	• 3 SCREWS
	• POD TOP RIGHT COVER
POD RIGHT COVER	a. Remove the OUTPUT TRAY
	b. Loosen the 3 SCREWS.
	c. Remove:
	• 2 SCREWS
	• POD RIGHT COVER

E-BOX COVER	a. Remove: • 2 SCREWS
	• E-BOX COVER
MAIN RIGHT COVER - S5160/S5180 Scanners	a. Remove:
	• Back COVERS - Kodak S5160 / S5180 Scanners
	• E-BOX COVER - See Right COVERS
	b. Loosen the 3 SCREWS.
	c. Remove:
	• 5 SCREWS
	• MAIN RIGHT COVER
MAIN RIGHT COVER - S5210 Rear Exit Scanners	a. Remove:
	• Back COVERS - Kodak S5210 Scanners
	• Remove the E-BOX COVER. See Right COVERS
	b. Remove:
	• SCREW
	• RIGHT FILLER COVER
	c. Loosen the 3 SCREWS.
	d. Remove:
	• 4 SCREWS
	• MAIN RIGHT COVER
E-BOX SIDE COVER	a. Remove the E-BOX COVER. See Right COVERS
	b. Remove:
	• 3 SCREWS
	• 2 SCREWS
	• E-BOX SIDE COVER

3. Output Tray

To Remove



[1] Remove the OUTPUT TRAY.

4. Front and Top Covers

To Remove

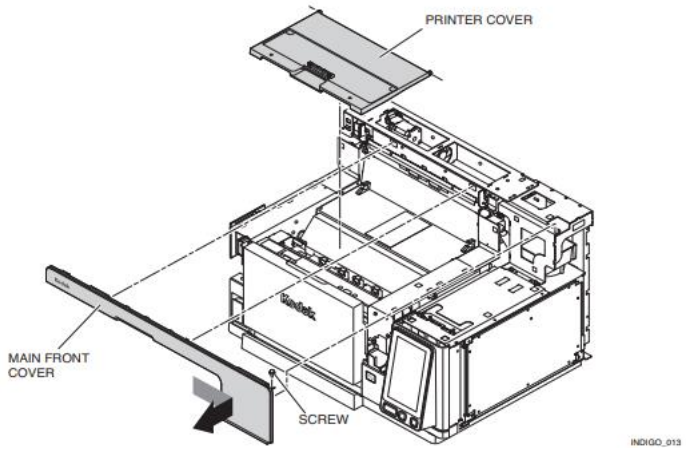
Caution

Dangerous Voltage

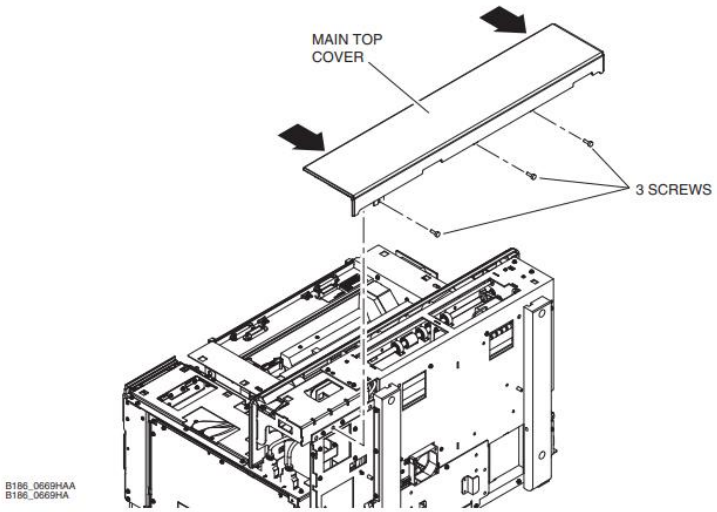
[1] De-energize the SCANNER.

[2] Disconnect the main power.

[3] Locate the COVER that you will remove.

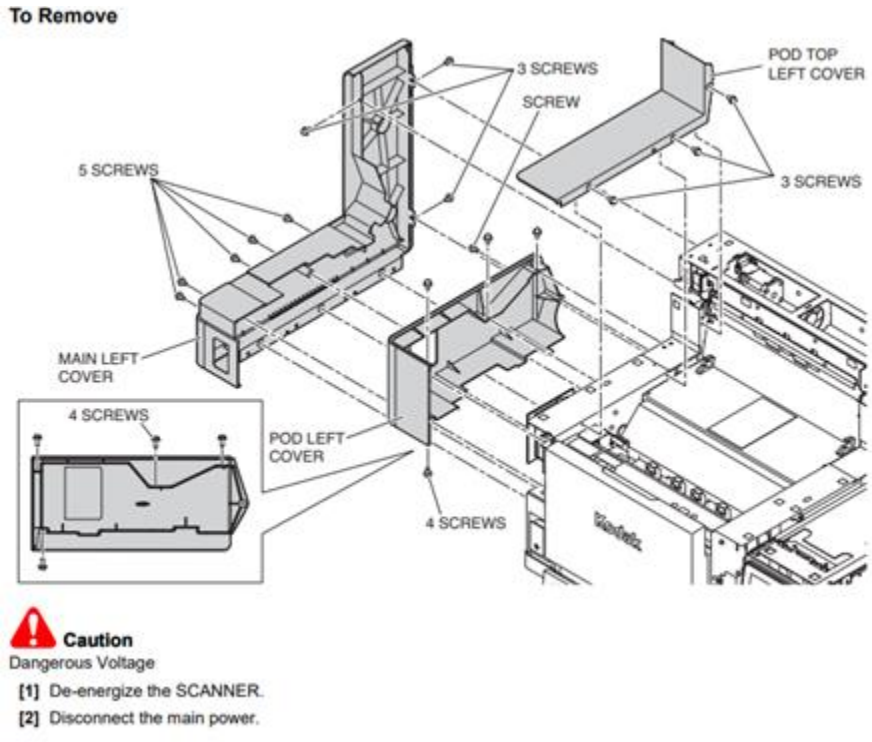


COVER	**Do:**
PRINTER COVER	a. Remove the PRINTER COVER.
MAIN FRONT COVER	a. Remove:
	• BACK RIGHT COVER - Kodak S5160 / S5180Scanners
	• E-BOX COVER
	• MAIN RIGHT COVER
	b. Remove:
	• SCREWS
	• MAIN FRONT COVER



COVER	Do:
MAIN TOP COVER	a. Remove:
	• Back COVERS - Kodak S5210 Scanners
	b. Remove:
	• 3 SCREWS
	• MAIN TOP COVER

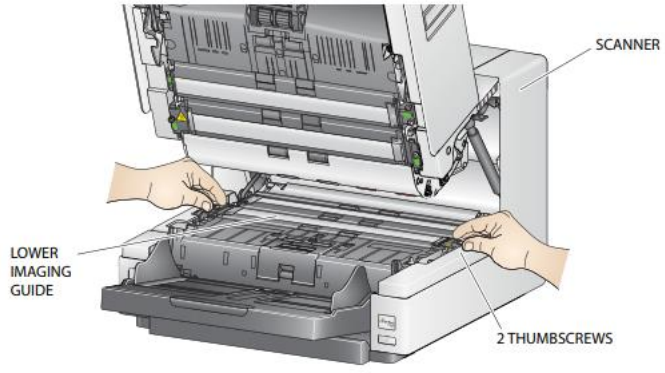
5. Left Covers



COVER	**Do:**
POD TOP LEFT COVER	a. Remove:
	• OUTPUT TRAY
	• PRINTER COVER - See Front and Top COVERS
	b. Remove:
	• 3 SCREWS
	• POD TOP LEFT COVER
POD LEFT COVER	a. Remove
	• OUTPUT TRAY
	• PRINTER COVER - See Front and Top COVERS
	• POD TOP LEFT COVER
	b. Loosen the 4 SCREWS.
	c. Remove:
	• SCREWS
	• POD LEFT COVER
MAIN LEFT COVER - S5160/S5180 Scanners	a. Remove the BACK LEFT COVER
	b. Loosen the 3 SCREWS.
	c. Remove:
	• 5 SCREWS
	• MAIN LEFT COVER
MAIN LEFT COVER – S5210 Scanners	a. Remove the BACK LEFT COVER
	b. Remove:
	• SCREW
	• LEFT FILLER COVER
	c. Loosen the 3 screws
	d. Remove:
	• 4 SCREWS
	• MAIN LEFT COVER

6. Lower Imaging Guide

To Remove

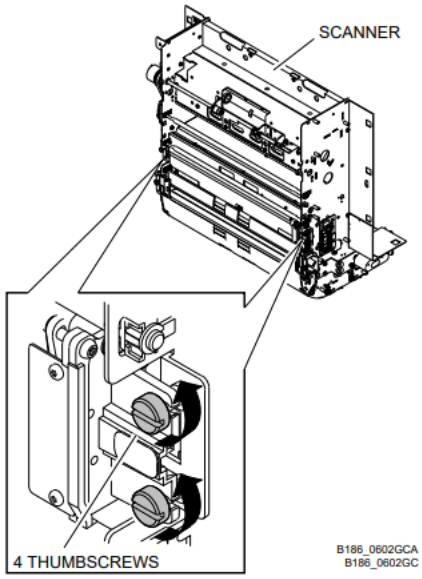


Caution
Dangerous Voltage

[1] De-energize the SCANNER.
[2] Disconnect the main power.
[3] Loosen the 2 THUMBSCREWS.
[4] Remove the LOWER IMAGING GUIDE.

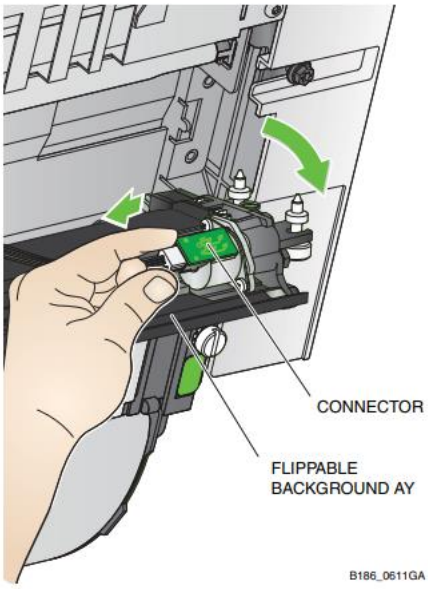
7. Flippable Background AY

To Remove



Caution
Dangerous Voltage

[1] De-energize the SCANNER.
[2] Disconnect the main power.
[3] Loosen the 4 THUMBSCREWS.

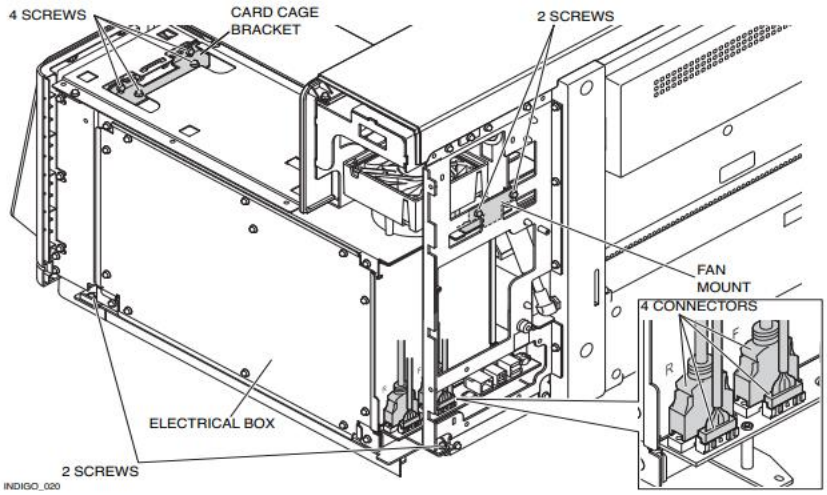


[4] Disconnect the CONNECTOR.
[5] Remove the FLIPPABLE BACKGROUND AY.

8. Electrical Box

Remove:
- BACK RIGHT COVER
- E-BOX COVER
- MAIN RIGHT COVER

To Remove



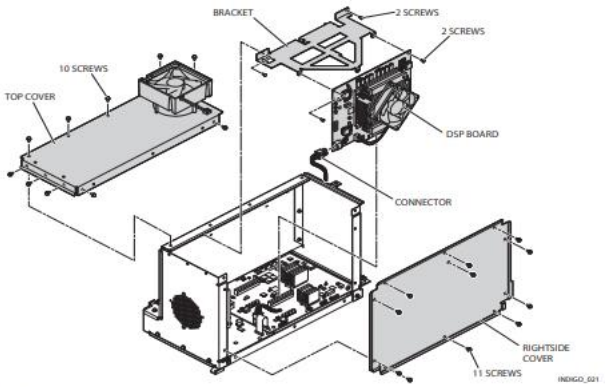
[1] Remove:
- 2 SCREWS
- FAN MOUNT
- 4 SCREWS
- CARD CAGE BRACKET

[2] Disconnect the 5 CONNECTORS.

[3] Remove:
- 2 SCREWS
- ELECTRICAL BOX

9. DSP Board

To Remove



[1] Remove:
- 10 SCREWS
- TOP COVER
- 11 SCREWS
- SIDE COVER
- 4 SCREWS
- BRACKET

[2] Disconnect the CONNECTOR from the DSP BOARD.

ESD
Possible damage from electrostatic discharge.

[3] Remove the DSP BOARD. Use two hands. ***Do not*** flex the BOARD.

10. Main Board

Remove:
- Electrical Box

To Remove

[1] Remove:
- 11 SCREWS
- SIDE COVER

[2] Disconnect 2 CONNECTORS.

[3] Remove:
- 6 SCREWS
- BOTTOM COVER
- 4 SCREWS

[4] Disconnect 1 CONNECTOR.

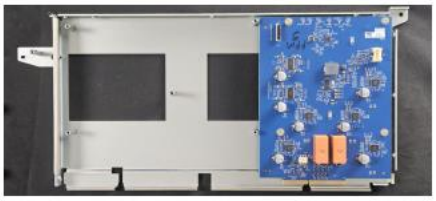
ESD
Possible damage from electrostatic discharge.

[5] Remove MAIN BOARD.

11. Motor Controller Board

Remove:
- Electrical Box
- Main Box

To Remove



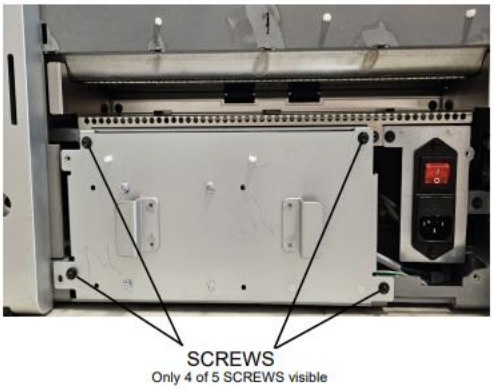
ESD
Possible damage from electrostatic discharge.

[1] Remove:
- 4 SCREWS
- MOTOR CONTROL BOARD

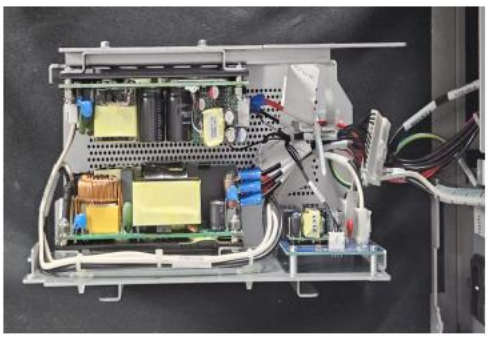
12. Power Supplies Removal

Kodak S5160 / S5180 SCANNERS

To Remove



[1] Remove the 5 SCREWS.

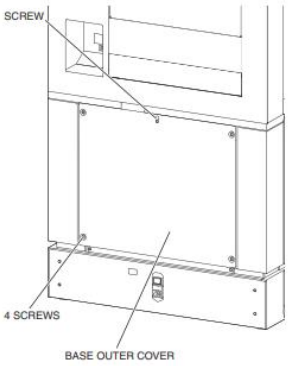


[2] Disconnect:
- 2 CONNECTORS
- 1 CONNECTORS

[3] Remove the POWER SUPPLY AY.

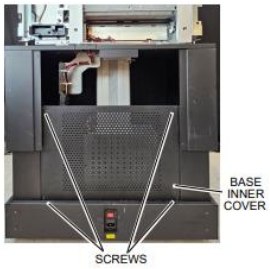
Kodak S5210 SCANNER

To Remove

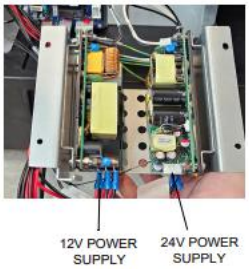


Caution
Dangerous Voltage

[1] De-energize the SCANNER.
[2] Disconnect the main power.
[3] Loosen the SCREW.
[4] Remove:
- 4 SCREWS
- BASE OUTER COVER



[5] Remove:
- 4 SCREWS
- BASE INNER COVER



[6] Locate the POWER SUPPLY you want to remove.

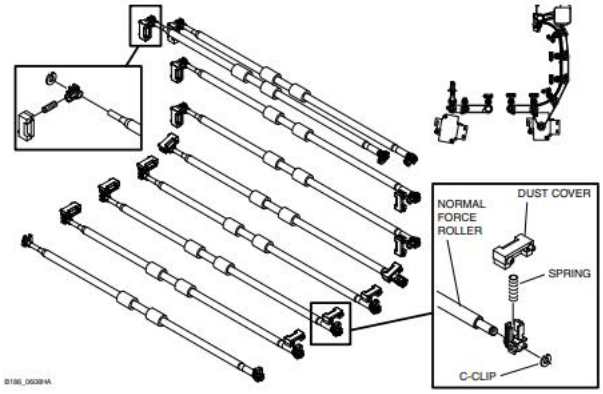
POWER SUPPLY	Do:
AC DISTRIBUTION BOARD	a. Remove the 4 SCREWS. b. Disconnect the 4 CONNECTORS. c. Remove the AC DISTRIBUTION BOARD.
12V POWER SUPPLY	a. Remove the 4 SCREWS. b. Disconnect the 2 CONNECTORS. c. Remove the 12V POWER SUPPLY.
24V POWER SUPPLY	a. Remove the 4 SCREWS. b. Disconnect the 3 CONNECTORS. c. Remove the 24V POWER SUPPLY.

13. LED AY

Upper LED AY

Remove:
- Output Tray
- Printer Cover
- POD Top Left Cover
- POD Left Cover
- Upper Imaging Guide
- Lower POD Baffle

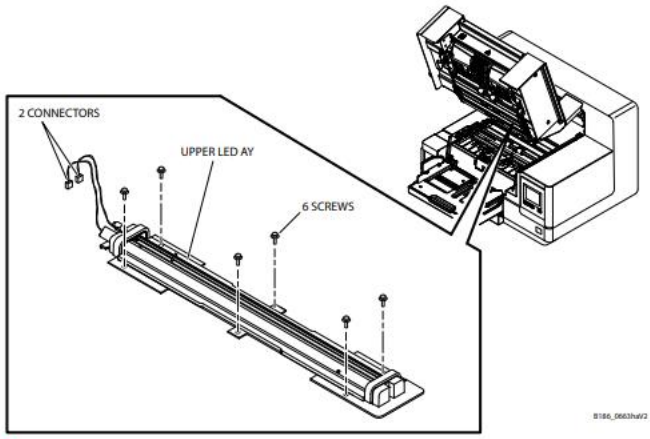
To Remove



[1] Locate NORMAL FORCE ROLLER #3, remove:
- DUST COVER
- SPRING
- C-CLIP
- NORMAL FORCE ROLLER

Note
Keep all parts together for each roller to reinstall.

[2] Locate NORMAL FORCE ROLLER #4, remove:
- DUST COVER
- SPRING
- C-CLIP
- NORMAL FORCE ROLLER



ESD
Possible damage from electrostatic discharge.

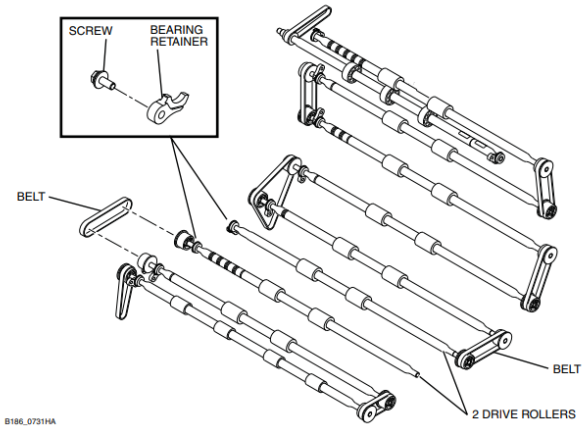
[3] Disconnect the 2 CONNECTORS.
[4] Remove:
- 6 SCREWS
- UPPER LED AY

Lower LED AY

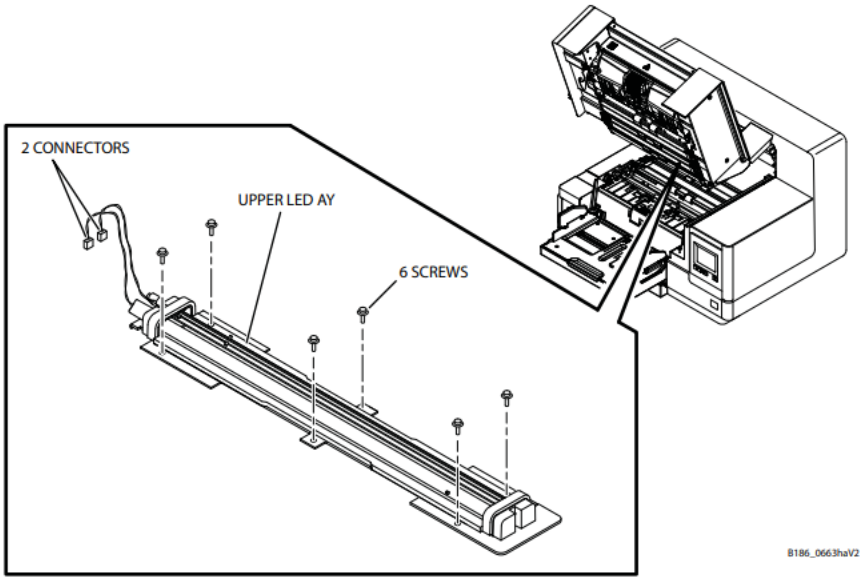
Remove:
- Output Tray
- Printer Cover
- Back Left Cover
- Main Left Cover
- E-Box Cover
- E-Box Side Cover
- Lower Imaging Guide

• Flippable Background AY

To Remove



[1] For each of 2 DRIVE ROLLERS, remove:
- SCREW
- BEARING RETAINER
- BELT
- DRIVE ROLLER



[2] Disconnect the 2 CONNECTORS.

[3] Remove:
- 6 SCREWS
- LOWER LED AY

EOL Strategy

The product EOL strategy will be based on market needs, regulations, financial impact, etc. For example, the WEEE Directive in the European Union requires that a collection and treatment infrastructure is in place to manage our products at end-of-life. This obligation will be met through membership in a variety of governmental and industry-led collection schemes, as well as Kodak Alaris initiated strategies developed specifically for Kodak Alaris products. Strategies such as re-use, re-conditioning, strip and salvage, responsible disposal, etc. can vary by region and change with time.

Regulatory Requirements

The hazardous materials that are contained within this product need to be handled in compliance with the local requirements when discarded by the final user and sent for end-of-life treatment.

For recycler processes, substances, preparations, and components may be removed manually, mechanically, or chemically, metallurgically with the result that hazardous substances, preparation, components are contained in an identifiable waste stream or identifiable part of a waste stream at the end of the treatment process.

1. Batteries must be processed by vendors capable of and experienced in recovering and recycling lead, acid, cadmium, nickel, copper, zinc, and other metals that may be present in batteries.
2. LCDs (liquid crystal displays) must be processed by vendors capable of and experienced in recovering mercury in backlights.
3. PC (printed circuit) boards must be processed by a smelter (or other thermal process) capable of and experienced in recovering precious metals (gold and so forth) and heavy metals (lead and so forth) for reuse or by a chemical recovery process. Circuit components may be extracted for reuse prior to smelting.
4. Plastics should be recycled for use in new products, components, and materials, as substitutes for other raw materials, or recycled in another beneficial manner. When recycling is not economically practical, plastics should be processed for energy recovery at a facility that is designed to control and monitor emissions from the process. See section 14.9 for related information.
5. Printing supplies collected as part of hardware recycling (for example, a print cartridge present in a printer at the time of its collection): Original HP printer cartridges must be processed using the HP Inkjet cartridge and LaserJet toner cartridge return and recycling programs in countries where HP programs are available. All other print supplies must be recycled or disposed of in an environmentally responsible manner compliant with applicable laws and regulations.
6. Metal (other than in PC boards): Acceptable processing includes liberation of metal items (manually or mechanically), volume reduction for transport (shredding, baling, and so forth), and refining by smelters or foundries (or similar) for the purpose of preparing the metal for reuse. To maximize recycling rates, sending whole products to a smelter is not authorized without approval from HP and demonstration that the smelter is capable of capturing all of the following for reuse: copper, precious metals (such as gold and silver); steel and aluminum; and, for CRT devices, lead.
7. Incineration: If lead-bearing electronic components (such as circuit boards), batteries, polyvinyl chloride (PVC) plastics, mercury lamps, or any material classified as hazardous waste under applicable regulations are disposed of by incineration, the incinerator must meet 99.99%

destruction removal efficiency (DRE) for all regulated hazardous contaminants and 99.9999% DRE for dioxins.

WEEE

Equipment Labeling Plans

As per WEEE requirements the equipment is labeled with the dustbin symbol.

Information for Customers and Treatment Facilities

When the last user wishes to discard this product, the information that will guide the customer's action will be available on-line. The disposal information will be made available to the recycler through instructions via Kodak Alaris website.

Information provided to the user in the User Manual includes the meaning of the dustbin symbol, instructions not to dispose as unsorted municipal waste, available collection system and their role in contributing to WEEE goals and potential environmental and health effects as a result of the presence of hazardous substances.