Disassembly of Waste Electrical and Electronic Equipment (WEEE) Manual

EU Waste Electronic and Electrical Equipment Directive require producers to provide information of the different electronic and electrical materials and components found in their products at its end-of-life, and disassembly references to treatment and recycling facilities.

- 1. Product information
- 2. Materials and components list for selective treatment
- 3. Disassembly tools
- 4. Disassembly references

The following information is intended only for the use of recognized treatment and recycling facilities.

Section 1: Product information

Model name(s) — The product models are group together in series and are mechanically equivalent.

Lexmark MSx31

MS331dn, B3340dw, MS431dn, B3442dw, MS431dw, M1342

Lexmark MXx31

MX331adn, MX431adn, MX431adw, MB3442adw

<u>Section 2:</u> Materials and components list for selective treatment <u>Table 2:</u> Materials and components list for selective

treatment

Description	Count	Notes
Polychlorinated biphenyls (PCB) containing capacitors	0	N/A
Mercury containing components, such as switches or backlighting lamps	0	N/A
Batteries	1	***************************************
		Total Count = 1

		Lithium Manganese Oxide coin
		cell located on the Controller
		card
Printed circuit boards greater than 10 cm ²	141	******
	multiple	Minimum Count = 8
		For details, see Annex B

		Options:
		1 – 550 Sheet Tray
		Note: Fax is standard for MX-B427W
Toner cartridges, liquid and pasty, as well as colour toner	2	1 – Toner cartridge
Plastic component(s) that may contain BFR (brominated§ flame	multiple	1 – Imaging unit
retardants)	manipie	Minimum count= 16
N ((() () () () () () () () (For details, See Annex A
Note (§) - This product may contain plastic parts with brominated flame retardants. Recycler should treat these parts separately. See section 4.3 Disclaimer.		******
		Options:
		+2 – for each 550
		Paper handling
	_	******
Asbestos waste and components which contain asbestos Cathode ray tubes	0	N/A N/A
Califord ray tubes Chlorofluorocarbons (CFC), Hydrochlorofluorocarbons (HCFC) or	0	N/A N/A
Hydrofluorocarbons (HFC), Hydrocarbons (HC)	Ü	14/7
Gas discharge lamps	0	N/A
Liquid Crystal Display (LCD) greater than 100 cm ² and those back-	0	N/A
lighted with Gas discharge lamps External electrical cables	1	Power cord located on the back
External electrical cables	'	lower left quadrant
Components containing refractory fibres	0	N/A
Components containing radioactive substances	0	N/A
Electrolyte capacitors containing substances of concern	1	Capacitor located on Power
(capacitors with height > 25 mm, diameter > 25 mm or proportionately similar volume)		Supply
Electrical and Electronic (EE) Customer Replaceable Paper	multiple	See Customer Replaceable
handling devices		Paper handling devices
·		For details, See Annex C
Electrical and Electronic (EE) Customer Replaceable	multiple	See External Card options
Internal/External Card options		For details, See Annex D

Section 3: Common Tools for Disassembly

Table 3.1 - Disassembly tools

i abie 5.	i - Disassembly tools
Item	Description
1	#2 Phillips screwdriver, magnetic
2	Wire cutter
3	E-clip puller or small flat-head screwdriver
4	Standard slotted head screwdriver

Section 4: Disassembly references

4.1 Removal procedure(s)

WEEE materials and components removal procedures are available upon request.

Please Contact: recycling@lexmark.com

4.2 Graphical illustration of material's and component's location

CD > 100 cm²

PCBs > 10 cm²

Printer components containing Brominated flame retardants

Battery

Please note: Graphic illustrations contained in this document may differ slightly from actual components

4.3 Disclaimer

Statement on WEEE Bromine Levels

Manufacturer is compliant with the European Directive 2012/19/EU and European Commission's mandated technical specification CLC/TS 50625-3-1:2015 stating that plastic containing brominated flame retardants (BFR) must be removed from any separately collected WEEE (Article 8, Annex VII) if total bromine concentration in the fraction is known to be >2000 ppm, or expected to be >2000 ppm, or if it is not declared. Concentrations of bromine <2000 ppm are acceptable for reuse and do not require separation, so that the re-use and recycling of components or whole appliances is not hindered per Annex II, Section 3 of the WEEE Directive (2002/96/EU), and Annex VII, Section 3 of the WEEE Directive (2012/19/EU).

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Section 5: Supplies

CD > 100 cm²

PCBs > 10 cm²

Printer components containing Brominated flame retardants

Battery



Figure 5.1: Toner Cartridge

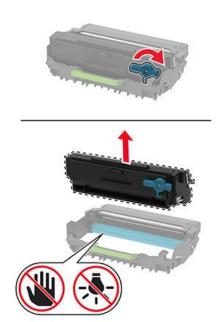


Figure 5.2: Imaging Unit

Table 6: Supplies – Printed Circuit Boards >10cm² and Plastic with Brominated flame retardants

	name retardante					
Item	Description					
	None					
LCD>100cm ² = PCBs>10cm ² = BFR Plastics =	0					

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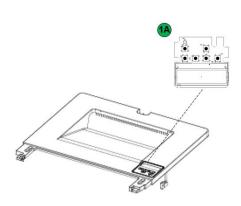
Section 6: Control Panel

CD > 100 cm²

PCBs > 10 cm²

Printer components containing Brominated flame retardants

Battery



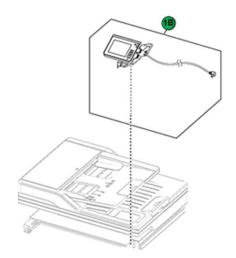


Figure 6.1: 2-line LCD Control Panel

Figure 6.2: 2.8"LCD Control Panel

	Table 6: Control Panel - Printed Circuit Boards >10cm² and Plastic with Brominated flame retardants					
Item	Description					
1A	Control panel board in Control panel assembly					
1B	2 Line Operator panel display assembly					
LCD>10 PCBs>1	Table Component Count (without options) LCD>100cm² = 0 PCBs>10cm² = 1 BFR Plastics = 0 Battery = 0					

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Section 7: Scanner

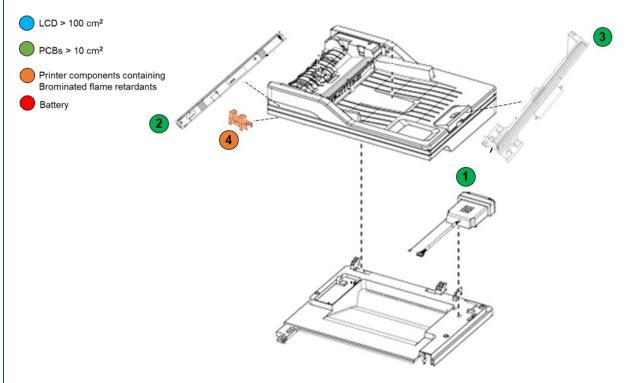


Figure 7.1: Imaging ADF

	<u>Table 7:</u> Scanner - Printed Circuit Boards >10cm ² and Brominated§ Plastic Components					
Item	Description					
1	Fax Card					
2	CIS Image sensor ADF within ADF Scanner					
3	CIS Image sensor Flatbed within Flatbed scanner assembly					
4	Sensor:ADF					
LCD> PCBs BFR I	Table Component Count (without options) LCD>100cm² = 0 PCBs>10cm² = 3 BFR Plastics = 1 Battery = 0					

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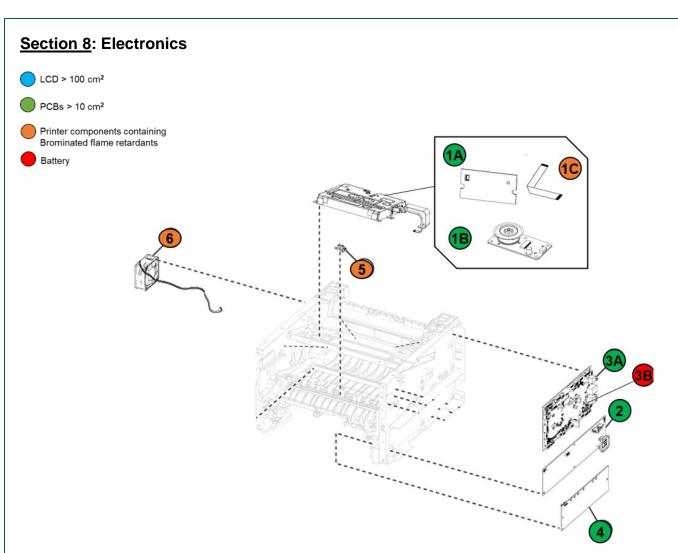


Figure 8.1: Electronics

_	able 9 : Electronics - Printed Circuit Boards >10cm ² and Plastic with Brominated ame retardants
Item	Description
1 A	Printhead PCBA
1B	Printhead Driver PCBA
1C	PrintheadTape
2	LVPS
3A	Controller board
3B	Battery
4	HVPS
5	Sensor (input) 2x
6	Main fan
LCD>100 PCBs>10	mponent Count (without options) lcm² = 0 lcm² = 5 stics = 3 = 1

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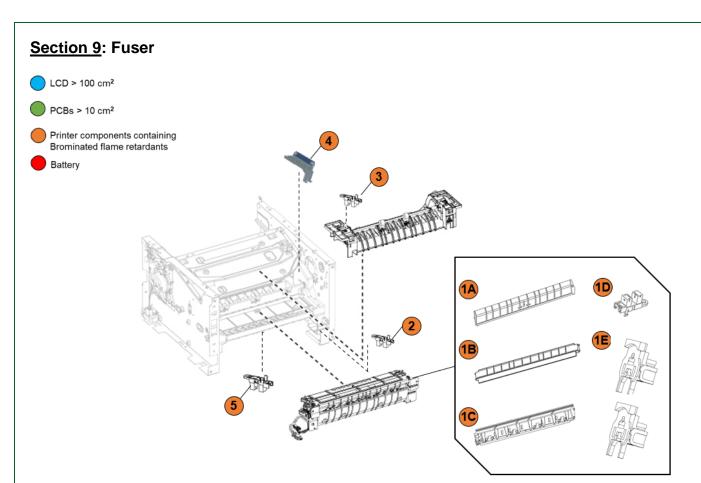


Figure 9.1: Fuser

	<u>Table 9</u> : Fuser - Printed Circuit Boards >10cm ² and Plastic with Brominated flame retardants					
Item	Description					
1A	Guide - Lower Exit					
1B	Guide – Entry					
1C	Guide - Upper Exit					
1D	Sensor Photo Interrupter					
1E	Edge aligner guide (2x)					
2	Sensor (input)					
3	Sensor (Bin full)					
4	Sensor (TDS)					
5	Sensor (Photo)					
LCD> PCBs: BFR P	Table Component Count (without options) LCD>100cm² = 0 PCBs>10cm² = 0 BFR Plastics = 10 Battery = 0					

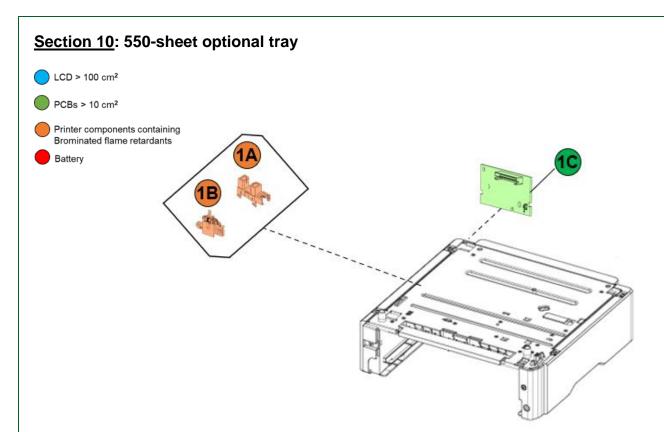


Figure 10.1: 550 sheet optional tray

	<u>Table 10</u> : 550 sheet optional tray - Printed Circuit Boards >10cm ² and Plastic with Brominated flame retardants					
Item	Description					
1A	Sensor (photo interrupt)					
1B	Sensor (Trailing edge)					
1C	Optional PHO cardt					
LCD> PCBs: BFR P	Table Component Count (without options) LCD>100cm² = 0 PCBs>10cm² = 0 BFR Plastics = 0 Battery = 0					

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$\underline{\textbf{Annex A}} - \textbf{Printer components with Brominated} \\ \S \ \textbf{Flame Retardants}$

Item	Description	Parts Marking	Qty	MSx31	MXx31	Location
1	Main fan	N/A	1	X	X	Electronics
2	Printhead tape	N/A	1	X	X	Electronics
3	Sensor (input)	N/A	2	Х	X	Electronics
4	Main fan	N/A	1	X	X	Electronics
5	Guide - Lower Exit	PET (GF+MD) 4	1	Х	X	<u>Fuser</u>
6	Guide - Entry	PET (GF+MD) 4	1	X	X	<u>Fuser</u>
7	Guide - Upper Exit	PET (GF+MD) 4	1	Х	Х	<u>Fuser</u>
8	Sensor Photo Interrupter	N/A	1	X	X	<u>Fuser</u>
9	Edge aligner guide (2x)	N/A	2	Х	Х	<u>Fuser</u>
10	Sensor (input)	N/A	1	Х	Х	<u>Fuser</u>
	Sensor (Bin full)	N/A	1	Х	Х	<u>Fuser</u>
	Sensor (TDS)	N/A	1	Х	Х	<u>Fuser</u>
	Sensor (Photo)	N/A	1	Х	Х	<u>Fuser</u>
11	Sensor: ADF	N/A	1		Х	<u>Scanner</u>
12	Sensor (photo interrupt)	N/A	1	optional	optional	550 sheet optional tray
13	Sensor (Trailing edge)	N/A	1	optional	optional	550 sheet optional tray
	Minimum Cour	nt (without options) =	16			

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Annex B – Printed Circuit Boards >10cm ²							
Item	Description	Qty	MSx31	MXx31	Location		
1	Printhead PCBA	1	X	Х	<u>Electronics</u>		
2	Printhead driver PCBA	1	X	X	<u>Electronics</u>		
3	LVPS	1	X	Х	<u>Electronics</u>		
4	Controller board	1	X	X	<u>Electronics</u>		
5	HVPS	1	X	Х	<u>Electronics</u>		
6	CIS Image sensor ADF	1		X	<u>Scanner</u>		
7	CIS Image sensor Flatbed	1		X	<u>Scanner</u>		
8	Fax Card	1		X	<u>Scanner</u>		
9	PHO card	1	optional	optional	550 sheet optional tray		

Annex C – Electrical and Electronic (EE) Customer Replaceable Paper handling devices

Minimum Count (without options) =

Item	PN	Description	MSx31	MXx31	Locations
1	41X2612	550-sheet tray	X	X	Paper handling devices

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<u>Annex D</u> – Electrical and Electronic (EE) Customer Replaceable Internal/ External Card Options

Item	PN	Description	MSx31	MXx31	Locations
1	27X6410	MarkNet N8372 802.11 a/b/g/n/ac wireless print server (MX431, MB3442, XM1342)		X	Attached to Controller board

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