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 grouped together in series and are mechanically equivalent

Lexmark MX32x MX321adn, MX321adw, MB2338adw

Lexmark MX42x MX421ade, MB2442adwe

Lexmark MX52x MX521de, MX521ade,MB2546adwe, MX522adhe

Lexmark MX62x MX622ade, MX622ade, MX622adhe, MB2650adwe

<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	<u>Total Count</u> = <u>1</u>

		Lithium Manganese Oxide coin cell located on the Controller card
Printed circuit boards greater than 10 cm ²		*****
	multiple	<u>Total Count</u> = <u>11</u> For details, see <u>Annex B</u>
		Options: 1 – Hard disk drive 1 – Wireless module card 1 – 250/ 550 Sheet Tray ************************************
Toner cartridges, liquid and pasty, as well as colour toner	2	1 – Toner cartridge 1 – Imaging unit
Plastic component(s) that may contain BFR (brominated [§] flame retardants) Note (§) - This product may contain plastic parts with brominated flame retardants. Recycler should treat these parts separately. See section 4.3 Disclaimer.	multiple	$\frac{\text{Count}}{\text{Count}} = \underline{33}$ For details, See <u>Annex A</u> $\frac{\text{Options:}}{\underline{+5}} - \text{ for each 250/ 550}$ Paper handling
Asbestos waste and components which contain asbestos	0	N/A
Cathode ray tubes Chlorofluorocarbons (CFC), Hydrochlorofluorocarbons (HCFC) or Hydrofluorocarbons (HFC), Hydrocarbons (HC)	0	N/A N/A
Gas discharge lamps	0	N/A
Liquid Crystal Display (LCD) greater than 100 cm ² and those back- ighted with Gas discharge lamps	0	N/A
External electrical cables	1	Power cord located on the back lower left quadrant
Components containing refractory fibres	0	N/A
Components containing radioactive substances	0	N/A
Electrolyte capacitors containing substances of concern (capacitors with height > 25 mm, diameter > 25 mm or proportionately similar volume)	1	Capacitor located on Power Supply
Electrical and Electronic (EE) Customer Replaceable Paper handling devices	multiple	See Customer Replaceable Paper handling devices For details, See Annex C
Electrical and Electronic (EE) Customer Replaceable Internal/External Card options	multiple	See External Card options For details, See Annex D

Section 3: Common Tools for Disassembly

Table 3.1 - Disassembly tools

Table 5.	
ltem	Description
1	#2 Phillips screwdriver, magnetic
2	Wire cutter
3	E-clip puller or small flat-head screwdriver
4	Standard slotted head screwdriver

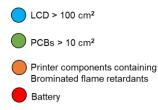
Section 4: Disassembly references

4.1 Removal procedure(s)

WEEE materials and components removal procedures are available upon request.

Please Contact: recycling@lexmark.com

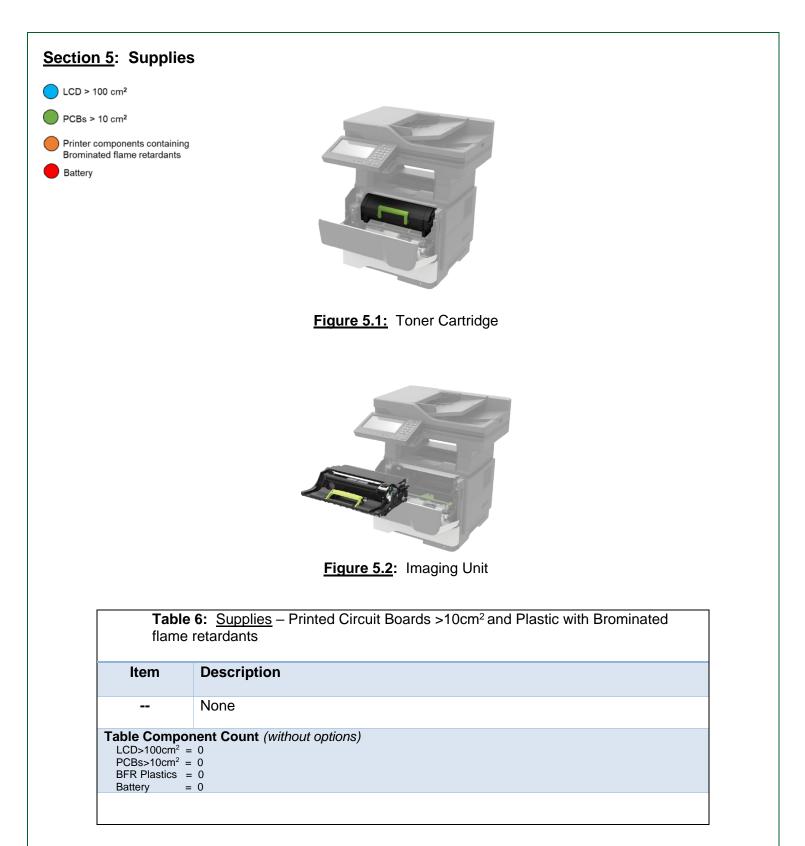
4.2 Graphical illustration of material's and component's location



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).



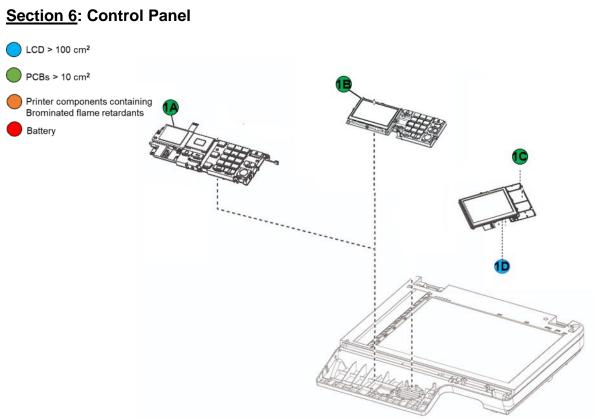
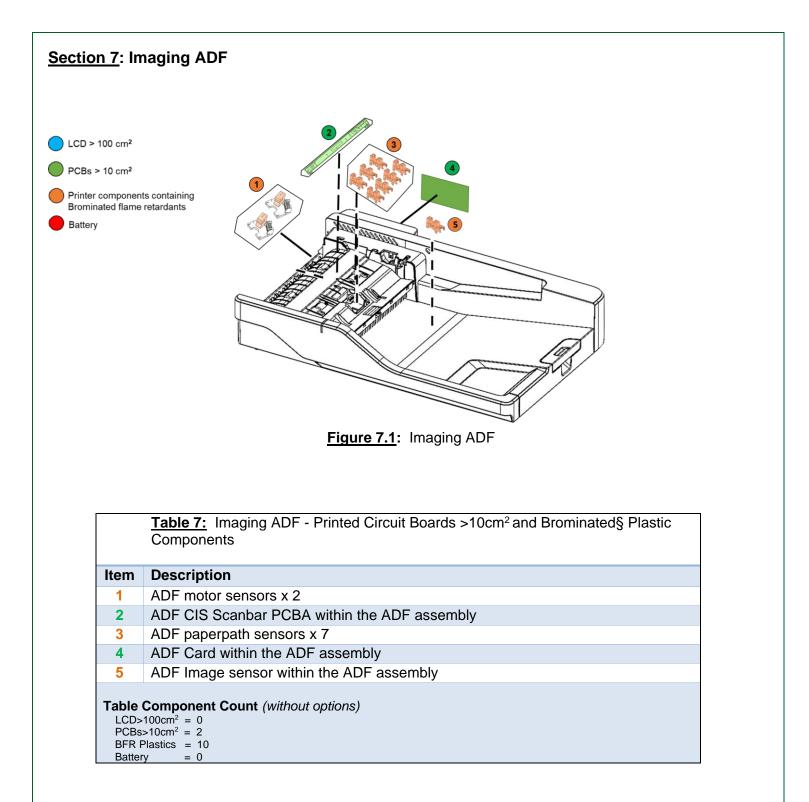


Figure 6.1: Control Panel

Table 6: Control Panel Printed Circuit Boards > 10 cm ² and Plastic with Brominated flame retardants					
ltem	Description				
1 A	2.4 in LCD Control panel display assembly UICC board				
1B	4.3 in LCD Control panel display assembly UICC board				
1C	7 in LCD Control panel display assembly UICC board				
1D	7 in LCD display				
LCD>10 PCBs>1	Demponent Count (without options) 0cm² = 1 0cm² = 1 stics = 0 = 0				



	atbed Scanner
CD > 100 cm ²	
CBs > 10 cm ²	
rinter component rominated flame	s containing retardants
attery	
	Figure 8.1: Imaging ADF Table 8: Imaging ADF - Printed Circuit Boards >10cm² and Plastic with Brominated ame retardants
Item	Description
1	CIS Scanbar PCBA within Flatbed scanner frame
2	Image sensor within Flatbed scanner assembly
LCD>100	perponent Count (without options) Dom ² = 0 Dom ² = 1 stics = 1

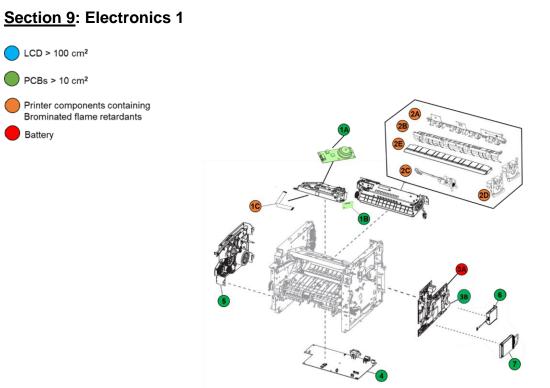
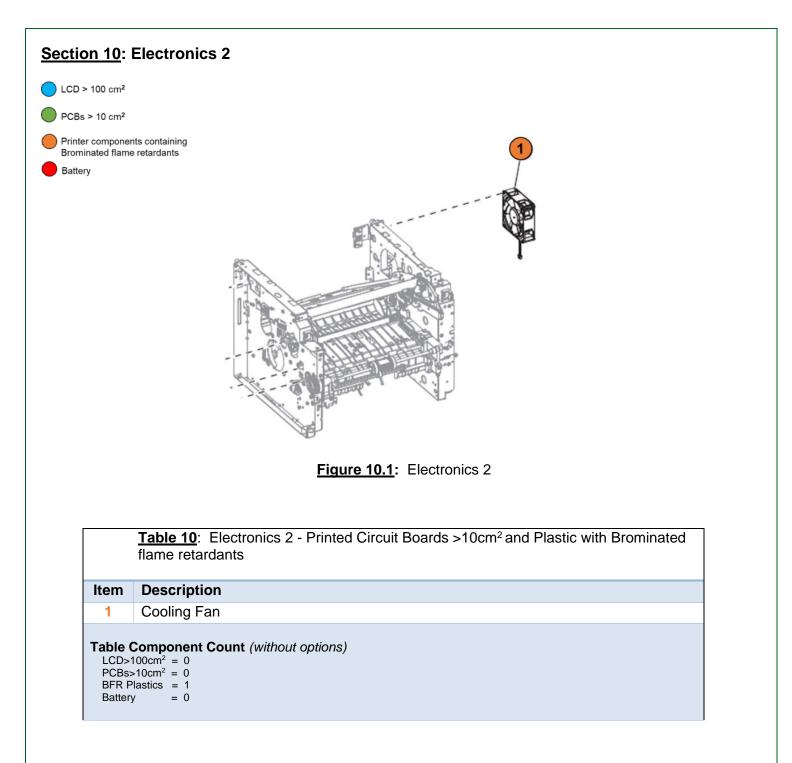
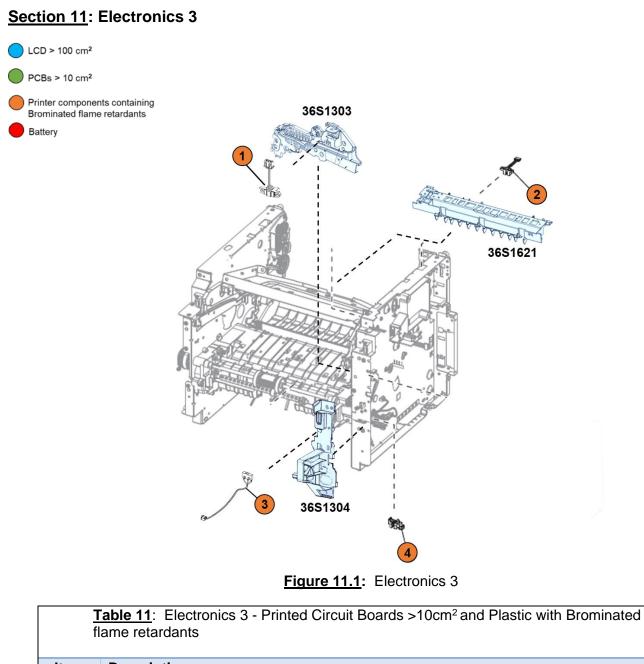


Figure 9.1: Electronics 1

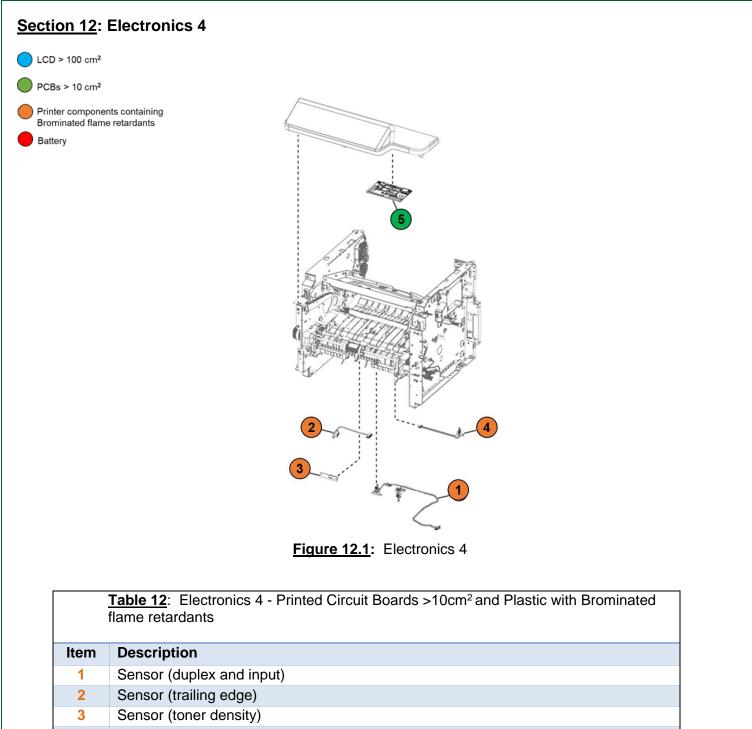
Table 9 : Electronics 1- Printed Circuit Boards >10cm ² and Plastic with Brominated
flame retardants

ltem	Description
1A	Printhead card within the assembly
1B	Printhead driver card
1C	Printhead Tape
2A	Fuser – Guide - Lower Exit
2B	Fuser – Guide - Upper Exit
2C	Fuser – Passthru sensor/ Fuser exit sensor
2D	Fuser – Guide – Aligner Assembly (x2)
2E	Fuser – Guide – Lower input
3A	Battery within the Controller board
3B	Controller board
4	Power supply
5	Main drive gearbox BLDC motor board
6	Fax card
7	Hard disk drive (optional)
LCD>100 PCBs>10	perpendicular tempenant (without options) Dem ² = 0 Dem ² = 7 Strics = 8 = 1





ltem	Description
1	Cartridge barrel sensor kit attached to Guide
2	Sensor (bin full) attached to Guide
3	Sensor (front door) attached to Mounting bracket
4	Sensor (tray present) attached to Guide
LCD>100 PCBs>10	$\begin{array}{l} \text{Description} \\ \text{Description} \\$

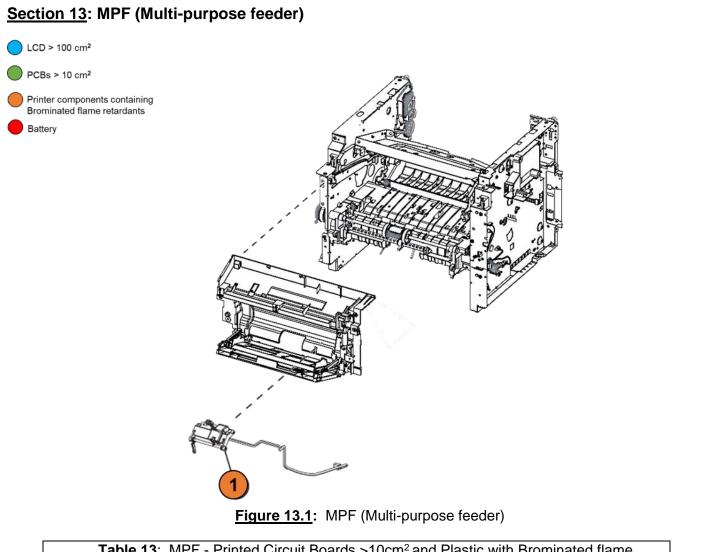


4 Sensor (narrow media)

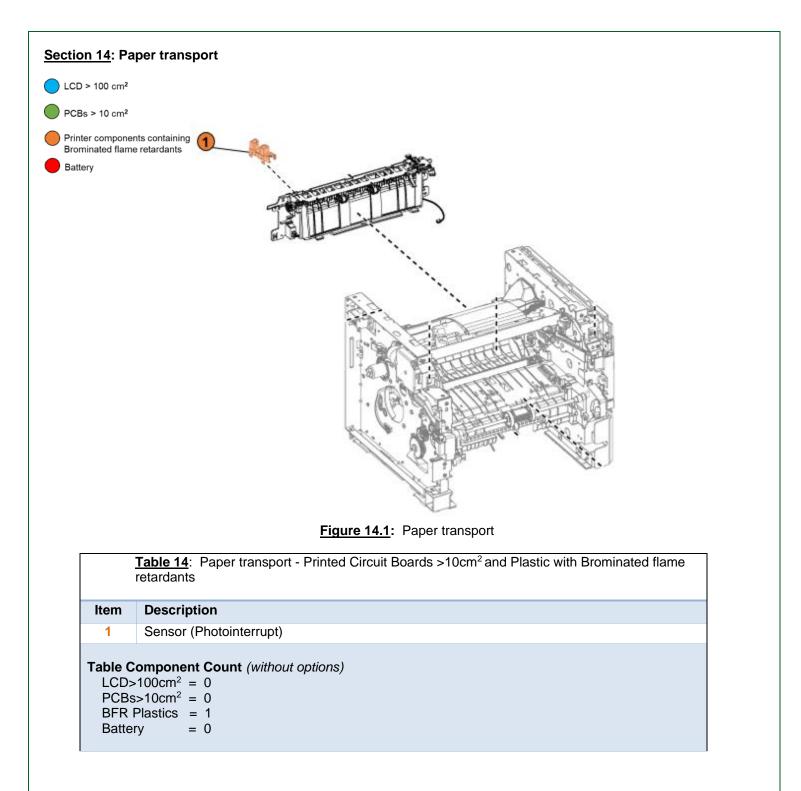
5 Wireless module card (This part is not applicable to MX-B467F)

Table Component Count (without options)

LCD>100cm² = 0PCBs>10cm² = 0 BFR Plastics = 4 Battery = 0

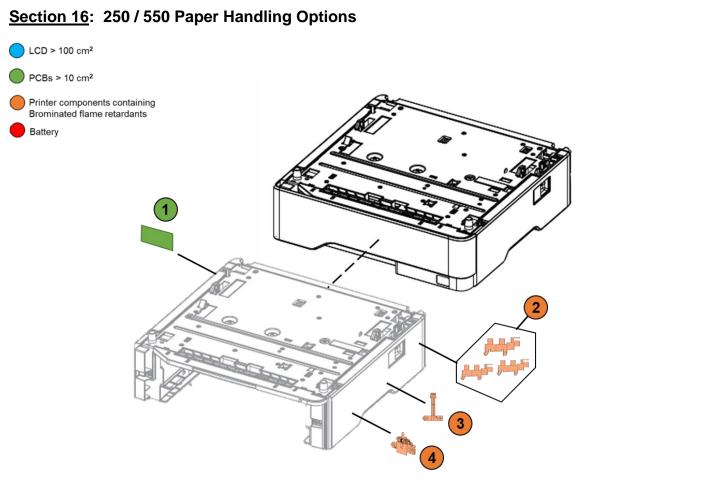


	retardants
ltem	Description
1	Sensor (MPF paper present)
LCD>10 PCBs>1	component Count (without options) $00cm^2 = 0$ $10cm^2 = 0$ astics = 1 = 0





ltem	Description		
1	550-sheet tray		
2	Adjustable printer stand*		
3	Swivel cabinet*		
4	250-sheet tray		
Options marked with (*) are non-Electrical and electronic units			





ltem	Description
1	PHO card
2	Photointerrupter sensor x 3
3	CBM sensor
4	Trailing edge sensor
LCD>1 PCBs>	omponent Count (without options) D0cm ² = 0 10cm ² = 1 astics = 5 = 0

<u>Section 17</u>: For Reference Only (Customer Replaceable External Card Options)

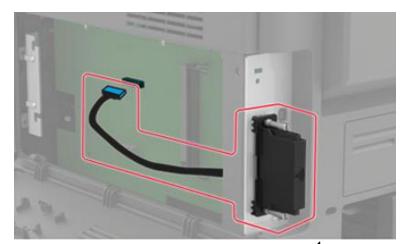


Figure 17.1 External Print Servers¹

Note 1: Illustration shows actual options and their typical locations and mounting at the <u>rear side</u> of the printer. However, this does not show the actual printer model.

<u>Annex A</u> – Printer components with Brominated[§] Flame Retardants

ltem	Description	Parts Marking	Qty	MX32x	MX42x MX52x	MX62x	Location
1	Fuser – Guide - Lower Exit	PET-(GF+MD)40 FR(17)	1	Х	Х	Х	Electronics 1
2	Fuser – Guide - Upper Exit	PET-(GF+MD)40 FR(17)	1	Х	Х	Х	Electronics 1
3	Fuser – Passthru sensor/ Fuser exit sensor	N/A	1	Х	Х	Х	Electronics 1
4	Fuser – Guide – Aligner Assembly (x2)	PET-(GF+MD)40 FR(17)	2	х	х	Х	Electronics 1
5	Fuser – Guide – Lower input	PET-(GF+MD)40 FR(17)	1	Х	Х	Х	Electronics 1
6	Printhead Tape	N/A	1	Х	Х	Х	Electronics 1
7	Cooling fan	N/A	1	Х	Х	Х	Electronics 2
8	Cartridge barrel sensor kit	N/A	1	Х	Х	Х	Electronics 3
9	Sensor (bin full)	N/A	1	Х	Х	Х	Electronics 3
10	Sensor (front door)	N/A	1	Х	Х	Х	Electronics 3
11	Sensor (tray present)	N/A	1	Х	Х	Х	Electronics 3
12	Sensor (duplex and input)	N/A	1	Х	Х	Х	Electronics 4
13	Sensor (trailing edge)	N/A	1	Х	Х	Х	Electronics 4
14	Sensor (toner density)	N/A	1	х	х	х	Electronics 4
15	Sensor (narrow media)	N/A	1	Х	Х	Х	Electronics 4
16	Sensor (MPF paper present)	N/A	1	Х	Х	Х	MPF
17	Sensor (Photo)	N/A	1	Х	Х	Х	Paper transport
18	ADF motor sensors x 2	N/A	2	Х	Х	Х	Imaging ADF
19	ADF Image sensor within the ADF assembly	N/A	1	х	х	х	Imaging ADF
20	ADF paperpath sensors x 7	N/A	7	Х	Х	Х	Imaging ADF
21	Photointerrupter sensor within Flatbed scanner frame	N/A	1	х	х	х	Flatbed Scanner
22	Photointerrupter sensor within the Base tray assembly x 3	N/A	3	optional	optional	optional	250 / 550 Paper Handling Options
23	CBM sensor within the Base tray assembly	N/A	1	optional	optional	optional	250 / 550 Paper Handling Options
24	Trailing edge sensor within the Base tray assembly	N/A	1	optional	optional	optional	250 / 550 Paper Handling Options
		count (without options) =	25				

<u>Annex B</u> – Printed Circuit Boards >10 cm²

Item	Description	Qty	MX32x	MX42x MX52x	MX62x	Location
1A	2.4 in Control panel display assembly	1	Х			Control panel
1B	4.3 in Control panel display assembly	1		Х		Control panel
1C	7 in Control panel display assembly	1			Х	Control panel
2	Printhead card within the assembly	1	Х	Х	Х	Electronics 1
3	Printhead driver card	1	Х	Х	Х	Electronics 1
4	Controller board	1	Х	Х	Х	Electronics 1
5	Power supply	1	Х	Х	Х	Electronics 1
6	Main drive gearbox BLDC motor board	1	Х	Х	Х	Electronics 1
7	Hard disk drive (HDD)	1	Optional	Optional	Optional	Electronics 1
8	Fax card	1	Х	Х	Х	Electronics 1
9	Wireless module card	1	Optional	Optional	Optional	Electronics 4
10	PHO card within the Base tray assembly	1	Х	Х	Х	250 / 550 Paper Handling Options
12	ADF Card within the ADF assembly	1	Х	х	Х	Imaging ADF
13	ADF CIS Scanbar PCBA within the ADF assembly	1	Х	х	Х	Imaging ADF
14	CIS Scanbar PCBA within Flatbed scanner frame	1	Х	х	Х	Flatbed Scanner
	Minimum Count (without options) =	11				

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

ltem	PN	Description	MX32x, MX42x, MX52x MX62x	Locations
1	36S2910	550-sheet tray		Paper handling devices
2	36S2920	550-sheet lockable tray	Y	
3	36S3110	250-sheet tray	X	
4	36S3120	550-sheet tray		

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

ltem	PN	Description	MX32x	MX42x MX52x	MX62x	Locations
1	57X9801	Memory options	Х	Х	Х	
2	57X0185	Security card			Х	
3	40C9200 40C9201 40C9202	Firmware cards (Forms and Bar code, Prescribe, IPDS)		Х	X	Attached to <u>Controller board</u>
4	57X9810 57X9812 57X9814 57X9815	Font cards	Х	Х	X	
5	27X0900 27X0901 27X0912	Interface cards			Х	
6	27X6410	Print Server			Х	External option