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5 Parts List

PL 1 Controls and Cables

PL 1 Controls and Cables

| ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	002N02742	Pupitre PHASER Assemble Control panel assembly (3100 MFP/X)	1	REP 1
1	002N02751	Pupitre PHASER Assemble Control panel assembly (3100MFP/S)	1	REP 1
2	Refer to PL 2	Flap équipé V2 ADF cover (3100MFP/X)	1	
3	Refer to PL 2	ADF doc tray D7N coloré ADF doc tray D7N coloured	1	
4	117N01799	Cordon d'alimentation secteur AC Power cord (220V)	1	
4	177N01773	Cordon d'alimentation secteur AC Power cord (110V)	1	
5	117N01774	Cordon ligne téléphonique Phone line cord (3100MFP/X USSG/XCL)	1	
6	117N01800	Cordon USB types A+B L=1,50m + étiquette A+B types USB cable L=1,50m with label	1	
7	Refer to PL 2	Platen cover (3100 MFP/S)	1	

PL 2 Covers
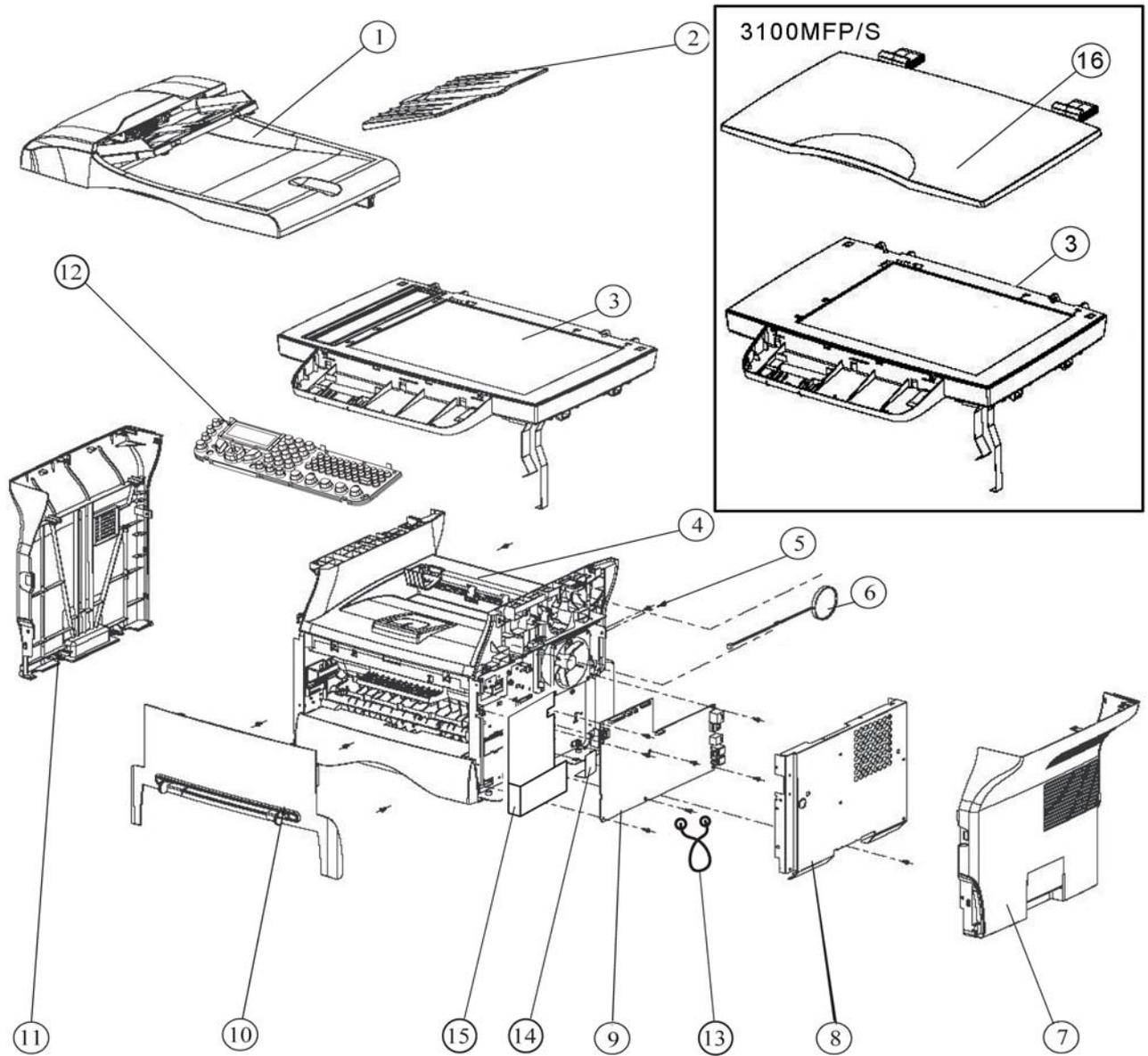
PL 2 Covers

| ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	022N02364	Flap équipé V2 ADF assembly (3100MFP/X)	1	REP 2
2	050N00523	ADF doc tray D7N coloré (3100MFP/X only) ADF doc tray D7N coloured (3100MFP/X only)	1	
3	109N00690	Scanner à plat LFF3 assemblé V2 Scanner assembly V2 (3100MFP/X)	1	REP 16
3	002N00691	Scanner à plat LFF1 assemblé V2 Scanner assembly V2 (3100MFP/S)		REP 16
4	Not spared	Equipement Imprimante V2 Grey White Output tray assembly	1	
5	Not spared	Vis AUTAR.M3X6 steel swch16A Screw M3X6 steel	15	
6	Not spared	Haut-parleur Speaker	1	
7	002N02743	Capot droit imprimante LFF V2 Coloré Right cover	1	REP 3
8	015N00619	Tôle de blindage carte UC Shield plate of UC Board	1	REP 11
9	140N63328	Carte UC Main PCB board (3100MFP/S) (220V)	1	REP 11
9	140N63327	Carte UC Main PCB board (3100MFP/S) (110V)	1	REP 11
9	140N63326	Carte UC Main PCB board (3100MFP/X) (110V)	1	REP 11
9	140N63325	Carte UC Main PCB board (3100MFP/X) (220V)	1	REP 11
10	002N02748	Porte façade avant imprimante assemblé Front door assembly	1	REP 3
11	002N02744	Capot gauche imprimante LFF V2 Coloré Left cover	1	REP 3
12	002N02749	Support Pupitre ASS.LFF3/4V2 XEROX Control Panel (3100MFP/X)	1	REP 1
12	002N02753	Support Pupitre ASS.LFF1V2 XEROX Control Panel (3100MFP/S)	1	REP 1
13	120N00526	Serre câble Twist-lok nylon Serre câble Twist-lok nylon	1	
14	102N13562	Mylar condensateur (3100MFP/X only) Capacitor mylar (3100MFP/X only)	1	
15	063N00112	Mylar de sécurité Security mylar	1	
16	252N02752	Capot scanner a plat assemble grisclair Platen cover (3100MFP/S)	1	REP 38

PL 3 Paper Exit and Rear Cover
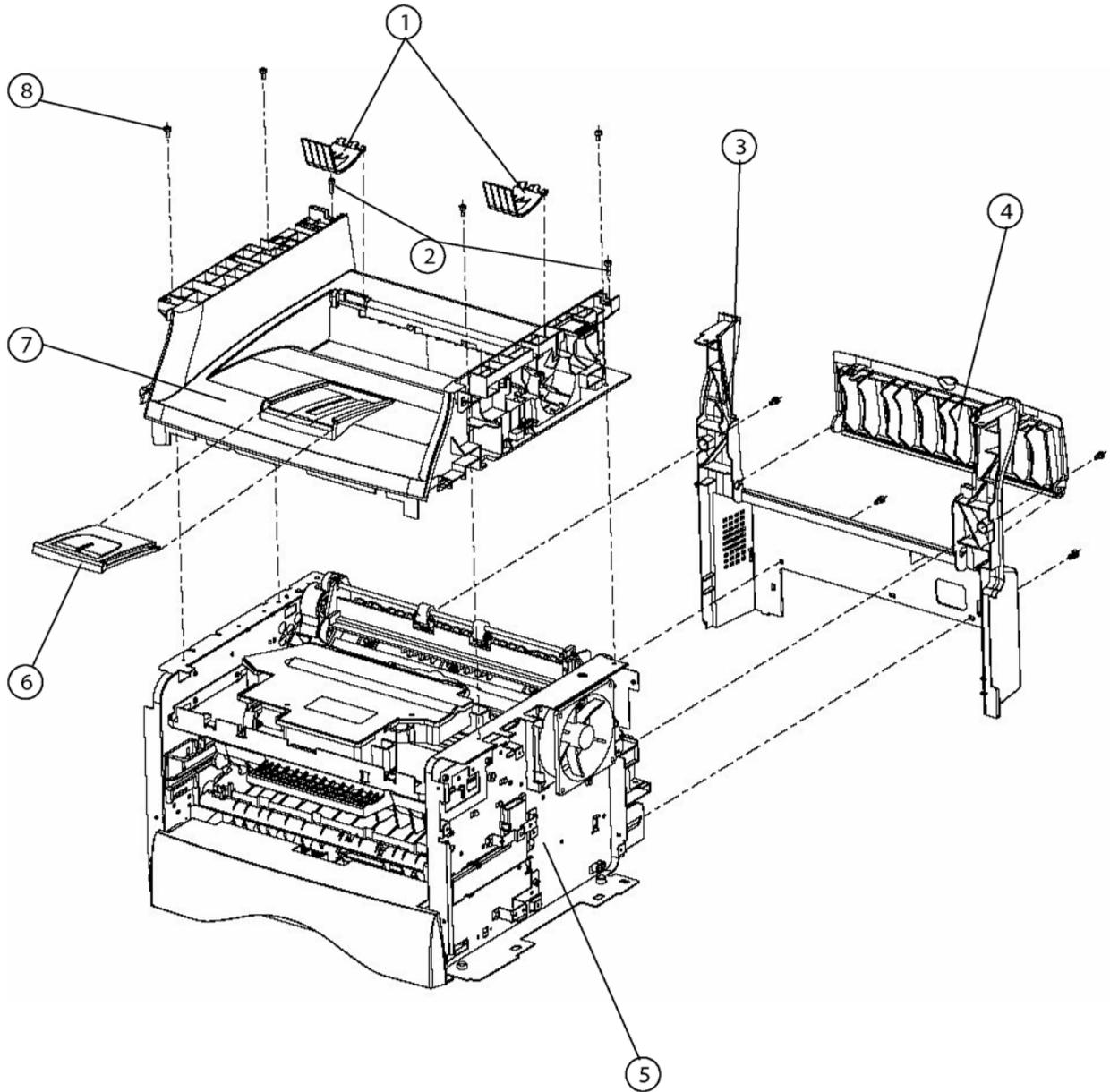
PL 3 Paper Exit and Rear Cover

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	038N00521	Guide papier sortie imprimante Exit paper guide	2	
2	Not spared	VIS 3x10 self tapping screw for plastic Screw 3x10 Self tapping screw for plastic	2	
3	002N02745	Capot arrière imprimante LFX V2 coloré Lower rear cover	1	REP 13
4	002N02746	Trappe arrière Upper rear cover	1	REP 13
5	Not spared	Imprimante Machine	1	
6	050N00522	Tirette imprimante + extension Tray exit+ extend	1	
7	050N00525	Interface équipée Gray White V2 (voir planche 4) Output tray assembly (refer to PL 4)	1	REP 14
8	Not spared	Vis autar. M3x6 steel swch16A Screw M3x6 steel	6	

PL 4 Output Tray Assembly
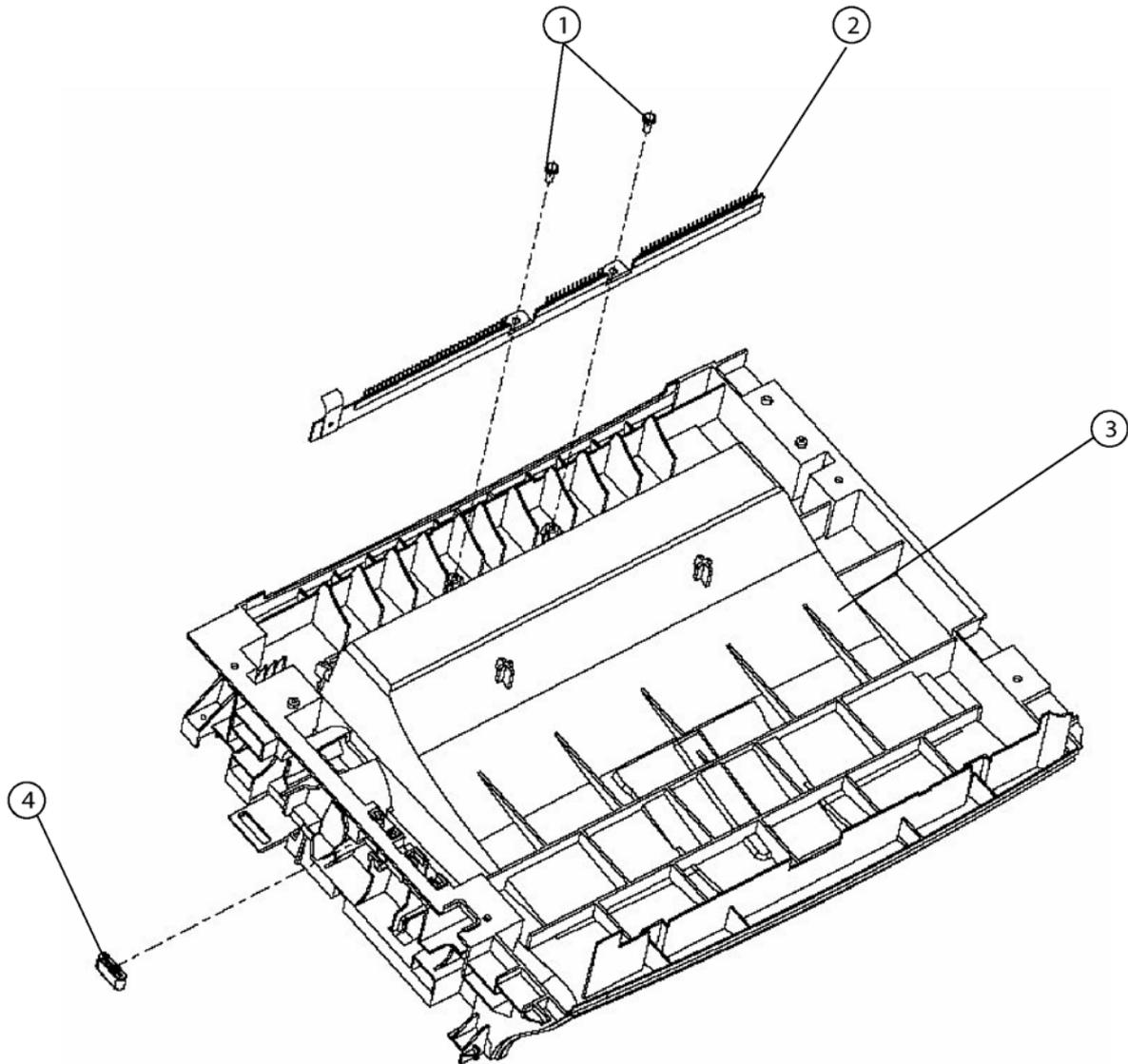
PL 4 Output Tray Assembly

| ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	Not spared	VIS 3x10 self tapping screw for plastic Screw 3x10 self tapping screw for plastic	2	
2	115N00872	Brosse antistatique Discharge brush	1	
3	050N00526	Interface LFX V2 Colorée Grey White Output tray	1	REP 14
4	117N01797	Ferrite p.cable plat 3W800 10 cond. SP Ferrite p.cable plat 3W800 10 cond. SP		

PL 5 Scanner
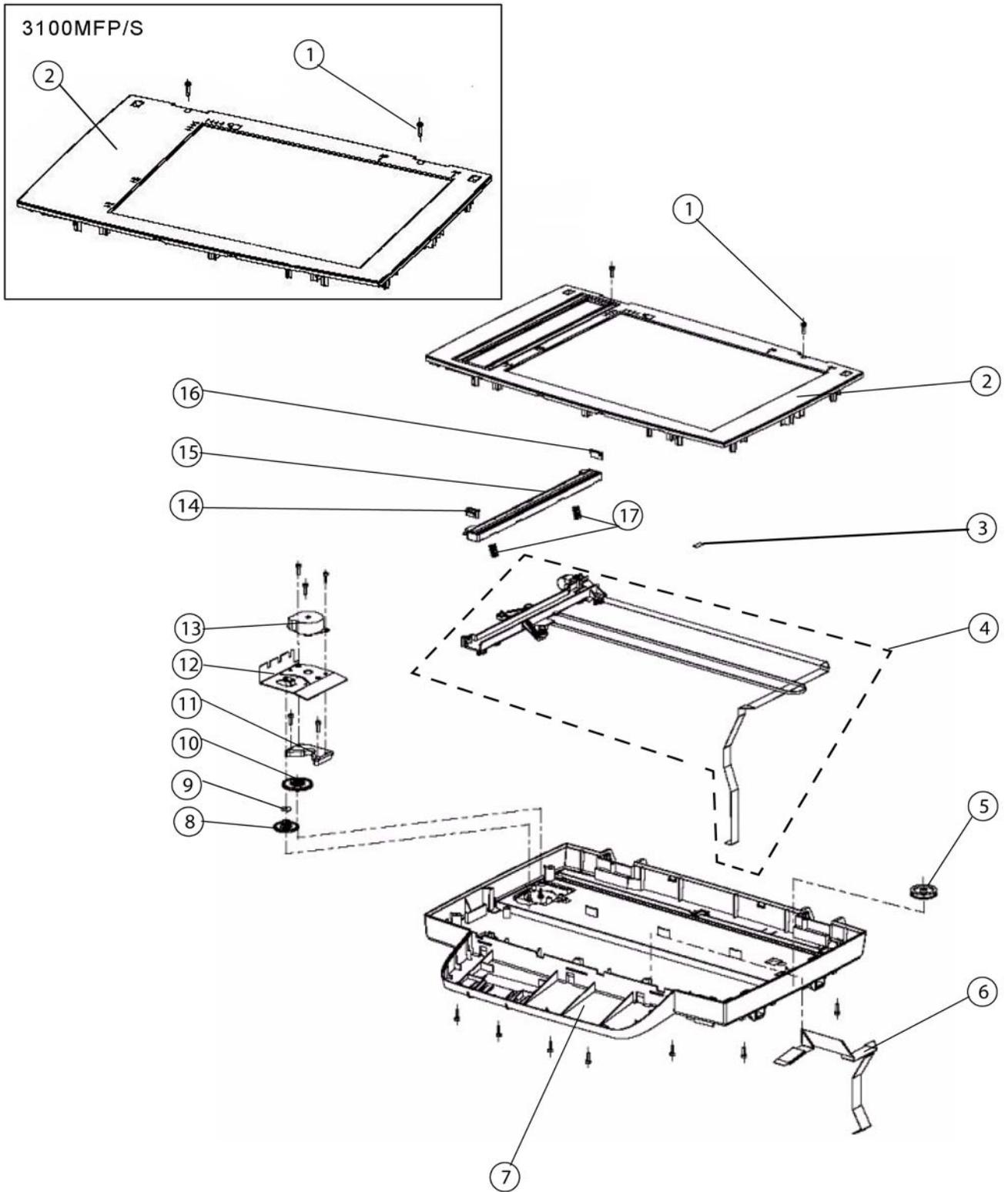
3100MFP/S

PL 5 Scanner

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	Not spared	Vis 3x10 self tapping screw for plastic Screw 3x10 Self tapping screw for plastic	14	
2	Not spared	Cadre vitre scanner LFF3 assemblé Scanner frame LFF3 assembly (3100 MFP/X)	1	REP 18
2	Not spared	Cadre vitre scanner LFF1 assemblé Scanner frame LFF1 assembly (3100 MFP/S)	1	REP 18
3	Not spared	Adhésif double face ferrite Ferrite D-tape	2	
4	Not spared	Support CIS LFx CIS support LFx	1	REP 21
5	Not spared	Poulie renvoi courroie CIS colorée CIS drive pulley colored	1	
6	Not spared	Nappe console 16 points Ribbon cable	1	
7	Not spared	Fond scanner coloré V2 Scanner bottom colored V2	1	
8	Not spared	Pignon 55 dents scanner à plat coloré Scanner gear 55 teeth colored	1	
9	Not spared	Disque pignon 15-55 dents coloré CIS drive disc colored	1	
10	Not spared	Pignon 32/70 dents scanner à plat coloré Scanner gear 32/70 teeth colored	1	
11	Not spared	Interface support moteur colorée CIS drive adaptor colored	1	
12	Not spared	Tôle moteur scanner à plat CIS drive heat sink	1	
13	Not spared	Moteur scanner à plat LFF Scanner motor LFF	1	REP 22
14	Not spared	Glissière CIS gauche colorée CIS slider left colored	1	
15	Not spared	CIS A4 600 DPI 1.5MS 3.3V SP CIS A4 600 DPI 1.5MS 3.3V LF	1	
16	Not spared	Glissière CIS droite colorée CIS slider right colored	1	
17	Not spared	Ressort CIS CIS spring	2	

PL 6 CIS Support
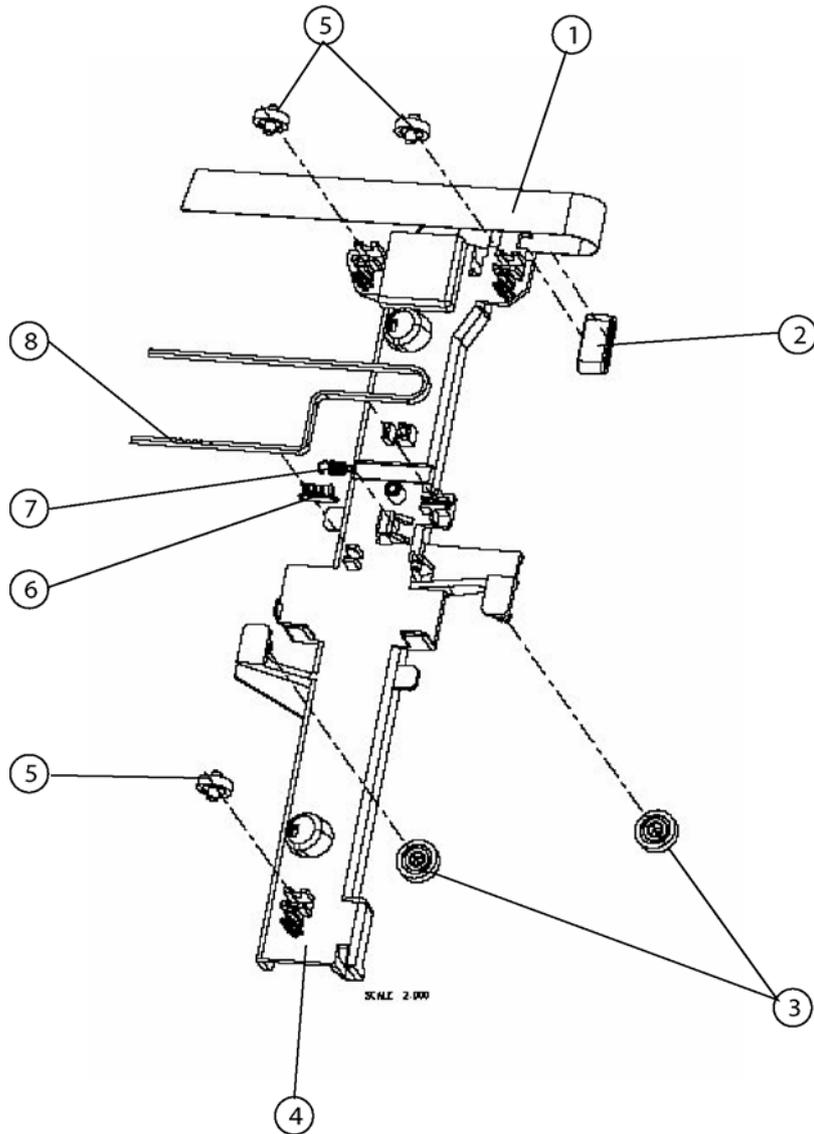
PL 6 CIS Support

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	117N01798	Nappe CIS 12 points 50 microns 12 pin 50 micrometers CIS flat cable	1	REP 20
2	117N01797	Ferrite p.cable plat 3W800 10 cond. SP Ferrite p.cable plat 3W800 10 cond. SP	1	
3	Not spared	Guidage central chariot CIS coloré Central roller of CIS support colored	2	
4	Not spared	CIS support coloré CIS support colored	1	
5	Not spared	Guidage latéral chariot CIS coloré Lateral roller of CIS support colored	3	
6	Not spared	Connecteur courroie CIS CIS drive belt connection	1	
7	Not spared	Ressort courroie CIS belt spring	1	
8	Not spared	Courroie CIS drive belt	1	

PL 7 Automatic Document Feeder (3100MFP/X only) (1 of 3)
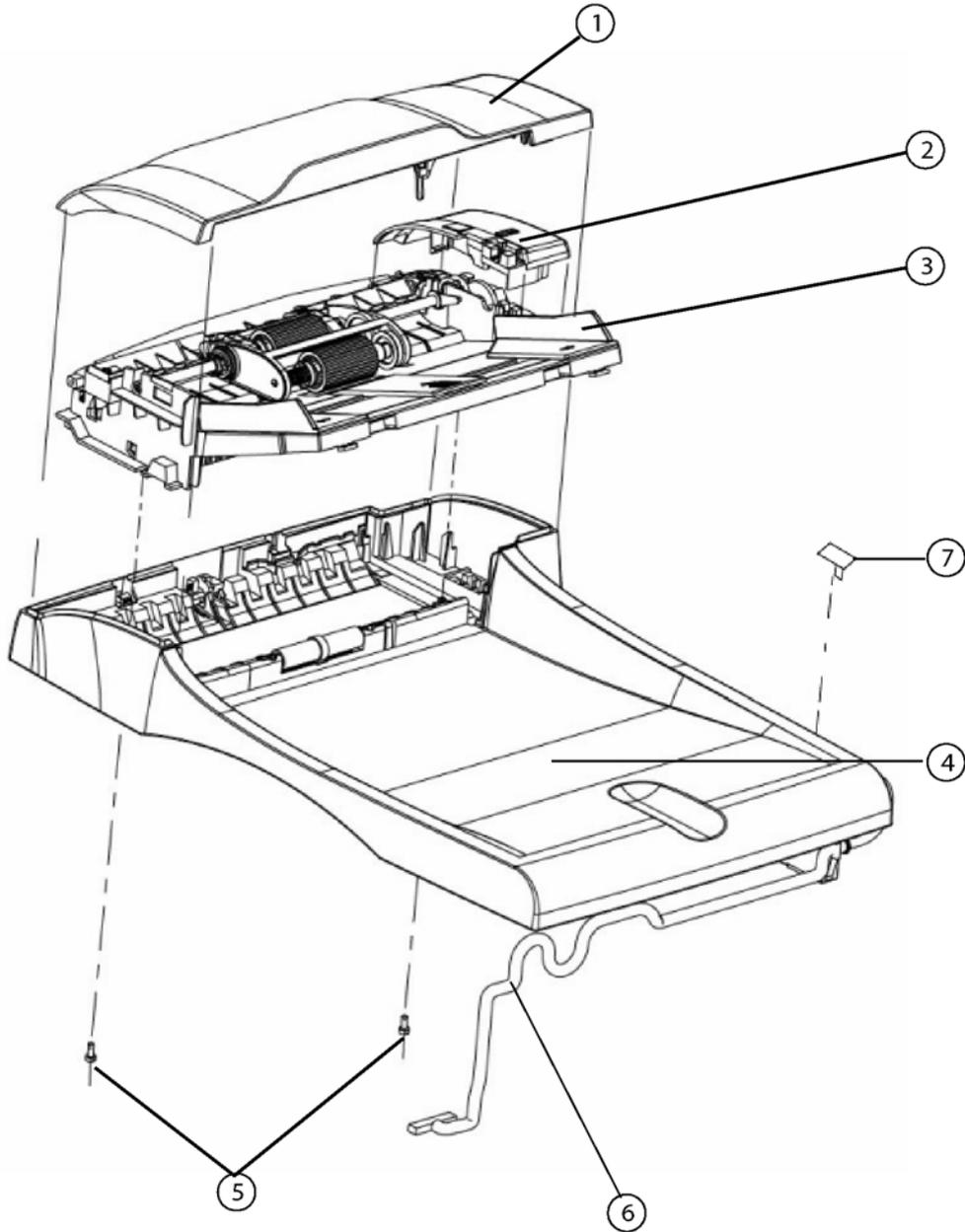
PL 7 Automatic Document Feeder (3100MFP/X only) (1 of 3)

| ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	002N02750	Capot ADF assemblé V2 ADF cover assembly V2	1	
2	002N02747	Capot moteur coloré Motor cover	1	
3	038N00522	Chemin papier interne deflect. ass V2 Document input tray	1	
4	050N00527	Flap assemblé V2 Document output tray	1	
5	Not spared	Vis autotartête large pour plast. 3x8 3x8 self tap. screw large for head plas	2	
6	Not spared	ADF motor&sensor wires overmolded LFX V2 ADF motor & sensor wires overmolded LFX V2	1	
7	Not spared	Cache charnière coloré Hide hinge colored	1	

PL 8 Automatic Document Feeder (3100MFP/X only) (2 of 3)
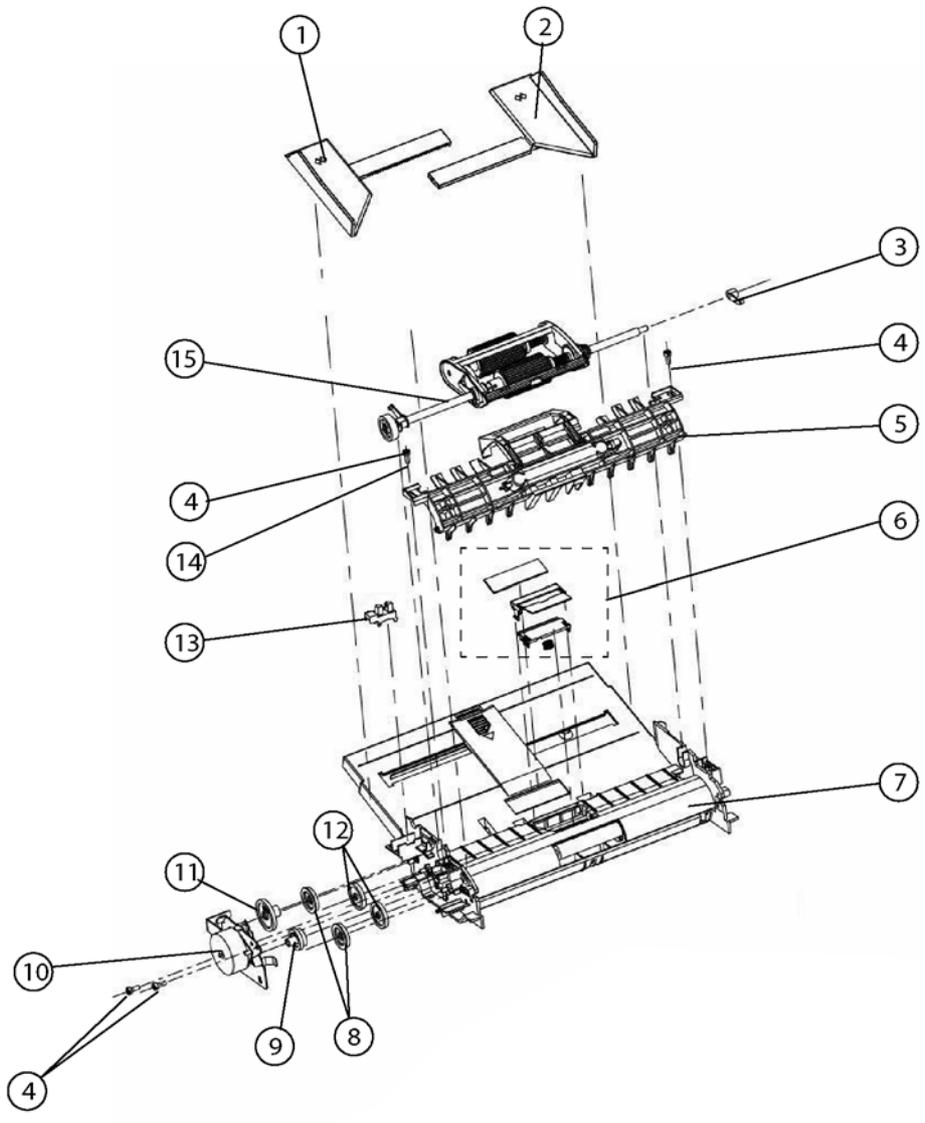
PL 8 Automatic Document Feeder (3100MFP/X only) (2 of 3)

| ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	Not spared	ADF slider left D7N coloré Left document guide	1	REP 10
2	Not spared	ADF slider right D7N coloré Right document guide	1	REP 10
3	Not spared	Palier quart de tour rouleau coloré Roller bearing	3	
4	Not spared	Vis autotartête large pour plast. 3X8 3X8 self tapping screw large for plastic	6	
5	Not spared	Guide papier supérieur assemblé Upper paper guide assembly	1	REP 7
6	019N00958	Kit déliasseur pour LFx Retard pad assembly	1	REP 5
7	Not spared	Introducteur papier deflect colorée Paper input guide	1	REP 6
8	Not spared	Pignon 38 dents coloré 38 teeth analysis roller gear colored	2	
9	007N01602	Pignon 27-33 dents coloré 27-33 teeth gear colored	1	
10	001N00501	Support moteur assemblé Motor frame assembly	1	REP 22
11	007N01603	Pignon 16-51 dents coloré 16-51 teeth gear colored	1	
12	007N01604	Pignon 42 dents coloré 42 teeth gear colored	2	
13	Not spared	Photo interupter opic GP1A73A sp Sensor	1	
14	Not spared	Rondelles M3X0,6 Washer M3X0.6	2	
15	Not spared	Chargeur assemble Feeder assembly	1	REP 4

PL 9 Automatic Document Feeder (3100MFP/X only) (3 of 3)
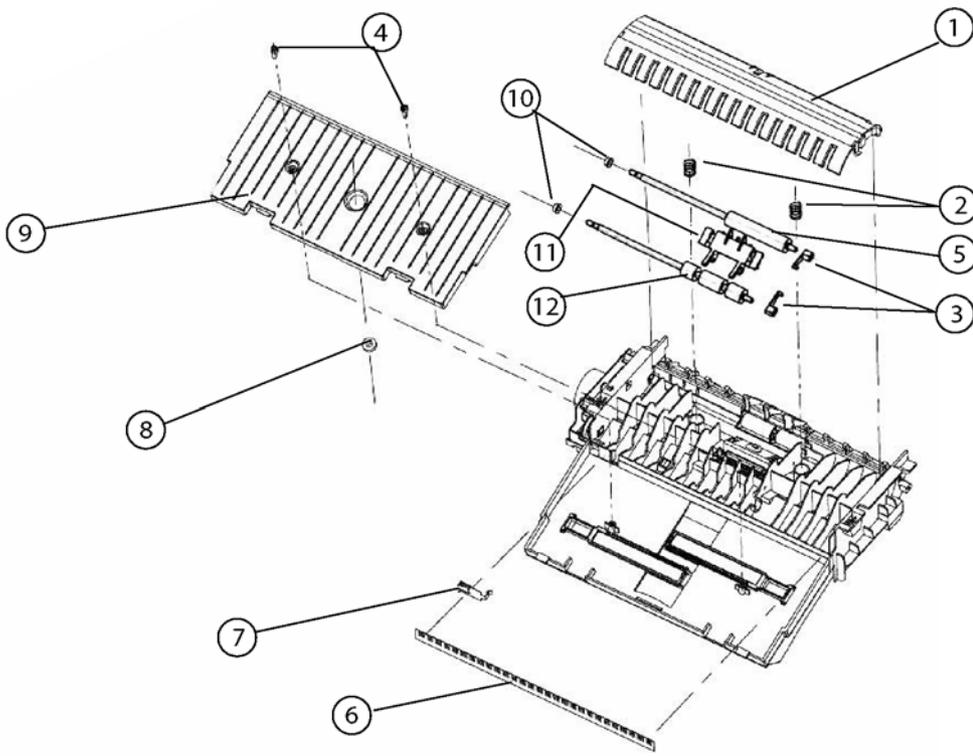
PL 9 Automatic Document Feeder (3100MFP/X only) (3 of 3)

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	Not spared	Chassis blanc coloré White frame plate colored	1	REP 9
2	Not spared	Ressort palette blanche White frame plate spring	2	
3	Not spared	Palier quart de tour rouleau coloré Roller bearing turning colored	3	
4	Not spared	Vis autotartête large pour plast. 3X8 3X8 self tap.screw large for head plas	6	
5	022N02361	Rouleau analyse Registration roller	1	REP 9
6	115N00873	Brosse antistatique auto adhésive 224 mm Antistatic brush	1	
7	Not spared	Reprise de masse balayette Brush ground plate	1	
8	Not spared	Pignon bac papier coloré Gear document tray colored	1	
9	Not spared	ADF wheelbox D7N coloré ADF wheelbox D7N colored	1	
10	Not spared	Palier LFX coloré LFX bearing colored	2	
11	Not spared	Deflecteur chemin papier colouree Paper deflector colored	1	REP 9
12	Not spared	Rouleau analyse pour ejection Exit roller	1	REP 9

PL 10 Paper Tray
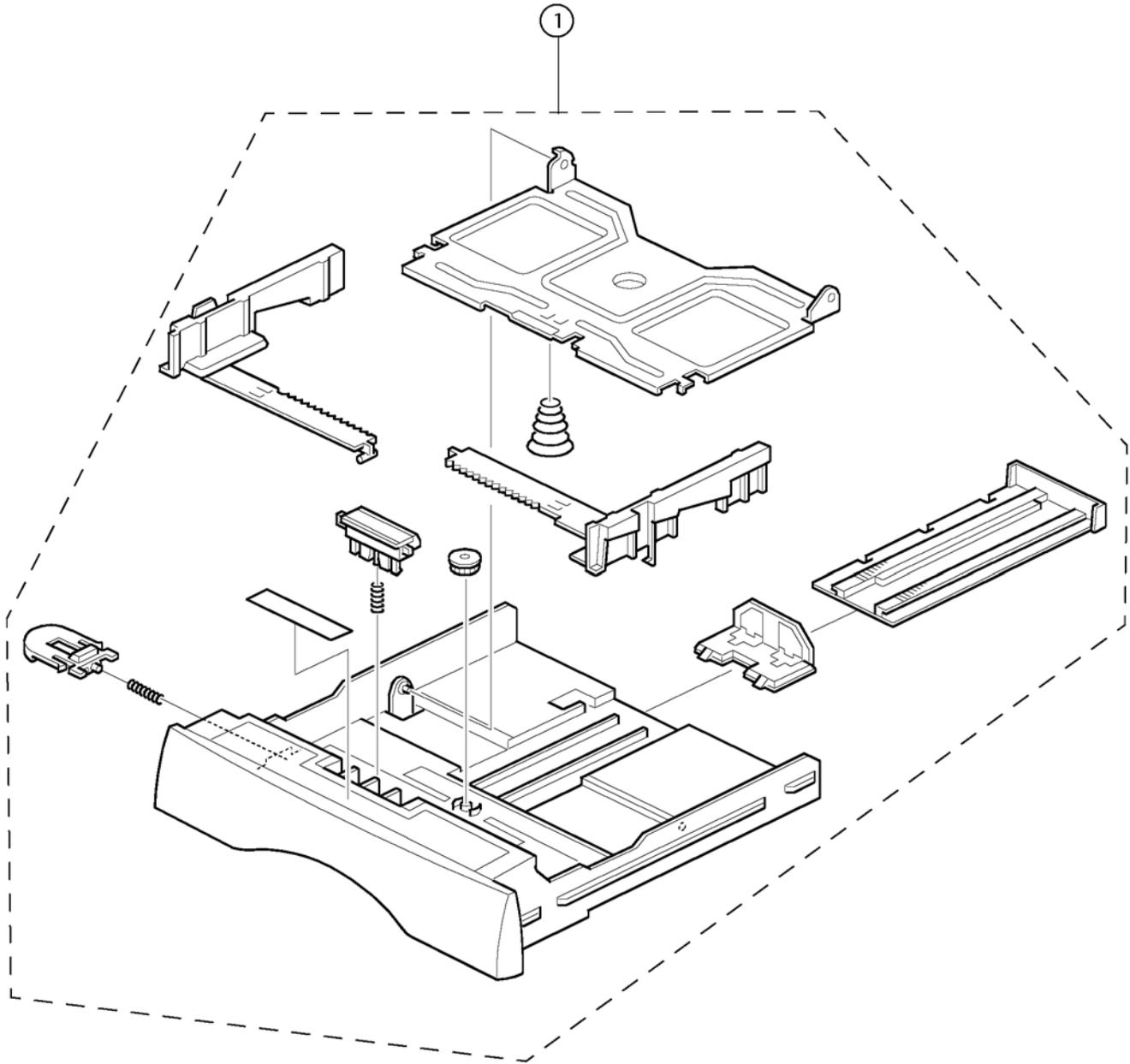
PL 10 Paper Tray

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	050N00524	Bac papier Paper tray unit	1	REP 23

PL 11 Rollers and Drives
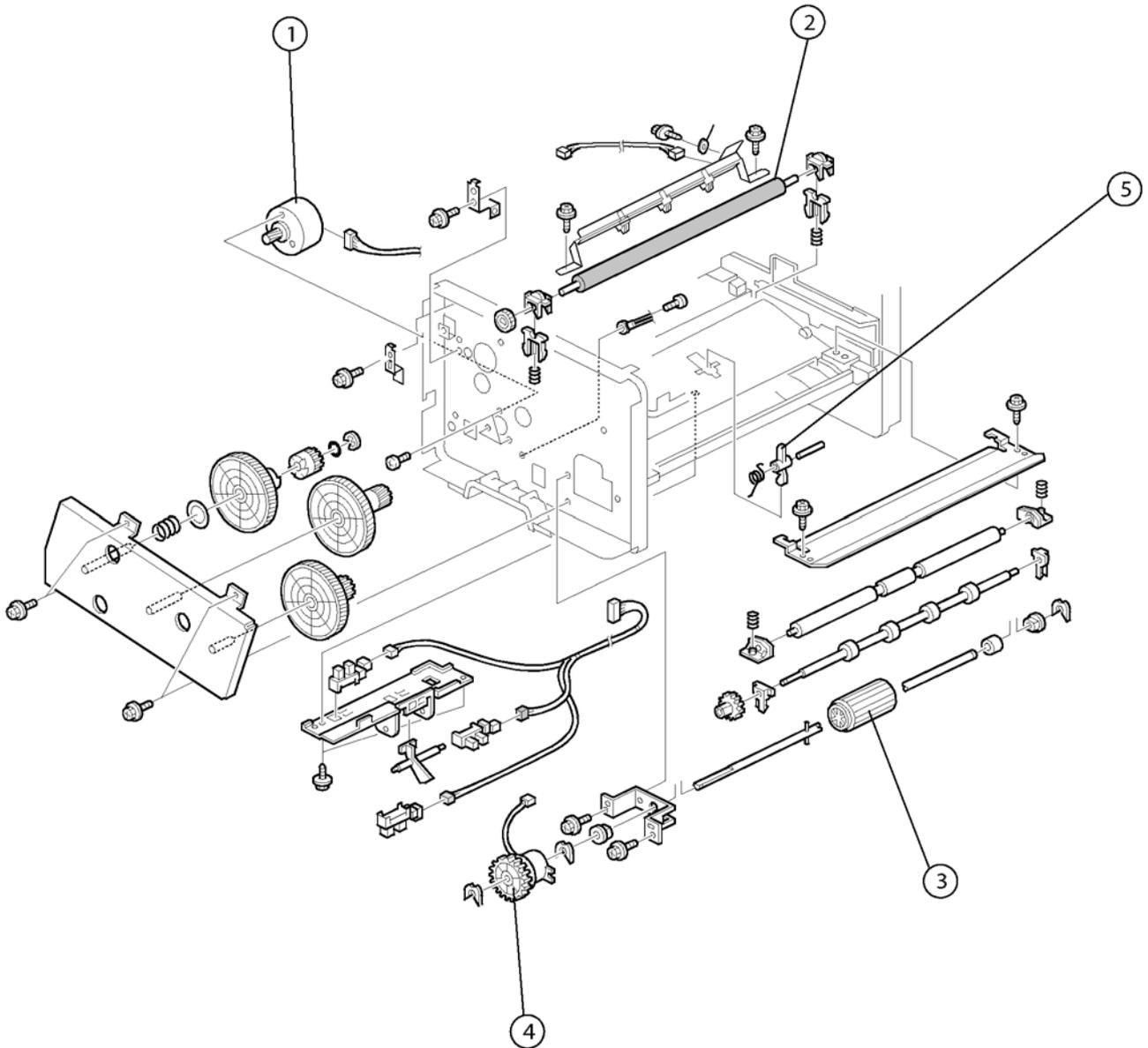
PL 11 Rollers and Drives

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	127N07574	Brushless motor - DC24V	1	REP 36
2	022N02362	Transfer roller	1	REP 34
3	022N02363	Paper feed roller - MM32	1	REP 32
4	121N01171	Magnetic clutch -43z	1	
5	120N00525	Actuator - Paper pick-up sensor	1	

PL 12 Fuser
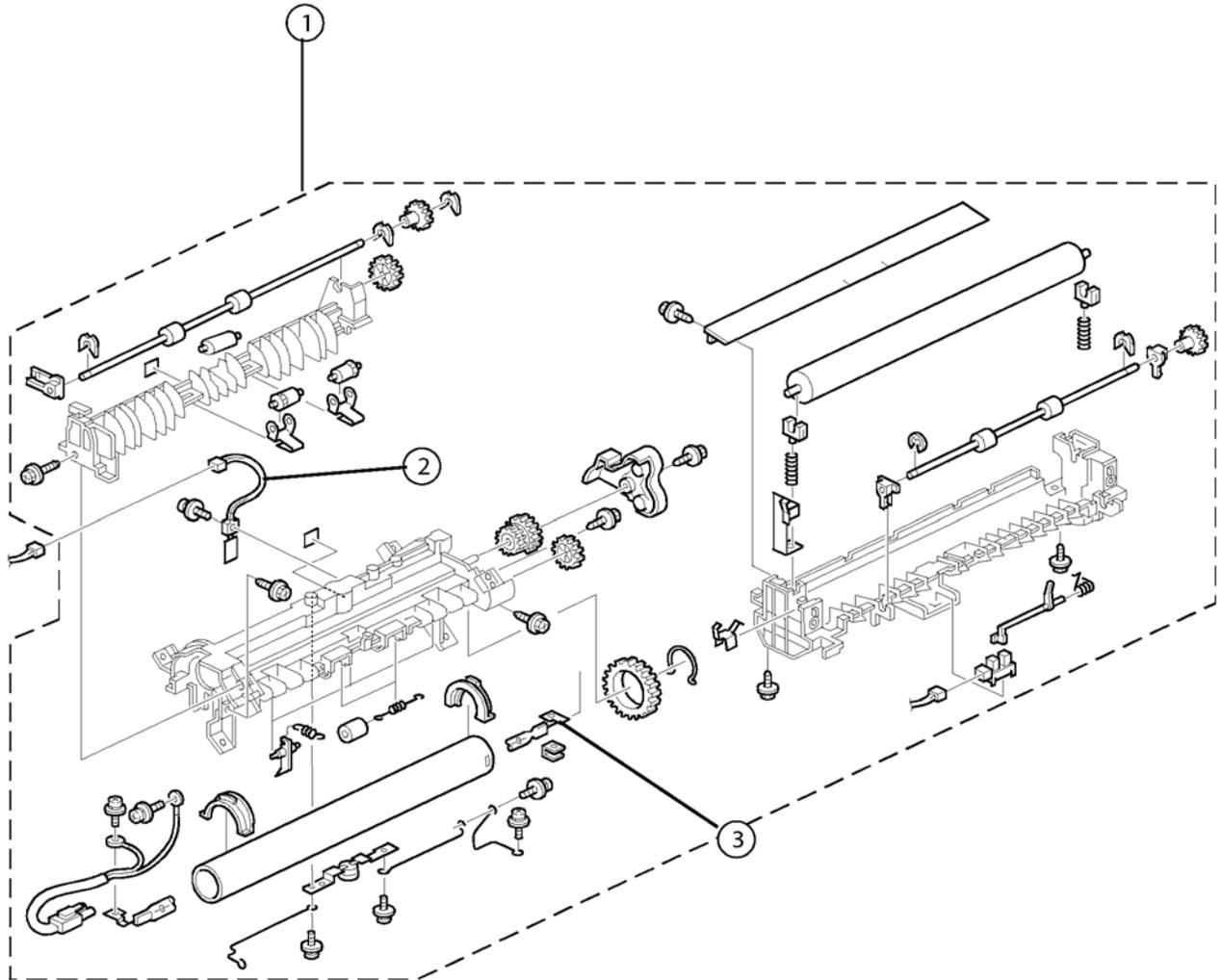
PL 12 Fuser

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	126N00298	Unité de fusion Fuser (220V)	1	REP 25
1	126N00297	Unité de fusion Fuser (110V)	1	REP 25
2	130N01542	Fusing thermistor	1	REP 29
3	126N00300	Heater (220V)	1	REP 27
3	126N00299	Heater (110V)	1	REP 27

PL 13 Power Supply and Laser Unit
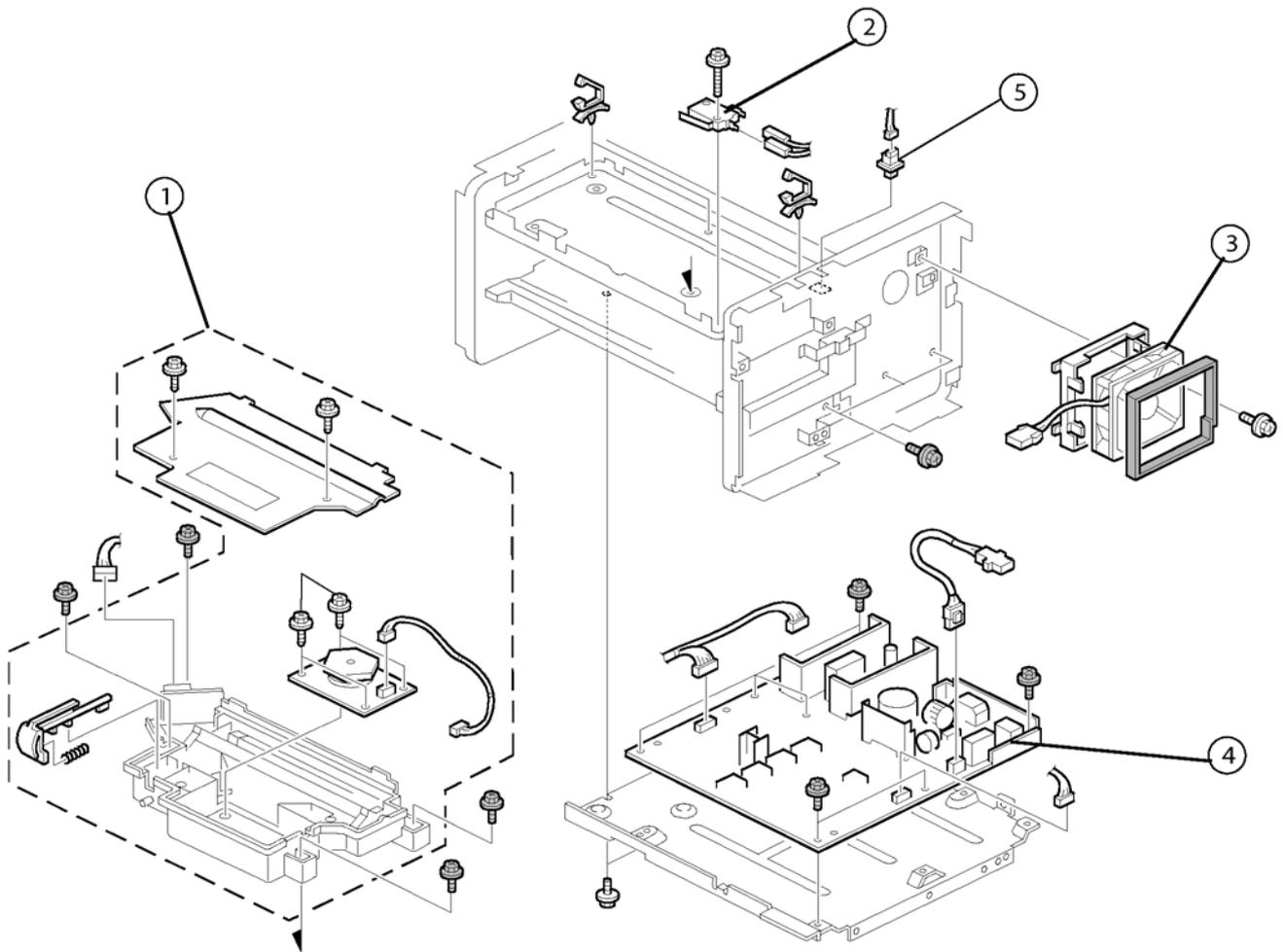
PL 13 Power Supply and Laser Unit

ITEM No.	REFERENCE	DESCRIPTION	QTY	R
1	122N00280	Laser unit	1	REP 24
2	110N01425	Micro switch	1	
3	127N07575	Fan assembly	1	REP 35
4	105N02149	Power supply unit (220V)	1	REP 17
	105N02148	Power supply unit (110)	1	REP 17
5	110N01426	Push switch	1	

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6 General Procedures and Information

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GP 1 Presentation

General Description

3100MFP/X

The Xerox 3100MFP/X consists of a colour scanner with a 600 Dpi resolution and a Black and White printer with a 600 Dpi resolution. These two components are integrated into a single compact machine. Documents are processed by a scanner using CIS (Contact Image Sensor) technology, via the ADF (Automatic Document Feeder) or via the document glass for bulky documents.

The control panel consists of:

- An alphanumerical keyboard and function keys to control the machine;
- An LCD display with 2 lines and a line of icons that allows users to view the command or alert messages;
- A smart card reader that allows validating consumables.

When replacing the printer assembly, it is recommended that the old consumable (print cartridge) be transferred to the new printer assembly for further use.

When replacing the consumable, carry out the installation procedure for the new consumable (refer to the User Guide booklet).

Document feeder

Control panel

Paper output

Smart card insertion point

Master USB connection (USB key)

Output support tab

Manual input tray

Front cover

Paper tray

Manual paper feed setup guides

Figure 1

Master USB connection (USB key)*

Slave USB connection (For PC)

Paper jam cover

EXT. socket - connection for external devices

Power supply cable connection

Line socket - telephone cable connection

On/Off switch
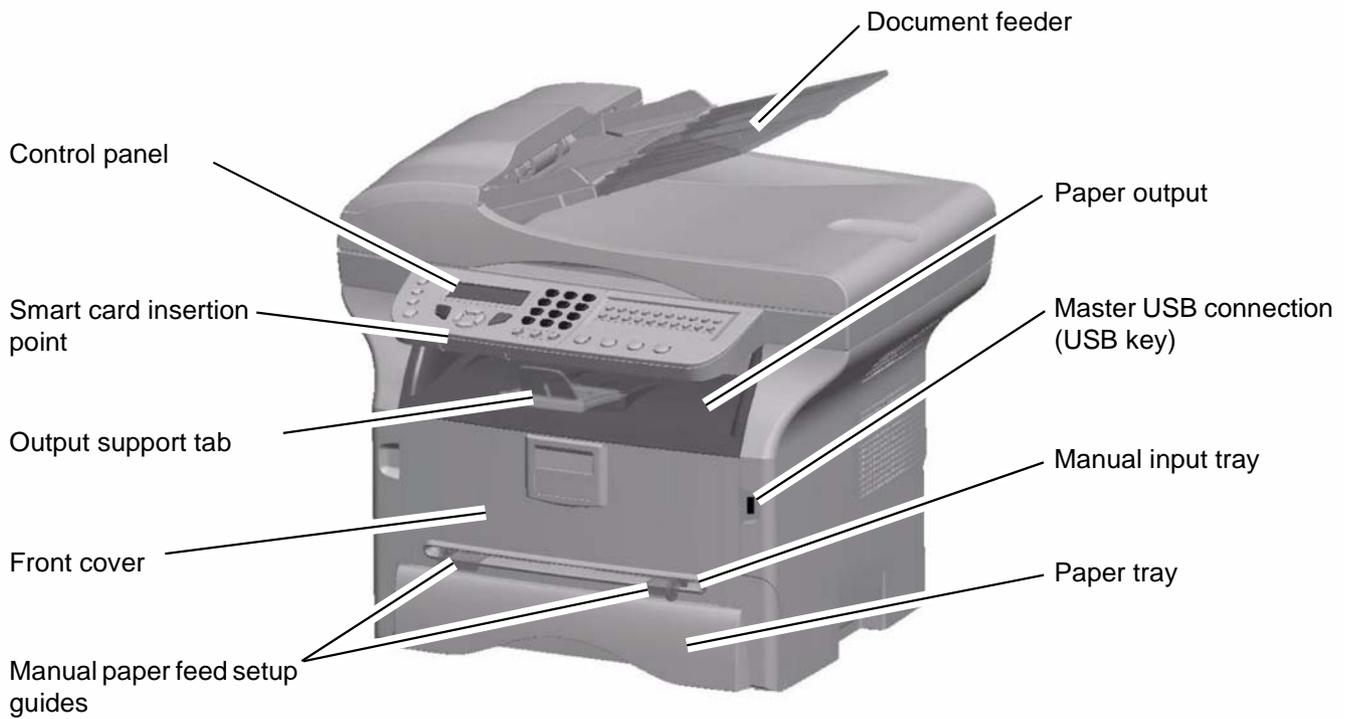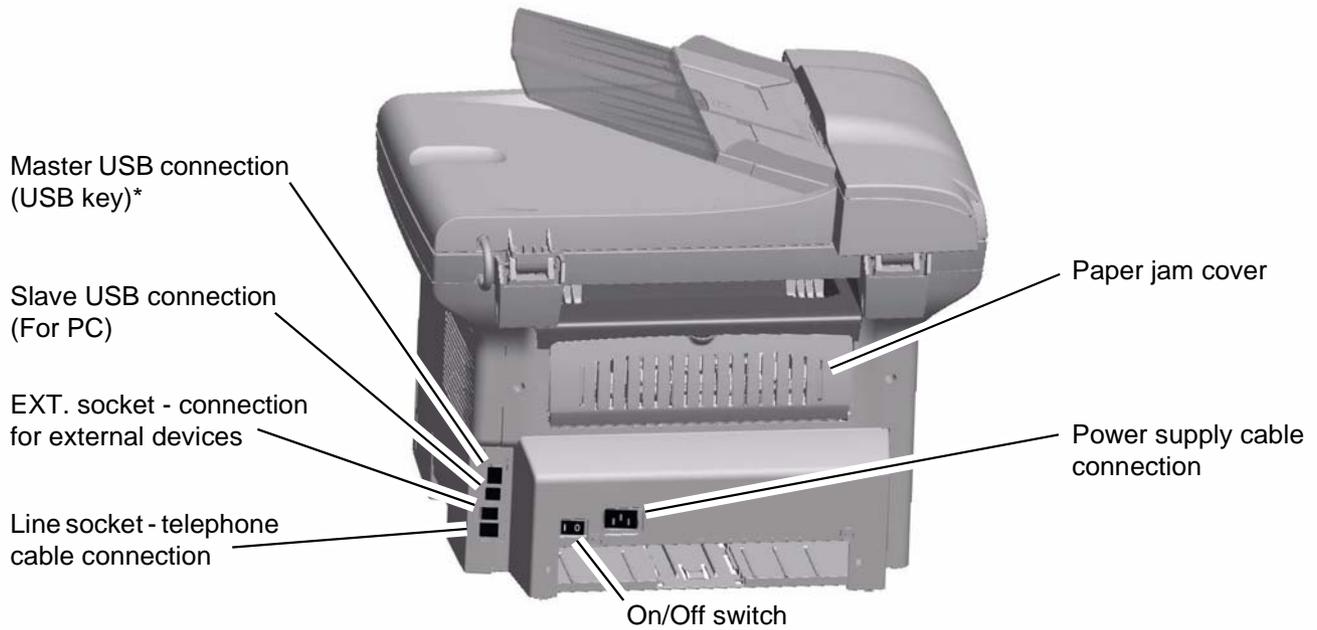
Figure 2

*Can be used for the same function as the USB connection on the front side.

General Description

X3100MFP/S

The Xerox 3100MFP/S consists of a colour scanner with a 600 Dpi resolution and a Black and White printer with a 600 Dpi resolution. These two components are integrated into a single compact machine. Documents are processed by a scanner using CIS (Contact Image Sensor) technology, via the document glass.

The control panel consists of:

- An alphanumerical keyboard and function keys to control the machine.
- An LCD display with 2 lines and a line of icons that allows users to view the command or alert messages;
- A smart card reader that allows validating consumables.

When replacing the printer assembly, it is recommended that the old consumable (print cartridge) be transferred to the new printer assembly for further use.

When replacing the consumable, carry out the installation procedure for the new consumable (refer to the User Guide booklet).

Control panel

Paper output

Smart card insertion point

Master USB connection (USB key)

Output support tab

Manual input tray

Front cover

Paper tray

Manual paper feed setup guides

Figure 3

Paper jam cover

Slave USB connection (For PC)

On/Off switch

Power supply cable connection
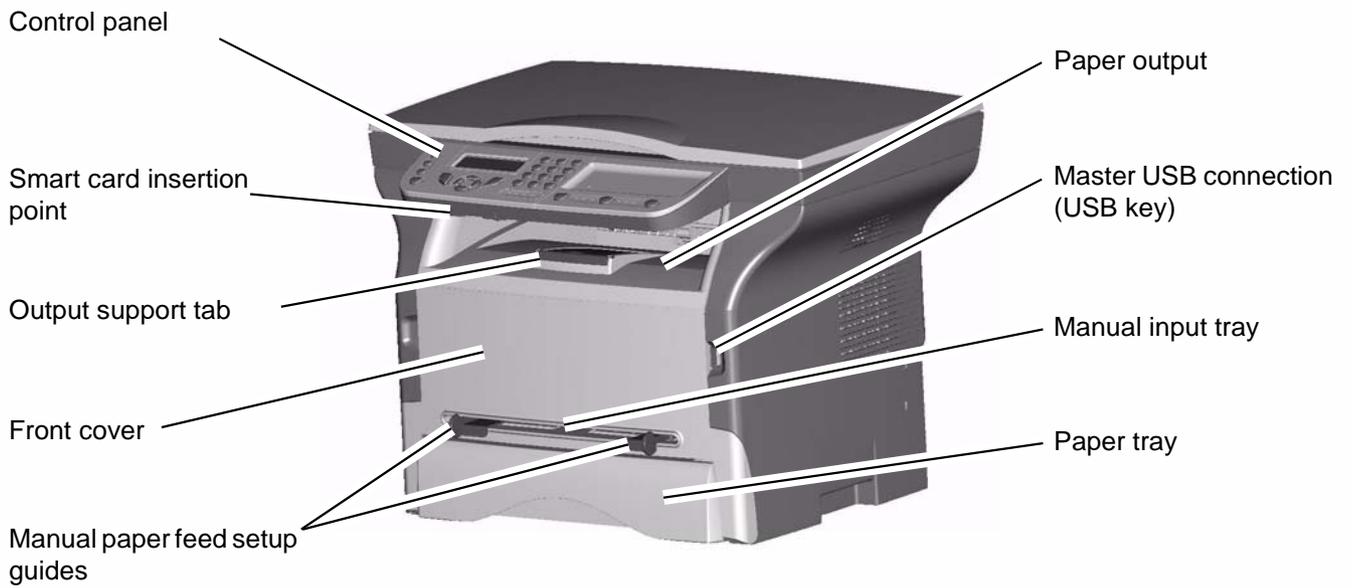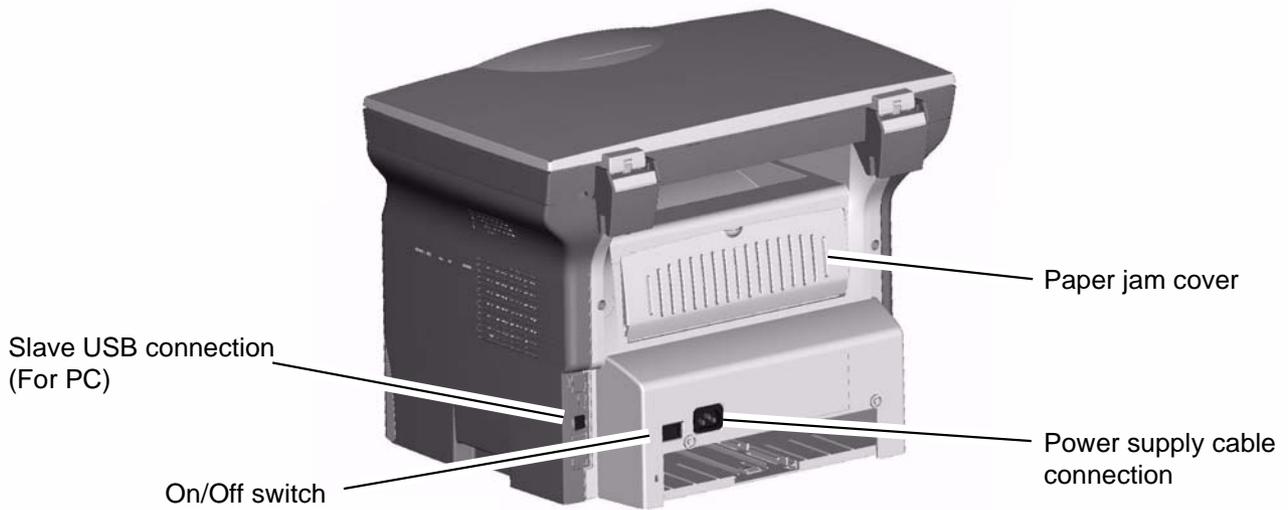
Figure 4

GP 2 Characteristics (Xerox 3100MFP/X and 3100MFP/S)

Physical Characteristics

Environment

Operating:
- The machine should not be exposed to direct sunlight.
- Power Supply
    - Single phase 120 V -50/60 Hz 8.5 A or Single phase 220-240 V - 50/60 Hz - 4.5 A according model (see rating plate).
- Power consumption in power save mode: 13 W.
- Typical consumption for printing: 450 W.
- Temperature: 10 °C to 27 °C [50 °F to 80.6 °F] with an ambient humidity included between 15 to 80% (up to 32°C [89.6 °F] with an ambient humidity included between15 to 54%).
- Altitude: from 0 to 2500 meters (above sea level).
- Ambient light: 3000 lux.

Storage of the machine and consumable (print cartridge):
- Temperature: - 20 to 40 degrees C [-4 degrees F to 104 degrees F)

- Humidity: 20% to 80% (RH without condensation).

Maximum storage time:12 months.

General Technical Characteristics

General	
Measurements L-D-H in mm	386 x 447 x 412 (15.1 x 17.6 x 16.2 inches) (3100 MFP/X)
Measurements L-D-H in mm	386 x 447 x 344 (15.1 x 17.6 x 13.5 inches) (3100 MFP/S)
Weight	13 kgs (28.6 lbs) (3100 MFP/X)
Weight	11.6 kgs (25.5 lbs) (3100 MFP/S)
Consumables	
Type (for platen and ADF scanners)	Inapa tecno SPEED A4 -80 g/m2
Type (for printer)	Xerox 75gsm
Document reference (DR)	
Type	ITU #1 -A4
Black/white ratio	3%
Resolution	Normal mode (200 x 100 DPI)
ADF scanner (3100MFP/X only)	
Type	CIS Colour and B/W
Colour analysis	Yes
Resolution in DPI	600
Grey scale	256
Colour scale	36 bits/pixel
Paper size	A4 (210 x 297 mm)
• Maximum width	216 mm (8.5 inches)
• Minimum width	145 mm (5.7 inches)
• Maximum length	1 m (39.3 inches)
• Minimum length	120 mm (4.7 inches)
Paper weight	60 to 90 g/m²
Capacity of document feeder	50 pages (80 g/m²)
Effective scanner width	210 mm (8.2 inches)
Zoom in steps of 1%	25% to 400%
Contrast	Yes (7 levels)
Brightness	Yes (7 levels)
Margin adjustment (left/right)	Yes
Origin adjustment	Yes

Platen scanner	
Type	CIS Colour and B/W
Colour analysis	Yes
Resolution in DPI	600 x 2400
Grey scale	256
Colour scale	36 bits/pixel
Window size	220 mm x 304 mm
Maximum paper width	Letter (215.9 x 279.4)
Zoom in steps of 1%	25% to 400%
Contrast	Yes (7 levels)
Brightness	Yes (7 levels)
Printer	
Type	Laser B/W
Printer language	GDI
Resolution in DPI	600 x 600
Maximum paper width (in mm)	Legal (215.9 x 355.6)
Paper feed tray	
• Page capacity (in pages)	250 (64g) / 200 (80g)
• Paper weight	60 to 105 g/m2
Manual paper feed	
• Capacity of pages (in pages)	1
• Paper weight	52 to 162 g/m2
• Transparent (laser printer compatible)	Yes
Page capacity of the output tray	50
Printing on envelopes	Yes (Manual paper feed)
Printer speed	20 PPM
First page printed after	13 s
Printing time at start-up	21 s
Printing area (in mm)	201.54 x 287
Consumable for RD document	
• Maximum initial print cartridge capacity (in ISOIEC19752 pages)	1.5K prints
• Management of consumables (depending on model)	By smart card
• Weight of print cartridge (in Kg)	1.2
• Toner saving function	Yes

Copier	
Type	Black/White
Input resolution (optical) in DPI	300 x 300 (fast) or 600 x 600 (quality)
Output resolution in DPI	600 x 600
Maximum paper size (in mm)	Legal (215.9 x 355.6)
Maximum speed for 300 x 300 (RP) resolution	20 PPM
Maximum speed for 300 x 300 resolution (Letter)	21 PPM
First page printed after	13 s
Multicopy	1 to 99
Zoom	25% to 400%
Zoom steps	1%
Collated copies	Yes
Keyboard and screen	
Keyboard (3100MFP/X)	62 keys
Keyboard (3100MFP/S)	25 keys
Screen (3100MFP/X)	2 lines of 16 characters + 7 icons
Screen (3100MFP/S)	2 lines of 16 characters + 4 icons
Fax-Modem (3100MFP/X only)	
Type	PSTN - Super G3
Maximum speed in bps (V34Fax)	33 600
V34Fax capacity in bps	33 600 to 2 400
• Incrementation in bps	2 400
V17 capacity in bps	14 400, 12 000, 9 600, 7 200
V29 capacity in bps	9 600, 7 200
V27ter capacity in bps	4 800, 2 400
Fax communication (3100MFP/X only)	
Type	PSTN, ITU T-30, G3
Maximum speed in bps (V34Fax)	33 600
Coding	MH, MR, MMR, JBIG
ECM	T30 ECM
Time to transmit RD	2.5 s
Type of transmission	Memory and direct (ADF)
Max. send delay	24 hours
PSTN redial	last 10 numbers

SMS Communication (3100MFP/X only)	
Transmission	Yes (V23)
Reception	No
Mailing	10 directly 249 from directory

DECT Telephone Communication (option) (3100MFP/X only)	
Wireless DECT Telephone	Yes (via USB dongle)
SMS	No
Network notification	No
Answering device	No

Directory (3100MFP/X only)	
Capacity	250
Type	Name / PSTN and SMS number
Transmission list	32
Transmission list capacity	249
Alphabetical typing	Yes
Associated key	Yes
Import/export directory on PC	XML, EAB and CSV formats
Save directory on PC	XML format

Geographical settings	
Countries (3100MFP/X only)	25
Network (3100MFP/X only)	TBR21, FCC68 depending on model
Languages	17

Component Characteristics

Control Panel PWB

The control panel PWB interfaces with the keyboard keys and the LCD display.The LCD has its own driver in COB (Chip On Board).The card also has an external connector to the smart card which is managed by the CPU.

GP 3 Electronic Architecture

The CPU card is based on the Digicolor2 circuit, which ensures the processor functions. All executable code is stored in the flash Z466. This flash is divided into two zones, one is reserved for storing code and the other is reserved for storing documents. The code is loaded in SDRAM from this flash and the processor executes its instructions from the SDRAM. The SDRAM also serves as the operating memory for Digicolor2.

CPU Card

The CPU card is based on the Digicolor2 circuit, which ensures the processor functions. All the executable code is stored in the flash Z466.

This flash is divided into two zones. One zone is reserved for storing code and the other is reserved for storing documents.

The code is loaded in SDRAM from this flash and the processor executes its instructions from the SDRAM. The SDRAM also serves as the operating memory for Digicolor2.

Electronic Architecture
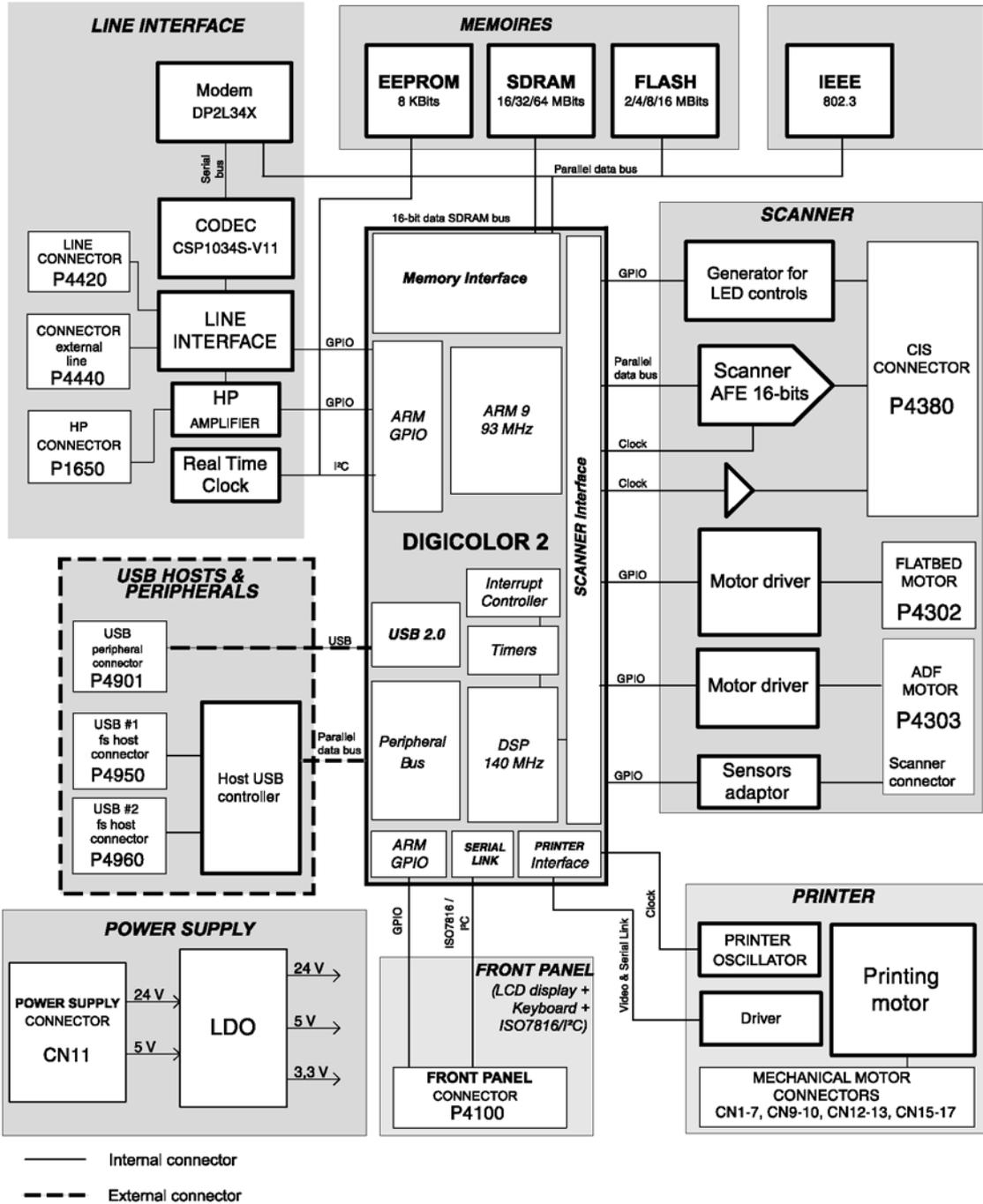
Figure 1 Overview of the CPU electronic architecture (3100MFP/X):
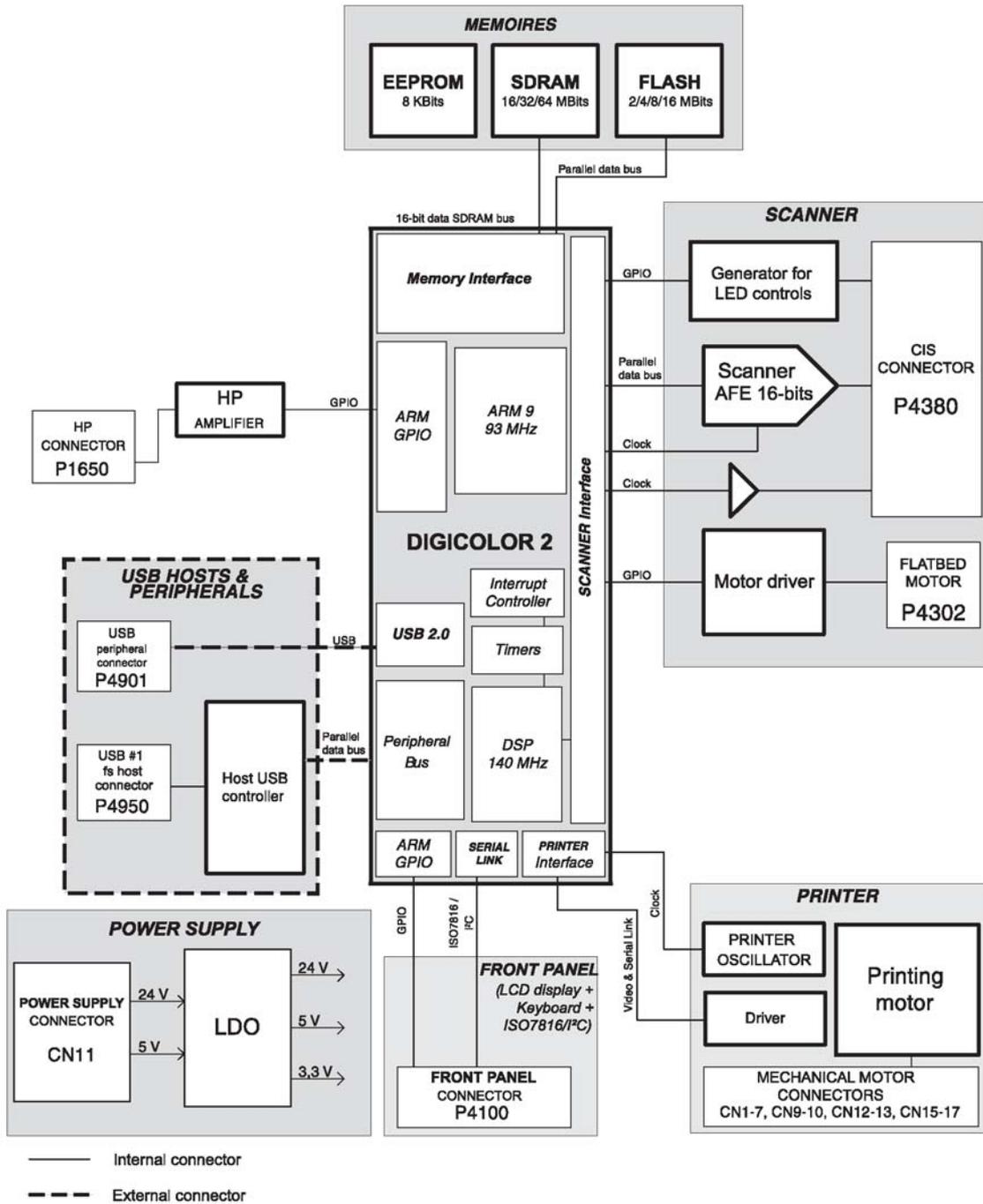
Figure 2 Overview of the CPU electronic architecture (3100MFP/S):

Power Supply

The 24V and 5V power supply are provided by the printer.
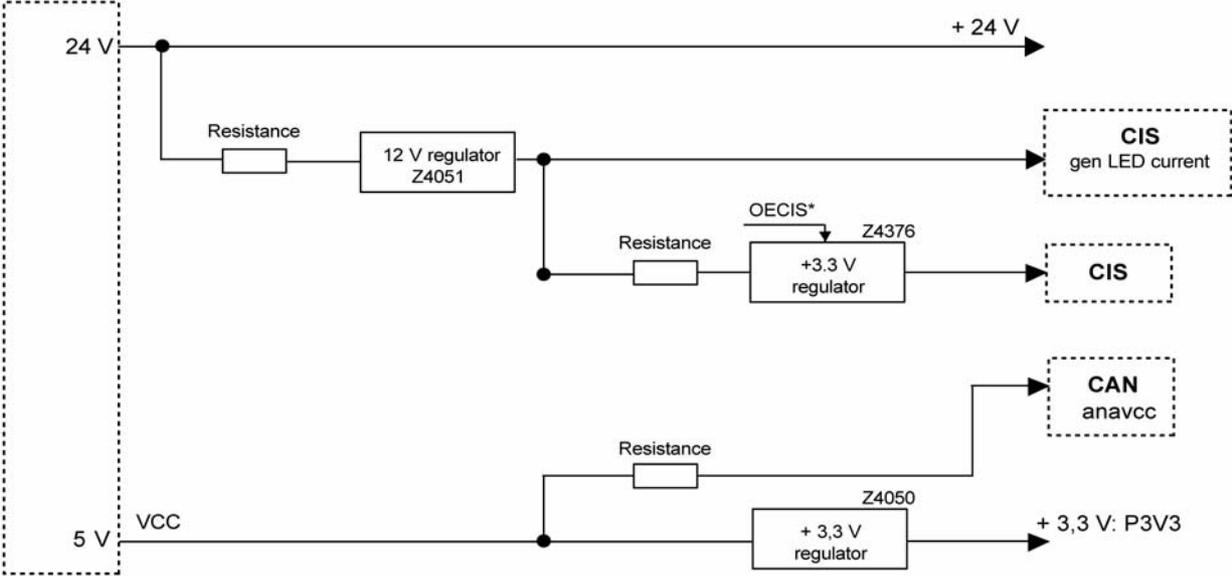
Figure 3 Diagram of printer power supply connections:

CPU Card Clocks
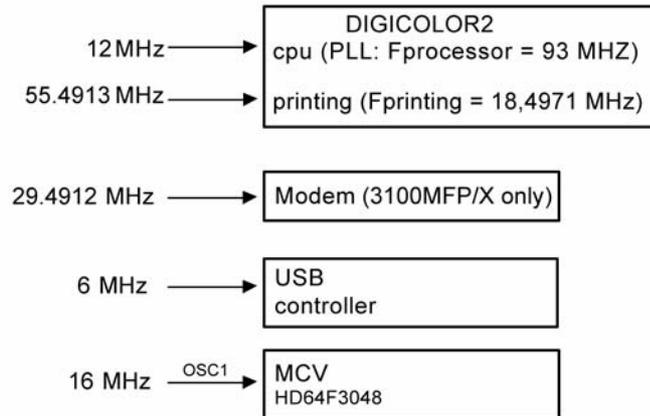
Figure 4

Reset

The reset is generated from 3.3V as all logical parts (DIGICOLOR2, memory, …) are supplied in 3.3V. The reset is active during at least 100ms.
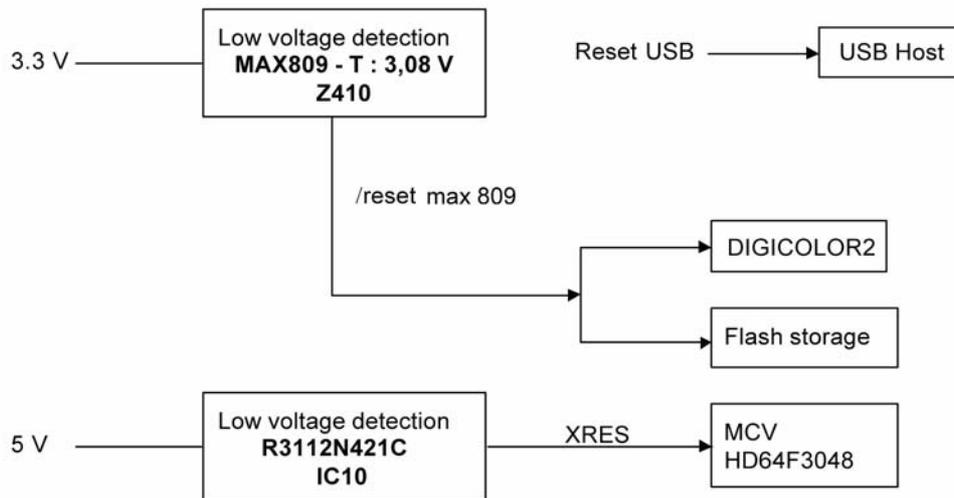
Figure 5 Printer's reset diagram:

GP 4 Print Cartridge Characteristics

For the print cartridge a counter assigns the percentage of toner that can still be used.

For a new cartridge this counter is initialized to the capacity announced by the vendor. This capacity is stored on the smart card provided with the new cartridge and requested for print cartridge replacement.

The percentage displayed (remaining quantity) is calculated in relation to the initial capacity of the cartridge (from 100% to 1%).

The values of the counter are regularly updated in the EEPROM memory. Each time the machine is switched on, the counter is read in the EEPROM memory.

GP 5 Operation

The Xerox 3100MFP range is a Group 3 multi-function machine operating in accordance with the UIT-T T30 recommendations.

The 3100MFP/X consists of a laser printer, a CIS (Contact Image Sensor) colour ADF scanner, a colour flatbed scanner, a control panel with an alphanumerical keyboard and a LCD display with 2 lines of 16 characters (refer to the User Guide for a more complete description of the control panel).

It allows the following operations to be carried out:

- Fax transmission and reception on the switched telephone network using the V34 protocol (max. 33.6 kbits/s) and the V17 protocol (max. 14.4 kbits/s).
- SMS (Short Message Service) transmission on the switched telephone network using the V23 protocol (depending on the model).
- Photocopying documents.
- Local printing and scanning for PC via USB connections.

The 3100MFP/S consists of a laser printer, a colour flatbed scanner, a control panel with a numeric keypad and a LCD display with 2 lines of 16 characters (refer to the User Guide for a more complete description of the control panel).

It allows the following operations to be carried out:

- Photocopying documents.
- Local printing and scanning for PC via USB connections.

The electronics for both the 3100MFP/X and the 3100MFP/S are made up of a control panel PWB and a CPU board. The power supply is provided by the printer.

Before performing any operations on the electronic CPU board, you should:

1. Set the On/Off button to Off (position 0).
2. Unplug all external connectors (phone line connectors, USB connectors master, slave).
3. Unplug the power supply cord.

GP 6 Printer Language

The machine uses the proprietary GDI printing language.

To install the drivers, carried out via the Companion Suite software installation, refer to the User Guide and the Companion Suite documentation kit.

Remark(s): The two-way PJL mode is supported.

GP 7 Paper types

The following is a list of compatible paper formats:

Supports		Paper trays		
Media sizes	Dimensions (mm)	Main	Manual	Feeder
Legal	215.9 x 355.6	yes	yes	yes
A4	210 x 297	yes	yes	yes
Letter	215.9 x 279.4	yes	yes	yes
A5	148 x 210	yes	yes	yes
B5 (JIS)	182 x 257	no	yes	no
Executive	184.2 x 266.7	no	yes	no
A6	176 x 250	no	yes	no
Capacities		250	1	50

Figure 1

GP 8 Space Requirements

The following diagram provides the machine's measurements, excluding optional accessories.

3100MFP/X

445 mm
(17.5 inches)

345 mm
(13.5 inches)

447 mm
(17.5 inches)

Figure 1

3100MFP/S

447 mm
(17.5 inches)

386 mm
(15.1 inches)

344 mm
(13.5 inches)
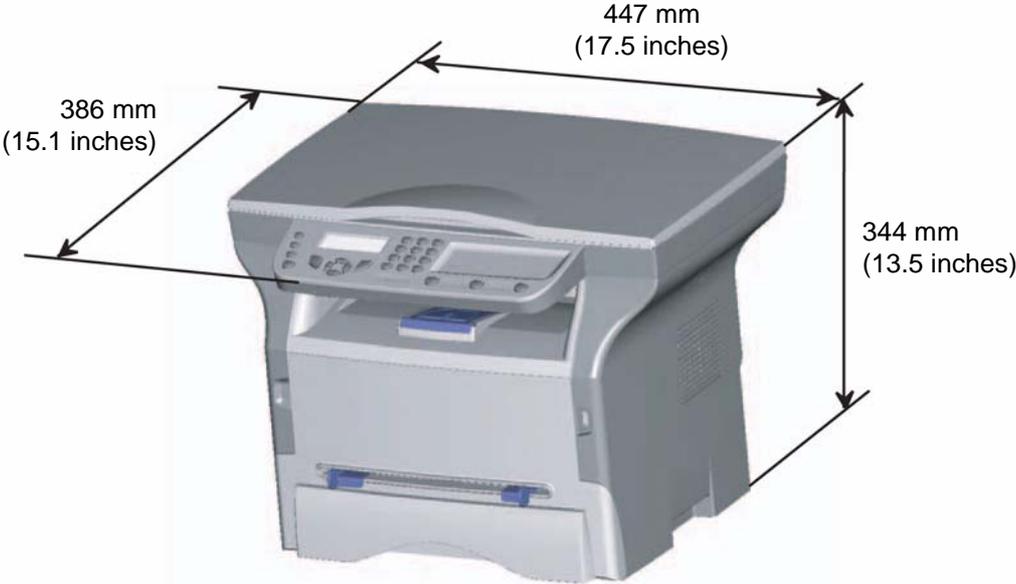
Figure 2

GP 9 Environmental Conditions

When selecting the machine's location, the following factors should be taken into consideration:

- The room should be adequately ventilated.
- A standard single-phase power socket with earth (rated in conformance with the information on the label at the back of the machine) should be located no more than **2 meters (78 inches)** from the machine. This socket should be easily accessible.
- For easy access to the machine and to allow the different machine covers to be opened easily, leave a space of **at least 30 cm (12 inches)** on each side and at the back. Make sure that there is sufficient space in front of the machine.
- Never place the machine where it is under direct sunlight, heating radiators, air-conditioners, Avoid areas with frequent vibrations.
- Avoid areas where water or other products may be splashed on to the machine.
- Never place the machine directly on the floor.
- Always place the machine on a sturdy, flat surface.
- Always keep the machine away from hanging objects and any inflammable products.

GP 10 Connections

3100MFP/X
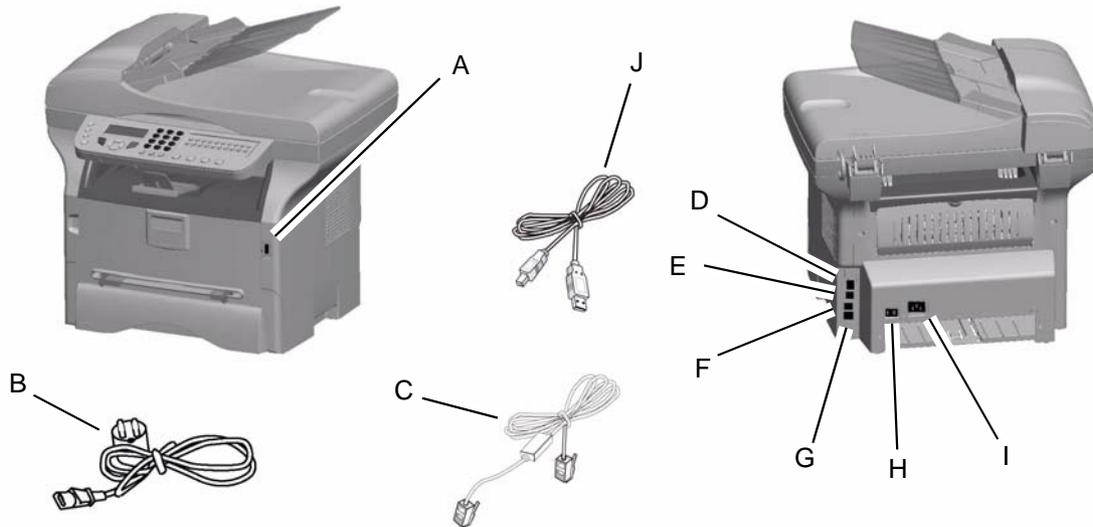
Figure 1

	A	Master USB connection (USB key)
	B	Power cord
	C	Telephone cord (US only)
	D	Master USB connection (USB key)
	E	Slave USB connection (for PC)
	F	EXT.socket - connection for external devices
	G	LINE socket - telephone cable connection
	H	On/Off switch
	I	Power supply cord connection
	J	USB cord

3100MFP/S
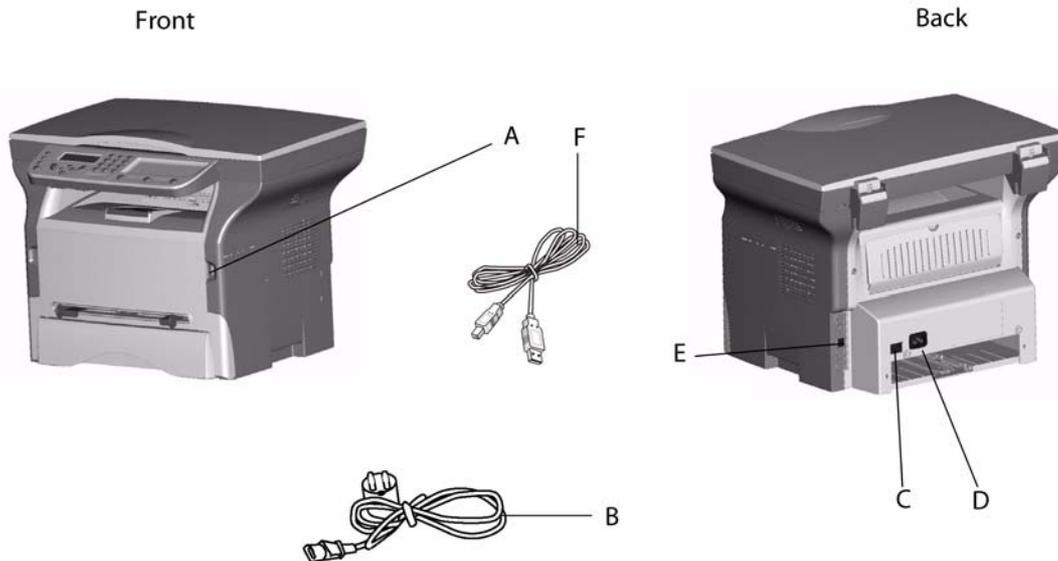
Figure 2

A	Master USB connection (USB key)
B	Power cable
C	On/Off switch
D	Power connection
E	Slave USB for PC
F	USB cable

Phone Line Connection (3100MFP/X only)

1. Plug the end of the telephone line (**C**) into the terminal socket (**G**).
2. Plug the other end of the telephone line (**C**) into the wall telephone socket.

PC Connections

Users can install and configure the machine on their PC as a local printer and scanner. There are two ways of connecting the machine to a PC:
• Via a USB connection,
• Via a WLAN connection.
This section only describes physical connections. Refer to the User Guide booklet for more information on configuring the machine to a PC.

PC Connections Via USB

Note: Before connecting the machine to a PC, the Companion Suite software must be installed on the PC (Refer to the User Guide booklet for the detailed procedure).

1. Connect the end of the USB cable into the USB slave connector (**E**) located at the back of the machine.
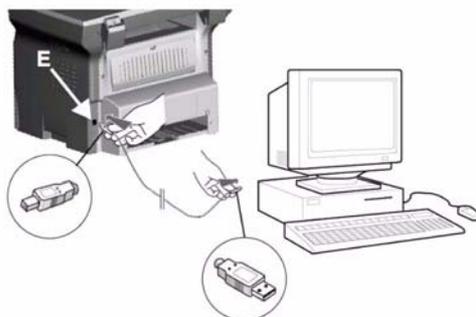
Figure 1

2. Connect the other end of the USB cable into a USB port on the PC.

PC Connections Via WLAN

Note: Before connecting the machine to a PC, the WLAN connection and the Companion Suite software must be installed on the PC (Refer to the User Guide booklet for the detailed procedure).

1. Plug in the electronic WLAN key into the USB master connector (**A**) located at the front of the machine.

Figure 2

2. Connect the other end of the USB cable into a USB port on the PC.

GP 11 Connecting the Power and Switching on the Machine

1. Make sure the machines On/Off switch (**H**) is positioned to Off (position 0).
2. Plug one end of the power cord (**B**) into the machines power socket (**I**), refer to <u>GP 10</u>.
3. Plug the other end of the power cord (**B**) into the power supply wall socket.
4. Set the On/Off switch (**H**) to On (position I).

The machine powers on. After a few seconds, when the machine has warmed up, the Easy Install function is launched and the LCD screen displays the following message:

LANGUAGE

YES=OK - NO=C

Refer to the User Guide booklet for more information on carrying out the Easy Install initial setup.

GP 12 Getting Started and Software Configuration

User Parameters

Refer to the User Guide booklet for a detailed description of parameters available to the user.

Installation Parameters

The installation parameters are used for configuring the machine to the specific requirements of users.

Each machine is programmed with the factory test configurations. The installer can obtain a printed copy of these parameters (sequence of keys ▾ **5 6**).

Note: It is recommended to conserve a paper copy of the list of parameters provided at delivery.

Access to these parameters is only authorized for the maintenance and/or installation service technicians.

The machine comes with software blocks called SOS (Soft Switches) N° 1 to 60. Each block is made up of 8 bits called bit 1 to 8. Each bit has a value of 0 or 1. Reading the block (from bit 1 to bit 8) on the display panel is done from right to left. The blinking cursor is always located on the bit 8 (on the extreme left) when selecting the configuration.

Access to the configuration bytes is available via the initialization screen, via a succession of keys:

$$\boxed{\;\; \blacktriangledown \;\; * \; \# \;\;}$$

The description of the principal configuration parameters for the machine are provided in the List of Configuration. They can be modified just like any other parameter.

List of Configuration (SOS)

Note: *The undocumented Soft Switches in this section are reserved.*

Soft-switch 1: Tuning the ringing tone and automatic printing (3100MFP/X)

Bit	Value	Description
1	1	Reserved
2	0	Reserved
3	0	SOS-DURPAUSE: Long/short pause while dialing Values: 0 (Short 2s) 1 (Long 6s)
4	0	Reserved
5	0	Reserved
6	1	SOS-IMPAUTO: Automatic log print Values: 0 (Without) 1 (With)
7	0	SOS-IMPT30: Automatic printing of T30 trace after comm error Values: 0 (Without) 1 (With)
8	0	SOS-IMPTRA: Access to service functions Values: 0 (Without) 1 (With)

Soft-switch 1: Tuning the ringing tone and automatic printing (3100MFP/S)

Bit	Value	Description
1	1	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	0	Reserved
6	1	Reserved
7	0	Reserved
8	0	SOS-IMPTRA: Printing of traces/authorization for PC download Values: 0 (Without) 1 (With)

Soft-switch 2: Scanner/printer configuration

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Emitting a beep tone when pressing a front panel key Values: 0 (with beep tone) 1 (without beep tone)
4	1	Reserved
5	0	Reserved
6	0	Reserved
7	0	SOS-COPLOC: Local copy Values: 0 (Enabled) 1 (Disabled)
8	0	Reserved

Soft-switch 3: Line Configuration (3100MFP/X only)

Bit	Value	Description
1	1	SOS-NIVEMI: Transmission level
2	0	Values:
3	0	00 = 0 dBm 01 = -1 dBm
4	1	... 06 = -6 dBm ... 0F = -15 dBm
5	0	Reserved
6	0	SOS-SEUILREC: Reception threshold 1 Values: # 0 (-43 dB) 1 (-47 dB)
7	0	SOS - EPTV29: Use Echo Protect Tone with V29 Values: 0 (Without) 1 (With)
8	0	SOS - ECHO: Echo cancelling Values: 0 (Without) 1 (With)

Soft-switch 4: Fax protocol configuration (3100MFP/X only)

Bit	Value	Description
1	1	SOS-MODPRIV: Communication in private mode Values: 0 (Without) 1 (With)
2	0	SOS-DIS-COURT: Restricted DIS size Values: 0 (long DIS (complete)) 1 (Short DIS)
3	0	SOS-TCF: TCF accept criterion Values: 0 (Normal): refused if there has not been 1 continuous second. 1 (Special): 1 discontinuous second in the TCF, then accepted systematically at 2 400 b/s.
4	0	SOS-RTN: Page accept criterion
5	0	Values: 0 (10 percent) 1 (15 percent) 2 (20 percent) 3 (no check)
6	1	SOS-DISINF: Unlimited DIS length Values: 0 (Without) 1 (With)
7	0	SOS-LGINF: Maximum length of scan, printing, communication Values: 0 (1 meter) 1 (3 meters)
8	1	SOS-ECM: ECM Values: 0 (Without) 1 (With)

Soft-switch 5: Voice/loudspeaker Configuration (3100MFP/X only)

Bit	Value	Description
1	1	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	0	SOS-HP: Line monitoring during fax comm. Values: 0 (Without) 1 (With)
6	1	Reserved
7	1	Reserved
8	0	Reserved

Soft-switch 6: Line adjustment (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	0	Reserved
6	0	Reserved
7	0	Reserved
8	0	SOS-TSTDCOM: Driver com test functions Values: 0 (Without) 1 (With)

Soft-switch 8: Remote readout/internal answering machine/modem (3100MFP/X only)

Bit	Value	Description
1	0	SOS-TLR: Remote readout enable (ATTENTION!) Values: 0 (No remote readout) 1 (Remote readout enabled)
2	1	Reserved
3	1	Reserved
4	0	Reserved
5	1	Reserved
6	1	Reserved
7	0	Reserved
8	1	Reserved

Soft-switch 9: Approval + communication applications (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	1	SOS-REPERR: Redialing from page fault Values: 0 (Without) 1 (With)
5	1	SOS-NOTREMIS: Printing of first page on transmission rapport Values: 0 (Without) 1 (With)
6	0	SOS-GRILLAGE: Burn phone numbers Values: 0 (Without) 1 (With)
7	1	SOS-LIGNE5S: Lines of 5 sec.during reception Values: 0 (Length of lines not limited to 5 sec./line) 1 (Maximum length of a line: 5 seconds)
8	1	Reserved

Soft-switch 10: Communications: Locks/Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	0	SOS-AFFVIT: Communication rate display Values: 0 (Without) the page number is displayed. 1 (With) the comm. rate is displayed.
2	1	SOS-BTYPNUM: Access to impulse/DTMF parameter Values: 0 (With) Reserved 1 (Without)
3	0	Reserved
4	1	Reserved
5	1	SOS-TLRFAX: Remote readout by fax (ATTENTION!!!) Values: 0 (Remote readout to Quadrige in transparent mode) 1 (Remote readout by fax)
6	0	Reserved
7	0	SOS-SONREA: Access to redialing parameters (screen /printer) Values: 0 (No access) 1 (With access)
8	0	Reserved

Soft-switch 18: Coding/UART Rate (3100MFP/X only)

Bit	Value	Description
1	1	SOS-CODMEM: Stored document encoding type
2	1	Values: 00 (MMR Coding) 01 (MH Coding) 10 (MR Coding) 11 (JBIG Coding)
3	1	SOS-CODCOM: COM negotiated encoding type
4	1	Values: 01 (MH Coding) 10 (MR Coding) 11 (MMR Coding)
5	0	Reserved
6	0	
7	0	SOS-AFF_VIT_REELLE: Show/hide real communication rates Values: 0 (show reduced rates) 1 (show real rates)
8	0	Reserved

Soft-switch 19: Miscellaneous software functions (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	1	Reserved
3	0	SOS-GROUPE: Restriction on groups (or distribution list) Values: 0 (No groups) 1 (Groups accepted)
4	0	SOS-REGULREC: T30 reception control inhibited Values: 0 (Without) 1 (With)
5	0	Reserved
6	1	SOS-MENUCLAVIER: Hide keyboard menus and force QWERTY keyboard Values: 0 (Show) 1 (Hide)
7	0	SOS-ONETOUCH: Enable "One touch" functions Values: 0 (Without) 1 (With)
8	0	SOS-TLC: Accept software download via Telephone line Values: 0 (Without) 1 (With)

Soft-switch 21: T4 Decodeur/Debug (3100MFP/X only)

Bit	Value	Description
1	1	SOS-TRAITLIGERR: T4 decoding line copying mode Values: 0 (For each line with an error) 1 (Only once, then destroy)
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	1	Reserved
6	0	Reserved
7	0	SOS-DETECT OCCUP: Inhibition of engaged tone detect Values: 0 (Without) 1 (With)
8	0	Reserved

Soft-switch 22: Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	1	SOS-DUREE-2100: Transmission time of the 2100 modified for V34 reception
2	1	Values: 00 (5 seconds) 01 (4.5 seconds) 10 (4 seconds) 11 (3.5 seconds)
3	0	Reserved
4	0	Reserved
5	0	Reserved
6	0	Reserved
7	0	Reserved
8	0	Reserved

Soft-switch 23: Miscellaneous (3100MFP/X)

Bit	Value	Description
1	1	SOS-JBIG: SUPER 3 capability to execute communication with JBIG encoding. Values: 0 (No SUPER G3) 1 (Negociated SUPER G3)
2	1	Reserved
3	0	Reserved
4	1	SOS-COMPACTE-RL: Compacting of run length (for fax server ELLIPSE) Values: 0 (No compacting) 1 (Compacting run length of no length)
5	0	SOS-DEBRIDAGE-JAUGE: Expectation of EEPROM cards at any moment. Values: 0 (No) 1 (Yes)
6	0	Reserved
7	0	Reserved
8	1	Reserved

Soft-switch 23: Miscellaneous (3100MFP/S)

Bit	Value	Description
1	1	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	0	SOS-DEBRIDAGE-JAUGE: Acceptance of EEPROM cards at any moment. Values: 0 (No) 1 (Yes)
6	0	Reserved
7	0	Reserved
8	1	Reserved

Soft-switch 26: Miscellaneous (3100MFP/X)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Restriction on USB function Values: 0 (Without) 1 (With)
5	0	With or without duplication of on page passage threshold. Values: 0: No duplication: NBI_SUP_B (1cm) 1: Duplication: NBI_SUP_B * 2 (2 cm)
6	0	RR/RNR regulation limitation to 4 in T30. Values: 0: No limitation 1: With limitation
7	1	Double alternation optocoupler use Values: 0: Optocoupleur mono alternation 1: Optocoupleur double alternation
8	0	Reserved

Soft-switch 26: Miscellaneous (3100MFP/S)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Restriction on USB function Values: 0 (Without) 1 (With)
5	0	Reserved
6	0	Reserved
7	0	Reserved
8	0	Reserved

Soft-switch 27: Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	
3	0	
4	1	
5	0	Waiting time before validation of unexpected modulation in comparison with expected modulation. (~/driver/m_lucent/sms_m_dp2v/src/dpmain.c) 00 = 60 + 0*30 ms= 60 ms
6	0	01 = 60 + 1*30 ms = 90 ms
7	0	02 = 60 + 2*30 ms = 120 ms 03 = 60 + 3*30 ms = 150 ms
8	0	04 = 60 + 4*30 ms = 180 ms 05 = 60 + 5*30 ms = 210 ms 06 = 60 + 6*30 ms = 240 ms ...... 0F = 60 + 15*30 ms = 510 ms

Soft-switch 29: Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Force the V29 modulation for 9600 and 7200 rates #0: Enabled 1: Disabled
5	0	Reserved
6	0	Reserved
7	0	Reserved
8	0	Reserved

Soft-switch 31: Miscellaneous

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Displaying the TRASH CAN consumable (in the 86 menu) Values: 0 (Without) 1 (With)
5	0	Using the DHCP queries in ad-hoc WLAN mode Values: 0 (With) 1 (Without DHCP-directly APIPA)
6	0	Reserved
7	0	Reserved
8	0	Reserved

Soft-switch 32: Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	1	Reserved
6	1	Reserved
7	0	Reserved
8	1	Reserved

Soft-switch 33: Miscellaneous (3100MFP/X only)

Bit	Value	Description
1	0	Reserved
2	0	Reserved
3	0	Reserved
4	0	Reserved
5	1	Question to the user about a good fax printing Values: # 0 (with) 1 (without question to user)
6	0	Reserved
7	0	Reserved
8	0	Reserved

GP 13 Downloading the Software

Updating the machine software is principally carried out via a PC connection (**USB** only, see **PC connections**, page 7).

The principal software which controls the card core and the miniboot software may be downloaded separately.

*Note: After downloading the principal software, the scanner may require calibration. Enter ▼ **8 0** and confirm by pressing **OK**. Wait until the screen refreshes and reverts to the default screen mode. Make a local copy to check its quality.*

Downloading via PC connection

Via the executable TELUSB2

This procedure requires a standard PC running under Windows and equipped with the TELUSB2.exe (version 2.02) executable and a USB cable.

Before you start, position the bit n° 8 to 1 on the Soft-switch 1.

1. Connect the machine to a PC with the USB cable.
2. Set the machine to download via PC mode (▼ * **4**).
3. Launch the executable **TELUSB2.EXE** and select the file to be downloaded (extensions.bin or.fwf).

   After about ten seconds, a window will appear to indicate that the download was successful. The machine should not be restarted immediately.

   If the machine restarts immediately, the file is corrupted (checksum false) or the software is not compatible with the machine. The machine then restarts with the initially installed software. In this case, check the file and repeat step **1**.
4. After about 40 seconds, the machine switches off then restarts. The message **WAIT** is displayed.
5. Check the version of the principal software and checksum by typing in ▼ * **V** or check the software version and the miniboot's checksum by typing in ▼ * **B**.

Via the Update Device function of Companion Suite

This procedure requires a standard PC running under Windows equipped with the Companion Suite software and a USB cable.

Before you start, Check that the machine is connected to the PC via the USB cable.

1. On the PC, click **START >ALL PROGRAMS >COMPANION SUITE >PHASER 3100 MFP > UPDATE**.
2. In the Update window, click on the **BROWSE** icon and select the update file to be downloaded on the machine.
3. After selecting the update file, click on **OPEN**.
4. Click on **UPDATE**.

Downloading with the miniboot

Via the executable TELUSB2

This procedure requires a standard PC running under Windows and equipped with the TELUSB2.exe (version 2.02) executable and a USB cable.

Before you start, position the bit n° 8 to 1 on the Soft-switch 1.

1. Set the machine On/Off switch to Off (position 0).
2. Connect the machine to the PC via the USB cable.
3. Press the **4**, **6** and **0** keys simultaneously and set the On/Off switch to On (position I). The machine is switched on. The message **USB DETECTED WAITING FOR DOWNLOAD** is displayed and an alert sound is emitted. If the message **WAITING FOR A USB LINK** is displayed, check that the machine is properly connected to the PC via the USB cable.
4. Release the **4**, **6** and **0** keys.
5. Launch the executable **TELUSB2.EXE** and select the file to be downloaded (extensions.bin or.fwf).

   After about ten seconds, a window will appear to indicate that the download was successful. The machine should not be restarted immediately.

   If the machine restarts immediately, the file is corrupted (checksum false) or the software is not compatible with the machine. The machine then restarts with the initially installed software. In this case, check the file and repeat step **1**.
6. After about 40 seconds, the machine switches off then restarts. The message **WAIT** is displayed.
7. Check the version of the principal software and checksum by typing in ▾ *** V** or check the software version and the miniboot's checksum by typing in ▾ *** B**.

Via the UdpateDevice function of the Companion Suite

This procedure requires a standard PC running under Windows and equipped with the Companion Suite software and a USB cable.

Before you start, position the bit n° 8 to 1 on the Soft-switch 1.

1. Set the machine On/Off switch to Off (position 0).
2. Connect the machine to the PC via the USB cable.
3. Press the **4**, **6** and **2** keys simultaneously and set the On/Off switch to On (position I). The machine is switched on. The message **RECEIVING FILE** is displayed and an alert sound is emitted.
4. Release the **4**, **6** and **2** keys.
5. On the PC, click **START >ALL PROGRAMS >COMPANION SUITE >PHASER 3100 MFP > UPDATE**.
6. In the Update window, click on the **BROWSE** icon and select the update file to be downloaded on the machine.
7. After selecting the update file, click on **OPEN**.
8. Click on **UPDATE**.

GP 14 Remote Readout

Before and after each service call on a machine equipped with the remote readout option, perform a manual transmission of the remote readout parameters to the service center, if the state of the machine allows it.

All machines are equipped with the Remote Readout option (locked).

The option is unlocked by the installer or maintenance technician during the initial installation or during the intervention following the subscription of the contract.

When intervening on these machines, it is **very important** to proceed with care, because the remote readout parameters are verified by the processing centre in order to detect any anomalies, such as moving the machine, withdrawal, unintentional modification of the parameters, attempted fraud, etc.

At each automatic transmission, the Remote Readout parameters are transmitted in the night to the Server centre. A report of the transmission of these parameters is printed.

Enabling the Remote Readout

The remote readout is enabled by means of a softswitch: bit 1of SOS 8. The parameters can then be set by means of the hidden menu (key sequence ▼ * 6). The essential parameters that trigger a remote readout are the interval in days and the page thresholds. Once the parameters have been entered, they can be consulted by means of the key sequence ▼ 8 7 1 and printed by means of the key sequence ▼ 8 7 2.

The transmission mode of the remote readout can be selected by means of another softswitch, bit 5 of SOS 10, which can be set to 1 for conventional fax transmission and 0 for transparent mode.

Trigger Criteria

The remote readout can be triggered by two types of criteria: "day" or "threshold".

The "day" criterion is based on the "interval in days" parameter entered in the remote readout menu accessible by means of the key sequence ▼ * 6. This parameter represents the interval at the end of which a remote readout is transmitted. If the parameter has been set to 30, a remote readout will be transmitted every 30 days. This parameter cannot exceed 365 days. A transmission using the day criterion allows the server centre to regularly monitor its installed base of machines and to detect any anomalies that may occur. The remote readout using the day criterion can be disabled by entering an interval of zero.

The "threshold" criterion is based on the page thresholds entered in the remote readout menu accessible by means of the key sequence ▼ * 6. When a consumables counter drops below the corresponding threshold, the remote readout is triggered. For instance, if the toner threshold is set to 1500 pages, a remote readout will be transmitted when the toner counter drops below 1500, or in other words, when the remaining toner allows no more than 1500 pages to be printed.

These counters cannot be read directly, however, they can be calculated easily by means of the percentages displayed in the advanced functions menu (key sequence ▼ 8 6), relative to the initial number of pages for the consumable (as shown in the remote readout report). If, for instance, the

initial number of pages for the consumable is **8000** and the threshold is set to **2000** pages, the remote readout will be triggered when the corresponding percentage drops below 25%.

The remote readout using the threshold criterion can be triggered only once per consumable. Once the remote readout has been transmitted, the criterion will no longer be tested until the consumable has been replaced.

The transmissions triggered by the two criteria (thresholds and day) are independent of each other. I.e., as soon as one of the criteria is met, the transmission is triggered, irrespective of the state of the other parameters. The transmission is immediate.

It is also possible to force a transmission manually by means of the **advanced functions** menu (key sequence ▾ **8 7 3**).

Initial Consumables (print cartridge)

On a new machine, the consumables are activated by reading an initial EEPROM card. The consumables present in the machine at that time are referred to as the initial consumables. In this case, regardless of the thresholds entered in the **advanced functions** menu (key sequence ▾ *** 6**), for each consumable the first remote readout will be triggered on the base of a threshold criterion of 1000 pages. After this, when the consumable has been replaced and after reading the EEPROM card, the machine switches to the standard remote readout mode as described earlier.

Description of the Transmitted Data

Format of transmitted data in transparent mode

When a criterion is met, a transmission in transparent mode is generated (the softswitch SOS 10 bit 5 must have been set to 0).The structure of the transmitted file is of the type TLV (Type - Length - Value).

The transmitted data are defined below, with for each item: its identifier (TLV "type"), its format (numerical or character string) and its origin (entered by the operator or generated by the software).

These parameters, which are also present in the transmission report, will be described further on.

Field	Type	Char. / Num.	Manual entry
TVERS_TLR	0x00	char	No
TNO_23MIL	0x01	char*	Yes
TNO_SERIE	0x02	char*	Yes
TNO_CLIENT	0x03	char*	Yes
TNO_VERSION	0x04	char*	No
TINDICATIF	0x05	char*	Yes
TIDENTIFIANT	0x06	char*	Yes
TNO_SERVEUR	0x08	char*	Yes
TCAUSE_EMIS	0x09	uchar	No
TNOMRESP	0x10	char[15]	Yes
TSOCIETE	0x11	char[15]	Yes
TADRESSEL1	0x12	char[30]	Yes
TADRESSEL2	0x13	char[30]	Yes
TADRESSEL3	0x14	char[30]	Yes
TCODEPOSTAL	0x15	char[15]	Yes
TVILLE	0x16	char[30]	Yes
TPAYS	0x17	char[15]	Yes
TLANGUE	0x18	char[15]	Yes
TTELEPHONE	0x19	char[30]	Yes
TDATE_EMIS	0x21	char*	No
T_CPT_PAGES	0x40	long	No
T_CRIT_JOURS	0x42	long	Yes
T_CPT_PAGES_JOURS	0x43	long	No
T_DATE_SEUIL_JOURS	0x45	char*	No
T_INIT_NOIR	0x46	long	No
T_CPT_NOIR	0x47	long	No
T_SEUIL_NOIR	0x48	long	Yes
T_DATE_SEUIL_NOIR	0x49	char*	No
T_DATE_CHG_NOIR	0x4a	char*	No
T_INIT_OPC	0x5a	long	No
T_CPT_OPC	0x5b	long	No
T_SEUIL_OPC	0x5c	long	Yes
T_DATE_SEUIL_OPC	0x5d	char*	No
T_DATE_CHG_OPC	0x5e	char*	No

The values of the field TCAUSE_EMIS (reason for transmission) are the following:

Interval days 2

Manual send 3

Toner 4

The initial values of the page counters for a new print cartridge is T_INIT_NOIR.

Remote Readout Report

For each transmission a remote readout report is printed. It contains all the data that has been transmitted to the service center in transparent mode. In the case of a transmission in fax mode, the fax that is received is identical to this report.

The report uses the presentation shown below:

```
** PARAMETRES DE TELERELEVE **


INFORMATIONS GENERALES

Numéro 23 millions             : XXXXXXXXXX
Numéro de série                : XXXXXXX
Numéro compte client            : XXXXXXXXXX
Numéro de version              : XXXXXXXX
Numéro                         : XXXXXXXXXXXXXX
Nom                            : XXXXXXXXXXXX
Centre serveur                 : XXXXXXXXXXXXX
Nom de la personne responsable   : XXXXXXXXXXXXX
Société                        : XXXXXXXXXXXXX
Adresse                        : XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Adresse                        : XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Adresse                        : XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Code postal                    : XXXXXXXXXXXX
Ville                          : XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Pays                           : XXXXXXXXXXXXX
Langue                         : XXXXXXXXXXXXX
Téléphone                      : XXXXXXXXXXXXXXXXXXXXXXXXXXXX

INFORMATIONS DE GESTION

Statut de l'imprimante   Nombre de pages : XXXXX

Intervalle jours:        Intervalle jours : XXXX
                         Précédente télérelève le JJ/MM/AA HH :MM
                         - Nombre de pages = XXXXX

Toner:                   Nombre estimé de page : XXXXXSeuil pages : XXXXX
                         Précédente télérelève le JJ/MM/AA hh:mm (XXXX pages)
                         Dernier renouvellement le JJ/MM/AA hh:mm


INFORMATIONS EMISSION

Cause émission : XXXXXXXX    XXXXX

Heure émission : JJ/MM/AA  hh:mm
```

Figure 3

Description of the Parameters

The different fields shown in the report are described below.

General Information

- (TNO_23MIL): the 23M of the module managed by the service center, entered by the installer;
- (TNO_SERIE): the identification of the machine, entered by the installer;
- (TNO_CLIENT): the identification of the contract, entered by the installer;
- (TNO_VERSION): generated automatically;
- (TINDICATIF): the machine number, entered by the installer;
- (TIDENTIFIANT): the machine name, entered by the installer;
- (TNO_SERVEUR): the phone number of the service center or of the fax, entered by the installer.
- (TNOMRESP): the name of the person responsible for the machine, entered by the installer.
- (TSOCIETE): the name of the company who owns the machine, entered by the installer.
- (TADRESSEL1, TADRESSEL2 et TADRESSEL3): postal address of the machine, entered by the installer.
- (TCODEPOSTAL): entered by the installer.
- (TVILLE): entered by the installer.
- (TPAYS): entered by the installer.
- (TLANGUE): entered by the installer.
- (TTELEPHONE): entered by the installer.

Printer Status

- T_CPT_PAGES): the cumulative total number of pages printed since the installation of the machine.

Interval in Days

- (T_CRIT_JOURS): the trigger interval using the day criterion (0 if the criterion is not active), entered by the installer;
- (T_DATE_SEUIL_JOURS): date of the last remote readout triggered by the day criterion, or installation date if there has not been any previous remote readout;
- (T_CPT_PAGES_JOURS): value of the cumulative number of pages printed at the date of the previous remote readout triggered by the day criterion (or 0 if there has not been any previous remote readout).

Toner

- (T_INIT_NOIR): theoretical capacity of the cartridge estimated in average pages;
- (T_SEUIL_NOIR): trigger level (expressed as the number of pages remaining to be printed) for the transmission of a remote readout triggered by the toner threshold criterion, entered by the installer;
- (T_DATE_SEUIL_NOIR): date of the last remote readout triggered by the toner threshold criterion, or installation date if there has not been any previous remote readout;
- T_CPT_NOIR): theoretical number of pages remaining to be printed at the instant of the triggering of the previous remote readout by the toner threshold criterion (or 0 if there has not been any previous remote readout);

- (T_DATE_CHG_NOIR): date of the last replacement of the print cartridge.

Transmission Data
- (TCAUSE_EMIS): reason for the remote readout transmission;
- (TDATE_EMIS): date of the transmission of the remote readout.

Reminders

- Every machine is equipped with a copy counter, implemented in EEPROM memory on the CPU board. This counter is used in particular by the Remote Readout function. It can be consulted by the user (see § 5 of the User booklet). This counter cannot be modified. It is stored indefinitely.
- Before any service on the machine that risks modifying the installation parameters or the value of the counter (replacement of the CPU board or installation of new software), a manual Remote Readout transmission should be performed, if the state of the machine allows it. If this transmission is not possible for any reason, print out the Remote Readout parameters or display the copy counter and note these values on the service report.

GP 15 Storing User Parameters And Activity Counters On The Machine

The condition of the printer consumable (print cartridge) is stored in EEPROM memory (on the CPU card) and can be read via the command ▼ **8 6**. This evaluation, provided in percentage format, indicates the remaining quantity of toner in relation to the consumable's initial values.

The printer activity counters are also stored in flash (on the CPU card), they can be read via the command ▼ **8 2** and can be printed via ▼ **5 6** (printing of parameters). These absolute counters reflect the machine's overall utilization regardless of the consumable:

- number of pages sent (3100MFP/X only),
- number of pages received (3100MFP/X only),
- number of pages printed,
- number of pages scanned.

CAUTION

Any major service on the machine (replacement of the CPU card, major upgrade of the machine software) may lead to the permanent loss of the user parameters and the activity counter values.

Note: *If such operations are necessary, print the parameters and counters (▼ 5 6) to retain a copy. You can also store user parameters and directory entries on a smart card (▼ * 6) and restore them (▼ * 9) after the machine is serviced.*

GP 16 Packing and Transporting the Machine

If you need to transport the machine, always use the original package. If the machine is not properly packed, the warranty may be cancelled. Also check that the machine new location meets the installation requirements, GP 9.

1. Set the machine On/Off switch to Off (position 0).
2. Disconnect all the cables connected to the machine.
3. Remove the document feeder and gently push the paper tray inwards to avoid obstructing the machine packaging.
4. Pack the machine in its original plastic wrapping and put it in its original packing box together with the other components (power cord, etc.).
5. Pack all documentation (manuals and printed documents) into the packing box and seal it with adhesive tape.


Removable ADF document tray (3100MFP/X only)

Machine

USB cable

Print cartridge

Power cable

Documentation supplied with machine

CD ROMs containing:
- User Guide
- Software depending on model

Telephone cable (US 3100MFP/X only)

Figure 1