Xerox Supplies and Accessories
Consumables and Maintenance Items

Table 1

NA/XE, Cyan Std Cap	1K	106R03473
NA/XE, Magenta Std Cap	1K	106R03474
NA/XE, Yellow Std Cap	1K	106R03475
NA/XE, Black Std Cap	2.5K	106R03476
NA/XE, Cyan Hi Cap	2.4K	106R03477
NA/XE, Cyan Hi Cap	2.4K	106R03478
NA/XE, Yellow Hi Cap	2.4K	106R03479
NA/XE, Black Hi Cap	5.5K	106R03480
NA/XE, Cyan EX Hi Cap	4.3K	106R03690
NA/XE, Magenta EX Hi Cap	4.3K	106R03691
NA/XE, Yellow EX Hi Cap	4.3K	106R03692
DMO, Cyan Std Cap	1K	106R03481
DMO, Magenta Std Cap	1K	106R03482
DMO, Yellow Std Cap	1K	106R03483
DMO, Black Std Cap	2.5K	106R03484
DMO, Cyan Hi Cap	2.4K	106R03485
DMO, Magenta Hi Cap	2.4K	106R03486
DMO, Yellow Hi Cap	2.4K	106R03487
DMO, Black Hi Cap	5.5K	106R03488
DMO, Cyan EX Hi Cap	4.3K	106R03693
DMO, Magenta EX Hi Cap	4.3K	106R03694
DMO, Yellow EX Hi Cap	4.3K	106R03695
Cyan Metered	2.4K	106R03489
Magenta Metered	2.4K	106R03490
Yellow Metered	2.4K	106R03491
Black Metered	5.5K	106R03492
Waste Cartridge	30K	108R01416
Cyan Drum Cartridge	48K	108R01417
Magenta Drum Cartridge	48K	108R01418
Yellow Drum Cartridge	48K	108R01419
Black Drum Cartridge	48K	108R01420

(Toner yield based on ISO/IEC 19752 Test Standard. Toner consumption will vary depending on image, area coverage and media that is used. Drum cartridge yield based on avg 3 page job length)

GP 33 Interior and Exterior Cleaning

Purpose

Whenever cleaning any portion of the printer, follow the precautions.

General Precautions

CAUTION

– *Do not remove the covers or guards that are fastened with screws. You cannot maintain or service any parts that are behind these covers and guards. Do not attempt any maintenance procedure that is not described in the documentation supplied with your printer*

– *When cleaning your printer do not use organic or strong chemical solvents or aerosol cleaners. Do not pour fluids directly into any area. Use supplies and cleaning materials only as directed in this documentation.*

• Do not place anything on top of the printer.

• Do not leave the covers and doors open for any length of time, especially in well-lit places. Light exposure can damage the imaging units.

• Do not open covers and doors during printing.

• Do not tilt the printer while it is in use.

• Do not touch the electrical contacts or gears. Doing so could damage the printer and cause the print quality to deteriorate.

• Ensure any parts removed during cleaning are replaced before you plug in the printer.

Recommended Tools

• Toner vacuum cleaner

• Clean water

• Clean, dry, lint-free cloth

Cleaning Process

WARNING

Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

Clean the exterior of the printer once a month.

• Wipe the paper tray, output tray, control panel, and other parts with a damp, soft cloth.

• After cleaning, wipe with a dry, soft cloth.

• For stubborn stains, apply a small amount of mild detergent to the cloth and gently wipe the stain off.

CAUTION

Do not spray detergent directly on the printer. Liquid detergent could enter the printer through a gap and cause problems. Never use cleaning agents other than water or mild detergent.

WARNING

Do not handle the fuser components until they have cooled. Some fuser components operate at hot temperatures and can produce serious personal injury if touched.

Clean the interior of the printer regularly to prevent stains inside the printer that can deteriorate printing quality. Clean the printer interior whenever you replace an imaging unit.

After clearing paper jams or replacing a toner cartridge, inspect the inside of the printer before closing the printer covers.

• Remove any remaining pieces of paper or debris. For details, see Clearing Paper Jams.

• Remove any dust or stains with a dry, clean cloth.

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GP 27 Environmental Data

Operating Environment Specifications

The printer should be stored and operated under the environmental conditions shown in Table 1:

Table 1 Operating Environment

Characteristic	Specification
Installation Temperature / Humidity	Installation temperature and humidity on the condition without condensation is as follows. Operating: 5-32degC, 15-85%RH (No condensation) Storage: minus 20-40degC, 5-85%RH (No condensation)
Installation Altitude	0 to 3,100m (0 - 10,170 ft)
Installation Horizontally	Longitudinal levelness of table surface on which the printer is installed Longitudinal: 1 degree or under Lateral: 1 degree or under
Storage Temperature of a Toner Cartridge	The guaranteed period of the Toner Cartridge before unpacked is as follows: Normal conditions: 24 months under 5 to 32degC, 15 to 85%RH. Harsh conditions: 1 month under -20 to 0degC and 35 to 40degC, 5 to 15%RH and 80 to 90%RH. The storage altitude shall be 0 to 3,100m. Can be extended to 0 to 15,000m when shipped by air. (Provided that the cargo bay is pressurized to 70.9275Kpa or higher.
Acoustic Noise Sound Pressure (Decibels)	Operation: 56.0 dB Standby or Ready: 30.0 dB

Safety / Environment Conditions

The printer meets the safety and environmental standards shown in Table 2:

Table 2 Safety / Environment Conditions

	100-127V M/C	220-240V M/C
Safety Standard	UL60950-1, CSA 22.2 60950	IEC60950-1 / EN60950-1
Laser Safety Standard	FDA21CFR Chapter 1, Subchapter J, Section 1010, 1040	IEC60825-1 Amendment 1 + Amendment 2 / EN60825-1 Amendment 1 + Amendment 2 Class 1 Laser Product
EMI	FCC Part15 Subpart B, Class A	EN55022:2006, Class A

Noise Levels

The printer's noise levels during operation and standby are shown in Table 3:

Table 3 Noise Levels

Operating Mode	Sound Power (B)	Sound Pressure (dB)
Running	7.15B	53dB
Standby	4.14B	25.1dB

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GP 30 IP (ESS) Specifications

Support OS

The machine supports the following operation systems with the latest service pack.

- Microsoft Windows XP (32bit / 64bit)
- Microsoft Windows Server 2003 (32bit / 64bit)
- Microsoft Windows Vista (32bit / 64bit)
- Microsoft Windows Server 2008 (32bit / 64bit)
- Microsoft Windows Server 2008 R2 (64bit)
- Microsoft Windows 7 (32bit / 64bit)
- Mac OS X 10.3.9/10.4/10.5 (PPC/x86)
- Mac OS X 10.6/10.7 (x86/x64)
- Red Hat Enterprise Linux 5/6 Desktop (x86)
- SUSE Linux Enterprise Desktop 10/11 (x86)

Interface Port

See the following tables for interface port specifications:

- Table 1 USB Type-B Interface Port Specifications
- Table 2 USB Type-A Interface Port Specifications
- Table 3 Ethernet Interface Port Specifications
- Table 4 Wireless Interface Port Specifications

USB

Table 1 USB Type-B Interface Port (Front)

Item	Specification
Connector	One Type-B connector
Protocol	Hi-speed USB 2.0 compatible

Table 2 USB Interface Port (Back)

Item	Specification
Connector	One Type-B Connector/One Type-A Connector
Protocol	Hi-speed USB 3.0 (target) / USB 2.0 (host)

Ethernet

Table 3 Ethernet Interface Port Specifications

Item	Specification
Connector	One RJ-45 connector
Protocol	10/100 Base-TX and Gigabit Ethernet

Wireless

Wireless adapter is required.

Table 4 Wireless Interface Port[a] Specifications

Item	Specification
Connectivity Technology	Wireless (Standard on DNi, option for D and DN models)
Compliant Standards	IEEE802.11 n/g/b
Band width	2.4-GHz and 5-Ghz
Data Transfer Rate	IEEE802.11n mode: 65 Mbps IEEE802.11g mode: 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE802.11b mode: 11, 5.5, 2, 1 M bps
Protocol	See "Network Protocol" for details
Device Type	Wireless Adapter
Security Protocol	64(40-bit key)/128(104-bit key) WEP,WPA-PSK(TKIP,AES), WPA2-PSK(AES), WPA-Enterprise(TKIP,AES), WPA2-Enterprise(AES) (EAP method supports PEAPv0 only)
Wifi Protected Setup (WPS)	Push Button Configuration (PBC), Personal Identification Number (PIN)

a. Connection to the Linux machine is not guaranteed. Only for infrastructure connection and when Linux terminal is connected with Wired LAN connection.

Network Protocol

Printing Protocol

Printing protocol is shown in Table 5:

Table 5 Printing Network Protocol

Protocol	Transport	Maximum Sessions	Remarks
Port9100	TCP/IP	1	Windows XP/Server2003/Vista/ Server2008/ 7/ Server2008 R2 Mac OS X
LPD	TCP/IP	10	Windows XP/Server2003/Vista/ Server2008/ 7/ Server2008 R2 Mac OS X Linux
IPP/IPPS	TCP/IP	5	Windows XP/Server2003/Vista/ Server2008/ 7/ Server2008 R2 Mac OS X
SMB	TCP/IP	5	Windows XP/Server2003/Vista/ Server2008/ 7/ Server2008 R2
Web Services on Devices	TCP/IP	2	[Print]:Windows Vista / Server2008/ 7 / Server2008 R2 [Scan] : Windows Vista / 7

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Control and Management Protocol

Control and management protocol is shown in Table 6:

Table 6 Control and Management Network Protocol

Protocol	Transport	Application / Usage	Remarks
HTTP/HTTPS	TCP/IP	EWS	
SMTP	TCP/IP	E-Mail Alert	
SNMP v1/v2c/v3	UDP/IP	Driver, Installer, Management	SNMP v3 Default OFF
DHCP	UDP/IP	IP setup	
BOOTP	UDP/IP	IP setup	
RARP	TCP/IP	IP management	
AutoIP	TCP/IP	Installer (Device discovery)	
WINS	TCP/IP	IP setup	
Telnet	TCP/IP	IP management	
Bonjour (mDNS)	UDP/IP	IP setup for Mac	
LDAP	TCP/IP	Address Book,ColorTrack Pro1.1	
LDAPS	TCP/IP	Address Book,ColorTrack Pro1.1	
DNS	TCP/IP	IP management	
DDNS	TCP/IP	IP management	Default OFF
SNTP	TCP/IP	IP management	Default OFF
FTP	TCP/IP	IP management	

MIB

The following MIBs are supported.

- RFC1213 MIB-II
- RFC1514 HostResources
- RFC1759 Printer MIB
- Printer port monitor MIB
- XCMI MIB

Decomposer

PDL

The PDL decomposer specifications are shown in Table 7:

Table 7 PDL Decomposer Specifications

PDL	Interface		Remark
	USB I/F Net	USB Storage	
PCL 5c	Yes[a]	No	
PCL 6	Yes	No	SupportOS: Windows XP/Server 2003/Vista/Server 2008/ 7 / Server2008 R2
PostScript	Yes	No	SupportOS: Mac OS X(10.3.9/10.4/10.5/10.6/10.7), Linux, Windows XP/Server2003/ Vista / Server2008 / 7 / Server2008 R2

Table 7 PDL Decomposer Specifications

PDL	Interface		Remark
	USB I/F Net	USB Storage	
FX-PDF	Yes	Yes	Ver1.6
TIFF	No	Yes	
JPEG	No	Yes	
HBPL	Yes	No	
a. Yes: Supported No: Not supported			

Font

81 fonts and 36 Symbol Sets for PCL, 16 fonts for PDF and 136 fonts for PS3 are available as built-in font.

Image Area

The image area specifications are shown in Table 8:

Table 8 Image Area Specifications

Area Definition	Specification
Usable Area (maximum paper size)	215.9[a] x 355.6 mm
Un-printable Area	Default: 4.0 mm each from four edges of paper
Printable Area	207.7 x 347.4 mm[b]
Print quality guaraneed Area	Same as Printable Area
a. Maximum width 220 mm for Envelope (DL LEF) b. Maximum printable width of paper which paper width is more than 215.9 mm is 210.9 mm. Therefore, Maximum printable area is 210.9 x 361.6 mm.	

Job Control

Print Cancel

A print job in progress can be cancelled from the operator panel.

Job Recovery

When a print job fails due to a recoverable error such as paper jam, the machine recovers the job automatically after the jammed paper is removed.

Job Timeout

When a print job is stopped for a certain period of time (time can be changed at the operator panel, and unlimited also can be selected), the print data of the job is deleted as an error

ColorTrack Pro1.1

Color Track is a function to designate the use of color printing and control print volume per user.

Only the administrator can set restrictions from the EWS.

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The user name and password are embedded in the print job to confirm from whom the job is sent. In addition, the user name and password are entered by user from the printer driver.

The printer can support maximum 50 accounts.

When "ColorTrack Mode" is set to "Off", "Automatic Color to Monochrome Print" setting applies to all users. When "ColorTrack Mode" is set to "Internal Mode" or "External Mode", "Automatic Color to Monochrome Print" setting applies to Registered Users with "Monochrome Print Only" rights and Non Registered Users.

Secure Print
When the expansion memory (512MB) or HDD is attached, the printer holds print data in memory, including a user password (1~12 digits), a user name and a document name specified in the printer driver The data is not printed until the same password, user name and document name are specified at the printer UI. The data is cleared after being printed. The data remains in the printer as long as it is not cleared. The data on the memory is cleared when the printer is turned off. The data on the HDD is not cleared even the printer is turned off.

Proof Print
When the expansion memory (512MB) or HDD is attached, only the proof print can be selected. When multiple sets of prints are specified in the printer driver, the printer prints only the first set of the print data. Then the user can select whether the remaining sets are printed or not (the remaining data is cleared) when the same user name and document name are entered at the Panel UI. The data remains in the printer as long as it is not cleared. The data on the memory is cleared when the printer is turned off. The data on the HDD is not cleared even the printer is turned off.

IP Filter
The user can select to accept or reject jobs for the specified IP address. Up to 5 IP addresses can be specified. IP filter is available only to LPD and Port 9100.

Virtual Mail Box
When the expansion memory (512MB) or HDD is attached, the Virtual Mail Box can be selected only. There are two type of Virtual Mail Box.

Public Virtual Mail Box
When print job is selected Public (password not needed) in the Stored Print menu on the driver, everyone can print job from operator panel if know user name or file name. And this print job remains till deleted intentionally.

Private Virtual Mail Box
When print job is selected Private (password needed) in the Stored Print menu on the driver, everyone cannot print job from operator panel if unknown password. And this print job remains till deleted intentionally.

Public Mail Box
When the expansion memory (512MB) or HDD is attached, the Public Mail Box can be selected only. When print job is selected "Public Mail Box" in the Job Type menu on the driver, everyone cannot print job from operator panel if unknown password. And this print job remains till deleted intentionally. The data on the memory is cleared when the printer is turned off. The data on the HDD is not cleared even the printer is turned off.

Logging
Job Logging
The machine can retain up to 20 job logs.

Job log is printed instantly by user's request or automatically when the number of the retained job logs has reached 20.

Job log includes the following information.
- Job finish date and time
- Job type (Print/File/FaxSend/FaxReceived/Copy/Scan)
- Input interface (USB, LPD, Port9100)
- Document name (File name)
- Output color
- User name/Host name
- Number of printed sheets (Color, B&W)
- Number of printed impressions (Color, B&W)
- Paper size
- Result (Successful, Error, etc.)

Error Logging
The machine can retain the following errors.

Fatal error: 42 errors at the maximum (10 errors at the minimum)

Jam error: 42 errors

The user can print the error log by the panel operation.

Jam error log includes the following information:
- Date and time when jam has occurred
Jam name Fatal error log includes the following information:
- Date and time when error has occurred
- Error code

Billing Counter
The PV counter counts the number of sheets printed properly (Similar to Odometer) (Table 9).

Table 9 Billing Counter Specifications

Counter	Description
Color PV (7 digits)(KCMY)	Count the number of paper printed in color.
B&W PV (7 digits)(K only)	Count the number of paper printed in B&W.

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Table 9 Billing Counter Specifications

Counter	Description
Total PV (7 digits)	Count the total number of paper printed in color and B&W.

ID Print

User name can be printed. The printing position can be selected from upper right, upper left, lower right and lower left (Only for PCL6). The user selects using the operator panel whether user name is printed or not and where it is printed.

Non-Genuine Mode

When a Toner Cartridge has reached end-of-life, the printer stops accepting print requests (Toner Cartridge life is counted by the counter in CRUM). Taking into consideration that some users use refilled Toner Cartridges they get from remanufacturers, the printer can accept a print request by the user's panel operation even if the life of the Toner Cartridge has ended. Settings of Toner Cartridge can be made separately (settings of Toner Cartridge can not be made by color). When the mode has changed so that the printer does not stop even after life of Toner Cartridge ends, the printer displays a message on the operator panel to inform the user of the mode change. When the printer operates in this mode, print image quality is not guaranteed. Also, remaining toner level is not displayed (as CRUM data can not be guaranteed).

GP 31 IIT Specifications

Scanner

Scanner specifications are shown in Table 1:

Table 1 Scanner Specifications

Item	Specification
Scanning Method	Platen: Document-fixed flatbed scanning method
	DADF: Carriage-fixed, document-feeding scanning method (2- side scanning)
Optical Resolution	600 x 600 dpi (max)
Light Source	LED
Maximum Scanning Guarantee Area	Platen: A4/Letter
	DADH: 215.9mm x 355.6mm (8.5" x 14") 215.9mm x 297mm (8.5 x 11.69 inches)
Scanning Halftone Level	Output from the CCD has the following halftone level.
	Gray: 16bit x 2ch (CDD/EVEN)
	Color: 16bit x 3ch (R/G/B)

Platen

Platen specifications are shown in Table 2:

Table 2 Platen Specifications

Item	Description
Platen Glass	Size: 220 mm x 360 mm (8.66" x 14.17") (Flat glass area)
Document Image Area (Platen mode)	Max: 215.9 mm x 355.6 mm (8.5" x 14")

DADF

DADF specifications are shown in Table 3:

Table 3 DADF Specifications

Item	Description
Document Condition	Sheets without tears, wrinkles, or folds
Document Thickness	Simplex: $50g/m^2$ - $125g/m^2$
	Duplex: $60g/m^2$ - $125g/m^2$
Auto Document Size Detection	None
Retention Angle / Open Angle of Platen Cover with DADF	Maximum open angle: ≤ 70 deg Platen cover can be retained at any angle: 15 ± 5 through 65 ± 5 deg Platen cover self-weight drop angle: 15 ± 5 deg or less
Document Setting	Center Registration

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