

## 7. Reference Information

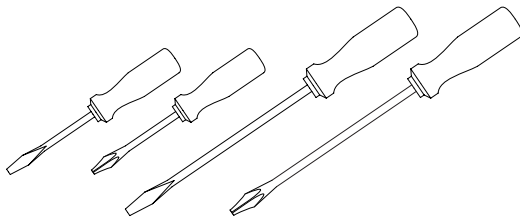
This chapter contains the tools list, list of abbreviations used in this manual, and a guide to the location space required when installing the printer. A definition of test pages and Wireless Network information definition is also included.

### 7.1 Tool for Troubleshooting

The following tools are recommended safe and easy troubleshooting as described in this service manual.

#### • Driver

Standard : "-" type, "+" type (M3 long, M3 short, M2 long, M2 short).



#### • Tweezers

Standard : For general home use, small type.



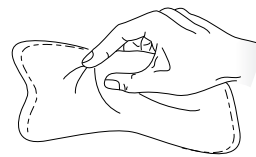
#### • Cotton Swab

Standard : For general home use, for medical service.

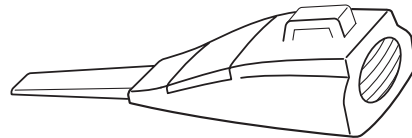


#### • Cleaning Equipments

Standard : An IPA (Isopropyl Alcohol) dry wipe tissue or a gentle neutral detergent and lint-free cloth.



#### • Vacuum Cleaner

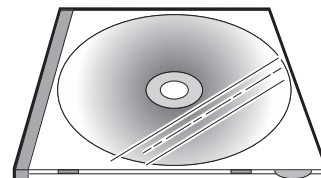


#### • Spring Hook

Standard : For general use



#### • Software (Driver) installation CD ROM



## 7.2 Acronyms and Abbreviations

The table below explains abbreviations used in this service manual.

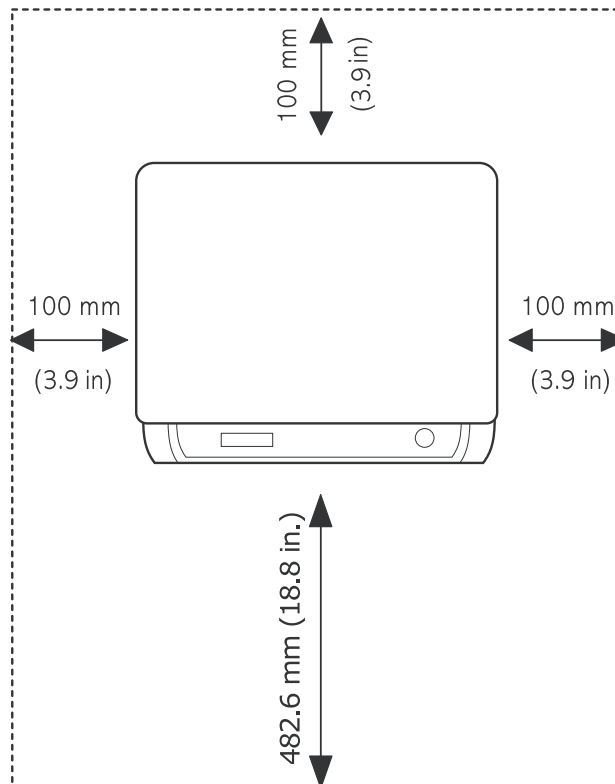
The contents of this service manual are declared with abbreviations in many parts. Please refer to the table.

AC	Alternating Current	EEPROM	Electrically Erasable Programmable Read Only Memory
ADF	Automatic Document Feeder	EMI	Electro Magnetic Interference
ASIC	Application Specific Integrated Circuit	EP	electrophotographic
ASSY	Assembly	EPP	Enhanced Parallel Port
AP	Access Point	FCOT	First Copy Out Time
AC	Alternating Current	F/W	firmware
BLDC Motor	Brushless DC Motor	FCF/FCT	First Cassette Feeder/First Cassette Tray
BIOS	Basic Input Output System	FISO	Front-In, Side-Out
CLBP	Color Laser Beam Printer	FPOT	First Print out Time
CMOS	Complementary Metal Oxide Semiconductor	GDI	graphics device interface
CMYK	Cyan, Magenta, Yellow, Black	GND	ground
CN	Connector	GIF	Graphic Interchange Format
CON	Connector	HBP	Host Based Printing
CPU	Central Processing Unit	HDD	Hard Disk Drive
CTD Sensor	Color Toner Density Sensor	HV	high voltage
CCD	Charge Coupled Device	HVPS	High Voltage Power Supply
CIS	Contact Image Sensor	HTML	Hyper Text Transfer Protocol
CRUM	Customer Replaceable Unit Memory	I/F	interface
dB	decibel	I/O	Input and Output
dBa	decibelampere	IC	integrated circuit
dBm	decibel milliwatt	IDE	Intelligent Drive electronics or Imbedded Drive Electronics
DC	direct current	IEEE	Institute of Electrical and Electronics Engineers. Inc
DCU	Diagnostic Control Unit	lb	Pound(s)
DPI	Dot Per Inch	ICC	International Color Consortium
DRAM	Dynamic Random Access Memory	IOT	Image Output Terminal (Color printer, Copier)
DVM	Digital Voltmeter	IPA	Isopropyl Alcohol
DPI	Dot Per Inch	IPM	Images Per Minute
DRAM	Dynamic Random Access Memory		
ECP	Enhanced Capability Port		

IPC	Inter Process Communication Enhanced parallel Port	PS	Post Script
ITB	Image Transfer Belt	PS3	Post Script Level3
LAN	local area network	PTL	Pre-Transfer Lamp
LBP	Laser Beam Printer	PTB	Paper-Transfer Belt
LCD	Liquid Crystal Display	PWM	Pulse Width Moduration
LED	Light Emitting Diode	Q'ty	Quantity
LSU	Laser Scanning Unit	RAM	Random Access Memory
MB	Megabyte	RCP	Remote Control Panel
MFP	Multi-Functional Product	ROM	Read Only Memory
MHz	Megahertz	SCF/SCT	Second Cassette Feeder/Second Cassette Tray
MPBF	Mean Prints Between Failure	SMPS	Switching Mode Power Supply
MPF/MPT	Multi Purpose Feeder/Multi Purpose Tray	SPGP	Samsung Printer Graphic Processor
NVRAM	Nonvolatile random access memory	SPL	Samsung Printer Language
NIC	Network Interface Card	SPL-C	Samsung Printer Language-Color
NPC	Network Printer Card	Spool	Simultaneous Peripheral Operation Online
OPC	Organic Photo Conductor	SRS	Software Requirement Specification
PBA	Printed Board Assembly	SURF	Surface Rapid Fusing
PCL	Printer Command Language , Printer Control Language	SW	Switch
PDL	Page Discription Language	Sync	Synchronous or Synchronization
PPM	Page Per Minute	TBD	To Be Determined
PCL	Printer Command Language , Printer Control Language	T1	ITB
PCI	Peripheral Component Interconnect by Intel 1992/6/22, is a local bus standard developed by Intel and introduced in April, 1993 : A60, B60 Pins	T2	Transfer Roller
PCL5Ce	Printer Command Language 5Ce-Color	TRC	Toner Reproduction Curve
PCL6	Printer Command Language 6	PnP	Universal Plug and Play
PDF	Portable Document Format	U.I.	User Interface
PDL	Page Description Language	URL	Uniform Resource Locator
Ping	Packet internet or Inter-Network Groper	USB	Universal Serial Bus
PPD	Postscript Printer Discription	VCCI	Voluntary Control Council for Interference Information Technology Equipment
PPM	Page Per Minute	WECA	Wireless Ethernet Compatibility Alliance
		Wi-Fi	Wireless Fidelity

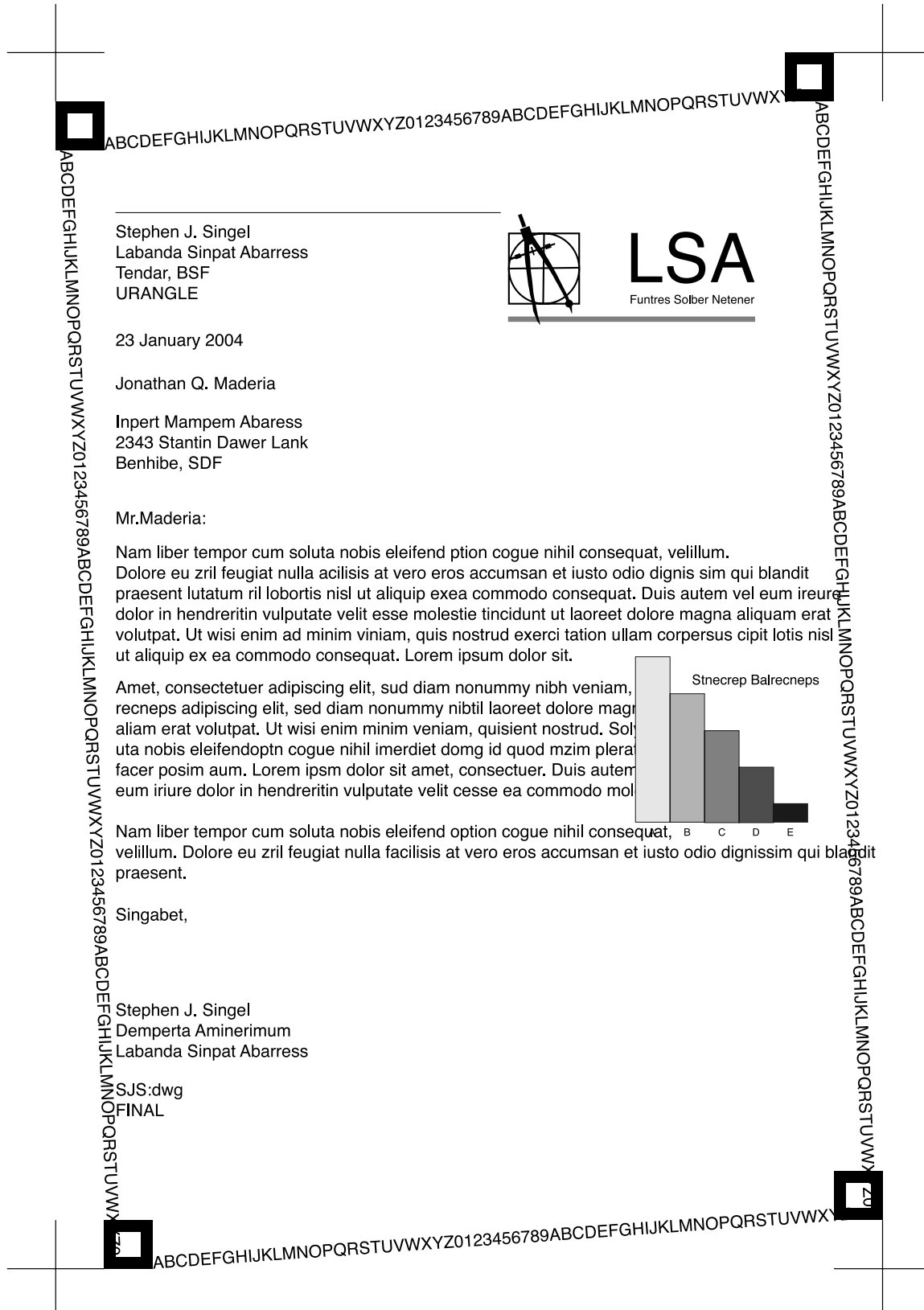
## 7.3 Select a location for the printer

- Leave enough room to open the printer trays, covers, and allow for proper ventilation. (see diagram below)
- Provide the proper environment :
  - A firm, level surface
  - Away from the direct airflow of air conditioners, heaters, or ventilators
  - Free of extreme fluctuations of temperature, sunlight, or humidity
  - Clean, dry, and free of dust



## 7.4 A4 ISO 19752 Standard Pattern (Mono. confirm)

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## 7.5 Model List

NO.	Model Code	Description	Remark
1	CLX-2160	A4 Color MFP	Set
2	CLX-2160N	A5 Color MFP, Network Model	Set
3	CLP-K300A	Black toner cartridge, 2K	Consumable
4	CLP-C300A	Cyan toner cartridge, 1K	Consumable
5	CLP-M300A	Magenta toner cartridge, 1K	Consumable
6	CLP-Y300A	Yellow toner cartridge, 1K	Consumable
7	CLP-R300A	Imaging unit, 20K(Black), 50(Color)	Consumable
8	CLP-W300A	Waste toner container, 5K(Black), 1.25K(Color)	Consumable