

## 2. Reference Information

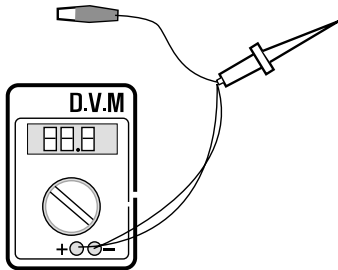
This chapter contains the tools list, list of abbreviations used in this manual, and a guide to the location space required when installing the printer. A definition of tests pages and Wireless Network information definition is also included.

### 2.1 Tools for Troubleshooting

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

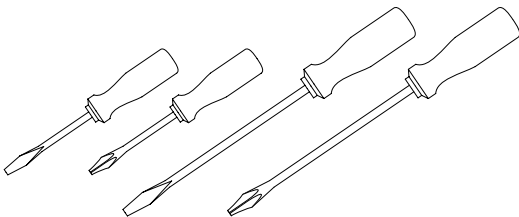
- **DVM(Digital Volt Meter)**

Standard : Indicates more than 3 digits.



- **Driver**

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



- **Tweezers**

Standard : For general home use, small type.



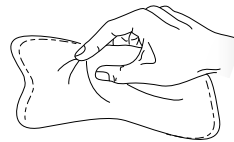
- **Cotton Swab**

Standard : For general home use, for medical service.

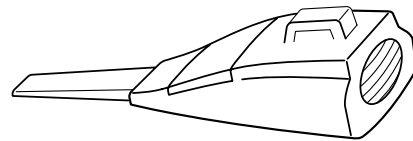


- **Cleaning Equipments**

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



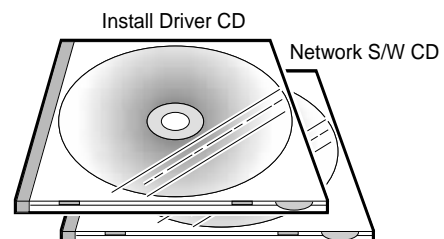
- **Vacuum Cleaner**



- **Brush**



- **Software (Driver) installation CD ROM**



## 2.2 Acronyms and Abbreviations

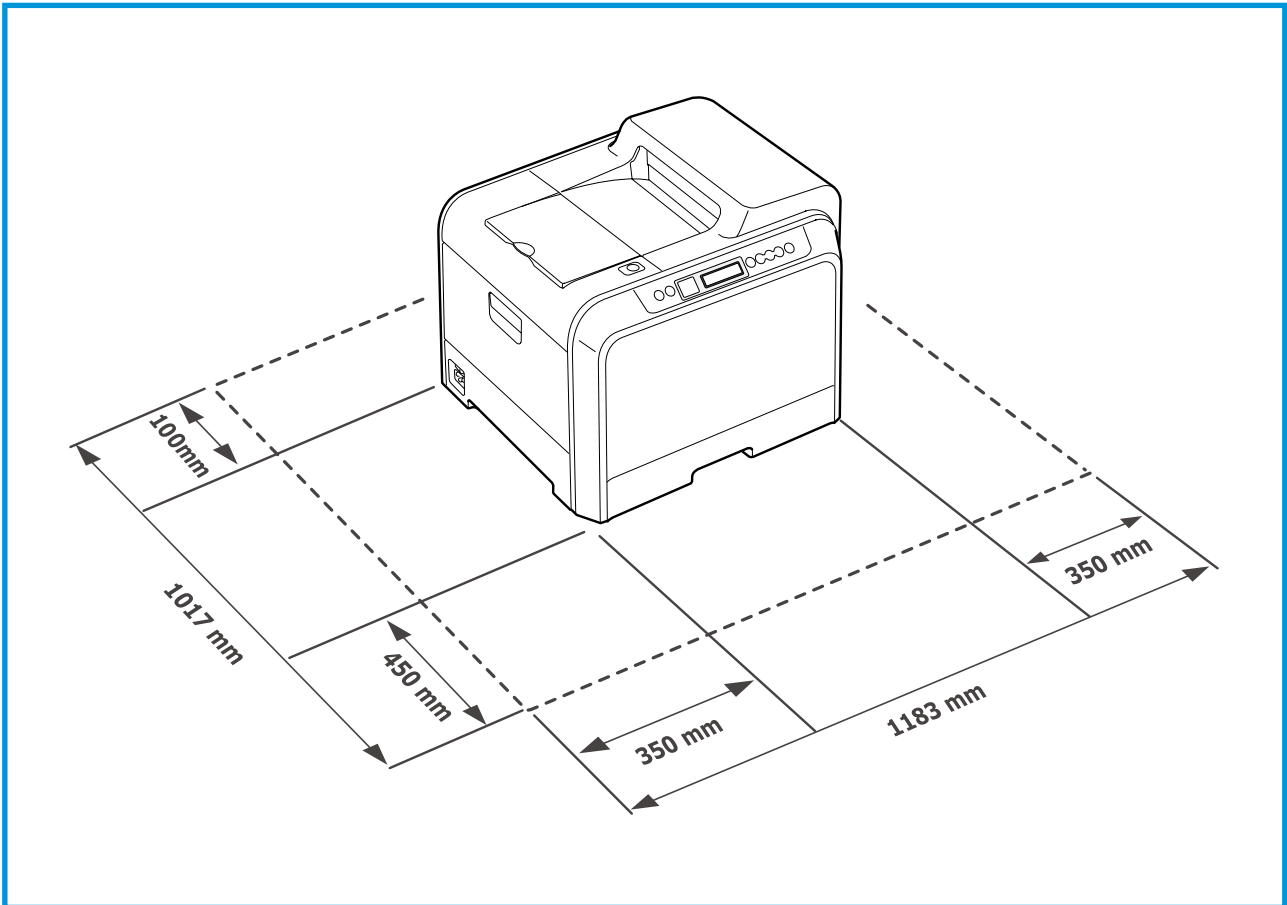
The table below explains the abbreviations and acronyms used in this service manual. Where abbreviations or acronyms are used in the text please refer to this table.

ADC	Analog-to-Digital-Conversion	EPP	Enhanced Parallel Port
AP	Access Point	F/W	Firmware
AC	Alternating Current	FCF/FCT	First Cassette Feeder/First Cassette Tray
ASIC Circuit	Application Specific Integrated	FISO	Front-In, Side-Out
ASSY	Assembly	FPOT	First Print out Time
BIOS	Basic Input Output System	GDI	Windows Graphic Device Interface
BLDC Motor	Brushless DC Motor	GIF	Graphic Interchange Format
CLBP	Color Laser Beam Printer	GND	Ground
CMOS	Complementary Metal Oxide Semiconductor	HBP	Host Based Printing
CMYK	Cyan, Magenta, Yellow, Black	HDD	Hard Disk Drive
CN	Connector	HTML	Hyper Text Transfer Protocol
CON	Connector	HV	High Voltage
CPU	Central Processing Unit	HVPS	High Voltage Power Supply
CTD Sensor	Color Toner Density Sensor	I/F	Interface
dB	Decibel	I/O	Input and Output
dBA	A-Weighted decibel	lb	Pound(s)
dBm	Decibel milliwatt	IC	Integrated Circuit
DC	Direct Current	ICC	International Color Consortium
DCU	Diagnostic Control Unit	IDE	Intelligent Drive Electronics or Integrated Drive Electronics
DIMM	Dual In-line Memory Module	IEEE	Institute of Electrical and Electronics Engineers. Inc
DPI	Dot Per Inch	IOT	Image Output Terminal (Color printer, Copier)
DRAM	Dynamic Random Access Memory	IPA	Isopropyl Alcohol
DVM	Digital Voltmeter	IPC	Inter Process Communication Enhanced parallel Port
ECP	Enhanced Capability Port	IPM	Images Per Minute
ECU	Engine Control Unit	ITB	Image Transfer Belt
EEPROM	Electrically Erasable Programmable Read Only Memory	LAN	local area network
EMI	Electro Magnetic Interference	LBP	Laser Beam Printer
EP	Electro photographic		

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
MHz	Megahertz	ROM	Read Only Memory
MPBF	Mean Prints Between Failure	SCF/SCT	Second Cassette Feeder/Second Cassette Tray
MPF/MPT	Multi Purpose Feeder/Multi Purpose Tray	SMPS	Switching Mode Power Supply
NIC	Network Interface Card	SPGP	Samsung Printer Graphic Processor
NPC	Network Printer Card	SPL	Samsung Printer Language
NVRAM	Nonvolatile Random Access Memory	SPL-C	Samsung Printer Language-Color
OPC	Organic Photo Conductor	Spool	Simultaneous Peripheral Operation Online
PBA	Printed Board Assembly	SRS	Software Requirement Specification
PCL	Printer Command Language , Printer Control Language	SURF	Surface Rapid Fusing
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	SW	Switch
PCL5Ce	Printer Command Language 5Ce-Color	sync	Synchronous or Synchronization
PCL6	Printer Command Language 6	T1	ITB
PDF	Portable Document Format	T2	Transfer Roller
PDL	Page Description Language	TRC	Toner Reproduction Curve
Ping	Packet internet or Inter-Network Groper	PnP	Universal Plug and Play
PPD	Postscript Printer Discription	U.I.	User Interface
PPM	Page Per Minute	URL	Uniform Resource Locator
PS	Post Script	USB	Universal Serial Bus
PS3	Post Script Level3	VCCI	Voluntary Control Council for Interference Information Technology Equipment
PTL	Pre-Transfer Lamp	WECA Alliance	Wireless Ethernet Compatibility
		Wi-Fi	Wireless Fidelity

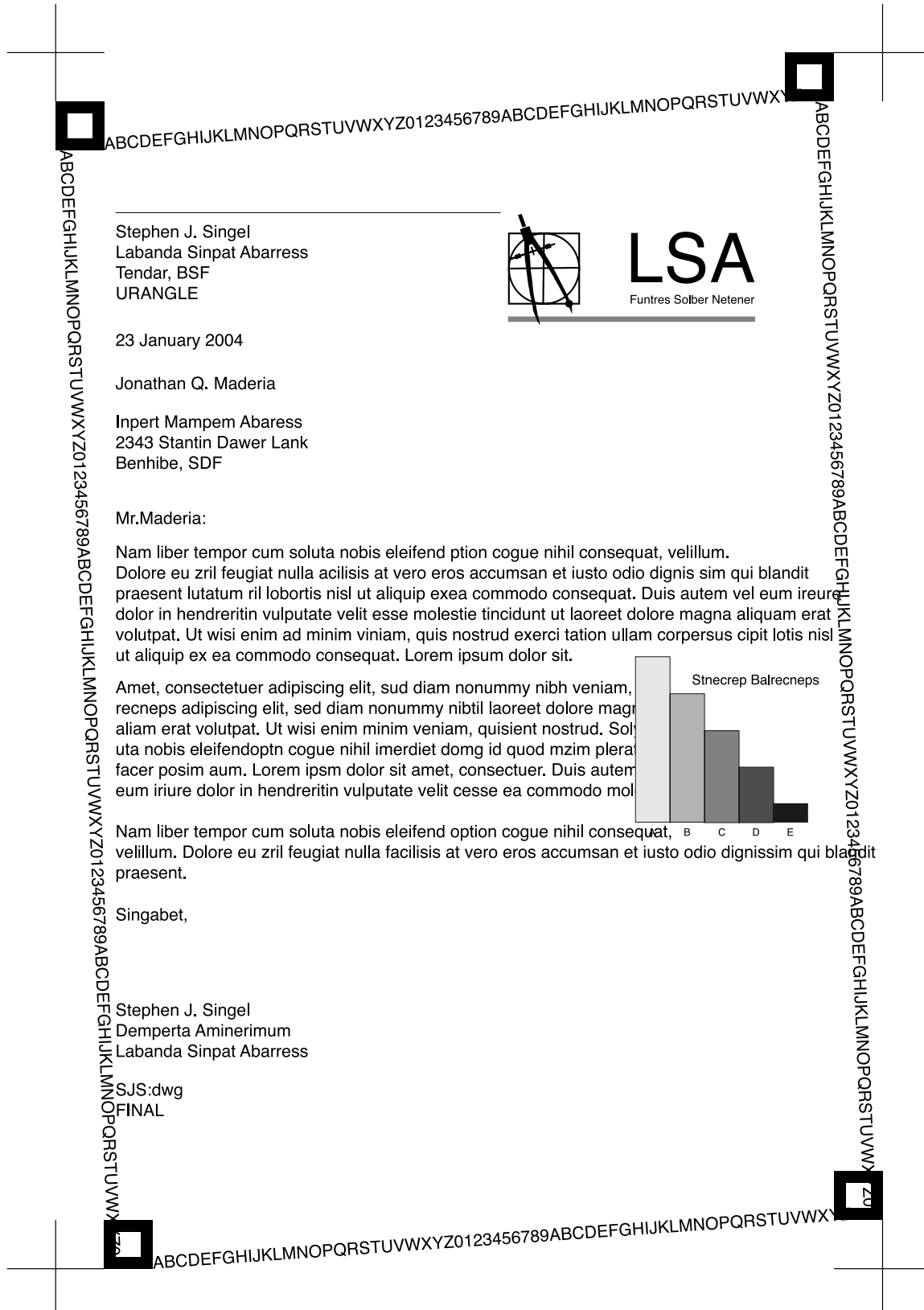
## 2.3 Select a location for the printer

- 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



## 2.4 A4 ISO 19752 Standard Pattern

This test page is reproduced at 70% of the normal A4 size



## 2.5 Wireless LAN

- This product can be used with a wireless LAN, (this is an option.)
  - The wireless LAN function uses radio technology, instead of using LAN cable, to connect to an access point for printing.
  - For a wireless LAN connection in Infrastructure mode an AP is needed, (purchased separately)
  - For a wireless LAN connection in Ad-Hoc mode an appropriate Wireless I/F card is required fitted to a computer, (purchased separately)
  - It is possible to use a wireless LAN connection with wired LAN.
  - If an AP is installed in an office or at home, the wireless LAN function can be simply configured and used.
- Types of desk top PC (or Lap top) that uses the wireless LAN.

Division	Basic type	Recommend type
CPU	Over PENTIUM 233M	PENTIUM 300MHz
MEMORY	Over 64MB	Over 128MB
VIDEO CARD	Over 800X600	Over 1024X768
OS	Over WINDOWS 98	Over WINDOWS ME
INTERFACE CARD	A product has a certificated mark of Wi-Fi™	

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- Wi-Fi™ is a registered trademark of the WECA (Wireless Ethernet Compatibility Alliance). Over 50 wireless LAN companies are member of this organisation. Most of the main wireless networking companies are attending including such companies as Lucent Technologies, Cisco, Intel/Symbol, 3Com, Enterasys (Cabletron), Compaq, IBM, Nokia, Dell, Philips, Samsung Electronics, Sony, Intersil, etc.. This mark certifies mutual compatibility amongst the product of these companies. Wi-Fi™ (IEEE 802.11) is certified as a standard of the wireless LAN market.