

11 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 is also included.

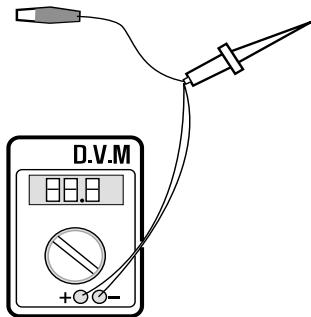
11.1 Tool for Troubleshooting

The following tools are recommended for safe and smooth troubleshooting described in this service manual.

1

DVM(Digital Volt Meter)

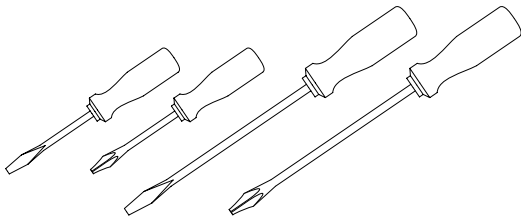
Standard: Indicates more than 3 digits.



2

Driver

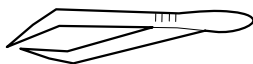
Standard : "-" type, "+" type (M3 long, M3 short, M2 long, M2 short).



3

Tweezers

Standard : For general home use, small type.



4

Cotton Swab

Standard : For general home use, for medical service.



5

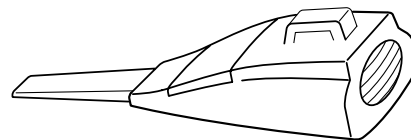
Cleaning Equipments

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



6

Vacuum Cleaner



7

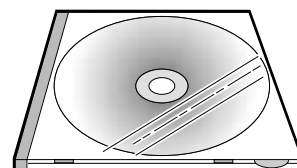
Spring Hook

Standard : For general use



8

Software(Driver) installation CD ROM



11.2 Acronyms and Abbreviations

The table in the below explains abbreviations used in this service manual.

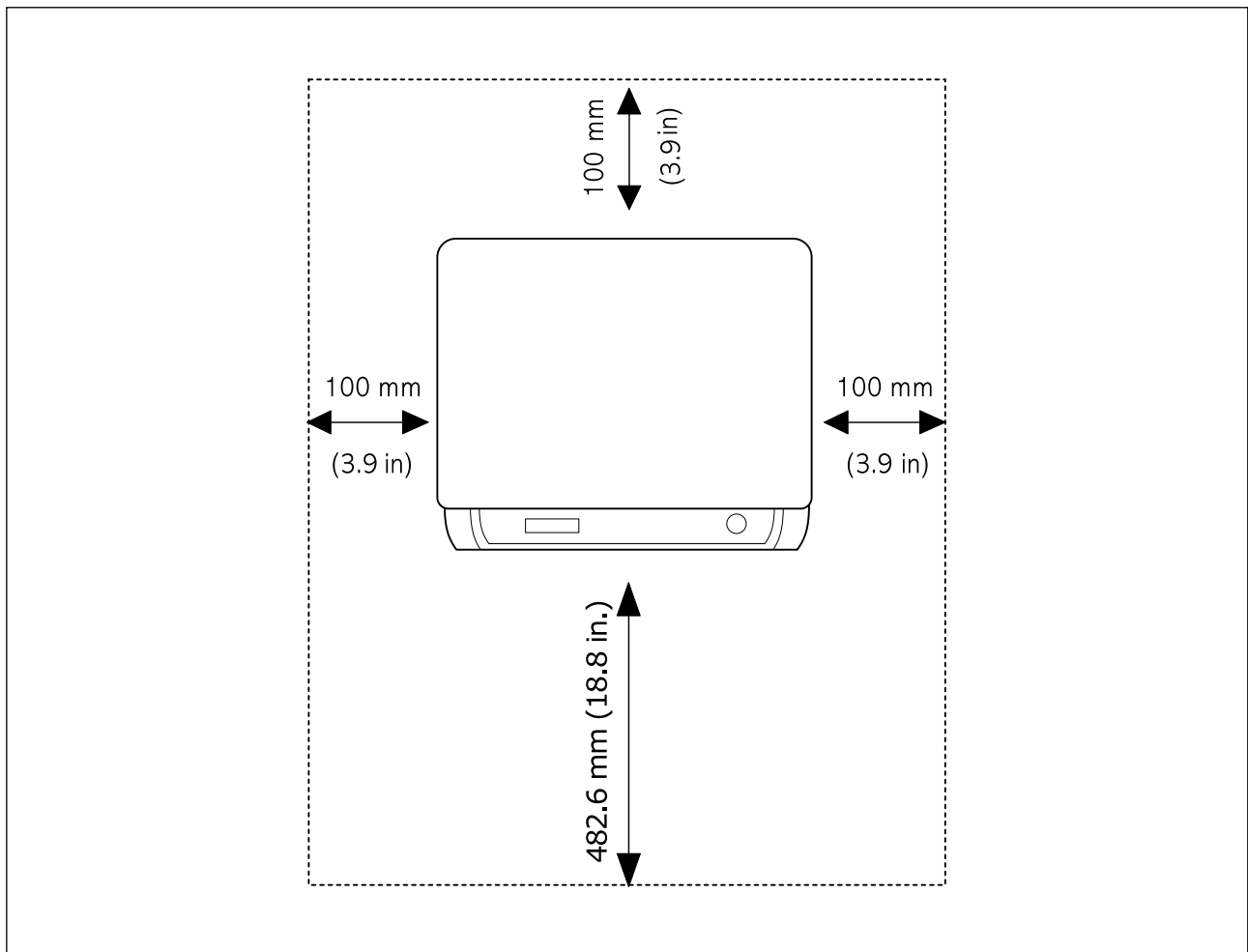
The contents of this service manual are declared with abbreviations in many parts. Please refer to the table.

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

IPC	Inter Process Communication	RAM	Random Access Memory
IPM	Images Per Minute	ROM	Read Only Memory
LCD	Liquid Crystal Display	SCF/SCT	Second Cassette Feeder/Second Cassette Tray
LED	Light Emitting Diode	SMPS	Switching Mode Power Supply
LSU	Laser Scanning Unit	SPGP	Samsung Printer Graphic Processor
MB	Megabyte	SPL	Samsung Printer Language
MFP	Multi-Functional Product	Spool	Simultaneous Peripheral Operation Online
MHz	Megahertz	SURF	Surface Rapid Fusing
MPBF	Mean Prints Between Failure	SW	Switch
MPF/MPT	Multi Purpose Feeder/Multi Purpose Tray	sync	Synchronous or Synchronization
NIC	Network Interface Card	T1	ITB
NPC	Network Printer Card	T2	Transfer Roller
NVRAM	Nonvolatile Random Access Memory	TBD	To Be Determined
OPC	Organic Photo Conductor	TRC	Toner Reproduction Curve
PBA	Printed Board Assembly	TTM	Time to Market
PCL	Printer Command Language , Printer Control Language	PnP	Universal Plug and Play
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	UMC	Unit Manufacturing Cost
PDF	Portable Document Format	URL	Uniform Resource Locator
PDL	Page Description Language	USB	Universal Serial Bus
Ping	Packet internet or Inter-Network Groper	VCCI	Voluntary Control Council for Interference Information Technology Equipment
PPD	Postscript Printer Discription	WECA Alliance	Wireless Ethernet Compatibility
PPM	Page Per Minute	Wi-Fi	Wireless Fidelity
PS	Post Script		
PTL	Pre-Transfer Lamp		
PWM	Pulse Width Moduration		
Q'ty	Quantity		
QCD	Quality, Cost, and Delivery		

11.3 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



11.4 A4 ISO 19752 Standard Pattern

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