

7. Reference Information

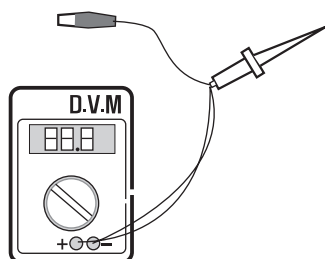
This chapter contains the tools list, list of abbreviations used in this manual, and a guide to the location space required when installing the printer. A definition of tests pages and Wireless Network information definition is also included.

7.1 Tools for Troubleshooting

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

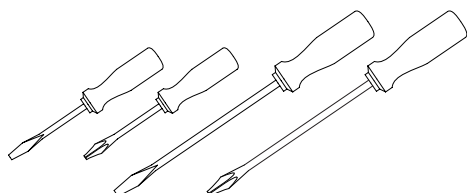
- **DVM(Digital Volt Meter)**

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.



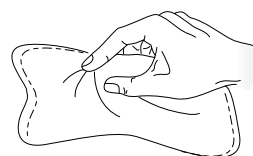
- **Cotton Swab**

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.



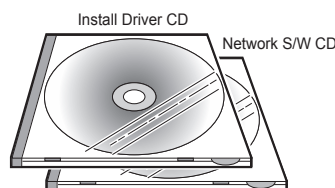
- **Vacuum Cleaner**



- **Brush**



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



7.2 Acronyms and Abbreviations

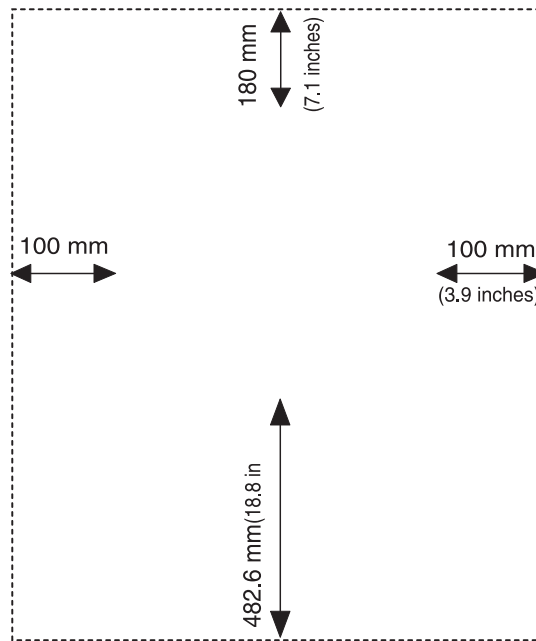
The table below explains the abbreviations and acronyms used in this service manual. Where abbreviations or acronyms are used in the text please refer to this table.

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

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	SMPS	Switching Mode Power Supply
PCL5Ce	Printer Command Language 5Ce-Color	SPGP	Samsung Printer Graphic Processor
PCL6	Printer Command Language 6	SPL	Samsung Printer Language
PDF	Portable Document Format	SPL-C	Samsung Printer Language-Color
PDL	Page Description Language	Spool	Simultaneous Peripheral Operation Online
Ping	Packet internet or Inter-Network Groper	SRS	Software Requirement Specification
PPD	Postscript Printer Discription	SURF	Surface Rapid Fusing
PPM	Page Per Minute	SW	Switch
PS	Post Script	sync	Synchronous or Synchronization
PS3	Post Script Level3	T1	ITB
PTL	Pre-Transfer Lamp	T2	Transfer Roller
PTB	Paper-Transfer Belt	TRC	Toner Reproduction Curve
PWM	Pulse Width Moduration	PnP	Universal Plug and Play
Q?y	Quantity	U.I.	User Interface
RAM	Random Access Memory	URL	Uniform Resource Locator
RCP	Remote Control Panel	USB	Universal Serial Bus
ROM	Read Only Memory	VCCI	Voluntary Control Council for Interference Information Technology Equipment
SCF/SCT	Second Cassette Feeder/Second Cassette Tray	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 19798 Standard Pattern

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

Stephen J. Singel
Fabanda Sinpat Abarress
Tendar, BSF
URANGLE



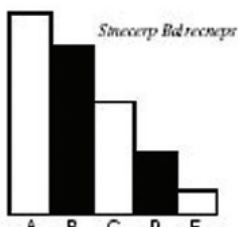
30 November 2005

Johnathan Q. Maderia

Inpert Manpem Abaress
2343 Stanton Dawer Lank
Benhibe, SDF

Mr. Maderia:

Nam liber tempor cum soluta nobis eleifend ption cogue nihil consequat, velillum. Dolore eu zril feugiat nulla acilisis at vero eros accumsan et iust odio dignis sim qui blandit praesent lutatum ril lobortis nisl ut aliquip exea commodo consequat. Duis autem vel eum inure dolor in hendreritin ulputate velit esse molestie tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim vhniam, quis nostrud exerci tation ullam corporsus cipit tis nisl



Amet, Amet, consectetur adipiscing elit, sud diam nonummy nibh veniam, ecneps adipiscing elit, sed diam nonummy nibtil laoreet dolore magna aliam erat volutpat. Ut wisi enim minim veniam, quisient nostrud. Solyom uta nobis eleifendoptn cogue nihil inerdiet domg id quod mzin plerat facer posim aum. Lorem ipsum dolor sit amet, consectetur. Duis autem vel eum iriure dolor in hendreritin vulputate velit cesse ea commodo molestie. Nam liber tempor cum soluta nobis eleifend option cogue nihil consequat, velillum. Dolore eu zril feugiat nulla facilisis at vero eros accumsan et iusto odio dignissim qui blandit praesent domg id quod mzin plerat facer posim aum.

Integer sagittis lacus vel nulla. Morbi convallis hendrerit risus. Nullam interdum, enim non gravida feugiat, quam ante consequat metus, sed molestie dolor tortor eu ipsum. Phasellus semper risus sit amet diam. Cras wisi arcu, pulvinar nec, molestie fringilla, vestibulum iaculis, mi. Praesent nonummy pulvinar odio.

Duis vitae eros. Fusce suscipit. Eiam justo massa, semper feugiat, portitor sit amet, nonummy in, quam. Aenean nulla magna, elementum ut, eleifend ac, aliquam ut, risus. Morbi laoreet elementum dui. Vestibulum nibh sapien, rhoncus non, lobortis nec, ullamcorper a, enim. Praesent ultricies enim non lorem. Curabitur consectetur, diam et nonummy convallis, quam quam tristique nulla, pulvinar blandit ipsum arcu a tellus. Phasellus dolor. Ut ullamcorper venenatis quam. Quisque egestas erat.

Singabet,

Stephen J. Singel
Demperta Aminirimum
Fabanda Sinpat Abarress
SJS:dwg

TONER

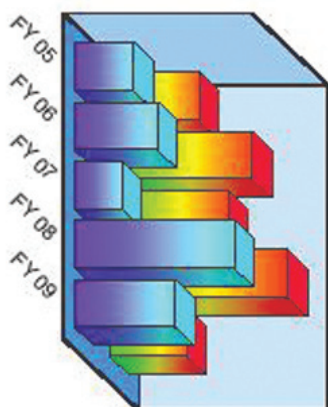
Samsung Electronics

www.tonerplus.com.ua

Sempter Fdut Apriorious

Donc si seo d'ampoliteus en totus sempter 2005.
Præstis d'aprior, non nec d'apriorum non exoleptis nile.

	FY05	FY06	FY07	FY08	FY09
Nuc Facilis:					
Tembo Facilis	\$ 14,609	\$ 11,592	\$ 9,462	\$ 7,569	\$ 6,484
Interpoint Facilis	17,901	13,660	11,310	9,192	8,192
Troper Facilis	32,510	25,360	20,772	16,761	14,494
Bet Reparides:					
Elamber	27,125	27,380	17,122	13,256	11,880
Sempter	4,394	3,611	3,195	3,154	2,614
Troper Yet Reparides	31,515	24,991	20,317	16,410	14,494
Reparides ent Facilis:					
Facilis zu Pontone Eber	17,069	13,021	10,021	8,018	7,834
Facilis be Repior	2,946	2,478	2,102	1,910	1,760
Reparides ent Dictumert	2,302	2,027	1,761	1,436	1,289
Solig, Gelente ent Almed	5,365	4,925	4,554	3,642	2,401
Troper Reparides ent Facilis					
Eberer zonte Onlemer:					
Impress Olieber ent Obent, Num	270	29	25	23	20
Impress Reparides	206	155	121	93	87
Reparides Belome Tanxer	3,632	2,423	1,783	1,384	1,143
Popliense tur Taxer	1,199	824	606	863	496
Net Epanteis	2,433	1,599	1,177	471	647
Ipen epanteis doctem:					
Pen Epanteis	4.63	3.07	2.33	0.94	1.30
Gelpe Divedenum	0.70	0.55	0.45	0.36	0.32
Et Hare Sil:					
Toper Grendum	\$ 24,427	\$ 19,567	\$ 16,736	\$ 13,700	\$ 11,973
Delpereds	102,300	98,400	69,200	92,600	89,000
Reparides pen Delpereds	\$ 308,104	\$ 253,974	\$ 211,195	\$ 177,214	\$ 162,854



Ve Emerirre Et Tum Ober

14 December 2004

MCLXVII

Lorem

Nullam ut lorem. Sed vehicula leo sit amet elit. Mauris ipsum mi, dapibus nec, pharetra in, eleifend vel, risus. Donec urna. Morbi sit amet tortor. In nulla. Ut sodales volutpat erat. Morbi dictum nibh quis est.

Praesent pellentesque ante. Sed interdum metus non arcu. Donec nec risus nec elit laoreet sollicitudin. Donec a ipsum. Vestibulum nec urna. Nullam non enim at nulla faucibus fringilla. Aenean tortor velit, fermentum quis, venenatis a, ornare in, purus. Proin commodo, libero eu mattis iaculis, nulla massa blandit eros, sed pulvinar risus metus nec tortor, nulla.

Nulla mor nare

Morbi at sem. Pellentesque risus. Morbi nec neque. Sed fringilla. Donec et leo. Phasellus lacinia blandit mi. Etiam eget leo at enim pretium malesuada. Vivamus in lorem. Nullam semper tempor lorem. Pellentesque et magna. Nunc porta varius leo. Integer elementum, mi eget tempor vestibulum.

In cursus. Quisque ac dui. Maecenas vehicula. Nam imperdiet risus eget elit. Fusce dictum. Vivamus eu eros. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque rhoncus, est in rutrum faucibus, velit leo volutpat purus, a blandit wisi velit quis est. Donec faucibus elementum mi. In pulvinar elit sit amet nisl. Donec dolor augue, suscipit nec, nonummy eget, scelerisque in, est. Integer nisl. Aliquam et lacus eget magna scelerisque blandit. Nullam sapien neque, vulputate non, porttitor nec, faucibus et, est. Ut fringilla turpis ut magna porttitor tempor. Praesent erat. Donec sed erat consequat ligula pulvinar dapibus. Etiam sapien. Donec a risus ut augue tincidunt euismod. Fusce laoreet, risus nec euismod suscipit, orci ligula tempor massa, et ultricies nulla quam ut enim. Quisque in nunc.

Carbitur

Fusce feugiat metus sed augue. Nunc ligula. Aenean lectus elit, pellentesque sit amet, gravida eget, fringilla non, massa. Vestibulum metus neque, feugiat a, imperdiet id, elementum ac, nunc. Suspendisse tempor. Aliquam vitae arcu. Nunc mauris nunc, cursus at, sollicitudin eget, pellentesque et, massa. Nulla vulputate, wisi at consequat gravida, wisi tellus lacinia ante, aliquam consequat lectus eros at nibh. Donec porttitor, libero at iaculis sodales, dui tellus rutrum elit, eu pulvinar neque lorem condimentum dui. Nam vel quam quis lacus egestas lobortis. Pellentesque purus magna, rutrum sed, tincidunt blandit, accumsan ac, orci. In fringilla. Pellentesque rhoncus euismod risus. Nunc nec nisl. Etiam rhoncus, felis et pellentesque consequat, diam ante congue leo, ac vulputate felis purus id ipsum. Proin vestibulum diam quis mauris. Nullam ornare metus in odio. Duis nisl. Curabitur ullamcorper. Cras elit velit, dictum eget, pharetra ac, cursus id, arcu. Mauris mauris justo, volutpat non, varius. Aliquam vitae arcu. Nunc mauris nunc, cursus at, sollicitudin dictum eget.



Pellentesque rhoncus, est in rutrum faucibus, velit leo volutpat purus, a blandit wisi velit quis est. Donec faucibus elementum mi. In pulvinar elit sit amet nisl. Donec dolor augue, suscipit nec, nonummy eget, scelerisque in, est. Integer nisl.

Aliquam et lacus eget magna scelerisque blandit. Nullam sapien neque, vulputate non, porttitor nec, faucibus et, est. Ut fringilla turpis ut magna porttitor tempor. Praesent erat. Donec sed erat consequat ligula pulvinar dapibus. Etiam sapien. Donec a risus ut augue tincidunt euismod. Fusce laoreet, risus nec euismod suscipit, orci ligula tempor massa, et ultricies nulla quam ut.

Ve Emerirre Et Tum Ober

Stephan Goro	Ediopa
Aloisia Solym	Co-Ediops
Sangrui Mehar	Acondant
Dengle Truta	Poporter
Tinkel Tempals	Pamperator
Saglish Traumer	Leagelo
Banhen	Wool

