

**TOSHIBA POS Terminal** 

# **ST-B10**

# **MS-DOS Setup Guide**

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**TOSHIBA TEC CORPORATION** 

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## 1. Overview

This document describes the procedures and notes for setting & installing the MS-DOS 6.22 to ST-B10.

The outline of procedures to install MS-DOS on the ST-B10 is as follows:

MS-DOS Setup Procedure

- 1) Installation for Operating System
- 2) Installation for VIA Network Driver

## 2. Setup for MS-DOS 6.22 Environment

#### 2.1. Installation for Operating System (MS-DOS 6.22)

This procedure is written with the situation that you have the FD of 'MS-DOS 6.22 Update'. Therefore, please use this information with customizing for your environment.

First, you set floppy disk (MS-DOS 6.22 Disk1) and turn on the ST-B10. Then below message appears.



And wait more while, below message appears.



In usual situation, ST-B10 doesn't have DOS system internally. Because the ST-B10 has empty HDD (No data) in initial status, it is occur.

First, you have to prepare the DOS system with below process.

Press F3, then below message appears

Microsoft MS-DOS 6.22 Setup Welcome to Setup.	
The Setup program prepares MS-DOS 6.22 to run on your Exiting Setup MS-DOS 6.22 is not completely installed. If you exit Setup now, you will need to run the Setup program again. <ul> <li>To exit, make sure Setup Disk 1 is in drive A, and then press F3.</li> <li>To return to the previous screen, press ESC.</li> </ul>	
To continue Setup, press ENTER.	

Press F3 again, then system exits the setup of MS-DOS.



Then, type 'FDISK' and press 'Enter'. After a while, below message appears.



Press '1' Key and press Enter.



Press '1' Key and press Enter.

After a while, below message appears.



Press 'Y' Key.



Press any Key, then ST-B10 reboots, and MS-DOS installer appears.



Next, please go to the prompt message same as the above procedure.

Then, type 'FORMAT C:' and press 'Enter'.



After a while, below message appears.



Type 'Y' and press 'Enter'



After a while, below message appears.

WARNING: ALL DATA ON NON-REMOVABLE DISK DRIVE C: WILL BE LOST! Proceed with Format (Y/N)?y

Formatting 2039.59M Format complete.

Volume label (11 characters, ENTER for none)?

Press 'Enter'. (Use default setting)

A:\>FORMAT C: WARNING: ALL DATA ON NON-REMOVABLE DISK DRIVE C: WILL BE LOST! Proceed with Format (Y/N)?y Formatting 2039.59M Format complete. Volume label (11 characters, ENTER for none)? 2,138,374,144 bytes total disk space 2,138,374,144 bytes available on disk 32,768 bytes in each allocation unit. 65,258 allocation units available on disk. Volume Serial Number is 2A5A-16F6 A:\>\_

Next, type 'Setup /G' and press 'Enter'.

WARNING: ALL DATA ON NON-REMOVABLE DISK DRIVE C: WILL BE LOST! Proceed with Format (Y/N)?y

Formatting 2039.59M Format complete.

Volume label (11 characters, ENTER for none)?

2,138,374,144 bytes total disk space 2,138,374,144 bytes available on disk

> 32,768 bytes in each allocation unit. 65,258 allocation units available on disk.

Volume Serial Number is 2A5A-16F6

A:∖>SETUP ∕G

After a while, system starts the MS-DOS setup.



Press 'Enter'.

After a while, below message appears.



Confirm the contents, and press 'Enter'.

Microsoft MS-DOS 6	.22 Setup		
The follo	wing programs can be insta	lled on your computer.	
	Program for	Bytes used	
Backup: Undelete Anti-Vir	MS-DOS only : MS-DOS only us: MS-DOS only	901,120 32,768 360,448	
Install	the listed programs.		
Space req Space ava	uired for MS-DOS and progr ilable on drive C:	ams: 6,194,336 2,138,374,144	
To instal of availa highlight	l the listed programs, pre ble options, press the UP a program, and then press	ss ENTER. To see a list or DOWN ARROW key to ENTER.	

Confirm the contents, and press 'Enter'.

After a while, below message appears.



Confirm the contents, and press 'Y'.

MS-DOS installation process starts as below.



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After a while, system request to change the next FD (floppy disk # 2) Please change the disk from #1 to #2.

And press 'Enter'.

Microsoft MS-DOS 6.22 Setup
MS-DOS 6.22 delivers advanced memory management features, including an easy-to-use memory optimizer named MemMaker.
If you have a 386 or higher processor, optimize your PC memory Please insert the following disk in drive A: Setup Disk #2 When you are ready to continue, press ENTER
26× c
ENTER=Continue F3=Exit

After a while, system request to change the next FD (floppy disk # 3) Please change the disk from #2 to #3. And press 'Enter'.

Microsoft MS-DOS 6.22 Setup
Have a disk problem? Fix it with ScanDisk, MS-DOS 6.22's advanced disk-repair tool. ScanDisk can diagnose and correct a wide range of disk problems on both compressed and uncompressed drives.
Even i is a g Please insert the following disk in drive A: Setup Disk #3 When you are ready to continue, press ENTER.
66% c
FNTER=Continue F3=Exit



Press the 'Enter'.

After a while, below message appears.



Press the 'Enter'.

Then, system reboots, and the MS-DOS 6.22 executes.

#### 2.2. Installation for VIA Network Driver

This document is mentioned with the following premise.

- Here is the LAN Manager (by Microsoft) application.
- Using LAN Manager with ST-B10.
- Prepared the VIA Network driver with ST-B10.

Note) If you use other application for LAN management, please see the information provided by application vendor.

First, setup the LAN Manager with ST-B10.

Set the 'LAN Manager Setup floppy disk' to drive.

And move floppy disk drive, then, type 'setup.exe' and press 'Enter'.

A:\>setup.exe		

After a while, below message appears.



Press the 'Enter'.



Press the 'Enter'.

After a while, below message appears.

	Microsoft LAN Manager Setup - Installation
Г	Install LAN Manager
	Install from this drive:
	Put in this directory (include drive letter): [C:\LANMAN.DOS]
L	• UK • (Cancel) (Exit Setup) (Help)

If you hope to modify the direction of LAN driver installation, please modify this setting. Then you have decided it, press the 'Enter'.



Press the 'Enter'. (We recommend to selecting the 'LAN Manager Enhanced'.)

After a while, below message appears.

Microsoft LAN Manager Setup - Installation	
Installing files	
Installing files from DOS SETUP	
31 file(s) left to copy	



Then, change the floppy disk from 'first FD' to 'second FD' and press the 'Enter'.

After a while, be	elow message appears.	
	Microsoft LAN Manager Setup - Installation	
	Installing files — — — — — — — — — — — — — — — — — — —	
	Installing files from	
	DUS DRIVERS 1	
	101 file(s) left to comu	





Select Available Network Adapter Driver:	
▶3Com Etherlink Adapter (30501)	
3Com Etherlink II Adapter (30503)	
3Com Etherlink Plus Adapter (3C505-B)	88
3Com Etherlink/MC Adapter (3C523)	
3Com EtherLink16 and 16 TP Adapters (3C507)	
3Com TokenLink Adapter (3C603)	
HILL Series 2100 Haapters	
Cabletron E2000 Series DNI	
Cabletron E3000 Series DNI	I I

And press the 'Enter'.

Microsoft LAN Manager Setup - Installation
Copy Driver or Protocol Files
Insert
your network driver disk
In the specified arive
or give a new path:
[ <u>A</u> :]]
and choose (UK).
► NK ◀ <cancel driver="" immort=""> <heln></heln></cancel>
· · · · · · · · · · · · · · · · · · ·

Then, change the floppy disk from 'second FD' to 'VIA LAN Driver FD' and press the 'Enter'.

After a while, below message appears.
Microsoft LAN Manager Setup - Installation
Other Network Adapter Drivers
Select Available Network Adapter Driver:
▶ VIA Rhine Family Fast Ethernet Adapter
► DK ◀ <cancel> <heln></heln></cancel>

Press the 'Enter'.



After a while, below message appears.

Microsoft LAN Manager Setup - Installation
Network Protocols for
Press the SPACEBAR to select one or more Protocols:
[ ] <sup>MS</sup> DLC
[ ]MS TCP/IP [ ]Netbeui
► OK ◀ <other protocol=""> <cancel> <exit setup=""> <help></help></exit></cancel></other>

Then, select the protocols you needed. (In this manual, we select all protocols) And press the 'Enter'

Installed	——————————————————————————————————————	ation Conf ):	figuration	ı ———	
<b>VIA Rh</b>	ine Family Fast 1	Ethernet A	Adapter		
MS MS	DLC TCP/IP				
Ne	tbeui				
▶ ок ∢	<add pro<="" remove="" td=""><td>tocols&gt; ·</td><td>(Add New (</td><td>Conf ig&gt;</td><td></td></add>	tocols> ·	(Add New (	Conf ig>	

Press the 'Enter'

After a while, b	pelow message appears.
	Microsoft LAN Manager Setup - Installation
	TCP/IP Settings
	IP Address: [
	Subnet Mask: [······]
	Default gateway (router): []
	Number of NetBIOS sessions: [6]
	[X] Enable automatic DHCP configuration
	WINS Primary Server: []
	WINS Backup Server: []
l li	► DK

Set the parameter as your network environment.

If you choose the 'Advanced...' menu and you press the 'Enter', below message appears.

	DNR and Sockets Settings
Username:	[] HostName: []
[]Use]	NR for hostname resolution
Primary Secondary	Nameserver IP Address: [] Nameserver IP Address: [] Domain Name Suffix: []
[] Enabl	e Windows sockets Number of Sockets: [4]
▶ ок ◀	<cancel> <help></help></cancel>

Set the parameter as your network environment. And press the 'Enter'.

If you don't choose the 'Advanced...' menu and you press the 'Enter', below message appears.

Microsoft LAN Manager Setup - Installation	
Workstation Settings	
Computername: . []	
Domain: [DOMAIN]	
Other Domains to Monitor: Messaging Services:	
[]	
[]	
► OK ◀ <cancel> <exit setup=""> <help></help></exit></cancel>	

Set the parameter as your network environment. And press the 'Enter'.



Set the parameter as your network environment. And press the 'Enter'.

If you choose the 'Yes' and you press the 'Enter', below message appears.

Microsoft LAN Manager Setup – Installation			
Windows Directory			
To enable LAN Manager to run with the Windows program,			
Setup needs to make changes to your Windows configuration			
files. If the correct windows directory is not snown,			
choir one correct and good gy moraling at the restor and patient			
Windows directory: []			
▶ OK ◀ 〈Cancel〉 〈Exit Setup〉 〈Help〉			

Set the parameter as your network environment. And press the 'Enter'. If you choose the 'No' and you press the 'Enter', below message appears.



Set the parameter as your network environment. And press the 'Enter'.

After a while, below message appears.

Microsoft LAN Manager Setup - Installation
Configuration Complete
You have provided all the configuration information for a LAN Manager Workstation.
To review your configuration, choose <review>.</review>
To save your configuration, choose <save>.</save>
Save < (Review) <exit <help="" setup)=""></exit>

Press the 'Enter'.

Then, re-change the floppy disk from 'VIA LAN Driver FD' to 'second FD' and press the 'Enter'.

Microsoft LAN Manager Setup - Installation Insert Disk DOS DRIVERS 2 in drive A: or give a new path: [A: and choose <OK>. ► OK ◀ <Exit Setup> <Help>

After a while, below message appears.

Then, change the floppy disk from 'second FD' to 'Third FD' and press the 'Enter'.

Microsoft LAN Manager Setup - Installation	
Installing files	
file(s) left to copy	

After a while, below message appears.

	Installation Complete
Setu LAN	up has completed the installation of Microsoft Manager. To start LAN Manager, do the following:
1. 2. 3. 4.	Choose OK to exit Setup. Remove the last installation disk from the disk drive. Examine the PROTOCOL.INI file in the LAN Manager directory and verify that it contains proper values for this network adapter card and configuration. Reboot your computer.

Press the 'Enter'.

Then, DOS prompt appears.

Next, please shutdown your terminal, and power on the terminal.

Then, Network driver is loaded on your terminal.

So, type the 'msd' and press 'Enter', you can see the Network information in diagnostic program.

You can see the setting of LAN as with PROTOCOL.ini file.

# 3. Using our peripherals with MS-DOS Environment

Basically, you can use below devices with legacy access method of MS-DOS. These contents mentioned about using POS peripherals.

Port		Device	DOS Support
LCD/Monitor	RGB	PA80BPNB / PA80BPNW PA15BPNB / PA15BPNW TFTST-A20-2A1NK/F-QM-R TFTST-A20-5A1NK/F-QM-R TFTST-A20-2A2NK/F-QM-R TFTST-A20-5A2NK/F-QM-R TFTST-B20-2A2PK/F-QM-R TFTST-B20-5A2PK/F-QM-R	Can use(*1)
	LVDS	TFTST-A20-2L2NK/F-QM-R TFTST-A20-5L2NK/F-QM-R	Can use(*1)
Keyboard	PS2	PKBST-50-3-K-QM-R PKBST-50-3-QM-R	Can use
	USB	PKBST-52-4M5-QM-R(FW-2, with MSR) PKBST-52-4-QM-R(FW-2, without MSR) PKBST-52-4M5-K-QM-R(CB, with MSR) PKBST-52-4-K-QM-R(CB, without MSR)	Can use(*2)
Drawer	TTEC	DRWST-51A-8MV(K)-QM-R DRWST-56EMV-QM-R 420R 48G2 BCT 420R 48IVO BCT	Can use
Printer	USB	TRST-A10SC/F1-QM-R TRST-A10SC/F2-QM-R TRST-A15SC/F-QM-R TRST-A10SC/F1-CN-R TRST-A00-UF/C-QM-R TRST-A00-UF/C-CN-R	Cannot use
	RS232	TRST-A00-DF/C-QM-R TRST-A00-DF/C-CN-R	Can use
LIU	RS232	LIUST-51-1AK/F-QM-R LIUST-A10 WD-1012000008 / WD-1012000018	Can use
MCR	RS232	MCRSTA10	Can use(*3)
	PS2	MCR of PKBST50(MCRST-50-3-QM-R)	Can use
	USB	MCR of PKBST52	Cannot use

#### Note)

\*1: Touch Panel & MCR cannot be used with TFTST-A20-\*L\* (COM5 & COM6 cannot be used by DOS)

Basically, Touch Panel & MCR cannot be used with TFTST-A20/B20 & PA.

\*2: Only keypad can be used for Key board, but Key code download tool cannot support DOS.

If you want to tune the Key code of PKBST52, you have to prepare the Windows environment.

\*3: MCRST-A10 only can be used with TFTST-A(B)20-\*A\*.

#### 3.1. Platform

Platform device is mapped specify I/O memory in ST-B10. About detail of mapping address and access procedure, please see documents below. About H/W information: *Product specification for TOSHIBA TEC POS Terminal (ST-B10)* 

#### 3.2. Drawer

Drawer device is mapped specify I/O memory in ST-B10. About detail of mapping address and access procedure, please see documents below. Port Information: *Product specification for TOSHIBA TEC POS Terminal (ST-B10)* 

#### 3.3. Printer

About detail of command I/F and COM setting, please see documents below. TRST-A00-DF/C-QM-R: *Product specification for TOSHIBA TEC POS Printer (TRST-A00)* 

TRST-A00-DF/C-CN-R: Not available.

#### 3.4. Line Indicator Unit (LIU)

About detail of command I/F and COM setting, please see documents below. LIUST-51-1AK/F-QM-R:

**Product specification for TOSHIBA TEC Line Indicator Unit (LIUST-51)** LIUST-A10:

*Product specification for TOSHIBA TEC Line Indicator Unit (LIUST-A10)* WD-1012000008 / WD-1012000018:

User's Manual of LED Customer Display (Model : WD-111)

#### 3.5. MSR

About detail of command I/F and COM setting, please see documents below. MCRST50(MCRST-50-3-QM-R):

Product specification for TOSHIBA TEC Magnetic Card Reader (MCRST50)

MCRST-A10:

Product specification for TOSHIBA TEC Magnetic Card Reader (MCRSTA10)

#### 3.6. Keyboard

About detail of command I/F, please see documents below. PKBST-50: *Product specification for TOSHIBA TEC POS Keyboard (PKBST-50)* PKBST-52: *Product specification for TOSHIBA TEC POS Keyboard (PKBST-52)* 

## 4. Notice and Limitation

#### 4.1. Notice

#### 4.1.1. About DOS

This document is written for MS-DOS 6.22.

If you use another DOS, you may have to adjust the difference of detail specification.

#### 5.2. Limitation

#### 5.2.1. Limitation about DOS

As DOS user already has known, if he uses DOS, basically he has to perform the responsibility in himself in current situation.

Of course, we can support as much as possible.

But he has to know this limitation about responsibility.