
Preface

This manual is intended for use with the Telemecanique range of IBM PC compatible terminals. It describes the installation of the various Operating Systems supported by these terminals.

The Operating System(s) that can be used depends on the type of terminal selected. The table below shows the correspondence between terminal and Operating Systems.

	TE/MS-DOS 4.01	TE/DR-DOS 5.0	TE/MS-OS/2 1.3
FTX 507	X		X (*)
CCX 57	X		X (*)
FTX 417		X	X (*)

TE/MS-DOS and TE/MS-OS/2 Operating Systems can be installed on the same terminal.

The TE/DR-DOS 5.0 Operating System comprises two installation modes:

- Standard mode: The Operating System is installed in one language only (corresponding to the product language version identified by the letters F, E, G, T, or S). All messages displayed on-screen will be displayed in the selected language.
- Multilanguage mode: The Operating System is installed in more than one language. The complete installation procedure using the corresponding set of system diskettes (versions F, E, G, T or S) must be performed for each language version required. All messages displayed on-screen will be displayed in the language selected from those installed in the system.

Notes on the layout of this manual:

- Section 1 refers to the Operating Systems designed for installation on FTX 507 and CCX 57 systems.
- Section 2 refers to the Operating Systems designed for installation on FTX 417 terminals.

The other sections are common to the entire range of terminals with specific instructions provided, where required, for the various Operating Systems.

(*) New Telemecanique product, contact your Telemecanique Sales Office for details.



Section		Page
1	First Installation of TE/MS-DOS 4.01 / TE/MS-OS/2 1.3	1/1
1.1	First Installation of TE/MS-DOS 4.01 Only	1/2
1.2	First Installation of TE/MS-OS/2 1.3 Only	1/5
1.3	First Installation of TE/MS-DOS 4.01 and TE/MS-OS/2 1.3	1/9
2	First Installation of TE/DR-DOS 5.0 / TE/MS-OS/2 1.3	2/1
2.1	First Installation of Standard TE/DR-DOS 5.0 Only	2/2
2.2	First Installation of Multilanguage TE/DR-DOS 5.0 Only	2/7
2.3	First Installation of TE/MS-OS/2 1.3 Only	2/9
2.4	First Installation of TE/DR-DOS 5.0 and TE/MS-OS/2 1.3	2/10
3	Reinstalling Operating Systems	3/1
3.1	General	3/2
3.2	Reinstalling TE/MS-DOS 4.01 Only	3/2
3.3	Reinstalling TE/MS-OS/2 1.3 Only	3/3
3.4	Reinstalling TE/MS-DOS 4.01 and TE/MS-OS/2 1.3	3/4
3.5	Reinstalling TE/DR-DOS 5.0 Installed Alone	3/5
3.6	Reinstalling TE/DR-DOS 5.0 and TE/MS-OS/2 1.3	3/7
4	Updating Operating Systems	4/1
4.1	Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed Alone	4/2
4.2	Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed with TE/MS-DOS 4.01	4/3
5	Installing and Adjusting Pointing Devices	5/1
5.1	Installation & Adjustment Under TE/MS-DOS 4.01 or TE/DR-DOS 5.0	5/2
5.2	Installation and Adjustment Under TE/MS-OS/2 1.3	5/3



Section		Page
6	Configuring a Hard Disk	6/1
6.1	FDISK Command in TE/MS-DOS 4.01	6/2
6.2	FDISK Command in TE/DR-DOS 5.0	6/15
6.3	FDISKPM Command in TE/MS-OS/2 1.3	6/22
7	Questions/Answers	7/1
7.1	Warning	7/2
7.2	TE/MS-DOS 4.01 Installed Alone	7/3
7.3	Standard TE/DR-DOS 5.0 Installed Alone	7/5
7.4	Multilanguage TE/DR-DOS 5.0 Installed Alone	7/8
7.5	TE/MS-OS/2 1.3 Installed Alone	7/10
7.6	TE/MS-OS/2 1.3 Installed with TE/MS-DOS 4.01	7/14
7.7	TE/MS-OS/2 1.3 Installed with Standard TE/DR-DOS 5.0	7/16
7.8	TE/MS-OS/2 1.3 Installed with Multilanguage TE/DR-DOS 5.0	7/18
7.9	Installing PL7-1/2/3 with TE/DR-DOS 5.0	7/20
7.10	Running Telemecanique Programs with TE/MS-OS/2 1.3	7/26
7.11	Running Other Programs	7/27



Sub-Section	Page
1.1 First Installation of TE/MS-DOS 4.01 Only	1/2
1.1-1 Before Starting	1/2
1.1-2 Installation Procedure	1/2
<hr/>	
1.2 First Installation of TE/MS-OS/2 1.3 Only	1/5
1.2-1 Before Starting	1/5
1.2-2 Installation Procedure	1/5
<hr/>	
1.3 First Installation of TE/MS-DOS 4.01 and TE/MS-OS/2 1.3	1/9
1.3-1 Before Starting	1/9
1.3-2 TE/MS-DOS 4.01 Installation Procedure	1/9
1.3-3 TE/MS-OS/2 1.3 Installation Procedure	1/10
1.3-4 Changing Between Operating Systems	1/11

1.1 First Installation of TE/MS-DOS 4.01 Only

1.1-1 Before Starting

Check that you have the following:

- 2 TE/MS-DOS 4.01 3 1/2" diskettes,
 - 1 TE/MS-DOS 4.01 User's Guide.
-

1.1-2 Installation Procedure

- 1- Insert the INSTALL 1 diskette in drive A,
- 2- Power-up the terminal,
- 3- Once the self-tests have been performed, the following menu is displayed on-screen:

Partition Fixed disk

Fixed disk 1

This fixed disk is not completely set up. The fixed disk has space that needs to be divided into areas called partitions. You can leave the fixed disk as it is, or you can define your own partition sizes.

Choose on option:

- 1. Leave disk unchanged**
- 2. Define your own particular sizes**

- To install the operating system on an FTX 507 terminal with a 40 Mb hard disk, select 1, then press <Enter> to confirm the selection so that the SELECT TE utility will automatically partition the hard disk (main partition (C:) of 32 Mb, second partition (D:) of 8 Mb).
- For all other systems (CCX 57 with a 40 Mb hard disk or CCX 57 and FTX 507 systems with a hard disk of more than 40 Mb), select 2, then press <Enter> to validate the selection and call-up FDISK. The hard disk should be partitioned as shown in the table opposite.

Once the FDISK command is invoked (as described in Sub-section 6.1), perform the various operations in the following sequence:

- 1- Create the primary partition,
- 2- Enter the primary partition size,
- 3- Activate the primary partition,
- 4- Create the extended partition,
- 5- Enter the size of the extended partition,
- 6- Create one or more logical drives in the extended partition.

Partition table

Hard disk sizes	40 Mb	40 Mb	120 Mb
Terminal	FTX 507	FTX 417 CCX 57	FTX 507 CCX 57
Drive 0			
• Primary partition (C:)	32 Mb	40 Mb	60 Mb
• Extended partition			
- Logical drive 0 (D:)	Remainder	-	Remainder

4- The following screen is displayed:

```

                                Format fixed disk

Fixed disk . . . . 1
Logical drive . . .D:

Choose on option :

    1. Format the partition of the fixed disk
    2. Do not format the partition of the fixed disk
    
```

Select 1, the confirm successively by pressing <Enter> the various logical drives to format.

5- Once formatting is complete, the following menu is displayed:

```

                                Choose kind of MS-DOS installation

choose 1 predefined default parameter.
- Country: UK (044), keyboard: UK.
- DOS functions and program memory.
- Directory if hard disk: C:\DOS.
- Installation of shell MS DOS.
- Update all DOS files on hard disk.

Choice 2 permits you to define your own parameters.

Choose an option:

    1. Accept predefined TE parameters.
    2. Choose your own install options
    
```

6A. If you accept the Telemecanique configuration (recommended choice), follow the procedure described below:

- Confirm selection 1 by pressing <Enter> and wait for the diskette to be copied to the hard disk (drive C),
- When the message: *Insert Install 2 diskette in drive A* appears, remove the INSTALL 1 diskette and replace with the INSTALL 2 diskette, then press <Enter> to confirm,
- When the message *Installation complete* appears, remove the INSTALL 2 diskette from the drive,
- Restart the terminal by holding down the <Control> and <Alt> keys and then pressing the key.

6B. If you wish to choose your own installation options, follow the procedure shown below:

- Select 2, then press <Enter> to confirm,
- From the *Specify Function and Workspace* screen, select one of the 3 options available, then press <Enter> to confirm,
- Select the country and the keyboard code, then press <Enter> to confirm,
- Select the drive on which TE/MS-DOS 4.01 will be installed, then press <Enter> to confirm,
- Define the specifications for the DOS directory, then press <Enter> to confirm,
- Define the number of printers, press <Enter> to confirm, then choose the type(s) from the list available and press <Enter> to confirm,
- Define which port the printer will be connected to, then press <Enter> to confirm,
- Select whether or not to install the MS-DOS shell, then press <Enter> to confirm,
- If you accept the configuration selected, confirm this by pressing <Enter>. Otherwise, modify the configuration, and confirm when it is correct. The diskette is then copied to the hard disk,
- When the software requests, remove the INSTALL 1 diskette from the drive and replace with the INSTALL 2 diskette. Press <Enter> to confirm,
- When the message *Installation complete* appears, remove the INSTALL 2 diskette from the drive,
- Restart the system by holding down the <Control> and <Alt> keys and then pressing the key.

1.2 First Installation of TE/MS-OS/2 1.3 Only

1.2-1 Before Starting

Installation of OS/2 requires at least 4 Mb of RAM and 12 Mb of free space on the hard disk.

Check that you have the following:

- 11 TE/MS-OS/2 1.3, 3 1/2" diskettes,
 - 1 TE/MS-OS/2 1.3 User's Guide.
-

1.2-2 Installation Procedure

- 1- Insert the INSTALLATION A diskette in drive A.
Warning: This diskette should not be write protected.
- 2- Power-up the terminal.
- 3- Once the self-tests are complete, the terminal loads the diskette.
The following screen is displayed:

```
Telemecanique Operating System/2 Installation

Version 1.30.1

(C) Copyright Microsoft Corp. 1981-1991. All rights reserved.
(C) Copyright Telemecanique S.A. 1992. All rights reserved.

Press Enter (↵) to continue or Esc to cancel
```

Press <Enter> to confirm.

- 4- The *Welcome* screen is displayed.
Read the *Welcome* screen then press <Enter> to confirm.
- 5- The *Introduction* screen is displayed, it lists important commands.

```
- To make a choice, use the up and down arrow keys
  to indicate the item you want.
- To proceed to the next step, press Enter.
- To return to the previous screen, press Esc.
- To see help information, press F1.

Esc and F1 can be used when shown at the bottom of the screen.
```

Press <Enter> to confirm.

6- The *File System* screen is displayed, press <Enter> to confirm.

7- The *Hard disk preparation* screen is displayed:

Select an option:

1. Accept predefined primary partition
2. Specify your own primary partition

Select 2, then press <Enter> to partition the hard disk as shown in the partitioning table in Sub-section 1.1-2.

This operation only creates the primary partition.

To create secondary partitions and logical drives, you must run the hard disk utility.

This operation must be performed after the operating system is installed (refer to Sub-section 6.3).

8- When prompted to by the terminal, leave the INSTALLATION A diskette in the drive and restart the terminal by holding down the <Control> and <Alt> keys and then pressing the key.

9- When prompted by the terminal, insert Diskette 1 in the drive and press <Enter>.

10- From the *File system selection* screen:

Select an option.

1. High Performance File System
2. FAT file system

Confirm selection 2 (to ensure compatibility with DOS) by pressing <Enter>

11- The *Primary partition formatting* screen is displayed.

Select 2. *Format the partition*, then press <Enter> to confirm.

12- The *Select installation options* screen is displayed.

Select an option.

1. Accept the predefined system configuration.
2. Select system configuration.

Select 2, then press <Enter> to confirm.

The next screen lets the user select additional system options:

Install selected system options:

- Country information...
- Documentation...
- Fonts...
- High Performance File System
- Optional System Utilities
- OS/2 DOS Environment
- Picture Utilities
- Serial Device Support
- Serviceability and Diagnostic Aids

For more information on each option, select the option then press <F1>.

From the options available, choose "OS/2 DOS Environment" then choose "Optional System Utilities" to access the hard disk utility after installation to complete disk partitioning and to access the Backup and Restore commands.

13- From the *Select Display Adapter screen*, choose 1 then press <Enter> to confirm.

14- From the *Select Mouse screen*, choose:

- *Microsoft Mouse, PS/2 Version (056-X99)* , if you have a mouse or trackball connected to the mouse port,
 - *Microsoft Mouse, Serial Version (039-199)* , if you have a mouse or trackball connected to the serial port.
- Then press <Enter> to confirm.

15- From the *Select Configuration screen*,

Select an option

1. Accept configuration
2. View configuration
3. Change configuration

Choose 1 then press <Enter> to confirm,

If you wish to modify the default configuration, choose 3

By default, the following values are selected:

```

BUFFERS           : 30 (1-100)
DISKCACHE         : 64 (64-7200)
MAXWAIT           : 3 (1-255)
MEMMAN MOVE       : MOVE (MOVE/NOMOVE)
MEMMAN SWAP       : SWAP (SWAP/NOSWAP)
PRIORITY          : DYNAMIC (DYNAMIC/ABSOLUTE)
SWAP MINFREE      : 512 (0-32767)
SWAPPATH          : C:\OS2\SYSTEM
THREADS           : 128 (64-512)
BREAK             : OFF (ON/OFF)
MEMMAN SWAPDOS    : SWAPDOS (SWAPDOS/NOSWAPDOS)
OPEN FCBS         : 16 (1-255)
PROTECTED FCBS    : 8 (0-255)
RMSIZE            : 640 (256-640)
    
```

-
- 16- When prompted by the terminal, remove Diskette 1 from the drive and insert Diskette 2. Press <Enter> and wait for the terminal to copy the contents of the diskette to the hard disk C.
 - 17- When prompted by the terminal, remove Diskette 2 from the drive and insert Diskette 3. Press <Enter> and wait for the terminal to copy the contents of the diskette to the hard disk C.
 - 18- When prompted by the terminal, remove Diskette 3 from the drive and insert Diskette 4. Press <Enter> and wait for the terminal to copy the contents of the diskette to the hard disk C.
 - 19- When prompted by the terminal, remove Diskette 4 from the drive and insert Diskette 5. Press <Enter>.
 - 20- When prompted by the terminal, remove Diskette 5 from the drive and insert the INSTALLATION B diskette. Press <Enter>.
 - 21- When prompted by the terminal, remove the INSTALLATION B diskette from the drive and insert the INSTALLATION A diskette. Press <Enter>.
 - 22- When prompted by the terminal, remove the INSTALLATION A diskette from the drive and insert the OS/2 Systems Support diskette. Press <Enter>.
 - 23- When prompted by the terminal, remove the OS/2 Systems Support diskette from the drive and insert the OS/2 Presentation Manager Device Driver 1 diskette. Select the default printer driver and press <Enter>.
 - 24- When prompted by the terminal to install other device drivers, answer No.
 - 25- Remove the diskette from the drive, then reboot the terminal by pressing the <Control> <Alt> and keys simultaneously.
 - 26- Adjust the sensitivity of the pointing device, if necessary (refer to Sub-section 5.3).
 - 27- Complete partitioning the hard disk using the hard disk utility (described in Sub-section 6.3) and format the logical devices and secondary partitions.

Note

Help screens can be displayed during installation of TE/MS-OS/2 1.3:

- Press F1 to display information on the screen actually being displayed,
- Press F1 then F11 to display the list of Help screens. Choose a screen, then confirm the selection, to display the corresponding information.

1.3 First Installation of TE/MS-DOS 4.01 and TE/MS-OS/2 1.3

Warning:

It is essential that the various steps described for the installation of the operating systems be performed in sequence:

- Installation of TE/MS-DOS 4.01
- Installation of TE/MS-OS/2 1.3

1.3-1 Before Starting

Check that you have the following:

- 2 TE/MS-DOS 4.01, 3 1/2" diskettes,
- 11 TE/MS-OS/2 1.3, 3 1/2" diskettes,
- 1 TE/MS-DOS 4.01 User's Guide,
- 1 TE/MS-OS/2 1.3 User's Guide.

1.3-2 TE/MS-DOS 4.01 Installation Procedure

The installation procedure for TE/MS-DOS 4.01 is identical to that described in Sub-section 1.1.

1.3-3 TE/MS-OS/2 1.3 Installation Procedure

Once TE/MS-DOS 4.01 is installed, install TE/MS-OS/2 1.3:

1 to 6

These steps are identical to those described for the installation of TE/MS-OS/2 1.30 alone, refer to Sub-section 1.2-2.

7 and 8

These steps are not shown as the hard disk was already formatted when TE/MS-DOS 4.01 was installed.

9

When prompted by the terminal, remove the INSTALLATION A diskette from the drive and insert Diskette 1 into the drive and press <Enter>.

10

This step is not displayed.

11

Select an option.

1. Do not format the partition
2. Format the partition

Warning: Always select 1 when the above screen is displayed.

12 to 26

These steps are identical to the ones described for the installation of TE/MS-OS/2 1.3 alone as described in Sub-section 1.2-2.

27

This step should not be performed as the hard disk was partitioned by the TE/MS-DOS 4.01 Operating System.

1.3-4 Changing Between Operating Systems

From OS/2 --> DOS

There are two different ways of changing from OS/2 to DOS:

- Under Presentation Manager, click on "Load DOS" in the Utilities group menu, then reboot the system,
- In an OS/2 full-screen session, type `BOOT /DOS`, then reboot the system.

From DOS --> OS/2

- Type the command:

`C:\OS2\BOOT\OS2`

Press <Enter> to confirm, then reboot the system.



Sub-Section	Page
2.1 First Installation of Standard TE/DR-DOS 5.0 Only	2/2
2.1-1 Before Starting	2/2
2.1-2 Standard Installation Procedure	2/2
<hr/>	
2.2 First Installation of Multilanguage TE/DR-DOS 5.0 Only	2/7
2.2-1 Before Starting	2/7
2.2-2 Multilanguage Installation Procedure	2/7
2.2-3 Installing Other Languages	2/8
<hr/>	
2.3 First Installation of TE/MS-OS/2 1.3 Only	2/9
2.3-1 Before Starting	2/9
2.3-2 Installation Procedure	2/9
<hr/>	
2.4 First Installation of TE/DR-DOS 5.0 and TE/MS-OS/2 1.3	2/10
2.4-1 Before Starting	2/10
2.4-2 TE/DR-DOS 5.0 Installation Procedure	2/10
2.4-3 TE/MS-OS/2 1.3 Installation Procedure	2/11
2.4-4 Changing Between Operating Systems	2/12

2.1 First Installation of Standard TE/DR-DOS 5.0 Only

2.1-1 Before Starting

Check that you have the following:

- 3 TE/DR-DOS 5.0, 3 1/2" diskettes and an FTX 417 Utilities diskette,
- 1 TE/DR-DOS 5.0 User's Guide.

2.1-2 Standard Installation Procedure

- 1- Insert the INSTALLATION diskette in drive A and power-up the notebook.
- 2- When the question below is displayed, answer N to continue the installation procedure:

```
Welcome to TE/DRDOS 5.0 installation program V1.0
You may also quit this program to return under the TE/DRDOS prompt.
Do you want to abort the installation now (Y/N) ? [N]
```

- 3- The following screen is displayed:

```
WARNING :
This set of floppies can be installed in either STANDARD or MULTILANGUAGE.
STANDARD installation is suitable for a single TE/DR-DOS 5.0 language.
MULTILANGUAGE allows cooperation of various national versions of
TE/DRDOS 5.0.
MULTILANGUAGE is suitable only if you purchased more than one national
version of TE/DRDOS 5.0. In order to cooperate, all of these national
versions must then be installed in MULTILANGUAGE.
Do you want to installer multi language (Y/N) ? [N]
```

Answer N

- 4- The welcome menu is displayed, this menu reminds the user of useful keys:

```
Welcome to the DR DOS installation program
It automatically installs DR DOS on your hard disk or on to diskette.
You can obtain help for each option and entry field.
Press F1 once the option is highlighted or when
the cursor is in the appropriate field.
You will need to use the following keys:
- <Enter> to select an option and move to the next
  screen, or to exit a data entry field.
- Cursor up and down, or Tab Key to move between the
  options.
- <ESC> to return to the previous screen.
- F10 to exit the installation program and return
  to DR DOS
```

Press <Enter> to continue.

- 5- At this point, the installation procedure calls-up the FDISK command described in detail in Sub-section 6.2. The description provided here applies to a user requiring a single 40 Mb partition (the selection recommended by Telemecanique). To create other types of partitions, refer to the complete description of the FDISK command (refer to Sub-section 6.2). The following screen is displayed:

```
This hard disk is not prepared or contains
no DOS partition

Do you want to run FDISK to prepare the hard disk?

 No
 Yes
```

Choose Yes, then press <Enter> to confirm.

Note: If the hard disk was already formatted, the Installation program will not display step 5 and will proceed directly to step 12.

- 6- The following message is displayed:

```
Sector zero of hard disk 1 does not have boot sector identification.
Initialize the hard disk [Y/N]?
```

Answer Y

- 7- The next screen displays the following options:

```
Choose an option:
1) Create a DOS partition
2) Delete a DOS partition
3) Select a bootable partition
```

Select option 1, create a DOS partition.

- 8- The next screen displays the following options:

```
Choose an option:
1) Create a primary DOS partition
2) Create an extended DOS partition
3) Create a logical drive in the extended partition
```

Select option 1, create a primary DOS partition.

9- The following question is displayed:

Use cylinders 0-975 for DOS (40.5 Mb) (Y/N)?

Answer Y

The program will start to partition the disk. Once this is complete, enter the name of the logical drive (up to 11 characters max.), then press <Enter> to confirm.

10-The next screen displayed lets the user choose an option:

Choose an option:

- 1) Create a Primary DOS Partition
- 2) Create an extended DOS Partition
- 3) Create a logical drive in an extended DOS partition

Choose Option 1 to create a primary DOS partition.

11-The next screen displayed lets the user choose an option:

Choose an option:

- 1) Create a DOS partition
- 2) Delete a DOS partition
- 3) Select a bootable partition

Choose Option 3 and bootable partition 1, press <Enter> to confirm the choice,

Press <Esc> twice to continue the installation procedure.

Press any key to reboot the system (do not remove the Installation diskette).

12-The installation program again prompts the user to perform operations 3 and 4. Make the same choices as before and the next screen shown below will be displayed:

Select the drive to use for
DR DOS installation:

- C: (DOS on the hard disk)
- A: (Diskette drive)

Press <Enter> to confirm selection of drive C:

13-The next screen displayed lets the user choose an option:

- Maximum memory for applications and reduce performance
- Balance application memory and performance level
- Maximum performance and features with reduced application memory.

Choose Balance application memory and performance level and press <Enter> to confirm.

14- The next screen displayed lets the user choose the Country and Keyboard.

Choose "Accept selected values", (or if necessary modify the selections depending on your keyboard) and press <Enter> to confirm.

15- The next screen displayed lets the user choose the Screen and Mouse.

Choose "Accept the combination and continue", and press <Enter> to confirm.

16- The next screen displayed prompts the user to replace DOS files.

<input type="checkbox"/> Don't replace DOS files <input checked="" type="checkbox"/> Replace DOS files on the target disk
--

Choose replace DOS files and press <Enter> to confirm.

17- The next screen is displayed:

<input type="checkbox"/> Ignore the configuration and proceed to installation <input checked="" type="checkbox"/> Continue configuration

Press <Enter> to continue configuration.

18- The next screen displayed prompts the user to accept C:\DRDOS as the target directory for TE/DR-DOS, press <Enter> to confirm.

19- The next screen displayed prompts the user to accept C:\DRDOS as the path for access to commands and data. Press <Enter> to confirm.

20- The next screen displayed lets the user choose an option:

- Extended display (ANSI.SYS) NO
- Support GRAFTABL display NO
- Change code pages NO
- Reload DR DOS kernel (HIDOS.SYS) YES <-- to modify (*)
- Reload data fields NO

(*) Press the Cursor Up key twice to accept the DR DOS kernel reload parameter and press N and confirm the selection by pressing the <Enter> key three times.

21- The next screen displayed lets the user choose an option:

- Support virtual disk (VDISK.SYS) NO
- Support Fastopen YES
- Support file sharing (SHARE.EXE) NO
- Support memory cache (CACHE.EXE) NO

Press <Enter> to confirm.

22-The next screen prompts the user to accept the value 512 for the FASTOPEN parameter. Press <Enter> to confirm.

23-The next screen displayed lets the user choose an option:

- **BREAK** **ON**
- **LAST DRIVE** **E**
- **VERIFY** **OFF**
- **HISTORY** **ON**
- **ENVIRONMENT SIZE** **512**

Press <Enter> to confirm.

24-The next screen displayed lets the user choose an option:

- **HISTORY buffer size** **256**
- **INSERT MODE** **OFF**

Press <Enter> to confirm.

25-The next screen displayed lets the user choose an option:

- **BUFFERS** **15**
- **FILES** **20**
- **FCBS** **4**

Press <Enter> to confirm.

26-The next screen displayed prompts the user to accept \$P\$G as the format for the PROMPT command. Press <Enter> to confirm.

27-The configuration procedure is complete. Press <Enter> to confirm.

28-When the message: *Inert Utilities disk in drive A* is displayed, remove the INSTALLATION diskette from the drive and insert the UTILITIES diskette. Press <Enter> to confirm.

29-When the message: *Insert the ViewMAX disk in drive A* is displayed, remove the UTILITIES diskette from the drive and insert the VIEWMAX diskette. Press <Enter> to confirm.

30-When the End of Installation message is displayed, remove the VIEWMAX diskette from the drive.

31-When the FTX 417 Utilities installation message is displayed:

- Insert the FTX 417 Utilities diskette,
- Type the command a:\install and press <Enter> to confirm,
- Once installation is complete, remove the Utilities diskette.

32-Reboot the system by pressing <Control> <Alt> .

2.2 First Installation of Multilanguage TE/DR-DOS 5.0 Only

2.2-1 Before Starting

Check that you have the following:

- 3 TE/DR-DOS 5.0, 3 1/2" diskettes and an FTX 417 Utilities diskette,
- 1 TE/DR-DOS 5.0 User's Guide.

2.2-2 Multilanguage Installation Procedure

- 1- Insert the INSTALLATION diskette in drive A and power-up the notebook.
- 2- To the question displayed below, answer N to continue installation:

```
Welcome to TE/DRDOS 5.0 installation program V1.0.  
You may also quit this program to return under the TE/DRDOS prompt.  
Do you want to abort the installation now (Y/N) ? [N]
```

- 3- The screen below is displayed:

```
WARNING :  
This set of floppies can be installed in either STANDARD or MULTILANGUAGE.  
STANDARD installation is suitable for a single TE/DRDOS 5.0 language.  
MULTILANGUAGE allows cooperation of various national versions of  
TE/DRDOS 5.0.  
MULTILANGUAGE is suitable only if you purchased more than one national  
version of TE/DRDOS 5.0. In order to cooperate, all of these national  
versions must then be installed in MULTILANGUAGE.  
Do you want to install multi language (Y/N) ? [N]
```

Answer Y

4 to 11

These steps are identical to those described for the standard installation procedure.

12

At the start of this step, the screen above is displayed again. Confirm the multilanguage selection by answering Y.

13 to 32

These steps are identical to those described for the standard installation procedure.

2.2-3 Installing Other Languages

Once the first language is installed, insert the INSTALLATION diskette for the second language and reboot the system by pressing <Control> <Alt> and .

A new screen, similar to that shown on the previous page is then displayed in the appropriate language, once again select the multilanguage installation procedure.

The following steps are identical to those described for the installation of the first language, except:

- **5 to 12**

These steps are not displayed as the hard disk was formatted and portioned when the first language was installed.

- **14**

Warning: By default, installation of each language prompts the user to select a keyboard specific to each language. Where required, change this selection to match the actual keyboard used.

- **18 A** after step 18, the following screen is displayed:

The following files will be overwritten?:

C:\CONFIG.SYS

C:\AUTOEXEC.BAT

C:\DRDOS\VIEWMAX.CFG

Save them?

No

Yes

Answer YES (for the first additional language installed and NO for all subsequent languages installed).

- **18 B** The following screen is displayed:

By default, files are saved to?:

C:\CONFIG.OLD

C:\AUTOEXEC.OLD

C:\DRDOS\VIEWMAX.OLD

Place the cursor on a filename and enter a new file name if necessary.

Accept current values and continue.

Press <Enter>

Installation of additional languages follows the same procedure.

When using the Operating Systems, the language is selected in the Notebook SETUP routine.

Important

When installing each additional language, always select multilanguage installation. Selecting a standard installation would delete all of the other language combinations previously installed.

2.3 First Installation of TE/MS-OS/2 1.3 Only

2.3-1 Before Starting

Check that you have the following:

- 11 TE/MS-OS/2 1.3, 3 1/2" diskettes,
- 1 FTX 417 Utilities diskette,
- 1 TE/MS-OS/2 1.3 User's Guide.

2.3-2 Installation Procedure

The installation of TE/MS-OS/2 1.3 on a Notebook system is identical to the installation procedure described in Sub-section 1.2.

Once TE/MS-OS/2 1.3 is installed, install the FTX 417 utilities:

- Start a full-screen OS/2 session,
- Insert the FTX 417 Utilities diskette,
- Type the command `a:\install` and press <Enter> to confirm.

2.4 First Installation of TE/DR-DOS 5.0 and TE/MS-OS/2 1.3

Warning:

It is essential that the various operations required to install the operating systems be performed in the order in which they are described in the installation procedures:

- TE/DR-DOS 5.0 standard or multilanguage installation, as appropriate,
- TE/MS-OS/2 1.3 installation.

Any reinstallation or installation of a new TE/DR-DOS 5.0 operating language requires reinstalling the TE/MS-OS/2 1.3 Operating System.

2.4-1 Before Starting

Check that you have:

- 3 TE/DR-DOS 5.0, 3 1/2" diskettes,
- 11 TE/MS-OS/2 1.3, 3 1/2" diskettes,
- 1 FTX 417 Utilities diskette,
- 1 TE/DR-DOS 5.0 User's Guide,
- 1 TE/MS-OS/2 1.3 User's Guide.

2.4-2 TE/DR-DOS 5.0 Installation Procedure

The installation procedure for TE/DR-DOS 5.0 is identical to that described in Sub-section 2.1 when standard installation is selected or Sub-section 2.2 when multilanguage installation is selected.

2.4-3 TE/MS-OS/2 1.3 Installation Procedure

Once TE/DR-DOS is installed, proceed with the installation of TE/MS-OS/2 1.3:

1 to 6

These steps are identical to those described for the installation of TE/MS-OS/2 1.3 only, refer to Sub-section 1.2-2.

7 and 8

These steps are not displayed as the hard disk was formatted when TE/DR-DOS was installed.

9

When prompted by the terminal, remove the Installation A diskette from the drive and insert Diskette 1 in the drive then press <Enter> to confirm.

10

This step is not displayed.

11

<p>Select an option. 1. Do not format the partition 2. Format the partition</p>

Warning: Choose option 1, when the above screen is displayed:

12 to 26

These steps are identical to those described for installing TE/MS-OS/2 1.3 only, refer to Sub-section 1.2-2.

27

This step should not be performed as the hard disk was partitioned by the TE/DR-DOS Operating System.

2.4-4 Changing Between Operating Systems

From OS/2 --> DOS

There are two different ways of changing from OS/2 to DOS:

- Under Presentation Manager, click on "Load DOS" in the Utilities group menu, then reboot the system,
- In an OS/2 full-screen session, type `BOOT /DOS`, then reboot the system.

From DOS --> OS/2

- Type the command:

```
C:\OS2\BOOT/OS2
```

Press <Enter> to confirm, then reboot the system.



Sub-Section	Page
3.1 General	3/2
3.2 Reinstalling TE/MS-DOS 4.01 Only	3/2
3.3 Reinstalling TE/MS-OS/2 1.3 Only	3/3
3.4 Reinstalling TE/MS-DOS 4.01 and TE/MS-OS/2 1.3	3/4
3.4-1 Reinstalling TE/MS-DOS 4.01	3/4
3.4-2 Reinstalling TE/MS-OS/2 1.3	3/4
3.5 Reinstalling TE/DR-DOS 5.0 Installed Alone	3/5
3.5-1 Reinstalling Standard TE/DR-DOS 5.0 Over Standard TE/DR-DOS 5.0	3/5
3.5-2 Reinstalling Standard TE/DR-DOS 5.0 Over Multilanguage TE/DR-DOS 5.0	3/6
3.5-3 Reinstalling Multilanguage TE/DR-DOS 5.0 Over Standard TE/DR-DOS 5.0	3/6
3.5-4 Reinstalling Multilanguage TE/DR-DOS 5.0 Over Multilanguage TE/DR-DOS 5.0	3/6
3.6 Reinstalling TE/DR-DOS 5.0 and TE/MS-OS/2 1.3	3/7
3.6-1 Reinstalling TE/DR-DOS 5.0	3/7
3.6-2 Reinstalling TE/MS-OS/2 1.3	3/7

3.1 General

Reinstallation of an Operating System may be required in one of the following situations:

- Damaged Operating System that is no longer fully functional,
- Adding a language when a multi-language Operating System is used,
- Modification to the partitioning of the hard disk.

In all cases, it is recommended that the user first back-up their applications and data and make a copy of the CONFIG.SYS and AUTOEXEC.BAT files on diskette.

When a hard disk is repartitioned, all of the applications and data stored on it will be erased. The reinstallation procedure in this case is similar to the new installation procedure.

For information on how to update an Operating System, refer to Section 4.

3.2 Reinstalling TE/MS-DOS 4.01 Only

The reinstallation procedure is identical to that described in Sub-section 1.1.

As the hard disk is already formatted, the installation procedure is performed starting from step 5.

Once the installation is complete, a screen is displayed to inform the user that two configuration files (CONFIG.SYS and AUTOEXEC.BAT) were created with a ". 400" extension.

This new installation does not affect the CONFIG.SYS and AUTOEXEC.BAT files left from the previous installation. For the new configuration files to become operational, the following must be performed:

- Reboot the system (by pressing the <Control> <Alt> and keys),
- Copy CONFIG.400 to CONFIG.SYS,
- Copy AUTOEXEC.400 to AUTOEXEC.BAT.

3.3 Reinstalling TE/MS-OS/2 1.3 Only

Warning

If the X-TEL or MINI X-TEL Software Workshop is already installed in the system, the following procedure must be followed:

- Use the OS/2 editor to modify the CONFIG.SYS file and delete the C:\XPROSYS\FONTDLL path from the LIBPATH=..... line,
- Reboot the system by pressing the <Control>, <Alt> and keys,
- Delete the DISPLAY.DLL file with the >DEL C:\XPROSYS\FONTDLL\DISPLAY.DLL command,
- Install TE/MS-OS/2 1.3 as described in the procedure below,
- Once TE/MS-OS/2 1.3 is installed, reinstall the X-TEL or MINI X-TEL Software Workshop and the appropriate tools.

The TE/MS-OS/2 1.3 reinstallation procedure steps are as follows:

1 to 6

These steps are identical to those described for the installation of TE/MS-OS/2 1.3 only, refer to Sub-section 1.2-2.

7 and 8

These steps are not displayed.

9

When prompted by the system, remove the INSTALLATION A diskette and insert Diskette 1 in the drive and press <Enter> to confirm.

10

These steps are not displayed.

10 b

The screen below is displayed:

<p>Select one of the following:</p> <ol style="list-style-type: none">1. Reinstall the operating system.2. Add selectable operating-system options.
--

Choose 1, and press <Enter> to confirm.

11

Choose option 1, no formatting for the partition.

12 to 26

These steps are the same as those described for the installation of TE/MS-OS/2 1.3 only, refer to Sub-section 1.2-2.

3.4 Reinstalling TE/MS-DOS 4.01 and TE/MS-OS/2 1.3

3.4-1 Reinstalling TE/MS-DOS 4.01

Before reinstalling TE/MS-DOS 4.01, it is essential to reboot the system under DOS. The installation procedure for TE/MS-DOS 4.01 is identical to that described in Sub-section 1.1-1.

Warning

Reinstalling TE/MS-DOS 4.01 destroys the TE/MS-OS/2 1.3 installation. It is therefore necessary to reinstall TE/MS-OS/2 1.3 once TE/MS-DOS 4.01 is reinstalled according to the procedure described in Sub-section 1.3-3.

3.4-2 Reinstalling TE/MS-OS/2 1.3

The reinstallation procedure is identical to that described in Sub-section 3.3.

3.5 Reinstalling TE/DR-DOS 5.0 Installed Alone

3.5-1 Reinstalling Standard TE/DR-DOS 5.0 Over Standard TE/DR-DOS 5.0

The reinstallation procedure is similar to that described in Sub-section 2.1-2 for the Standard version or Sub-section 2.2-2 for the Multilanguage version, except for steps:

5 to 11 that are not displayed as the hard disk is already formatted.

18 A after step 18, the following screen is displayed:

```
The following files will be overwritten ?:
```

```
C:\CONFIG.SYS
```

```
C:\AUTOEXEC.BAT
```

```
C:\DRDOS\VIEWMAX.CFG
```

```
Save them?
```

```
 No
```

```
 Yes
```

Answer YES,

18 B the following screen is displayed:

```
By default, files are saved in ?:
```

```
C:\CONFIG.OLD
```

```
C:\AUTOEXEC.OLD
```

```
C:\DRDOS\VIEWMAX.OLD
```

```
Place the cursor on a filename and enter  
a new filename if necessary.
```

```
 Accept current values and continue.
```

Press <Enter>

The next steps are identical to those of the normal installation procedure.

After rebooting, it is still possible to recover the old CONFIG.SYS, AUTOEXEC.BAT and VIEWMAX.CFG files, as these are retained with the names CONFIG.OLD, AUTOEXEC.OLD and VIEWMAX.OLD.

3.5-2 Reinstalling Standard TE/DR-DOS 5.0 Over Multilanguage TE/DR-DOS 5.0

Warning

The procedure for reinstalling Standard TE/DR-DOS 5.0 over an existing Multilanguage TE/DR-DOS 5.0 system will erase all previously installed TE/DR-DOS 5.0 Operating Systems and language versions.

The installation procedure is identical to that described in Sub-section 3.5-1.

3.5-3 Reinstalling Multilanguage TE/DR-DOS 5.0 Over Standard TE/DR-DOS 5.0

Warning

The procedure for reinstalling Multilanguage TE/DR-DOS 5.0 over an existing Standard TE/DR-DOS 5.0 system will erase all previously installed Standard TE/DR-DOS 5.0 Operating Systems.

The installation procedure is identical to that described in Sub-section 3.5-1 and applies to all language versions.

3.5-4 Reinstalling Multilanguage TE/DR-DOS 5.0 Over Multilanguage TE/DR-DOS 5.0

The reinstallation procedure for one language is identical to that for adding a new language.

3.6 Reinstalling TE/DR-DOS 5.0 and TE/MS-OS/2 1.3

3.6-1 Reinstalling TE/DR-DOS 5.0

Before reinstalling TE/DR-DOS 5.0, it is necessary to reboot the system under DOS. The installation procedure for TE/DR-DOS 5.0 is identical to that described in Sub-section 3.5.

Warning

Reinstalling TE/DR-DOS 5.0 or adding a new language to TE/DR-DOS 5.0 destroys the TE/MS-OS/2 1.3 installation. It is therefore necessary to reinstall TE/MS-OS/2 1.3 after TE/DR-DOS 5.0 is installed, following the same procedure as described in Sub-section 1.3-3.

3.6-2 Reinstalling TE/MS-OS/2 1.3

The reinstallation procedure is identical to the one described in Sub-section 3.3.
--



Sub-Section	Page
4.1 Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed Alone	4/2
4.1-1 Before Starting	4/2
4.1-2 Update Procedure	4/3
4.2 Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed with TE/MS-DOS 4.01	4/3

4.1 Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed Alone

4.1-1 Before Starting

To update a system to TE/MS-OS/2 1.3 requires at least 4 Mb of system RAM and at least 4 Mb of free space on the hard disk in addition to the space taken by TE/MS-OS/2 Version 1.1.

Check that you have the following:

- 11 TE/MS-OS/2 1.3, 3 1/2" diskettes,
- 1 TE/MS-OS/2 1.3 User's Guide.

Warning

If an X-TEL or MINI X-TEL Software Workshop is already installed on the system, apply the following procedure:

- Use the OS/2 editor to modify the CONFIG.SYS file and delete the path C:\XPROSYS\FONTDLL from the LIBPATH=..... line,
- Reboot the system by pressing the <Control> <Alt> keys,
- Delete the DISPLAY.DLL file with the >DEL C:\XPROSYS\FONTDLL\DISPLAY.DLL command,
- Follow the update procedure described below,
- Reinstall the X-TEL or MINI X-TEL Software Workshop and the appropriate tools.

When updating an installed TE/MS-OS/2 1.1 system with TE/MS-OS/2 1.3, it is recommended that the user select the OS/2 default colors for version 1.3, if the LCD default colors were selected for use with version 1.1.

To change the color choices, click on the "Default colors" button in the Screen Colors menu in the Control Panel to return to the default setting or specify appropriate colors for each application.

Note

When using LCD terminals, pressing a three-key combination in Setup lets the user choose different levels of grey (choice of eight palettes of levels of grey) to ensure the best possible display results (refer to the terminal documentation for further details).

4.1-2 Update Procedure

To update the system follow the steps listed below:

1 to 6

These steps are identical to those described for the installation of TE/MS-OS/2 1.3 only as described in Sub-section 1.2-2.

6A

A warning screen may be displayed if there is not enough memory space left.

7 and 8

These steps are not displayed as the hard disk was formatted when TE/MS-OS/2 1.1 was installed.

9

When prompted by the system, remove the Installation A diskette and insert Diskette 1 in the drive then press <Enter>.

10

This step is not displayed.

11

Warning: Choose 1, when the screen shown below is displayed:

<p>Select an option. 1. Do not format the partition 2. Format the partition</p>

12 to 26

These steps are identical to those described for installing TE/MS-OS/2 1.3 alone, refer to Sub-section 1.2-2.

4.2 Updating TE/MS-OS/2 Version 1.1 with Version 1.3 Installed with TE/MS-DOS 4.01

Warning

Before updating TE/MS-OS/2 1.3, it is necessary to reboot the system under DOS. Once this is done, follow the steps described in Sub-section 4.1



Sub-Section	Page
5.1 Installation & Adjustment Under TE/MS-DOS 4.01 & TE/DR-DOS 5.0	5/2
5.2 Installation & Adjustment Under TE/MS-OS/2 1.3	5/3
5.2-1 Installation	5/3
5.2-2 Adjustment	5/3

5.1 Installation & Adjustment Under TE/MS-DOS 4.01 or TE/DR-DOS 5.0

The pointing device driver is not installed when DOS is installed. It must be installed separately from the Operating System using the Installation diskette supplied with the chosen pointing device.

The procedure for installing and adjusting the sensitivity of the pointing device should be described in detail in the documentation supplied with the product.

Note:

When DOS and OS/2 are installed simultaneously, when the DOS compatibility window is used, the mouse is controlled by the OS/2 mouse driver. However when the system is booted initially under DOS, a specific DOS compatible mouse driver is required.

5.2 Installation and Adjustment Under TE/MS-OS/2 1.3

5.2-1 Installation

The pointing device driver is installed when the Operating System is installed by selecting:

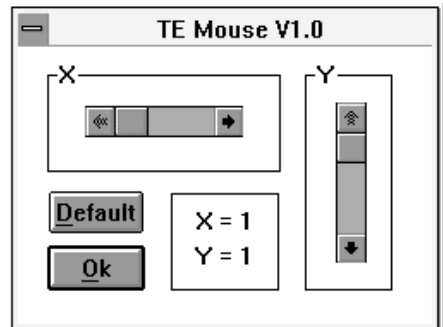
- Microsoft Mouse, PS/2 Version (056-X99) if you have a trackball or a mouse connected to the mouse port.
- Microsoft Mouse, Serial Version (039-199 or 056-X99) if you have a trackball or a mouse connected to the serial port.

5.2-2 Adjustment

To adjust the sensitivity of mouse motion use the TE MOUSE utility. This utility program is run by selecting the TE Mouse icon located in the Utilities Group.

Adjust the horizontal and vertical sensitivity using the scroll bars (1 is maximum sensitivity and 20 is minimum sensitivity), then select the OK button to confirm the selection.

The Default button lets the user return to the initial settings for the X and Y parameters. Their default settings are X=1 and Y=1.



Notes:

- It is also possible to adjust the sensitivity using the TE MOUSE command in an OS/2 full-screen window: Type TEMOUSE X Y with a value of X and Y between 1 and 20.
- The OS/2 configuration panel also lets the user perform other settings such as the double-click speed and type of mouse (left or right handed) etc.



Sub-Section	Page
6.1 FDISK Command in TE/MS-DOS 4.01	6/2
6.1-1 Introduction	6/2
6.1-2 Checking for a Configured and Formatted Disk	6/3
6.1-3 Running FDISK	6/4
6.1-4 Option 1: Creating an MS-DOS Partition or Logical MS-DOS Drive	6/5
6.1-5 Option 2: Setting the Active Partition	6/9
6.1-6 Option 3: Deleting an MS-DOS Partition	6/10
6.1-7 Option 4: Displaying Partition Information	6/13
6.1-8 Option 5: Selecting the Next Fixed Disk Drive	6/14
6.2 FDISK Command in TE/DR-DOS 5.0	6/15
6.2-1 Description	6/15
6.2-2 Command Format	6/15
6.2-3 Starting FDISK	6/16
6.2-4 Option 1: Create DOS Partition	6/17
6.2-5 Option 2: Delete DOS Partition	6/20
6.2-6 Option 3: Select Bootable Partition	6/21
6.2-7 Option 4: Display Logical Drives in Extended Partition	6/21
6.3 FDISKPM Command in TE/MS-OS/2 1.3	6/22
6.3-1 Introduction	6/22
6.3-2 Running the Hard Disk Utility Program	6/22
6.3-3 Description	6/23

6.1 FDISK Command in TE/MS-DOS 4.01

Extracted from the Microsoft MS-DOS Operating System version 4 Reference Manual.
(Document 8721-400-00-1)

6.1-1 Introduction

Hard disks can be divided into one to four separate sections, called *partitions*. Partitions separate your hard disk into individual areas, and each partition may contain a different operating system.

To prepare your hard disk for the MS-DOS Operating System, you must create a partition for MS-DOS, called a DOS partition. You can create a DOS partition on your hard disk by using a menu-driven utility called **FDISK**. You must use **FDISK** if you want to do one of the following:

- Create a primary MS-DOS partition,
- Create an extended MS-DOS partition,
- Create a logical MS-DOS drive,
- Set the active partition,
- Delete an MS-DOS partition or logical drive,
- Display partition information,
- Review or modify the configuration of another hard disk on your computer.

Warning

Reconfiguring your disk with FDISK destroys all existing files. Be sure to have a backup of all files on your disk <i>before</i> you create an MS-DOS partition with FDISK .
--

6.1-2 Checking for a Configured and Formatted Disk

Many computer vendors configure their systems for MS-DOS prior to delivery. They may also format your hard disk to start MS-DOS on power-up. To find out whether this has been done, do the following:

1. First, try to boot MS-DOS from your hard disk.
 - If it boots correctly, your hard disk is both configured and formatted, and the MS-DOS system files are already on the disk.
 - If MS-DOS does not boot, your disk is not formatted to run MS-DOS, but may have been configured.
2. If MS-DOS did not boot, check that the disk has been configured with **FDISK**. Place the MS-DOS master floppy disk in drive A and press the <Control> <Alt> keys to start MS-DOS. Then run FDISK and select the "Display Partition Information" to see if any MS-DOS partitions exist.
 - If any do exist, your disk has been configured,
 - If no partitions exist, follow the instructions in this Section to configure your disk.
3. After your hard disk is configured, be sure to format your disk with the MS-DOS **format /s** command before you copy files onto the disk. Otherwise, your files will be unreadable.

6.1-3 Running FDISK

The **FDISK** utility is easy to use because it uses menus to lead you through each procedure. To run **FDISK**, follow these steps:

1. Place the MS-DOS diskette in drive A,
2. Power-up your computer to boot MS-DOS,
3. Type the following command and press the <Enter> key:

```
fdisk
```

In response, **FDISK** displays its main menu on your screen.

• FDISK main menu

This menu lists five choices. If your computer has only one hard disk, Choice 5 will not appear on your screen.

```

                                FDISK Options
Current fixed disk drive: 1
Choose one of the following:
1.   Create DOS Partition or Logical DOS Drive
2.   Set active partition
3.   Delete DOS Partition or Logical DOS Drive
4.   Display partition information
5.   Select next fixed disk drive
Enter choice: [1]
Press Esc to exit FDISK
```

The following sections describe each of these options, and show the menus and other information they display. To return to MS-DOS from the main menu, just press the <Esc> key. You can also use the <Esc> key to return to the main menu from any of the **FDISK** menus.

Most of the **FDISK** menus display a default value. To choose the default value, press the <Enter> key. To choose another value, just type the value you want, and press the <Enter> key.

6.1-4 Option 1: Creating an MS-DOS Partition or Logical MS-DOS Drive

If you choose the first option in the main menu, and if your hard disk is not yet completely partitioned, **FDISK** displays the screen shown below. If no extended partitions exist, the third option is not displayed:

```

                Create MS-DOS Partition or Logical MS-DOS Drive
Current fixed disk drive: 1
    1.      Create Primary MS-DOS Partition
    2.      Create Extended MS-DOS Partition
    3.      Create Logical MS-DOS Drive(s) in the Extended
            MS-DOS Partition
Enter choice: [1]
Press Esc to return to FDISK Options

```

- **Selection 1: Create Primary MS-DOS Partition**

You must create a primary MS-DOS partition first before you can create any extended MS-DOS partitions on your disk. In most cases, you will need only one MS-DOS partition for your entire disk.

To create a primary MS-DOS partition, press the <Enter> key to accept the default selection (1 in this case).

The Create Primary MS-DOS Partition menu appears next:

```

                Create Primary MS-DOS Partition
Current fixed disk drive: 1
Do you wish to use the maximum available size for a Primary
MS-DOS partition and make the partition active (Y/N).....? [Y]
Press Esc to return to FDISK options

```

Creating a single MS-DOS partition

If you use your entire hard disk for MS-DOS, you will use the **FDISK** program only once to create the primary MS-DOS partition. If you want to use the entire hard disk (up to 2 gigabytes) for MS-DOS, press the <Enter> key to accept the default selection (Y).

FDISK then displays the following message:

```

System will now restart
Insert DOS diskette in drive A:
Press any key when ready ...

```

Put your MS-DOS diskette in drive A and press any key to restart MS-DOS.

Formatting your hard disk to start MS-DOS

Now that you have created your MS-DOS partition, you must format your hard disk so that MS-DOS can use it. If you want to start MS-DOS from your hard disk, remember to use the /s switch with the **format** command. For example, if you are formatting the disk in drive C and want to start MS-DOS from that disk, type the following command:

```
format c: /s
```

Creating More than One MS-DOS Partition

You may choose to create a primary MS-DOS partition smaller than the maximum size. To do this, type *N* (for No) in response to the question on the first Create Primary DOS Partition menu. **FDISK** displays a second Create Primary DOS Partition menu like the following. From this menu, you can specify the size of the primary MS-DOS partition:

```
                Create Primary MS-DOS Partition
Current fixed disk drive: 1
Total disk space is 42 Mbytes (1Mbyte = 1048576 bytes).
Maximum space available for partition is 42 Mbytes (100%).
Enter partition size in Mbytes or percent of disk space (%)
to create a Primary MS-DOS partition..... [ 42]
Press Esc to return to FDISK Options
```

The space available on your hard disk is measured in *megabytes*. This menu shows the total number of megabytes available for a hard disk partition, and prompts you to enter the size of your new partition. The default size for the partition is the maximum available space on the hard disk. Press the <Enter> key if you want the default size. Otherwise, type the size (in megabytes), or enter the percentage of the disk to use followed by a percent (%) sign. After entering the amount you want for the partition, press the <Enter> key.

Any part of the disk that you do not use for the primary MS-DOS partition may be used for an extended MS-DOS partition.

- **Selection 2: Create Extended DOS Partition**

You can use **FDISK** to create an extended partition if you want to designate one or more logical drives for the disk.

To select Create Extended DOS Partition, type 2, then press the <Enter> key. In response, **FDISK** displays a menu like this one:

```

                Create Extended DOS Partition
Current fixed disk drive: 1
Partition      Status  Type   Size in Mbytes  % of Disk Used
C: 1          PRI     DOS    21              50%
Total disk space is 42 Mbytes (1Mbyte = 1048576 bytes).
Maximum space available for partition is 21 Mbytes (50%).
Enter partition size in Mbytes or percent of disk space to
create an Extended DOS partition..... [ 21]
Press Esc to return to FDISK Options

```

This menu shows the total number of megabytes available for an extended partition. The default for the partition size is the maximum available space on the hard disk. Press the <Enter> key if you want the default. Otherwise, type the size (in megabytes), or enter the percentage of the disk to be used followed by a percent (%) sign. After entering the amount you want for the partition, press the <Enter> key.

Note

If **FDISK** finds any defective tracks at the start of the partition, it adjusts the partition boundaries to avoid those bad tracks.

- **Selection 3: Create Logical MS-DOS Drive(s) in the Extended MS-DOS Partition**

When you have created an extended partition, you must specify one or more drive letters for that area of the disk. After you create an extended partition and if you choose option 3 from the Create MS-DOS Partition menu, **FDISK** displays a menu similar to the following:

```
Create Logical MS-DOS Drive(s) in the Extended MS-DOS partition
Total MS-DOS partition space is 21 Mbytes (1 Mbyte = 1048576 bytes).
Maximum space available for logical drive is 21 Mbytes (100%).
Enter logical drive size in Mbytes or percent of disk
space (<?>)..... [ 21]
Press Esc to return to FDISK Options
```

You may designate the entire partition as one logical drive, or divide it into two or more logical drives. For example, if you want to segregate a particular application and its data files to their own drive, you may want to create a second logical drive on the partition.

Because you cannot use an MS-DOS extended partition without a drive letter, **FDISK** continues to prompt you for logical disk drive information until the whole partition has been assigned to a logical drive.

When the entire partition is assigned to logical drives, **FDISK** displays this message:

```
All available space in the Extended DOS partition is assigned
to logical drives.
```

Press <Esc> to return to the main **FDISK** menu. From there, you can restart MS-DOS, or select another option.

6.1-5 Option 2: Setting the Active Partition

If you choose the second option on the main menu, **FDISK** displays a screen showing the status of each partition on your hard disk. The *active partition*, indicated by a status of A, contains the operating system and files you access when you turn on or reset your computer. If you have created a partition on your disk with another operating system, this menu allows you to make that partition the active partition. Only one partition is active at a time; the others are not active.

For example, if you have both XENIX and DOS partitions on your disk, the Set Active Partition menu might look like this:

```

                                Set Active Partition
Current fixed disk drive: 1
Partition   Status   Type           Size in Mbytes   Percentage of
                                Disk Used
C: 1                               non DOS          21                50
   2             A     PRI DOS         21                50
Total disk space is 42 megabytes.
Enter the number of the partition you want to make
active.....: [ 1 ]
Press ESC to return to Fdisk Options

```

Type the number of the partition that you want to activate, and press the <Enter> key. The default setting is the current active partition number.

If your hard disk contains only MS-DOS partitions, only the primary MS-DOS partition can be active. If you try to activate an extended DOS partition, **FDISK** displays the following message:

```

Partition selected (3) is not startable, active partition
not changed.
Press Esc to return to FDISK Options.

```

6.1-6 Option 3: Deleting an MS-DOS Partition

If you choose the third option on the main menu, **FDISK** displays the following menu, which asks you to identify whether the partition you want to delete is a primary or extended DOS partition:

```
          Delete MS-DOS Partition or Logical MS-DOS Drive
Current fixed disk drive: 1
      1. Delete Primary DOS Partition
      2. Delete Extended DOS Partition
      3. Delete Logical DOS Drive(s) in
          the Extended DOS Partition
Enter choice: [ ]
Press Esc to return to FDISK Options
```

Type the number of the selection you want and press the <Enter> key. The next menu, whether for a primary or extended DOS partition, shows the status of that partition. When you delete a DOS partition, **FDISK** deletes the partition boundaries and any data that existed in that partition. Once you delete the partition, *you cannot recover the data that was on it.*

Note

You cannot use **FDISK** to delete a non-MS-DOS partition. Instead, to continue using MS-DOS after you have deleted the MS-DOS partition, you must put an MS-DOS program disk into drive A. To start a different operating system in another partition of your hard disk, you must change the active partition to that number *before* you delete the MS-DOS partition.

- **Selection 1: Deleting the Primary DOS Partition**

If you choose to delete the Primary DOS Partition, you must first delete all the extended MS-DOS partitions on the drive.

The Delete Primary MS-DOS Partition menu will look similar to this:

```
                Delete Primary MS-DOS Partition
Current fixed disk drive: 1
Partition Status  Type      Size in Mbytes      % of Disk Used
C: 1      A      PRI  DOS      21      50
Total disk space is 42 Mbytes (1 Mbyte = 1048576 bytes).
WARNING! Data in the deleted Primary MS-DOS Partition will be lost.
Do you wish to continue.....?      [N]
Press Esc to return to FDISK Options
```

If you do *not* want to delete the primary MS-DOS partition, press the <Enter> key to accept the default value (N).

To delete the primary DOS partition,

1. Type Y.
2. Press the <Enter> key.

- **Selection 2: Deleting the Extended DOS Partition**

If you choose to delete an extended partition, you must first delete the logical drives associated with that partition.

- **Selection 3: Deleting the Logical Drives in the Extended MS-DOS Partition**

To delete a logical drive, type 3 to select the option Delete Logical MS-DOS Drive(s) in the Extended MS-DOS Partition from the Delete MS-DOS Partition or Logical MS-DOS Drives menu. Then press the <Enter> key. **FDISK** displays a menu like the following:

```
Delete Logical MS-DOS Drives in the Extended MS-DOS Partition
Drv      Volume Label      Mbytes      System      Usage
D: 1                    9           DOS         90%
E: 2                    10          DOS         10%
Total extended partition space is 21 Mbytes
(1 Mbyte = 1048576 bytes).
WARNING! Data in the deleted Logical MS-DOS drive will be lost.
Enter drive's volume label .....?      [ ]
Press Esc to return to FDISK Options
```

Type the letter of the drive you want to delete, and press <Enter>. **FDISK** displays this message:

```
Enter drive's volume label [      ]
Are you sure (Y/N) .....? [N]
```

If this logical drive contains valuable data that you have not backed up, press <Enter>. This stops **FDISK** from deleting the logical drive.

Note

Be sure to back up all files you will need from the logical drive before you delete the drive. When **fdisk** deletes a logical drive or partition, the data is destroyed. If you are sure you want to delete the drive, type Y (for Yes).

6.1-7 Option 4: Displaying Partition Information

If you choose the fourth option from the main menu, **FDISK** displays a menu that contains information about each of the partitions on your hard disk.

For example, the Display Partition Information menu might look like this:

```

                                Display Partition Information
Current fixed disk drive: 1
Partition   Status      Type           Size in Mbytes   Percentage of
                                Disk Used
C: 1        A             PRI DOS        21                50
           2             EXT DOS        21                50
Total disk space is 42 Mbytes (1 Mbyte = 1048576 bytes).
The Extended DOS partition contains logical DOS drives.
Do you want to display logical drive information? [Y]
Press Esc to return to FDISK Options

```

This information screen identifies the partitions on your disk. It shows each partition's number, status, and type; its size in megabytes; and percentage of disk used.

If you have an extended partition, **FDISK** asks if you want to see information about that partition's logical drives. Type Y and press <Enter> to display a screen like the following:

```

                                Display Logical MS-DOS Drive Information
Drive       Volume Label   Mbytes         System          Usage
D:1         9                 9              DOS             90%
E:2         2                 21             DOS             10%
Total Extended DOS Partition size is 21 Mbytes
(1 Mbyte = 1048576 bytes)
Press Esc to return to FDISK Options

```

Press the <Esc> key to return to the main menu.

6.1-8 Option 5: Selecting the Next Fixed Disk Drive

This option appears on the **FDISK** main menu only if you have more than one hard disk attached to your computer. If you choose this option, **FDISK** changes the current disk drive to the next drive.

- **Selecting the next fixed disk drive**

For example, if the current disk drive is drive C, and if you choose option 5 on the main menu, **FDISK** changes the current disk drive to drive D. You could then choose any of the **FDISK** options (14) to prepare the second fixed disk for MS-DOS. Or, you could select option 5 once again to select the next drive. For example, if there is not a third fixed disk, **FDISK** changes the current disk drive from D back to C.

After you have selected the next drive, **FDISK** displays the main menu again. Notice that near the top of the screen, there is a line that looks something like this:

```
Current fixed disk drive: 2
```

The activity you select will be performed on the disk shown in this line.

6.2 FDISK Command in TE/DR-DOS 5.0

Extracted from the Digital Research DR DOS 5.0 User's Manual (document Nbr. 1176-2004-001).

6.2-1 Description

FDISK is a menu-driven utility which is used to divide a hard disk into partitions. Before you can use a hard disk you need to partition it. This means to define *sections* on the disk. The maximum size section or partition you can have is 512 Mbyte (you can choose to have smaller partitions if you wish). If you are preparing a hard disk for the first time you will need to prepare a special DOS partitions in which to install DR DOS. This is called the primary partition, see Create DOS primary partition later in this section.

Using FDISK you can create one primary DOS partition and one extended DOS partition, which may contain as many logical disk drives as you require. You can then pass information between DOS partitions on a hard disk as if between different drives.

For example, if the disk is divided into a primary partition and an extended partition containing two logical drives, you can address the partitions as follows:

- C: is the primary partition,
- D: is the first logical drive on the extended partition,
- E: is the second logical drive on the extended partition.

6.2-2 Command Format

FDISK [/H] [/D]

with optional switches

- /H Displays help text,
- /D Allows the deletion of an existing non-DOS partition. Use with care!

6.2-3 Starting FDISK

When you type FDISK, the current partition status of the hard disk is displayed followed by a Main Menu of options, as in the following example:

```
                FDISK V1.50 Fixed Disk Maintenance Utility
Copyright(c) 1986,1988,1990 Digital Research Inc. All rights reserved.

Partitions on 1st hard disk (20.3 Mb, 614 cylinders):
No   Drive Start End   M B   Status  Type
1    C:    0    613  20.3  A      DOS 3.0

Select options:
1) Create DOS partition
2) Delete DOS partition
3) Select bootable partition

Enter desired option: (ESC = exit) [?]
```

Note:

You only see option 4 if your hard disk contains an extended partition, and option 5 if your computer has more than one hard disk.

Press <Esc> to return to TE/DR-DOS from the Main Menu, or to return from a chosen option to the Main Menu.

The current status of the disk

As mentioned above, beneath the FDISK title line is the *current* partition status of the disk. The different items of information shown are:

- No Each partition in the disk is numbered in the order in which partitions appear on the disk, starting at 1.
- Drive The drive letter assigned to the hard disk drive, starting with C.
- Start The starting cylinder number for the partition.
- End The ending cylinder number for the partition.

MB	The size of the partition in Mbytes,
Status	Either A or N. A indicates that the partition is active, that is bootable (your computer attempts to boot from this partition if started from the hard disk). N means not active.
Type	The format of the partition. This can be DOS (for example TE/DR-DOS, Concurrent DOS or another DOS operating system) or non-DOS.

The options you can select from the Main Menu are described below:

6.2-4 Option 1: Create DOS Partition

Select this option if you are:

- Preparing a hard disk for the first time,
- Adding a new partition to a hard disk.

FDISK warns you if there is not enough space to create a new partition or if all partitions are already in use.

When you select this option, you are asked which type of partition you want to create:

Select an option:

```
Select options:
1) Create DOS primary partition
2) Create DOS extended partition
3) Create logical drive in extended partition

Enter desired option: (ESC = exit) [?]
```

Remarks:

- You can create a primary partition only when you format a hard disk for the first time and no primary partition already exists on the disk,
- You can create an extended partition only if a primary partition already exists on the disk,
- You can create a logical drive only if you have an extended partition,
- A warning message is displayed if you make an invalid selection.

① Create DOS primary partition

When you select this option you are asked if you want to use the largest available space on the hard disk (this example is for a 40.2 Mb drive):

```
Use cylinders 1 - 975 for DOS (40.2 MB) (Y/N)?
```

If you want to use all the available space, type Y to accept the default selection and press <Enter>.

If you do not want to use all the available space (for example if you want to have an additional operating system), type N and press <Enter>.

Note:

If you plan to add another operating system to the hard disk, check the size requirements for that system before you allocate space to DOS.

You are then prompted for the starting and ending cylinders:

```
[ Enter ] starting cylinder:
```

```
[ Enter ] ending cylinder:
```

You need at least 20 cylinders to run TE/DR-DOS.

If FDISK encounters a defective track on the system area of the disk, it does not create a partition. FDISK prompts you to try again with another starting cylinder number. Similarly, if there is insufficient space at a cylinder, FDISK prompts you to try another cylinder number.

If successful, the following message is displayed:

```
[ Enter ] disk label:
```

You can give the partition a label of up to eleven characters.

Once you have chosen your partition size you are returned to the Main Menu. The screen displays details of the new partition you have created. Press <Esc> to leave the FDISK program.

The partitions you create contain no program or data files so you must load the files you want into the appropriate partition. For example, you may want to load TE/DR-DOS into a partition so that you can boot the system from the hard disk. If you are using FDISK as part of the TE/DR-DOS installation procedure, the INSTALL program automatically does this for you. So when you have chosen your partition size and you are asked to reboot, simply leave your TE/DR-DOS diskette in drive A: to restart the INSTALL program.

② Create DOS extended partition

Select this option if you already have an MS-DOS primary partition and want to add another partition to your disk. You are asked to specify the starting and ending cylinders for the partition, in the same way as creating an MS-DOS primary partition. You are then returned to the Main Menu and the screen displays details of the partition you have just created.

Note:

You cannot use an extended partition until you have created one or more logical drives within it. The extended partition is not assigned a drive letter of its own.

③ Create logical drive in extended partition

Choose this option to create a logical drive in an existing extended partition. When you select it the screen displays the current status of the extended partition:

Logical drives in extended partition (8.2 Mbyte, 195 cylinders):					
No	Drive	Start	End	M B	Type
1	D:	771	785	0.6	DOS 2.0

You are then asked to specify the starting and ending cylinders for the logical drive. All logical drives must be contained completely within the extended partition. When the drive has been created you are offered the choice of creating another logical drive or returning to the Main Menu. Press <Esc> to return to the Main Menu.

6.2-5 Option 2: Delete DOS Partition

Select this option to delete a current partition.

Warning

When a partition is deleted, you can no longer access data in that partition, so use this option with care. Back up first all files held in the partition (either on diskettes or in another partition on the hard disk).

When you select this option, you are asked which type of partition you wish to delete:

```
Select option:
1) Delete DOS primary partition
2) Delete DOS extended partition
3) Delete logical drive in extended partition

Enter desired option: (ESC = exit) [?]
```

You can only choose option 2 to delete an extended partition if the partition does not contain any logical drives. If the partition you want to delete contains logical drives you must delete them first.

If you select option 1 or option 2 you are prompted to:

Type in the number of the partition you want to delete and press <Enter>, you will see:

```
Do you really want to erase all data (Y/N)?...
```

If you are ready to delete the partition, type Y and press <Enter>.

If you select option 3 the screen displays the logical drives in the extended partition before prompting you to select a drive to delete.

Deleting a non-DOS partition

To delete an existing non-DOS partition, type FDISK /D at the command line to start the FDISK utility in the normal way. The procedure is then the same as for deleting a DOS partition. If you do not specify /D at the command line, you are not allowed to delete a non-DOS partition.

6.2-6 Option 3: Select Bootable Partition

Use option 3 to select which partition on a hard disk is to be active. This is the partition containing the operating system and files you want to access when you switch on your computer. If you designate a particular partition as active, your computer searches this partition if TE/DR-DOS (that is the computer) is booted from the hard disk. Only one partition can be active at a time.

When you select this option, you are prompted to:

Select partition to make bootable.....

Type in the number of the partition you want to make active and press <Enter>.

Note

If your hard disk contains only TE/DR-DOS partitions then only the primary partition can be made active. If you try to select an extended TE/DR-DOS partition you will get an error message.

This partition now has an active status (A). The partition that was previously active is now non-active (status N).

Your computer will always try to load an operating system from drive A:. If there is no diskette in drive A: or if drive A: is not working, the computer tries to load an operating system from the active partition on the hard disk.

6.2-7 Option 4: Display Logical Drives in Extended Partition

You only see this option in the Main Menu if you have an extended partition on your disk. If you select it the screen displays the current status of the logical drives in your extended partition, for example:

Logical drives in extended partition (8.5 Mb, 205 cylinders):					
No	Drive	Start	End	M B	Type
1	D:	771	975	8.4	DOS 2.0

Option 5, Select Alternate Fixed Disk

You only see this option in the Main Menu if you have multiple hard disks on your computer. Select it to switch from one disk to another. The screen displays the current partition status of the disk as follows:

Partitions on 2nd hard disk (20.3 MB, 614 cylinders):						
No	Drive	Start	End	M B	Status	Type
1	F:	1	304	10.1	A	DOS 3.0
2	-	305	613	10.1	N	(other)

The options displayed are the same for both disks.

6.3 FDISKPM Command in TE/MS-OS/2

6.3-1 Introduction

When OS/2 is installed by itself, the user can choose between:

- 1) A predefined OS/2 partition,
- 2) Defining new partitions.

(Refer to Step 7 in Sub-section 1.2-2)

Option 1 defines a single partition that takes all of the space available on the hard disk. Option 2 lets the user create a primary partition of a specific size.

To create secondary partitions, the hard disk utility program must be run.

This utility program lets the user:

- Create an extended partition,
- Create a logical drive,
- Set the active partition,
- Delete a partition or a logical drive,
- Display information on partitions.
- Display or modify the configuration of another hard disk in the computer system.

Warning

Reconfiguring a hard disk using the hard disk utility program erases all existing files. Always ensure that all files on the hard disk are backed-up *before* creating a new partition using this utility program.

6.3-2 Running the Hard Disk Utility Program

To run the hard disk utility program, double-click on the "PM" icon for the Fixed Disk Utility located in the Utilities group.

The user can also type the FDISKPM command in a full-screen OS/2 session.

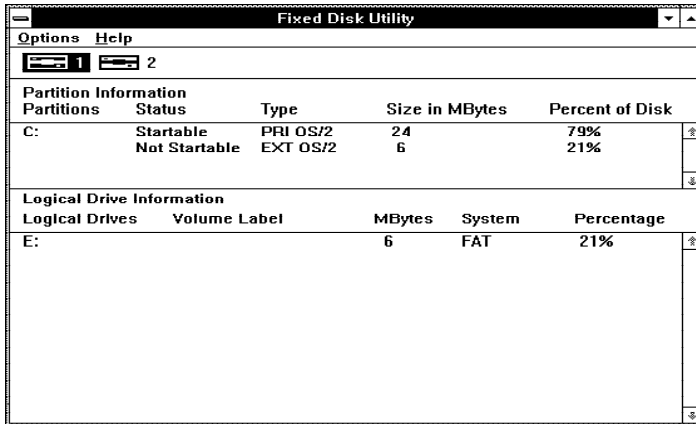
Note

The hard disk utility program can only be accessed if the "System Utilities and Options" choice was made when the Operating System was installed (Step 12 in the system installation sequence described in Sub-section 1.2-2).

6.3-3 Description

The Fixed Disk Utility program window comprises three fields:

- Hard disk icons,
- Partition Information,
- Logical Drive Information.



Each disk is shown by an icon in the upper part of the window. When the user selects a disk, the information on its partitions and logical drives is displayed in the appropriate fields.

The Partition Information field comprises the following elements:

- Partitions: OS/2 primary partition identifier,
- Status: Current partition status (active or not),
- Type: Types of partitions recognized are: Primary OS/2, Extended OS/2, HPFS OS/2, XENIX and PCIX,
- Size in MBytes: Size of the partition in Megabytes (rounded down to the next lowest Megabyte),
- Percent of Disk: Percentage of hard disk space taken by the partition (rounded to the next highest value).

The Logical Drives Information field comprises the following elements:

- Logical Drives: Logical drive ID,
- Volume Label: Logical drive volume label,
- MBytes: Size of the logical drive in Megabytes (rounded down to the next lowest Megabyte),
- System: Name of the file system used to format the logical drive,
- Percentage: Percentage of the hard disk used by the logical drive (rounded up).

To create an extended partition and one or more logical drives:

- Select the icon of the disk where the partition is to be created,
- Select "Create an Extended Partition" from the Options pull-down menu and set the partition size,
- Select "Create a Logical Drive" from the Options pull-down menu and set the logical drive size. Repeat these operations for each of the logical devices to define.

To delete a partition or a logical drive:

- First select the appropriate disk icon,
- Then select the appropriate partition or logical drive from the Partitions or Logical disks fields of the FDISKPM program window,
- Select "Delete" from the Options pull-down menu.

Warning: Each logical drive must be formatted before it is first used.



Sub-Section	Page
7.1 Warning	7/2
7.2 TE/MS-DOS 4.01 Installed Alone	7/3
7.3 Standard TE/DR-DOS 5.0 Installed Alone	7/5
7.4 Multilanguage TE/DR-DOS 5.0 Installed Alone	7/8
7.5 TE/MS-OS/2 1.3 Installed Alone	7/10
7.6 TE/MS-OS/2 1.3 Installed with TE/MS-DOS 4.01	7/14
7.7 TE/MS-OS/2 1.3 Installed with Standard TE/DR-DOS 5.0	7/16
7.8 TE/MS-OS/2 1.3 Installed with Multilanguage TE/DR-DOS 5.0	7/18
7.9 Installing PL7-1/2/3 with TE/DR-DOS 5.0	7/20
7.9-1 Hardware Installation	7/20
7.9-2 Installing and Running PL7-1 DOS for TSX 17 PLCs	7/20
7.9-3 Installing and Running PL7-2 DOS V3.0 for TSX 17 or PL7-2 DOS V3.3 for TSX 27/47	7/22
7.9-4 PL7-3 Installing and Running PL7-3 DOS V3.0	7/24
7.10 Running Telemecanique Programs with TE/MS-OS/2 1.3	7/26
7.11 Running Other Programs	7/27

7.1 Warning

The operations described in this section require a high level knowledge of Operating Systems.

Any modification to the file directory layout and to the contents of the AUTOEXEC.BAT and CONFIG.SYS files is always critical and may cause serious problems.

It is therefore always preferable, before making any changes to the directories or the contents of the files, to back-up applications and data and to always retain an unmodified working copy of the AUTOEXEC.BAT and CONFIG.SYS files on diskette. It is recommended that the various Operating System reinstallation or modification procedures be followed with care.

For a simple way to display the contents of a file, use the Type command. To modify the contents of a file, use the text editor supplied with the Operating System or an equivalent program.

Important

It is possible that the programs described in this manual may have been updated since. In this case, if despite having matching AUTOEXEC.BAT, CONFIG.SYS files and directory layout, the Operating System still does not run correctly, contact Telemecanique support.

7.2 TE/MS-DOS 4.01 Installed Alone

Operating System

What should I do if the TE/MS-DOS 4.01 Operating System does not work?

Start your system from the Installation 1 and wait for the MS-DOS prompt to appear.

- Insert the Installation 2 diskette and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.

- Check the file directory layout on the hard disk:

```
COMMAND.COM
CONFIG.SYS
AUTOEXEC.BAT
DOS                <-- System file directory
MOUSE              <-- Directory present if mouse pointing device installed
UTIL507           <-- Directory present if FTX507 utility files are installed
```

- Check the contents of the AUTOEXEC.BAT file:

```
@ECHO OFF
SET COMSPEC=C:\DOS\COMMAND.COM
VERIFY OFF
PATH C:\DOS;C:\UTIL507                <-- If FTX507 utilities installed
REM *****Mouse Setup*****
PATH=C:\MOUSE;%PATH%                  <-- Commands present when
MOUSE CENHANCE                          mouse pointing device is
REM *****                               installed
APPEND /E
APPEND C:\DOS
PROMPT $P$G
C:\DOS\GRAPHICS
VER
MODE CON CP PREP=((850) C:\DOS\EGA.CPI) <-- Specifies the type of keyboard
KEYB UK, ,C:\DOS\KEYBOARD.SYS /ID:168
CHCP 437
DOSSHELL
```

- Check the contents of the CONFIG.SYS file:

```
BREAK=ON
COUNTRY=44, ,C:\DOS\COUNTRY.SYS
BUFFERS=20
FILES=20
LASTDRIVE=E
SHELL=C:\DOS\COMMAND.COM /P /E:256
DEVICE=C:\DOS\ANSI.SYS
DEVICE=C:\DOS\DISPLAY.SYS CON=(EGA,437,1) <-- Keyboard and character
INSTALL=C:\DOS\KEYB.COM US, ,C:\DOS\KEYBOARD.SYS display
INSTALL=C:\DOS\FASTOPEN.EXE C:=(50,25)
INSTALL=C:\DOS\NLSFUNC.EXE C:\DOS\COUNTRY.SYS
```

Pointing device

What should I do if the mouse or the trackball does not work?

- Before doing anything, check that it is not a connection problem. Refer to the Questions/Answers section in the FTX 417 Terminal User's Manual.
- Check that the specific command lines for the pointing device are present in the AUTOEXEC.BAT file and that the MOUSE directory is present.
- Reinstall the pointing device.

Keyboard

What should I do when the characters displayed on-screen are not the same as the markings on the keycaps?

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the AUTOEXEC.BAT and CONFIG.SYS files are the right ones for the keyboard used.

7.3 Standard TE/DR-DOS 5.0 Installed Alone

Operating System

What should I do if the TE/DROS 5.0 Operating System doesn't work?

Start you system from the Installation 1 and wait for the DR-DOS prompt to appear.

- Insert the Installation 2 diskette and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.
- Check the file directory layout on the hard disk:

```
DRDOS           <-- System file directory
MOUSE           <-- Directory present when a pointing device is installed
TE_TOOLS        <-- TE Utilities directory
COMMAND.COM
CONFIG.SYS
SETUP4.MSG
SETUP2.MSG
SETUP3.MSG
AUTOEXEC.BAT
```

- Check the contents of the AUTOEXEC.BAT file:

```
@ECHO OFF
REM The DRDOSBEG and DRDOSEND labels
REM tell the SETUP program which statements
REM it should process. Put any additional
REM statements for DR DOS between two labels.
REM Any other statements e.g. for other
REM operating systems should be placed outside
REM the labels.
:DRDOSBEG
PATH C:\DRDOS;C:\TE_TOOLS
REM *****Mouse Setup*****
PATH=C:\MOUSE;%PATH%           <-- Commands present when a
MOUSE CENHANCE                 pointing device is
REM *****                   installed
KEYB UK+           <-- Specifies the type of keyboard
VERIFY OFF
PROMPT $P$G
MEMMAX -U -L >NUL
:DRDOSEND
```

-
- Check the contents of the CONFIG.SYS file:

```
CONFIG.SYS
SHELL=C:\DRDOS\COMMAND.COM C:\DRDOS /P /E:256
BREAK=OFF
BUFFERS=8
FILES=10
FCBS=2,2
FASTOPEN=0
LASTDRIVE=E
HISTORY=OFF
COUNTRY=044,,C:\DRDOS\COUNTRY.SYS
HIDOS=OFF
```

How do I modify the installation characteristics?

Using the DR-DOS SETUP command. This command calls-up a Welcome screen similar to the one displayed when the system is first installed (refer to Step 4 in Sub-section 2.1-2), press <Enter> to confirm.

The program lets the users successively access steps **12**, **13** and **14** (refer to Sub-section 2.1-2).

Then displays the following screen:

The following files will be overwritten?:

C:\CONFIG.SYS
C:\AUTOEXEC.BAT

Save them?

No
 Yes

Answer No,

The next steps are identical to steps **18** to **23** described in Sub-section 2.1-2.

A final screen is displayed to show that the update is complete, press <Enter> to quit the program.

Pointing device

What should I do if the mouse or the trackball does not work?

- Before doing anything, check that it is not a connection problem. Refer to the Questions/Answers section in the FTX 417 Terminal User's Manual.
- Check that the specific command lines for the pointing device are present in the AUTOEXEC.BAT file and that the MOUSE directory is present.
- Reinstall the pointing device.

Keyboard

What should I do when the characters displayed on-screen are not the same as the markings on the keycaps?

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the AUTOEXEC.BAT and CONFIG.SYS files are the right ones for the keyboard used.

7.4 Multilanguage TE/DR-DOS 5.0 Installed Alone

Operating System

What should I do if the TE/DROS 5.0 Operating System doesn't work?

Start your system from the Installation 1 and wait for the MS-DOS prompt to appear.

- Insert the Installation 2 diskette and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.

- Check the file directory layout on the hard disk:

```
DRDOS
FRA      <-- Directory for French DR-DOS
USA      <-- Directory for English DR-DOS
GER      <-- Directory for German DR-DOS
ITA      <-- Directory for Italian DR-DOS
SPA      <-- Directory for Spanish DR-DOS
MOUSE    <-- Directory present when a pointing device is installed
TE_TOOLS      <-- Directory for FTX 417 Utilities
COMMAND.COM
CONFIG.SYS
SCONFIG.SYS
SETUP4.MSG
SETUP2.MSG
SETUP3.MSG
AUTOEXEC.BAT
SAUTOEXE.BAT
```

- Check the contents of the AUTOEXEC.BAT file:

```
AUTOEXEC.BAT
SAUTOEXE.BAT
@ECHO OFF
REM The DRDOSBEG and DRDOSEND labels
REM tell the SETUP program which statements
REM it should process. Put any additional
REM statements for DR DOS between two labels.
REM Any other statements e.g. for other
REM operating systems should be placed outside
REM the labels:
DRDOSBEG
PATH C:\DRDOS;C:\TE_TOOLS
REM *****Mouse Setup*****
PATH=C:\MOUSE;%PATH%          <-- Commands present when
MOUSE CENHANCE                 a pointing device is
REM *****                    installed
REM the next line is part of the multilanguage system. Do not delete
CALL C:\SAUTOEXE.BAT
VERIFY OFF
PROMPT $P$G
MEMMAX -U -L >NUL
:DRDOSEND
```

- Check the contents of the SAUTOEXE.BAT file:

PATH = C:\USA;%PATH% <-- *When English is chosen, USA is replaced with FRA,GER, ITA, or SPA depending on the language version selected.*

- Check the contents of the CONFIG.SYS file:

```
SHELL = C:\DRDOS\COMMAND.COM C:\DRDOS /E:512 /P
BREAK=ON
BUFFERS=15
FILES=20
FCBS=4,4
FASTOPEN=512
LASTDRIVE=E
HISTORY=ON, 256, OFF
COUNTRY=044,,C:\DRDOS\COUNTRY.SYS
HIDOS=OFF
REM the next line is part of the multilanguage system. Do not delete
CHAIN = C:\SCONFIG.SYS
```

- Check the contents of the SCONFIG.SYS file:

```
SCONFIG.SYS
SHELL = C:\USA\COMMAND.COM C:\USA /E:512 /P<-- When English is chosen, USA is replaced with FRA,GER, ITA, or SPA depending on the language version selected.
```

Multilanguage principles:

When the SETUP menu in the notebook is used to select a new operating language, the notebook copies the SAUTOEXE.BAT, SCONFIG.SYS and COMMAND.COM files located in the appropriate language directory (e.g. USA for English) to the root directory where they determine the operating language of DR-DOS.

If the multilanguage system does not operate correctly for some languages, check that these languages were correctly installed: The specific directory for the language must contain the DR-DOS files and the SAUTOEXE.BAT, SCONFIG.SYS and COMMAND.COM files for that language.

Pointing device

What should I do if the pointing device does not work?

Refer to Sub-section 7.3.

Keyboard

What should I do when the characters displayed on-screen are not the same as the markings on the keycaps?

Refer to Sub-section 7.3.

7.5 TE/MS-OS/2 1.3 Installed Alone

Operating System

What should I do if the TE/MS-OS/2 1.3 Operating System doesn't work?

Start your system from the Installation diskette and wait for the OS/2 prompt to appear.

- Insert diskette 1 and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.

- Check the file directory layout on the hard disk:

```
OS2          <DIR> <--   Sensitivity setting utilities
SPOOL       <DIR>
TE_TOOLS    <DIR> <--   FTX 417 Utilities
STARTUP.COM
TEMOUSE.EXE <--   Pointing device sensitivity setting utilities
BASEDD01.SYS
DISK.TSD
STDDISK.VSD
ESDI-506.BID
ABIOS.BID
IORUN.SYS
IOS1X.SYS
IOCFG01.SYS
FLOPPY01.SYS
AUTOEXEC.BAT
CONFIG.SYS
SISTRT.AQW
FATCACHE.VSD
FT.VSD
COMMAND.COM                                <--   Compatibility box
```

- Check the contents of the AUTOEXEC.BAT file:

```
PATH C:\OS2;C:\OS2\SYSTEM
APPEND C:\OS2;C:\OS2\SYSTEM
SET COMSPEC=C:\OS2\COMMAND.COM
CALL HELP ON
```

<-- *Compatibility box*

- Check the contents of the CONFIG.SYS file:

```

PROTSHELL=C:\OS2\PMShell.EXE C:\OS2\OS2.INI C:\OS2\OS2SYS.INI
C:\OS2\CMD.EXE
SET COMSPEC=C:\OS2\CMD.EXE
LIBPATH=C:\OS2\DLL;C:\OS2\SUPPORT;C:\;
SET PATH=C:\OS2;C:\OS2\SYSTEM;C:\OS2\INSTALL;C:\OS2\SUPPORT;C:\;
SET DPATH=C:\OS2;C:\OS2\SYSTEM;C:\OS2\INSTALL;C:\;
SET PROMPT=$i[$p]
SET HELP=C:\OS2\HELP
BUFFERS=30
DISKCACHE=64
MAXWAIT=3
MEMMAN=SWAP,MOVE,SWAPDOS
PROTECTONLY=NO
SWAPPATH=C:\OS2\SYSTEM 512
THREADS=128
COUNTRY=044,C:\OS2\SYSTEM\COUNTRY.SYS
DEVINFO=SCR,VGA,C:\OS2\VIOTBL.DCP
SET VIDEO_DEVICES=VIO_IBMVGA
SET VIO_IBMVGA=DEVICE(BVHVGA)
DEVICE=C:\OS2\POINTDD.SYS
DEVICE=C:\OS2\MSPS201.SYS
DEVICE=C:\OS2\MOUSE.SYS TYPE=MSPS2$ <-- Commands present
DEVICE=C:\OS2\PMDD.SYS <-- if a pointing device
SET KEYS=ON <-- is installed
DEVICE=C:\OS2\SUPPORT\STDCDROM.VSD
DEVICE=C:\OS2\SUPPORT\DENON.VSD
DEVICE=C:\OS2\SUPPORT\CDROM.TSD
IFS=C:\OS2\SUPPORT\CDFS.IFS
RUN=C:\OS2\SUPPORT\LOGWRITE.EXE
SET BOOKSHELF=C:\OS2\BOOK
SHELL=C:\OS2\COMMAND.COM /P
BREAK=OFF
FCBS=16,8
RMSIZE=640
DEVICE=C:\OS2\EGA.SYS
DEVICE=C:\OS2\DOS.SYS
DEVINFO=KBD,UK186,C:\OS2\KEYBOARD.DCP <-- Type of keyboard
CODEPAGE=850,437 <-- Display

```

How should I modify installation parameters?

The procedure for modifying an installation is similar to the initial procedure used when installing the Operating System (refer to Sub-section 1.2):

1 to 6

These steps are identical to those described for the installation of TE/MS-OS/2 1.30 only. Refer to Sub-section 1.2-2.

7 and 8

These steps are not displayed.

9

When prompted by the system, remove the Installation A diskette and insert Diskette 1 in the drive and press <Enter> to confirm.

10 to 11

These steps are not displayed.

12

The following screen is displayed:

Select one of the following:

1. Reinstall the operating system.
2. Add selectable operating system options.

Choose 2, then press <Enter> to confirm.

The screen displayed is the one described in step 12, Sub-section 1.2-2: "Selective Operating System Installation". Select the required options to add.

13 to 26

Depending on the options selected, the installation program will prompt the user to insert one or more installation diskettes. Follows the prompts that are displayed on-screen and when the installation procedure is complete, press <Ctrl> <Alt> to restart the system and take into account the modifications made.

Note: The OS/2 configuration panel lets the user add fonts and printer drivers.

Pointing device**What do I do if the mouse or the trackball does not work?**

Before doing anything, check that it is not a connection problem. Refer to the Questions/Answers section in the FTX 417 Terminal User's Manual.

If no mouse driver is installed or if the mouse driver does not correspond to the mouse used, perform the following operations:

Modify or add the following command lines to the CONFIG.SYS file:

- For a mouse connected to the mouse port:
`Device=C:\OS2\POINTDD.SYS`
`Device=C:\OS2\MSPS201.SYS`
`Device=C:\OS2\MOUSE.SYS TYPE=MSPS2$`
- For a mouse connected to the serial port:
`Device=C:\OS2\POINTDD.SYS`
`Device=C:\OS2\MSSER01.SYS MODEL=199`
`Device=C:\OS2\MOUSE.SYS TYPE=MSSER$`

Unpack and copy the mouse driver located on diskette 2.

```
Unpack A:\MSPS201.SY@ C:\OS2
and                                     for a mouse connected to the mouse port
Unpack A:\MOUSE.SY@ C:\OS2
Unpack A:\MSSER01.SY@ C:\OS2
and                                     for a mouse connected to a serial port
Unpack A:\MOUSE.SY@ C:\OS2
```

Keyboard**What do I do when the characters displayed on-screen are not the same as the markings on the keycaps?**

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the CONFIG.SYS file are the right ones for the keyboard used.

Compatibility box**What should I do if the compatibility box is missing?**

- Check that the COMMAND.COM file is present in the root directory,
- Check the contents of the AUTOEXEC.BAT file.

7.6 TE/MS-OS/2 1.3 Installed with TE/MS-DOS 4.01

What should I do if the TE/MS-OS/2 1.3 or TE/MS-DOS 4.01 Operating System does not work?

Start your system from the Installation diskette and wait for the DOS prompt to appear.

- Insert the Installation 2 diskette and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.
- Check the file directory layout on the hard disk:

```
COMMAND.COM
SPOOL
STARTUP.COM
DOS
OS2
UTIL507          <-- Directory present when FTX507 Utilities are installed
MOUSE            <-- Directory present when the pointing device
                  is installed under DOS
TEMOUSE.EXE
BASEDD01.SYS
DISK.TSD
STDDISK.VSD
ESDI-506.BID
ABIOS.BID
IORUN.SYS
IOS1X.SYS
IOCFG01.SYS
FLOPPY01.SYS
AUTOEXEC.BAT
CONFIG.SYS
SISTR.AQW
FATCACHE.VSD
FT.VSD
```

- Check the contents of the AUTOEXEC.BAT file (under DOS):

Refer to Sub-section 7.2.

- Check the contents of the CONFIG.SYS file (under DOS):
Refer to Sub-section 7.2.
- Check the contents of the AUTOEXEC.BAT file (under OS/2):

```
PATH C:\OS2;C:\OS2\SYSTEM
APPEND C:\OS2;C:\OS2\SYSTEM
SET COMSPEC=C:\OS2\COMMAND.COM
CALL HELP ON
COPY C:\OS2\COMMAND.COM C:\ >NUL
```

- Check the contents of the CONFIG.SYS file (under OS/2):
Refer to Sub-section 7.5.

Pointing device

What should I do if the mouse or pointing device does not work?

Under OS/2 --> Refer to Sub-section 7.5,
Under DOS --> Refer to Sub-section 7.2.

Keyboard

What do I do when the characters displayed on-screen are not the same as the markings on the keycaps?

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the CONFIG.SYS file are the right ones for the keyboard used.

Compatibility box

What should I do if the compatibility box is missing?

- Check that the COMMAND.COM file is present in the root directory,
- Check the contents of the AUTOEXEC.BAT file.

7.7 TE/MS-OS/2 1.3 Installed with Standard TE/DR-DOS 5.0

What should I do if the TE/MS-OS/2 1.3 or Standard TE/DR-DOS 5.0 Operating Systems do not work?

Start your system from the Installation diskette and wait for the DOS prompt to appear.

- Insert the installation diskette and run CHKDSK on drive C:
If the system indicates lost clusters on the disk, back-up your data and reinstall the Operating System.
- Check the file directory layout on the hard disk:

```
DRDOS           <-- System file directory
MOUSE           <-- Directory present when a pointing device is installed
TE_TOOLS        <-- FTX 417 Utilities directory
COMMAND.COM
CONFIG.SYS
SETUP4.MSG
SETUP2.MSG
SETUP3.MSG
AUTOEXEC.BAT
COMMAND.COM
SPOOL
STARTUP.CMD
OS2
  TEMOUSE.EXE
BASEDD01.SYS
DISK.TSD
STDDISK.VSD
ESDI-506.BID
ABIOS.BID
IORUN.SYS
IOS1X.SYS
IOCFG01.SYS
FLOPPY01.SYS
SISTRT.AQW
FATCACHE.VSD
FT.VSD
```

- Check the contents of the AUTOEXEC.BAT file (under DOS):
Refer to Sub-section 7.3.
- Check the contents of the CONFIG.SYS (under DOS):
Refer to Sub-section 7.3.

- Check the contents of the AUTOEXEC.BAT file (under OS/2):

```
PATH C:\OS2;C:\OS2\SYSTEM
APPEND C:\OS2;C:\OS2\SYSTEM
SET COMSPEC=C:\OS2\COMMAND.COM
CALL HELP ON
COPY C:\OS2\COMMAND.COM C:\ >NUL
```

- Check the contents of the CONFIG.SYS file (under OS/2):

Refer to Sub-section 7.5.

Pointing device

What should I do if the mouse or pointing device does not work?

Under OS/2 --> Refer to Sub-section 7.5,

Under DOS --> Refer to Sub-section 7.2.

Keyboard

What do I do when the characters displayed on-screen are not the same as the markings on the keycaps?

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the CONFIG.SYS file are the right ones for the keyboard used.

Compatibility box

What should I do if the compatibility box is missing?

- Check that the COMMAND.COM file is present in the root directory,
- Check the contents of the AUTOEXEC.BAT file under OS/2.

7.8 TE/MS-OS/2 1.3 Installed with Multilanguage TE/DR-DOS 5.0

What should I do if the TE/MS-OS/2 1.3 or Multilanguage TE/DR-DOS 5.0 Operating Systems do not work?

Start the system from the installation diskette and return to OS/2 or DOS.

- Check the file directory layout on the hard disk:
- Check the file directory layout on the hard disk:

```
DRDOS
FRA      <-- Directory for French DR-DOS
USA      <-- Directory for English DR-DOS
GER      <-- Directory for German DR-DOS
ITA      <-- Directory for Italian DR-DOS
SPA      <-- Directory for Spanish DR-DOS
MOUSE    <-- Directory present when a pointing device is installed
TE_TOOLS <-- FTX 417 Utilities directory
COMMAND.COM
CONFIG.SYS
SCONFIG.SYS
SETUP4.MSG
SETUP2.MSG
SETUP3.MSG
AUTOEXEC.BAT
SAUTOEXE.BAT
SPOOL
STARTUP.COM
OS2
  TEMOUSE.EXE
BASEDD01.SYS
DISK.TSD
STDDISK.VSD
ESDI-506.BID
ABIOS.BID
IORUN.SYS
IOS1X.SYS
IOCFG01.SYS
FLOPPY01.SYS
SISTRTR.AQW
FATCACHE.VSD
FT.VSD
```

- Check the contents of the AUTOEXEC.BAT file (under DOS):
Refer to Sub-section 7.4,
- Check the contents of the CONFIG.SYS file (under DOS):
Refer to Sub-section 7.4.

-
- Check the contents of the SAUTOEXE.BAT file (under DOS):
Refer to Sub-section 7.4,
 - Check the contents of the SCONFIG.SYS file (under DOS):
Refer to Sub-section 7.4,
 - Check the contents of the AUTOEXEC.BAT file (under OS/2):

```
PATH C:\OS2;C:\OS2\SYSTEM
APPEND C:\OS2;C:\OS2\SYSTEM
SET COMSPEC=C:\OS2\COMMAND.COM
CALL HELP ON
COPY C:\OS2\COMMAND.COM C:\ >NUL
```

- Check the contents of the CONFIG.SYS file (under OS/2):
Refer to Sub-section 7.5.

Pointing device

What should I do if the mouse or the pointing device does not work?

Under OS/2 --> Refer to Sub-section 7.5,

Under DOS --> Refer to Sub-section 7.2.

Keyboard

What should I do when the characters displayed on-screen are not the same as the markings on the keycaps?

The keyboard specified during the installation procedure is not the same as the one actually connected to the terminal. Check that the keyboard command lines in the CONFIG.SYS file are the right ones for the keyboard used.

Compatibility box

What should I do if the compatibility box is missing?

- Check that the COMMAND.COM file is present in the root directory,
- Check the contents of the AUTOEXEC.BAT file under OS/2.

7.9 Installing PL7-1/2/3 with TE/DR-DOS 5.0

7.9-1 Hardware Installation

Installing the protection key module (for PL7-2 and PL7-3)

The protection key module can be fitted in two different holders:

- A TSX SHC 02 software key module holder in the dedicated slot on the right side of the FTX 417,
- A TSX SCC 01 software key module holder connected to the FTX 417 via the LPT1 parallel port (declared as standard by SETUP).

Connection to a TSX 17 PLC

Connection to a TSX 17 PLC requires a **T FTX CB 17 5** cable.

The cable is connected to the FTX 417 via the COM2 serial port (26-pin Sub-D connector) and to the TSX 17 PLC via the programming port.

The connection can also be made using a T FTX CB 7 4 cable connected to a TSX 17 ACC7 adapter. This configuration, in addition to supporting communication, will also provide a power supply to the FTX 417 for normal operation and battery charging (fast charging when the terminal is shutdown).

Warning: Before connecting a powered-down terminal to a TSX 27/47 or TSX/PMX 47 to 107 PLC configuration, always check that the PLC power supply can support the extra power requirements of the terminal (2 to 12 VDC) without adversely affecting PLC operation and causing an overload or triggering the PLC power supply circuit breaker (refer to the appropriate PLC documentation).

7.9-2 Installing and Running PL7-1 DOS for TSX 17 PLCs

1- Preparing the FTX 417 20 notebook terminal.

- Power-up the FTX 417,
- Press <F2> to call-up SETUP,
- To configure communication with the PLC, make the following selections:
 - RS-485/CL COM2 (by default)
 - Selected mode RS-485 (CL20 is also available)
- Exit SETUP by pressing the <Esc> twice and selecting REBOOT.

2 - Installing PL7-1

Check that the "FTX 417 DOS Utilites" diskette was installed before continuing.

- If so, a C:\TE_TOOLS sub-directory exists with files stored in it.
- If not, insert the "FTX 417 DOS Utilities" diskette in the disk drive and type **a: install** and press <Enter> to confirm.

Insert the PL7-1 "Installation" diskette in the disk drive and type **a:install** and press <Enter> to confirm.

Once the installation procedure is complete, remove the "Installation" diskette from the drive and type:

BOOT G71 and press <Enter> to confirm.

Once this is done, make the following software changes:

- Modify the C:\BATS\g71.bat file,

The last line of this file must be:

```
g71pa C pl7_1 PL71 G71 bw com2 %3 %4 %5 %6 %7 %8 %9
```

The meaning of this line is:

bw (black and white): An option that ensures maximum contrast on the black and white LCD screen of the FTX 417,

com2 is a parameter that directs communication to serial port COM2,

Other commands, e.g. C:\PL7\DOC17_10.TXT in place of %3) can be added to this command line and will be read each time PL7-1 is run. Ensure that the bw command is always present as the other options can be defined from the first screen displayed once PL7-1 is running.

- Modifying the C:\BOOT\config.g71 file.

With TE/DR-DOS 5.0 already installed on the FTX 417, which is the standard situation, add the following line to the end of the file:

```
DEVICE=C:\DRDOS\hidios.sys/B=FFFF
```

The meaning of this line is:

hidios.sys invokes a memory manager that loads the kernel of the TE/DR-DOS operating system into "high memory" (64 Kbytes located above the 1 Mbyte boundary). This releases extra space in the standard 640 Kbyte memory locations.

- Modifying the C:\BOOT\autoexec.g71 file.

Add the following line to the end of the C:\TE_TOOLS\levtmgr.com file.

The meaning of this line is:

levtmgr.com ensures that PL7 DOS programs will run on the FTX 417.

- Install the autoexec.bat and command.com files, type:

```
copy C:\BOOT\autoexec.g71 C:*\*.bat
```

```
copy C:\BOOT\config.g71 C:*\*.sys
```

Reboot the FTX 417 by pressing the <Ctrl> <Alt> keys together, for the changes to take effect.

3 - To run the program. type **G71** and press <Enter>.

7.9-3 Installing and Running PL7-2 DOS V3.0 for TSX 17 or PL7-2 DOS V3.3 for TSX 27/47

1- Preparing the FTX 417 20 notebook terminal.

- Power-up the FTX 417,
- Press <F2> to call-up SETUP,
- For the "Extended memory size/EMS" setting, select at least 1 Mbyte of extended memory (e.g. with 2 Mbytes installed memory, select 1 M/0 Mbytes and for 8 Mbytes, select 5 M/0 Mbytes).
- To configure communication with the PLC, make the following selections:
 - RS-485/CL COM2 (by default)
 - Selected mode CL20 (for TSX 27/47 PLCs)
- Exit SETUP by pressing the <Esc> twice and selecting REBOOT.

2 - Installing PL7-2

Check that the "FTX 417 DOS Utilities" diskette was installed before continuing.

- If so, a C:\TE_TOOLS sub-directory exists with files stored in it.
- If not, insert the "FTX 417 DOS Utilities" diskette in the disk drive and type **a: install** and press <Enter> to confirm.

Insert the PL7-2 "Installation" diskette in the disk drive and type **a:install** and press <Enter> to confirm.

Once the installation procedure is complete, remove the "Installation" diskette from the drive and type:

- **BOOT G72_17** for use with a TSX 17 and press <Enter> to confirm,
- **BOOT G72** for use with a TSX 27/47 and press <Enter> to confirm.

Once this is done, make the following software changes:

- Modify the C:\BATS\g72_17.bat file for a TSX 17,
Modify the C:\BATS\g72.bat file for a TSX 27/47,

The last line of this file must be:

For a TSX 17:

```
g72pa C pl7_2_17 PL72_17 G72_17 bw com2 %3 %4 %5 %6 %7 %8 %9
```

For a TSX 27/47:

```
g72pa C pl7_2 PL72 G71 bw com2 %3 %4 %5 %6 %7 %8 %9
```

The meaning of this line is:

bw (black and white): An option that ensures maximum contrast on the black and white LCD screen of the FTX 417,

com2 is a parameter that directs communication to serial port COM2,

Other commands, e.g. C:\PL7\DOC27_47.TXT or C:\PL7\DOC17_20.TXT in place of %3) can be added to this command line and will be read each time PL7-1 is run. Ensure that the bw command is always present as the other options can be defined from the first screen displayed once PL7-2 is running.

-
- Modifying the C:\BOOT\config.g72 file.
With TE/DR-DOS 5.0 already installed on the FTX 417 20, which is the standard situation, add the following line to the end of the file:

DEVICE=C:\DRDOS\hidoss.sys/B=FFFF

The meaning of this line is:

hidoss.sys invokes a memory manager that loads the kernel of the TE/DR-DOS operating system into "high memory" (64 Kbytes located above the 1 Mbyte boundary). This releases extra space in the standard 640 Kbyte memory locations.

- Modifying the C:\BOOT\autoexec.g72 file.
Add the following line to the end of the C:\TE_TOOLS\evtmgr.com file.

The meaning of this line is:

evtmgr.com ensures that PL7 DOS programs will run on the FTX 417 20.

- Install the autoexec.bat and command.com files, type:

copy C:\BOOT\autoexec.g72 C:*.bat

copy C:\BOOT\config.g72 C:*.sys

Reboot the FTX 417 20 by pressing the <Ctrl> <Alt> keys together, for the changes to take effect.

3 - To run the program. type:

G72_17 and press <Enter> for a TSX 17,

G72 and press <Enter> for a TSX 27/47.

7.9-3 Installing and Running PL7-3 DOS V3.0

1- Preparing the FTX 417 20 notebook terminal.

- Power-up the FTX 417 20,
- Press <F2> to call-up SETUP,
- Check the "Extended memory size/EMS" size, select at least 2 Mbyte of EMS (the FTX 417 20 must be fitted with at least 4 Mbytes of RAM, i.e. at least 2 Mbytes standard and a 2 Mbyte memory extension).
- Declare the "Extended memory size/EMS" setting as shown in the table below:

RAM size	Extended memory size	Comments
2 Mbytes	0 M/1 Mbytes	Not enough memory for PL7-3
4 Mbytes	1 M/2 Mbytes	Minimum RAM required for PL7-3
6 Mbytes	3 M/2 Mbytes	Acceptable
8 Mbytes	5 M/2 Mbytes	Acceptable

• To configure communication with the PLC, make the following selections:

- RS-485/CL COM2 (by default)
- Selected mode CL20

• Exit SETUP by pressing the <Esc> twice and selecting REBOOT.

2 - Installing PL7-3 V3.3

Check that the "FTX 417 DOS Utilities" diskette was installed before continuing.

- If so, a C:\TE_TOOLS sub-directory exists with files stored in it.
- If not, insert the "FTX 417 DOS Utilities" diskette in the disk drive and type **a: install** and press <Enter> to confirm.

Insert the PL7-3 "Installation" diskette in the disk drive and type:

a:install and press <Enter> to confirm.

While the installation procedure is running on the FTX 417 20, give the following answers to the prompts displayed:

- What system are you installing on? Type 7. Other
- VDISK setting: Select C:\DRDOS\VDISK.SYS
- What drive to use for swapping? Type F and press <Enter>
(if the default configuration was selected).
- For the COUNTRY.SYS setting: Select C:\DRDOS\COUNTRY.SYS

Once this is done, and the installation procedure complete, do not type BOOT G73 as prompted on-screen, instead make the following software changes:

- Modify the C:\BATS\g73.bat file,
The last line of this file must be:
g73par C F **bw com2** %3 %4 %5 %6 %7 %8 %9

The meaning of this line is:

bw (black and white): An option that ensures maximum contrast on the black and white LCD screen of the FTX 417 20,

com2 is a parameter that directs communication to serial port COM2 (set for 20mA current loop operation),

Other commands, e.g. C:\PL7\DOC73.TXT in place of %3) can be added to this command line and will be read each time PL7-3 is run. Ensure that the bw command is always present as the other options can be defined from the first screen displayed once PL7-3 is running.

- Modifying the C:\BOOT\config.g73 file.

With TE/DR-DOS 5.0 already installed on the FTX 417 20, which is the standard situation, add the following line to the end of the file:

```
DEVICE=C:\DRDOS\hidos.sys/B=FFFF  
DEVICE=C:\TE_TOOLS\scatemm.sys
```

The meaning of this line is:

hidos.sys invokes a memory manager that loads the kernel of the TE/DR-DOS operating system into "high memory" (64 Kbytes located above the 1 Mbyte boundary). This releases extra space in the standard 640 Kbyte memory locations as PL7-3 requires at least 585 Kbytes to run.

Use the MEM or CHKDSK commands to check the amount of memory available for PL7-3.

scatemm.sys is the memory manager that emulates LIM 4.0 standard memory management under TE/DR-DOS. PL7-3 requires LIM 4.0 standard memory to run.

The following line is already present in the config.sys file:

```
DEVICE=C:\DRDOS\vdisk.sys 1024 512 32/E
```

vdisk.sys is the virtual disk manager that lets the system use part of the installed memory as a RAM disk (1024 Kbytes in this case) giving vary fast access times. On FTX 417 20 systems, this device is designated F: (C: is the hard disk, D: the 32 Kbyte static RAM memory (SRAM) and E: the PCMCIA drive).

- Modifying the C:\BOOT\autoexec.g73 file.

Add the following line to the end of the C:\TE_TOOLS\evtmgr.com file.

The meaning of this line is:

evtmgr.com ensures that PL7 DOS programs will run on the FTX 417.

- Install the autoexec.bat and command.com files, type:

```
copy C:\BOOT\autoexec.g73 C:\*.bat  
copy C:\BOOT\config.g73 C:\*.sys
```

Reboot the FTX 417 by pressing the <Ctrl> <Alt> keys together, for the changes to take effect.

3 - To run the program. type **G73** and press <Enter>.

7.10 Running Telemecanique Programs with TE/MS-OS/2 1.3

What should I do to use the COM1 port (e.g. for connecting an XBT terminal) and the COM2 port (e.g. for connecting a PLC) simultaneously, with X-TEL or MINI X-TEL?

Check that the following line is present in the CONFIG.SYS file:

```
DEVICE=C:\OS2\COM01.SYS.
```

- If this line is not present, add it after the line:
DEVICE=C:\XPROSYS\EXE\DTSXPC01.SYS MAXSPEED=19200 COM=COM2
- If this line is already present make sure that it comes after the above line.

Reboot the system.

What should I do if the COM2 port used in "Telemecanique mode" (e.g. for connecting a PLC) does not work with X-TEL or MINI X-TEL?

- Check the terminal SETUP to ensure that the COM2 port is enabled and that CL20 (current loop) mode is selected.
- Check the CONFIG.SYS file to ensure that the line:
DEVICE=C:\OS2\COM01.SYS is not present.
If this line is present:
 - If the COM1 port is not used, delete it,
 - If the COM1 port is used, refer to the previous question and answer.
- Check that the selected communication driver is the correct one for the hardware connection used (programming port, Mapway network, Uni-Telway bus).
- Check that the address given for the X-TEL or MINI X-TEL station is correct for the device being used.
- Check that the correct connection cable is fitted.

7.11 Running Other Programs

What should I do to ensure that the pointing device works with any program that supports it and with ViewMax?

At step 15 in the TE/MS-DOS 5.0 installation procedure (refer to sub-section 2.1-2),

- Choose "Change the combination".
- Validate the default selection for the display device,
- Choose "Bus mouse with MOUSE.SYS driver",

Proceed with the installation procedure as described in the manual.

This operation does not replace the installation procedure required for the selected pointing device. This must still be performed, as described in the manufacturer's documentation.

What should I do if the following message is displayed when attempting to install Windows 3.1 with TE/DR-DOS 5.0:

"The XMS driver installed in the system is incompatible with Windows. Remove it before installing windows?"

Delete the following line from the config.sys file:

```
DEVICE=C:\DRDOS\HIDOS.SYS
```

Reboot the system and attempt Windows installation again.

What should I do to ensure that Corel Draw 2.01L (for Windows 3.0 and 3.1) installs correctly under TE/DR-DOS 5.0?

Edit the SETUP.INF file in Corel Draw and delete the line that backs-up a copy of file WIN.INI as file WIN.I@I and save the edited file.

Perform this operation from the TE/DR-DOS prompt, then continue to install the program.

What should I do so that Paradox installs correctly under TE/DR-DOS 5.0?

Delete the following line from the config.sys file:

```
DEVICE=C:\DRDOS\HIDOS.SYS
```

Reboot the system and install the program.

This line can be added once the program is installed.



Mise à jour du gestionnaire d'écran d'exploitation TE/MS-OS/2 1.3 TE/MS-OS/2 1.3 operator screen manager update

La disquette UPDATE B ci-jointe met à jour le gestionnaire d'écran fourni avec TE/MS-OS/2 1.3 (référence : TXT L S2 131●), système d'exploitation destiné à l'ensemble des terminaux FTX 417, FTX 507 et CCX 57.

Installation

- Insérer la disquette UPDATE B dans le lecteur,
- Mettre le terminal sous tension ou appuyer simultanément sur les touches <Control>, <Alt> et <Suppr>,
- Saisir > a:
 - > **Install** (dès que le prompt s'affiche)
- Suivre les instructions affichées à l'écran,

Remarque

Cette procédure d'installation vérifie que le système d'exploitation OS/2 Telemecanique (TXT L S2 131●) est installé sur votre terminal, sous la racine.
Dans le cas contraire, des messages sont affichés à l'écran pour indiquer la marche à suivre.

The enclosed UPDATE B diskette updates the screen manager supplied with TE/MS-OS/2 1.3 (reference : TXT L S2 131●), an operating system designed for all FTX 417, FTX 507 and CCX 57 terminals.

Installation

- Insert the UPDATE B diskette into the drive,
- Power up the terminal or simultaneously press the <Control>, <Alt> and keys,
- Type > a:
 - > **Install** (when the prompt appears),
- Follow the instructions displayed on the screen.

Remark

This installation procedure checks that the Telemecanique OS/2 (TXT L S2 131●) is installed on your terminal in the root directory.
If this is not the case, messages will be displayed on the screen to indicate what to do next.

W9 1329 178 09.01.A01



307788