



***Sprinter***<sup>TM</sup>

*User Manual*

**PETERS PLUS**

## 1. Introduction.

The personal computer Sprinter is a multiform computer with 8 bit processor Z80 by Zilog® Inc. The ALTERA® PLD is most important part of the computer. A Programmable Logic Device (PLD) is an integrated circuit that can be programmed to perform complex logic functions. Usage PLD allow to change the Sprinter architecture by software without replace any hardware components of the motherboard.

## 2. Power up.

*Process of assembly of the computer Sprinter is described in "Assembly Guide".*

Check up the correct set up of external cables (power cable, video cable) before power up of the computer.

Power up the monitor (TV) and the computer.

You can see starting information after power up of computer (fig. 1).

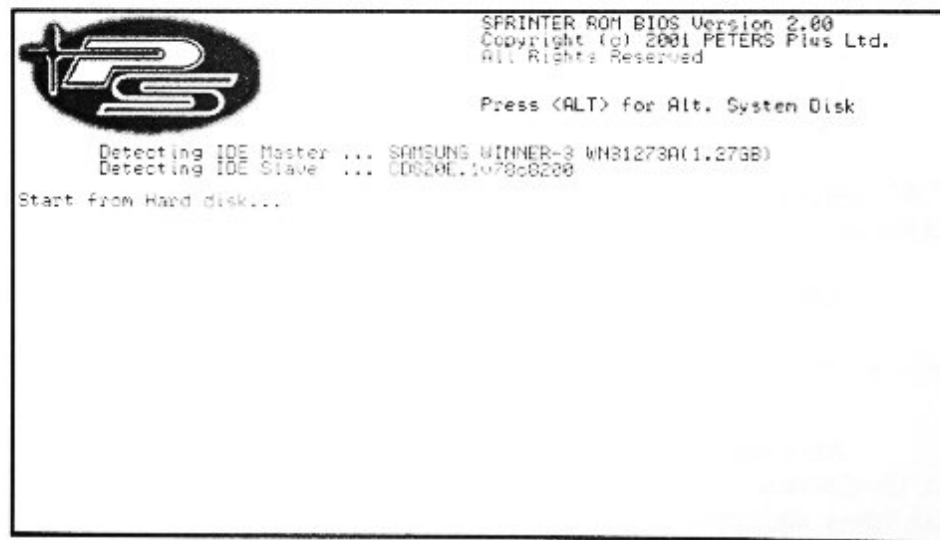


Figure 1.

Press the button <RESET> on a case of the system unit if the screen has dark.

On starting page you should see the trade mark of the manufacturer and copyrights. Also the version number of BIOS will be indicated in a right upper corner.

During of the show starting information you can press the button <Delete> if you want get in Setup Utility.

### 3. Setup Utility.

**Memory Test:** [*Disabled/Enabled*] - To make testing of memory at each reset of the computer.

**Safe RAM-disks:** [*Disabled/Enabled*] - Safe of RAM-disks at each reset.

**Start Delay:** [*Disabled/Enabled*] - Two-second delay at each reset of the computer.

**Typematic Rate (Chars/Sec):** [*6/8/10/12/15/20/24/30*] - Quantity of characters per one second giving by the keyboard at auto-repeat.

**Typematic Delay (Msec):** [*250/500/750/1000*] - Delay between auto-repeats in microseconds.

**System Disk:** [*1-st FDD/2-nd FDD/1-st IDE/2-nd IDE/RAM-DISK*] - The operating system will be loaded at usual start from this disk device.

**Alt. System Disk:** [*1-st FDD/2-nd FDD/1-st IDE/2-nd IDE/RAM-DISK*] -- The operating system will be loaded at alternative start from this disk device.

**FDD First:** [*720K/1.44M/-----*] - The type of the first floppy disk drive.

**FDD Second:** [*720K/1.44M/-----*] - The type of the second floppy disk drive.

**IDE Master:** [*Auto/Setup/CD-ROM/-----*] - The type of the master hard disk.

**IDE Slave:** [*Auto/Setup/CD-ROM/-----*] - The type of the slave hard disk.

Use keys <+> and <-> for change of parameters.

Use key <Esc> for escaping Setup Utility without changes.

Use key <F10> for exit with changes.

*You will lost your changes after power off if you havn't real time clock CMOS on your mainboard.*

After escaping Setup Utility the loading of a system will continue.

### 4. DOS mode.

After show starting information, the system informs about mainboard ID, the detected memory, about presence of real-time clocks CMOS, detected disk drives and hard disks.

The system finds in the system disk the files of a disk operating system (DOS) and starts them. At this time you should see the message:

«Starting DOS ...»

If you want to load DOS from the alternate disk, you can press and retain the key <Alt> before message «Starting DOS...».

Sprinter DOS is MS-DOS FAT16 compatible.

The operations DOS after start are described in the file system.bat.

Push and retain the key <Shift> for skip start of this file.

Example of system.bat file:

fn\fn.exe - start fn.exe from subdirectory fn\.

You can use <Ctrl>+<Alt>+<Delete> for restart your computer system in any time.

DOS use for disk devices names A:, B:, C: and other.

The device name can be used before a filename to point its situation. For example, the command DIR C:DATFILE searches DATFILE on the device C: in current directory. DOS use the current device if the name of device is not choice. The device is current if DOS was started from it.

File name has two part. First part of name include from 1 to 8 characters. Second part is not binding. It inform you about type of information in file, include 3 characters and called file extension. Character "." uses for separation of file name. Don't use characters with code less "32" and don't use characters: "/ \ [ ] : | < > + = ; , in file name.

Use these rules for subdirectory names too. Main directory is called "/" always.

Some DOS commands and DOS functions can use characters "?" and "\*" in file name.

You can use character "?" for any character.

You can use character "\*" for any quantity of any other characters.

For example:

\*.txt - all files with extension "txt".

a??.\* - files with names in 3 characters and first character is "a"

dc\*.exe - executable files with unlimited length of name and begin from "dc"

#### **List of the most used extensions of files.**

exe – executable files

bat – this executable files include DOS commands and names of other executable files

txt – text files

wav – sound wave files

bmp – graphic files

#### **The path to the file in DOS command prompt:**

1. Name of device and next "\"
2. Name of directory and subdirectory which include your file. You should use "\" between directory and subdirectory names.
3. Name of your file. You should use "\" before file name.

For example:

C:\my\_docs\games\help1.txt

## 5. Commands list.

**CD** Displays the name of or changes the current directory.  
**CHDIR** Displays the name of or changes the current directory.  
**CLS** Clears the screen.  
**DATE** Displays or sets the date.  
**DEL** Deletes one or more files.  
**DIR** Displays a list of files and subdirectories in a directory.  
**ECHO** Displays messages, or turns command echoing on or off.  
**ERASE** Deletes one or more files.  
**EXIT** Quits the SYSTEM.EXE program (command interpreter).  
**HELP** Provides Help information for console commands.  
**MD** Creates a directory.  
**MKDIR** Creates a directory.  
**PAUSE** Suspends processing of a batch file and displays a message.  
**RD** Removes a directory.  
**REM** Records comments (remarks) in batch files or SYSTEM.BAT.  
**REN** Renames a file or files.  
**RENAME** Renames a file or files.  
**RMDIR** Removes a directory.  
**TIME** Displays or sets the system time.  
**VER** Displays the System version.

## **6. Limited Warranty.**

PETERS Plus Ltd warrants that the mainboard Sp2000, if properly used and installed, will be free from defects in material and workmanship and will substantially conform to available specifications for a period of one (1) year after the date the mainboard Sp2000 was purchased (whether purchased separately or as part of a computer system).

If the mainboard Sp2000 which is the subject of this Limited Warranty fails during the warranty period for reasons covered by this Limited Warranty, PETERS Plus Ltd, at its option, will:

**REPAIR** the mainboard Sp2000; **OR**  
**REPLACE** the mainboard Sp2000 with another mainboard Sp2000.

PETERS Plus Ltd can make modifications for better quality of mainboard Sp2000 without inform the buyer.

This limited warranty does not cover damages due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.

To obtain warranty service for your mainboard Sp2000, you may contact your seller or you may contact PETERS Plus Ltd.

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