

Aptio®

Aptio™ Text Setup Environment (TSE) User Manual

MAN-ATSE
2008-12-10

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Revision History

03/31/05	Initial Internal Release
04/29/05	Initial Public Release
06/10/08	Updated corporate address. Updated screenshots.
12/10/08	Updated Table of Contents. Updated info on <F2> key & setup exit.

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If...	Then...
you purchased this product from AMI or from a certified AMI reseller,	call AMI technical support at 770-246-8600.
Aptio TSE was installed as part of a system manufactured by a company other than AMI or you purchased an AMI product from an unauthorized reseller,	call the technical support department of the computer manufacturer or the unauthorized reseller. AMI does not provide direct technical support in this case.

Web Site

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Chapter 1 Starting Aptio TSE

Aptio Text Setup Environment (TSE) is a text-based basic input and output system. The purpose of Aptio TSE is to empower the user with complete system control at boot.

This document explains the basic navigation of Aptio TSE.

Note: This document describes the standard look and feel of the Aptio TSE interface. The manufacturer of the hardware has the ability to change any and all of the settings described in this document. Some of the options that are described in this document do not exist on every implementation of Aptio TSE. Refer to the manufacturer documentation for proper use of their implementation of Aptio TSE.

Starting Aptio TSE

To enter the Aptio TSE screens, follow the steps below:

Step	Description
1	Power on the motherboard
2	Press the <Delete> or <F2> key on your keyboard when you see the following text prompt: Press DEL or F2 to enter Setup
3	After you press the <Delete>/<F2> key, the Aptio TSE main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.

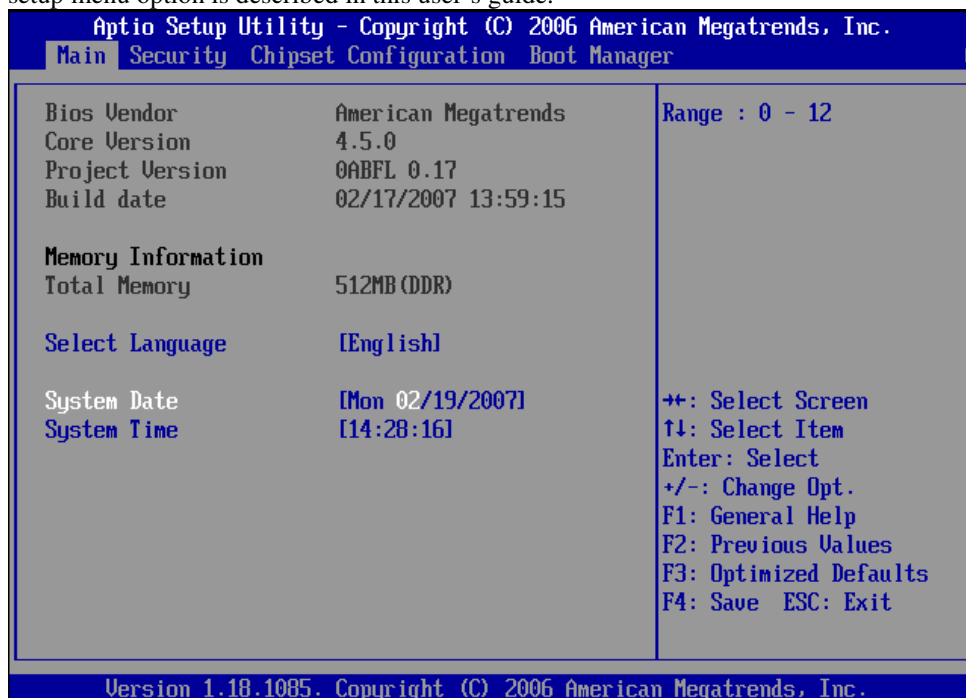
Note: This manual describes the standard look of the Aptio TSE screen. The motherboard manufacturer has the ability to change any and all of the settings described in this manual. This means that some of the options described in this manual do not exist in your motherboard's AMIBIOS.

Note: In most cases, the <Delete> or <F2> keys are used to invoke the Aptio TSE screen. There are a few cases that other keys are used (<F1>, <F10>, ...).

Note: The user can press the <TAB> key during boot to switch from the boot splash screen (logo) to see the keystroke messages.

Aptio™ TSE Setup Menu

The Aptio TSE BIOS setup menu is the first screen that you can navigate. Each BIOS setup menu option is described in this user's guide.



Note: The motherboard manufacturer retains the option to modify standard strings provided in Aptio or add custom options. Because of this, many screen shots in this manual are different from your Aptio TSE screen.

Navigation

The Aptio™ TSE keyboard-based navigation can be accomplished using a combination of the keys. (<FUNCTION> keys, <ENTER>, <ESC>, <ARROW> keys, etc.).

Key	Description
ENTER	The <i>Enter</i> key allows the user to select an option to edit its value or access a sub menu.
→← Left/Right	The <i>Left and Right</i> <Arrow> keys allow you to select an Aptio TSE screen. For example: Main screen, Advanced screen, Chipset screen, and so on.
↑↓ Up/Down	The <i>Up and Down</i> <Arrow> keys allow you to select an Aptio TSE item or sub-screen.
+− Plus/Minus	The <i>Plus and Minus</i> <Arrow> keys allow you to change the field value of a particular setup item. For example: Date and Time.
Tab	The <Tab> key allows you to select Aptio TSE fields.
ESC	The <Esc> key allows you to discard any changes you have made and exit the Aptio TSE. Press the <Esc> key to exit the Aptio TSE without saving your changes. The following screen will appear: Press the <Enter> key to discard changes and exit. You can also use the <Arrow> key to select <i>Cancel</i> and then press the <Enter> key to abort this function and return to the previous screen.
Function keys	When other function keys become available, they are displayed in the help screen along with their intended function.

Chapter 2 Advanced Setup

Select the *Advanced* menu item from the Aptio TSE screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as Processor Configuration, IDE Configuration and SuperIO, to go to the sub menu for that item.

Advanced Setup

Processor Configuration

This option allows the user to view and configure the settings of the CPU installed on the computer system.

Option	Description
Processor Type	This option allows the user to view the information of the CPU installed on the hardware platform.
Processor Speed	This option allows the user to view the speed of the CPU installed on the hardware platform.
System Bus Speed	This option allows the user to view the Front Side Bus (FSB) speed of the CPU.
L2 Cache RAM	This option allows the user to view the amount of L2 Cache on the CPU.
Hyper Threading Technology	This option allows the user to enable or disable the HyperThreading™ support of the Intel® Pentium® 4 HT processor. By default this setting is enabled. This setting should be disabled in Microsoft™ Windows 2000 based systems.
Microcode Revision	This option allows the user to view the Microcode revision information.
Processor Stepping	This option allows the user to view the stepping information of the CPU.
Set Processor Multiplier	This option allows the user to view/modify the setting of the CPU clock multiplier. The Set Processor Multiplier value is multiplied by the CPU FSB to set the operating speed of the CPU. Some CPUs will ignore any value you set, while other CPUs will fail to operate. If your motherboard fails to boot after you have modified this value, simply reset the CMOS.

IDE Configuration

You can use this screen to select options for the IDE Configuration Settings.

Use Automatic Mode

This setting allows you to manually configure each controller. Some operating systems do not allow support for more than two controllers.

Option	Description
Enable	Set this value to allow automatic configuration of the IDE controller(s). This is the default value.
Disable	Set this value to allow manual configuration of the IDE controller(s).

Cont'd

Advanced Setup, Continued

IDE Mode

Option	Description
Legacy	A controller that operates in legacy mode emulates a legacy IDE controller that is a non-standard extension of the ISA-based IDE controller. In legacy mode, the controller requires two ISA-style dedicated IRQs (14 and 15) that cannot be shared with other devices. Because legacy mode requires dedicated resources, the ATA controller for the boot device (which is usually integrated in chipsets on the motherboard) is the only controller on a system that is likely to operate in legacy mode.
Native	A controller that operates in native mode acts as a true PCI device that does not require dedicated legacy resources and can be configured anywhere in the system. ATA controllers running in native mode use their PCI interrupt for both channels and can share this interrupt with other devices in the system, like any other PCI device. Add-in ATA controllers generally operate in native mode.

Serial ATA

This item allows you to turn off or on the onboard SATA.

Option	Description
Disabled	Set this value to prevent the computer system from using the onboard SATA controller.
Enabled	Set this value to allow the computer system to detect the onboard SATA controller. This is the default setting.

Serial ATA Port X

This item specifies the SATA ports used by the onboard SATA controller.

Option	Description
Disabled	Set this value to prevent the computer system from using the onboard SATA port selected.
Enabled	Set this value to allow the computer system to detect the onboard SATA port selected. This is the default setting.

Onboard Primary/Secondary IDE Controller

This item specifies the IDE channels used by the onboard PCI IDE controller.

Option	Description
Disabled	Set this value to prevent the computer system from using the onboard IDE controller selected.
Enabled	Set this value to allow the computer system to detect the onboard IDE controller selected. This is the default setting.

Cont'd

Advanced Setup, Continued

Super IO

This section allows you to configure the system ports information.

Floppy Controller

This option allows you to enable or disable the floppy drive controller on your platform.

Option	Description
Disabled	Set this value to prevent the BIOS from detecting the onboard floppy drive controller.
Enabled	Set this value to allow the BIOS to use the onboard floppy drive controller. This is the default setting.

Floppy Write Protect

This option allows you to enable or disable write-protection of floppy disks.

Option	Description
Disabled	Set this value to prevent writing to floppy disks.
Enabled	Set this value to allow writing to floppy disks. This is the default setting.

Floppy Drive A: and B:

Option	Description
Disabled	Set this value to prevent the use of the selected floppy disk drive channel. This option should be set if no floppy disk drive is installed on the specified channel. This is the default setting for <i>Floppy Drive B</i> .
360 KB 5 1/4"	Set this value if the floppy disk drive attached to the corresponding channel is a 360 KB 5 1/4" floppy disk drive.
1.2 MB 5 1/4"	Set this value if the floppy disk drive attached to the corresponding channel is a 1.2 MB 5 1/4" floppy disk drive.
720 KB 3 1/2"	Set this value if the floppy disk drive attached to the corresponding channel is a 720 KB 3 1/2" floppy disk drive.
1.44 MB 3 1/2"	Set this value if the floppy disk drive attached to the corresponding channel is a 1.44 MB 3 1/2" floppy disk drive. This is the default setting for <i>Floppy Drive A</i> .

Floppy Drive Seek

Set this option to seek the floppy disk drive during boot up. The Optimal and Fail-Safe setting is *Disabled*.

Option	Description
Disabled	Set this value to prevent the BIOS from seeking the floppy disk drive during boot up. This is the default setting.
Enabled	Set this value to allow the BIOS to seek the floppy disk drive during boot up. This will cause the floppy disk drive to temporarily power on during POST.

Cont'd

Advanced Setup, Continued

PS2 Port Swap

Option	Description
Disabled	Set this value to use the default PS/2 port settings. This is the default setting.
Enabled	Set this value to invert the PS/2 port settings so that the mouse port is switched from the top to the bottom while the keyboard port is switched from the bottom to the top.

Serial Port1 Address

This option specifies the base I/O port address and Interrupt Request address of serial port 1. The Optimal setting is *3F8/IRQ4*. The Fail-Safe default setting is *Disabled*.

Option	Description
Disabled	Set this value to prevent the serial port from accessing any system resources. When this option is set to <i>Disabled</i> , the serial port physically becomes unavailable.
3F8/IRQ4	Set this value to allow the serial port to use 3F8 as its I/O port address and IRQ 4 for the interrupt address. This is the default setting. The majority of serial port 1 or COM1 ports on computer systems use IRQ4 and I/O Port 3F8 as the standard setting. The most common serial device connected to this port is a mouse. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .
2F8/IRQ3	Set this value to allow the serial port to use 2F8 as its I/O port address and IRQ 3 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .
3E8/IRQ4	Set this value to allow the serial port to use 3E8 as its I/O port address and IRQ 4 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .
2E8/IRQ3	Set this value to allow the serial port to use 2E8 as its I/O port address and IRQ 3 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .

Serial Port2 Address

This option specifies the base I/O port address and Interrupt Request address of serial port 2. The Optimal setting is *2F8/IRQ3*. The Fail-Safe setting is *Disabled*.

Option	Description
Disabled	Set this value to prevent the serial port from accessing any system resources. When this option is set to <i>Disabled</i> , the serial port physically becomes unavailable.
3F8/IRQ4	Set this value to allow the serial port to use 3F8 as its I/O port address and IRQ 4 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .
2F8/IRQ3	Set this value to allow the serial port to use 2F8 as its I/O port address and IRQ 3 for the interrupt address. This is the default setting. The majority of serial port 2 or COM2 ports on computer systems use IRQ3 and I/O Port 2F8 as the standard setting. The most common serial device connected to this port is an external modem. If the system will not use an external modem, set this port to <i>Disabled</i> . Note: Most internal modems require the use of the second COM port and use 3F8 as its I/O port address and IRQ 4 for its interrupt address. This requires that the Serial Port2 Address be set to <i>Disabled</i> or another base I/O port address and Interrupt Request address.
3E8/IRQ4	Set this value to allow the serial port to use 3E8 as its I/O port address and IRQ 4 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .
2E8/IRQ3	Set this value to allow the serial port to use 2E8 as its I/O port address and IRQ 3 for the interrupt address. If the system will not use a serial device, it is best to set this port to <i>Disabled</i> .

Cont'd

Advanced Setup, Continued

Onboard CIR Port

This option specifies the base I/O port address of the onboard CIR port. The Optimal setting is 3E0. The Fail-Safe setting is *Disabled*

Option	Description
Disabled	Set this value to prevent the Onboard CIR Port from accessing any system resources. When the value of this option is set to <i>Disabled</i> , the infrared port becomes unavailable.
3E0	Set this value to allow the Onboard CIR Port to use 3E0 as its I/O port address.
2E0	Set this value to allow the Onboard CIR Port to use 2E0 as its I/O port address.

Parallel Port Address

This option specifies the I/O address used by the parallel port. The Optimal setting is 378. The Fail-Safe setting is *Disabled*.

Option	Description
Disabled	Set this value to prevent the parallel port from accessing any system resources. When the value of this option is set to <i>Disabled</i> , the printer port becomes unavailable.
378	Set this value to allow the parallel port to use 378 as its I/O port address. This is the default setting. The majority of parallel ports on computer systems use IRQ7 and I/O Port 378H as the standard setting.
278	Set this value to allow the parallel port to use 278 as its I/O port address.
3BC	Set this value to allow the parallel port to use 3BC as its I/O port address.

Parallel Port Mode

This option specifies the parallel port mode. The Optimal setting is *Normal*. The Fail-Safe setting is *Disabled*.

Option	Description
Normal	Set this value to allow the standard parallel port mode to be used. This is the default setting.
Bi-Directional	Set this value to allow data to be sent to and received from the parallel port.
EPP	The parallel port can be used with devices that adhere to the Enhanced Parallel Port (EPP) specification. EPP uses the existing parallel port signals to provide asymmetric bi-directional data transfer driven by the host device.
ECP	The parallel port can be used with devices that adhere to the Extended Capabilities Port (ECP) specification. ECP uses the DMA protocol to achieve data transfer rates up to 2.5 Megabits per second. ECP provides symmetric bi-directional communication.

Cont'd

Advanced Setup, Continued

Parallel Port IRQ

This option specifies the IRQ used by the parallel port. The Optimal and Fail-Safe default setting is 7.

Option	Description
5	Set this value to allow the serial port to use Interrupt 3.
7	Set this value to allow the serial port to use Interrupt 7. This is the default setting. The majority of parallel ports on computer systems use IRQ7 and I/O Port 378H as the standard setting.

OnBoard Game/Midi Port

This option specifies the onboard Game/Midi port I/O address. The Optimal setting is 200/298. The Fail-Safe setting is *Disabled*.

Option	Description
Disabled	Set this value to prevent the onboard Game/Midi port from accessing any system resources. When the value of this option is set to <i>Disabled</i> , the game port becomes unavailable.
200/298	Set this value to allow the onboard Game/Midi port to use 200 and 298 as its I/O port address. This is the default setting.
200/300	Set this value to allow the onboard Game/Midi port to use 200 and 300 as its I/O port address.
200/330	Set this value to allow the onboard Game/Midi port to use 200 and 330 as its I/O port address.
208/298	Set this value to allow the onboard Game/Midi port to use 208 and 298 as its I/O port address. This is the default setting.
208/300	Set this value to allow the onboard Game/Midi port to use 208 and 300 as its I/O port address.
208/330	Set this value to allow the onboard Game/Midi port to use 208 and 330 as its I/O port address.

Chapter 3 Boot Setup

Use this menu option to configure your boot settings.

Boot Setup

Boot Configuration

This menu item allows you to access more boot setup features.

Silent Boot

Set this value to allow the boot up screen options to be modified between POST messages or OEM logo. The Optimal and Fail-Safe default setting is *Enabled*.

Option	Description
Disabled	Set this value to allow the computer system to display the POST messages.
Enabled	Set this value to allow the computer system to display the OEM logo. This is the default setting.

Boot Full Configuration

Option	Description
Disabled	Set this value to allow the computer system to do a minimal boot. In minimal configuration mode, only the devices that are necessary to boot the system are detected and initialized.
Enabled	Set this value to allow the computer system to do a full boot. In full configuration mode, all devices are detected and initialized. This is the default setting.

Turn NumLock On

Set this value to allow the Number Lock setting to be modified during boot up. The Optimal and Fail-Safe default setting is *On*.

Option	Description
Off	This option does not enable the keyboard Number Lock automatically. To use the 10-keys on the keyboard, press the Number Lock key located on the upper left-hand corner of the 10-key pad. The Number Lock LED on the keyboard will light up when the Number Lock is engaged.
On	Set this value to allow the Number Lock on the keyboard to be enabled automatically when the computer system is boot up. This allows the immediate use of 10-keys numeric keypad located on the right side of the keyboard. To confirm this, the Number Lock LED light on the keyboard will be lit. This is the default setting.

Cont'd

Boot Setup, Continued

Boot to Network

This option allows you to boot to the network.

Option	Description
Disabled	Set this value to prevent booting to the network.
Enabled	Set this value to allow booting to the network. This is the default setting.

Chapter 4 Chipset Configuration Setup

Chipset Configuration

North Bridge Configuration

The *North Bridge Configuration* menu item allows the user to do the following:

Option	Description
Slot x Memory Size	This option allows the user to view the size of the memory module located on the specified slot.
Slot x Memory Speed	This option allows the user to view the speed of the memory module located on the specified slot.
Use Automatic Settings	This option allows the user to enable or disable the use of automatic settings for the memory.
Memory Frequency	This option allows the user to set the frequency of the memory.
tRAS	This option allows the user to set the tRAS or Row Precharge Delay timing parameters.
tRCD	This option allows the user to set the tRCD or Row Address timing parameters.
tRP	This option allows the user to set the tRP or RAS Precharge to active timing parameters.
tCL	This option allows the user to set the tCL or Row Column timing parameters.
Use On-board Lan Device	This option allows the user to enable or disable the onboard NIC/LAN controller on the hardware platform.

South Bridge Configuration

The *South Bridge Configuration* menu item allows the user to do the following:

Option	Description
Use On-Board Audio Device	This option allows the user to enable or disable the onboard audio device on the hardware platform.
Use USB 2.0 Controller	This option allows the user to enable or disable the onboard USB 2.0 controller on the hardware platform.

Chapter 5 Main Setup

Main Setup

The *Main* setup menu item allows the user to do the following:

Option	Description
BIOS Version	This option allows the user to view the Aptio firmware version loaded on the hardware platform.
BIOS Tag	This option allows the user to view the ID tag of the Aptio firmware loaded on the hardware platform.
BIOS Build Date	This option allows the user to view the date that the Aptio firmware loaded on the hardware platform was compiled (“built”).
Processor Type	This option allows the user to view the information of the CPU installed on the hardware platform.
Processor Speed	This option allows the user to view the speed of the CPU installed on the hardware platform.
Total Memory Size	This option allows the user to view the amount of memory that is installed on the hardware platform.
System Date	This option allows the user to set the date on the system real-time clock RTC. Simply navigate to the month, day, or year and type in the correct numeric value.
System Time	This option allows the user to set the time on the RTC. Simply navigate to the hour, minute, or second and type in the correct numeric value.

Note: The time is in 24-hour format. For example, 5:30 A.M. appears as 05:30:00, and 5:30 P.M. as 17:30:00.

Chapter 6 Power Setup

Select the *Power* menu item from the Aptio TSE screen to enter the Power Setup.

Note: The Power Setup screen can vary for different motherboards.

Power Setup

After Power Failure

Option	Description
Stay Off	This prevents the system to power on after power is applied to the system. This is the default setting.
Last State	This setting allows the system to power on if the system was on, or stay powered down if the system was powered down prior to loosing power.
Power On	This allows the system to power on after power is re-applied to the system.

Chapter 7 Security Setup

Password Support

Two Levels of Password Protection

Security Setup provides both a Supervisor and a User password. If you use both passwords, the Supervisor password must be set first.

The system can be configured so that all users must enter a password every time the system boots or when Setup is executed, using either or either the Supervisor password or User password.

The Supervisor and User passwords activate two different levels of password security. If you select password support, you are prompted for a one to six character password. Type the password on the keyboard. The password does not appear on the screen when typed. Make sure you write it down. If you forget it, you must drain NVRAM and reconfigure.

Remember the Password

Keep a record of the new password when the password is changed. If you forget the password, you must erase the system configuration information in NVRAM. See (Deleting a Password) for information about erasing system configuration information.

Security Setup

The *Security* setup menu item allows the user to do the following:

Option	Description
Unlock Setup	This option allows the user to enter passwords.
User Password	This option allows the user to set a user level password for the BIOS.
Admin Password	This option allows the user to set an administrative level password for the BIOS.
Chassis Intrusion	This option allows the user to enable or disable the chassis intrusion functionality of the hardware platform.

Chapter 8 Boot Setup

Boot Setup

Boot Setup allows the user to access more advanced options such as the ability to boot from a file or change the default boot order.

Boot to EFI Shell

Select this setting to boot to an EFI shell.

Boot Timeout

Boot Timeout allows the user to configure the amount of time (in seconds) that the Aptio TSE will wait before timing-out and booting the system.

Note: Setting the *Boot Timeout* to zero (0) will cause the system to boot without displaying the initial Aptio GSE menu, unless the user invokes the menu with a keystroke during boot (or <SPACE>).

Boot Option

Boot options allow you to set the boot priority. The top boot option will be priority, followed by second, third and so on.

Chapter 9 Language Setup

Language Setup allows the user to configure the language that the user wants to use in Aptio™ GSE.

Chapter 10 Setting Defaults, Saving, and Exiting Setup

Load Fail-Safe Defaults

Aptio TSE automatically sets all Aptio TSE options to a complete set of default settings when you Select this option. The Fail-Safe settings are designed for maximum system stability, but not maximum performance. Select the Fail-Safe Aptio TSE options if your computer is experiencing system configuration problems.

Select Load Fail-Safe Defaults from the Exit menu and press <Enter>.

Load Fail-Safe Defaults?

[YES] [NO]

appears in the window. Select *YES* to load Fail-Safe defaults.

Load Optimized Defaults

Aptio TSE automatically sets all Aptio TSE options to a complete set of default settings when you Select this option. The Optimized settings are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimized Aptio TSE options if your computer is experiencing system configuration problems.

Select Load Optimized Defaults from the Exit menu and press <Enter>.

Load Optimized Defaults?

[YES] [NO]

appears in the window. Select *YES* to load Optimized defaults.

Exit Saving Changes

When you have completed the system configuration changes, select this option to leave Aptio TSE and reboot the computer so the new system configuration parameters can take effect. Select Exit Saving Changes from the Exit menu and press <Enter>.

Save Configuration Changes and Exit Now?

[YES] [NO]

appears in the window. Select *YES* to save changes and exit.

Exit Discarding Changes

Select this option to quit Aptio TSE without making any permanent changes to the system configuration. Select Exit Discarding Changes from the Exit menu and press <Enter>.

Discard Changes and Exit Setup Now?

[YES] [NO]

Select *YES* to discard changes and exit.
