

MV045 USER'S MANUAL
HiNT 486DX VL-BUS MOTHERBOARD

Foreword

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This manual is designed to provide the basic necessary information for the end user to understand and properly use the MV045 main board. The main board ensures superlative performance and complete compatibility with industry standards, which incorporating many technical enhancements. Trademarks WTC is a registered trademark of Win Technologies Co., Ltd. All trademarks belong to their registered owner.

Checklist

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Your MV045 Cache package contains the following:

- * MV045 Cache main board
- * User's Manual.

Precautions

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Make sure you ground yourself before handling the main board or other system components. Electrostatic discharge will damage main board. Note that you must take especial precaution when handling the main board in dry or air-conditioned environments.

The precaution below is to protect the main board from electrostatic discharge.

- * Do not remove the anti-static packaging until you are ready to install the main board and other system components.
- * Ground yourself before removing any system component from its protective anti-static packaging. To ground yourself, grasp the expansion slot covers or other unpainted portion of the computer chassis.
- * Frequently ground yourself while working or use a grounding strap.
- * Handle the main board by the edges and avoid touching its components.

Main board Features

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- * Hint chipset CS8006 and 82C206
- * Support Intel 80486 SX/DX/DX2/DX4/P24T , Cyrix 486 DX/DX2
- * Support AMD 486 DX/DX2/DX4 and UMC 486SX (U5S)
- * Optional 128KB ,256KB , 512KB and 1MB external cache
- * Memory on board expandable to 64MB
- * Dimension : 22 x 25 CM with 4 layer
- * Two 8bit slot , Six 16bit slots with Three VESA slots 1 slave / 2 master
- * Clock generator for system clock
- * Real-time clock with battery back up CMOS memory for system configuration data
- * APM compatible with Power Management Hardware with SMI support
- * Shadow RAM for system / video BIOS
- * Multi source Wake up from Stop Clock and CPU suspend

Jumper and Connectors Reference

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Before installing the main board, make sure that the jumper setting are properly set for your configuration. The function of different jumpers are respectively as follows:

CPU Type Selector JP12, JP13, JP15, JP16, JP17,
JP18, P19, JP20, JP23
CPU Voltage Selector JP33, JP44, JP45, JP46
CPU Clock Frequency Selector ... JP26, JP27
Cache Option JP28, JP30, JP34
Memory Configuration JP39
CMOS Charge / Discharge JP31

VL-BUS Option JP8,JP9

Main board Connectors:

Turbo LED Connector JP25
Reset Switch Connector..... JP7
Speaker Connector JP3
Keylock and Power LED Connector. JP1
Keyboard Connector JP32
Power Supply Connector JP29
External Battery Connector JP31

Jumper Caps reference

Red Jumper for Voltage Selector
White Jumper for CPU Type
Yellow Jumper for Clock Selector
Blue Jumper for Cache Option
Black Jumper for Other

Jumper Setting for CPU

INTEL CPU

Table with 11 columns: CPU Type, JP12, JP13, JP15, JP16, JP17, JP18, JP19, JP20, JP23, JP24. Rows include SX-25, SX-33, DX-33, DX-50, DX2-50, DX2-66, DX4-75, DX4-100.

Table with 4 columns: CPU Type, JP33, JP45 (JP44) *, JP46 (JP45) *. Rows include SX-25, SX-33, DX-33, DX-50, DX2-50, DX2-66, DX4-75 (3V), DX4-100 (3V).

Table with 7 columns: CPU Type, JP26 (A, B, C), JP27 (A, B, C). Rows include SX-25, SX-33, DX-33, DS-50, DX2-50, DX2-66, DX4-75, DX4-100.

- NOTE: 1. Some Intel DX4-100 used 3.3V CPU, set JP45 to 3-6.
2. Intel SX, DX, DX2 Non-Enhanced CPU, Set JP27(A) set to 1-2.

AMD CPU

Table with 11 columns: CPU Type, JP12, JP13, JP15, JP16, JP17, JP18, JP19, JP20, JP23, JP24. Row includes DX-33.

DX-40	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX2-50	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX2-66	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX2-80	1-2	1-2	I-a	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX4-100	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX4-120	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN

AMD ENHANCED CPU (MODEL CODE: SV8B)

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DX2-80	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	CLOSE
DX4-100	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX4-120	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
DX5-133	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	CLOSE

Note: AMD Enhanced CPU has the same jumper setting for CPU Voltage selector and CPU Clock Frequency Selector.

CPU Voltage Selector Red jumper Cap

	JP33	JP45 (JP44) *	JP46 (JP45) *
DX-33	1-2,4-5	OPEN	OPEN
DX-40	1-2,4-5	OPEN	OPEN
DX2-50	1-2,4-5	OPEN	OPEN
DX2-66	1-2,4-5	OPEN	OPEN
DX2-80	1-2,4-5	OPEN	OPEN
DX2-66 (3V)	2-3,5-6	2-5	CLOSE (V8T ONLY)
DX2-80 (3V)	2-3,5-6	2-5	CLOSE (V8T ONLY)
DX4-100 (3V)	2-3,5-6	2-5	OPEN
DX4-120 (3V)	2-3,5-6	2-5	OPEN
X5-133 (3V)	2-3,5-6	2-5	OPEN

NOTE: AMD X5-133 MEANS AMD Am-5X86-P75 2-4 CPU Clock Frequency Selector Yellow jumper Cap

	JP26			JP27			
	A	B	C	A	B	C	
DX-33	2-3	2-3	1-2	1-2	1-2	1-2	
DX-40	1-2	1-2	2-3	1-2	1-2	1-2	
DX2-50	2-3	1-2	2-3	1-2	1-2	1-2	
DX2-66	2-3	2-3	1-2	1-2	1-2	1-2	
DX2-80	1-2	1-2	2-3	1-2	1-2	1-2	
DX4-100	2-3	2-3	1-2	1-2	1-2	1-2	
DX4-120	1-2	1-2	2-3	1-2	1-2	1-2	
DX2-80	1-2	1-2	2-3	2-3	1-2	1-2	(SV8B)
DX4-100	2-3	2-3	1-2	2-3	1-2	1-2	(SV8B)
DX4-120	1-2	1-2	2-3	2-3	1-2	1-2	(SV8B)
X5-133	2-3	2-3	1-2	2-3	1-2	1-2	

CYRIX CPU

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CPU Type Selector White jumper Cap

	JP12	JP13	JP15	JP16	JP17	JP18	JP19	JP20	JP23	JP24
DX-40	2-3	2-3	2-3	2-3	1-2	1-2,3-4	2-3	2-3	2-3	OPEN
DX2-50	2-3	2-3	2-3	2-3	1-2	1-2,3-4	2-3	2-3	2-3	OPEN
DX2-66	2-3	2-3	2-3	2-3	1-2	1-2,3-4	2-3	2-3	2-3	OPEN
DX2-80	2-3	2-3	2-3	2-3	1-2	1-2,3-4	2-3	2-3	2-3	OPEN
DX4-100	2-3	2-3	2-3	2-3	1-2	1-2,3-4	2-3	2-3	2-3	OPEN
CX586-100	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
CX586-120	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	OPEN
CX586-133	1-2	1-2	1-2	1-2	1-2	1-2,3-4	1-2	1-2	1-2	CLOSE

CPU Voltage Selector Red jumper Cap

	JP33	JP45 (JP44) *	JP46 (JY45) *
DX-40	1-2,4-5	OPEN	OPEN
DX2-50	1-2,4-5	OPEN	OPEN
DX2-66	1-2,4-5	OPEN	OPEN
DX2-66 (3.45V)	2-3,5-6	2-5	OPEN

DX2-80 (3.45V)	2-3,5-6	2-5	OPEN
DX4-100 (3.45V)	2-3,5-6	2-5	OPEN
CX5S6-100 (3.45V)	2-3,5-6	2-5	OPEN
CX5S6-120 (3.45V)	2-3,5-6	2-5	OPEN
CX586-133 (3.45V)	2-3,5-6	2-5	OPEN

CPU Clock Frequency Selector Yellow jumper Cap

	JP26			JP27		
	A	B	C	A	B	C
DX-40	1-2	1-2	2-3	1-2	2-3	1-2
DX2-50	2-3	1-2	2-3	1-2	2-3	1-2
DX2-66	2-3	2-3	1-2	1-2	2-3	1-2
DX2-80	1-2	1-2	2-3	1-2	2-3	1-2
DX4-100	2-3	2-3	1-2	1-2	2-3	1-2
CX586-100	2-3	2-3	1-2	1-2	1-2	1-2
CX586-120	1-2	1-2	2-3	1-2	1-2	1-2
CX586-133	2-3	2-3	1-2	1-2	1-2	1-2

- NOTE: 1. Cyrix CPU type selector includes TI, SGS-THOMSON CPU.
 2. Some Cyrix or TI CPU apply 4V voltage, set JP45 to 1-4.
 3. SGS-THOMSON CPU applies 5V voltage, set JP33 to 1-2,4-5.

SRAM Configuration

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SRAM Configuration is used to configure the external cache of the main board
 External cache can be configured by using 8K*8,32K*8,64K* 8 and 128K*8 SRAM
 CHIP. The size of the external cache is configured by the SRAM chip.

128K Configuration Blue jumper Cap

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JP28	JP30	JP34	SINGLE BANK
2-3	1-2,3-4,5-6	OPEN	
		SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38	32K * 8	8K * 8 U20
BANK 1:	U27, U31, U34, U37	NONE	

256K Configuration

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JP28	JP30	JP34	DOUBLE BANK
1-2	2-3,4-5,6-7	OPEN	
		SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38	32K * 8	8K * 8 U20
BANK 1:	U27, U31, U34, U37	32K * 8	

256K Configuration

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JP28	JP30	JP34	SINGLE BANK
1-2	1-2,3,4,5-6	OPEN	
		SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38	64K * 8	8K * 8 U20
BANK 1:	U27, U31, U34, U37	NONE	

512K Configuration

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JP28	JP30	JP34	DOUBLE BANK
1-2	2-3 4-5 6-7	3-4	
		SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38	64K * 8	32K * 8 U20
BANK 1:	U27, U31, U34, U37	64K * 8	

512K Configuration

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JP28	JP30	JP34	SINGLE BANK
1-2	1-2,3-4,5-6	3-4	
		SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38	128K * 8	32K * 8 U20
BANK 1:	U27, U31, U34, U37	NONE	

1M Configuration

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JP28	JP30	JP34	DOUBLE BANK	
1-2	1-2,3-4,5-6	1-2,3-4		
			SRAM	TAG RAM
BANK 0:	U28, U32, U35, U38		128K * 8	32 * 8 U20
BANK 1:	U27, U31, U34, U37		128K * 8	

MEMORY SELECTOR JP39 (JUMPER CAP BLACK COLOR)

Memory Selector is used to select Memory Type as Bank 0 Two Type of memory: 30 pin RAM Module & 72 pin RAM Module

JP39

2-3 SIMM MODULE 30 PINS AS BANK 0

1-2,3-4 SIMM MOUDLE 72 PINS AS BANK 0

NOTE: 30 PIN SIMM MOUDLE CAN NOTE BE USED IF 72 PIN AS BANK 0

Memory Configuration

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Main board memory can be expanded from 4MB upto 64MB. Memory can be installed by using 1M,2M,4M and 16M * 36 SIMM RAM module.

MEMORY SIZE	30 PIN		72 PIN	
	SM1-SM4	SM5	SM6	
4M	1M * 9	1M * 36/32		
8M	1M * 9	1M * 36/23 2M * 36/32 1M * 36/32	1M * 36/32	
12M	1M * 9	1M * 36/32 2M * 36/32 1M * 36/32	1M * 36/32	1M * 36/32 1M * 36/32 2M * 36/32 2M * 36/32
16M	4M * 9 1M * 9	1M * 36/32 4M * 36/32 2M * 36/32	2M * 36/32	2M * 36/32
20M	1M * 9	4M * 36/32 4M * 36/32 1M * 36/32	1M * 36/32	4M * 36/32
24M	1M * 9 1M * 9 4M * 9	1M * 36/32 4M * 36/32	4M * 36/32	1M * 36/32 1M * 36/32 2M * 36/32
32M	4M * 9	4M * 36/32 8M * 36/32		
36M		8M * 36/32	1M * 36/32	8M * 36/32
	1M * 9 4M * 9 4M * 9 1M * 9	4M * 36/32 1M * 36/32 4M * 36/32 4M * 36/32	8M * 36/32	1M * 36/32 4M * 36/32 4M * 36/32 4M * 36/32
40M	1M * 9 1M * 9	8M * 36/32 4M * 36/32	1M * 36/32	8M * 36/32 8M * 36/32
48M	4M * 9 4M * 9	4M * 36/32 8M * 36/32	4M * 36/32	4M * 36/32 4M * 36/32 8M * 36/32
64M		16M * 36/32		
	16M * 9			

NOTE: SM5 and SM6 is used for DOUBLE SIDED SIMM module. Set JP39 to 1-2,3-4

NOTE: 1M * 9 : 1MB 30 pin SIMM (include 1M h 8)
4M * 9 : 4MB 30 pin SIMM (include 4M * 8)
16M * 9 : 16MB 30 pin SIMM (include 16M * 8)
1M * 36 : 4MB 72 pin Single Side SIMM (include 1M * 32)
2M * 36 : 8MB 72 pin Double Side SIMM
4M * 36 : 16MB 72 pin Single Side SIMM (include 4M * 32)
8M * 36 : 32MB 72 pin Double Side SIMM
16M * 36 : 64MB 72 pin Single Side SIMM (include 16M * 32)

CMOS Charge / Discharge Black jumper Cap

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CMOS Charge / Discharge is used to discharge and charge CMOS.If you discharge the CMOS all the datas will be erased. To discharge CMOS, place a jumper cap in pin 2 and 3, then turn on the power supply for 1 to 2 seconds then turn off the power supply. In this procedure the CMOS is discharged , all the datas in the CMOS is erased. Place the jumper cap in pin 1 and 2 for CMOS charge, then run setup.

Note: JP31 is also used as External Battery Connector

JP31	JP31	JP31
1-2 Charge CMOS	1-3 Discharge CMOS	1-4 External Battery Connector

VL-BUS Option Black jumper Cap

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JP8	JP9
OPEN > 33 MHz	OPEN 0 W/S
CLOSE < 33MHz	CLOSE 1 W/S

Main board Connectors

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Main board has five connectors that will be connected in your computer case front panel. Other connectors for power supply , keyboard and external battery.

JP25 Turbor LED connector will be connected in your computer case front panel. This will light up when the system is running in high speed. (Note the polarity of the LED)

JP1 Keylock and Power LED connector will be connected in your computer case front panel. Keylock is used to lock the keyboard. Power LED will light up when you turn on your power supply.

JP3 Speaker connector will be connected in the speaker of your computer case.

JP7 Reset Switch connector will be connected in your computer case front panel. Resetting the system ,it will restart the computer from self-test without turning off the power supply. This connection is always off position.

JP32 Keyboard connector, this is used for inputting signal from the keyboard.

JP31 External Battery connector is used for the external battery. This is used when internal battery is not connected.

JP29 Power Supply connector is connected from the output of the power supply. Most of the power supply has two connectors which will be connected to the main board. Each connector has six wire, two of the wires are black. To connect to the main board, make sure that the black wire is in the middle. Wrong connection will cause damage to the main board.

AWARD BIOS SETUP

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Award BIOS has a built-in setup program that allows the users to modify the basic system configuration. This type of information is stored in CMOS so that it retains the setup information when the power is turned off.

1. Turn on or reboot the system. when the below message appears at the bottom of

- the screen during the POST (Power On Self Test) press DEL key to enter setup.
2. Press the DEL key to enter the Award BIOS program and the main menu will appear on the screen.
 3. Use the arrow key to highlight the item you wish to modify and then press enter.
 4. Press <ESC> key at anytime to return to the main menu.
 5. In the main menu ,choose "SAVE & EXIT SETUP " to save the changes and reboot the system. Choosing "Exit WITHOUT SAVING " ignore the changes and exit the setup program.

STANDARD CMOS Setup

=====

This setup includes all the items in a standard compatible BIOS.

1. Choose "STANDARD CMOS SETUP " from the main menu and a Standard CMOS Setup menu will appear on the screen.
2. Use arrow key to move between items and selected values. Use PgUp/PgDn/-t/- keys to modify the selected item. Some items let you key in the value directly. Date (mm/dd/yy) Type the current date.

Time (hh/mm/ss)	Type the current time.
Drive C or D	Choose from the standard hard disk types 1 to 46. Type 47 is for user definable. If a hard disk is not installed choose "Not installed".
Drive A & B	Choose 360KB , 5.25 in. 1.2MB , 5.25 in. 120KB , 5.25 in. 1.4MB, 3.5 in. 2.88MB, 3.5 in. Not installed
Video	Choose Monochrome Color 40 x 25 Color 80 9 25

3. When you finish, press the <ESC> key to return to the main menu.

BIOS FEATURES SETUP

=====

This setup includes items of special enhanced features.

1. Choose "BIOS FEATURES SETUP " from the main menu and BIOS Features Setup menu will appear on the screen with the default values.
2. Use arrow key to move between items and selected values. Use PgUp/PgDn/+/- keys to modify the selected item. <F> functions are explained below:

<F1>	Help, gives options available for each item.
Shift <F2>	Change Color
<F5>	Get the old values ,for the user to start the current session.
<F6>	Load all option with the BIOS default values.
<F7>	Load all option with the Setup default values.

Virus Warning	This option enabled/disabled virus warning message if any attempt to write to the boot sector or hard disk partition.
CPU internal Cache	This option enabled/disabled the CPU internal cache memory.
External Cache	This option enabled/disabled the external cache memory.
Quick Power On	This option enable or disabled the BIOS past POST at boot up. Self Test
Boot Sequence	This option A,C / C, A the computer search the first drive for the operating system.
Swap Floppy Drive	This option enabled/disabled the boot up sequence from B to A drives.

Boot Up Floppy Seek	This option enabled/disabled the search of floppy disk drive.
Boot Up Numlock Status	This option on/off the numlock mode at boot up.
Boot Up System Speed	This option high/low speed that the system will run at after power on.
IDE HDD Block Mode	This option enabled/disabled the IDE HDD Block mode function. Not all HDD support this function.
Gate A20 Option	This option fast for chipset , normal for keyboard use of Gate A20
Memory Parity Check	This option enabled/disabled the memory parity check function.
Typematic Rate Setting	This option enable / disabled the typematic rate function.
Typematic Rate (Char/Sec)	This option set the rate of character repeat per second.
Typematic Delay character (Msec)	This option set the delay time between the first and second displayed.
Security Option	This option system/setup System - each time the system is booted the password prompt appears. Setup - If a password is set , the password prompt only appears if you try to enter the setup program.
Video or Adaptor BIOS Shadow	This option enabled/disabled video or adaptor BIOS shadow that will copy BIOS code from slower ROM to faster RAM.

3. After you finished the BIOS Features Setup program, press <ESC> to return to the main menu.

CHIPSET FEATURES SETUP

=====

This setup includes the items of chipset register features.

Note: Change the setting only if you are familiar with the chipset.

1. Choose "CHIPSET FEATURES SETUP " from the main menu and CHIPSET Features Setup menu will appear on the screen with the default values
2. Use arrow key to move between items and selected values. Use PgUp/PgDn/+/-keys to modify the selected item. <F> functions are explained below:
 - <F1> Help, gives options available for each item.
 - Shift <F2> Change Color
 - <F5> Get the old values, for the user to start the current session.
 - <F6> Load all option with the BIOS default values.
 - <F7> Load all option with the Setup default values.

Auto Configuration	This option enabled/disabled the system automatically set option of the chipset register value. Set to Enabled is strongly recommended
AT Bus Clock	This option selects the clock frequency for the AT Bus clock. CLK is 33 MHz and the AT Bus clock set to 1/4 the result is 8 MHz.
Enhanced System Timing	This option standard/fast for the Enhanced System Timing.

Cache Scheme	This option WB/WT on board cache working schemed.
Cyrix CPU Cache Scheme	This option WB/WT for Cyrix CPU internal cache working scheme.
Main memory cutoff at 15M	This option enabled/disabled the memory scan only up to 15M.
Video or Adaptor BIOS Shadow	This option enabled/disabled video or adaptor BIOS shadow that will copy BIOS code from slower ROM to faster RAM.

3. After you finished the CHIPSET Features Setup program, press <ESC> to return to the main menu.

POWER MANAGEMENT SETUP
=====

This setup includes the items of power management setup features.

1. Choose "POWER MANAGEMENT SETUP " from the main menu and Power Management Setup Features menu will appear on the screen with the default values.
2. Use arrow key to move between items and selected values. Use PgUp/PgDn/+/- keys to modify the selected item. <F> functions are explained below:

	<F1> Help, gives options available for each item.
Shift	<F2> Change Color
	<F5> Get the old values .for the user to start the current session.
	<F6> Load all option with the BIOS default values.
	<F7> Load all option with the Setup default values.

Power Management	Option are as follows:
	Disable Global Power management will be disabled.
	User Define Let's you define time HDD and System will power down.
	Min Saving Pre-defined timer values of 1 hr and 40 minutes.
	Max Saving Pre-defined timer values of 10 seconds.
	Optimize Pre-defined timer values are in reasonable time.

PM Control by APM	This option yes/no for Advanced Power Management. if APM is used you is used you must run "power.exe" under DOS \-6.0 or later version.
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VGA adaptor Type	This option green/non-green for VGA adaptor type.
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Doze Mode	This option set the time or disabled the doze mode to 8MHz.
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Standby Mode	This option set the time or disabled Standby mode to turn off the cache function.
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Suspend Mode	This option set the time or disabled Suspend mode to enter stop clock.
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HDD Power Down	This option set the time or disabled HDD Power-er Down.
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Power Down Activities xxx accessed	This option enabled/disabled the BIOS monitors' activities, If activity occurs from the enabled item the system will not enter into the green function mode. (power saving)
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LOAD BIOS DEFAULTS
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This item loads the BIOS default indicating the most appropriate value of the system parameter which the system would be in minimum performance. Choose this item and the following message appears:

"Load BIOS Defaults (Y/N)? N"

To use the SETUP defaults, change the prompt to "Y" and press <Enter >.

LOAD SETUP DEFAULTS

=====

This item loads the SETUP default indicating the most appropriate value of the system parameter which the system would be in maximum performance. Choose this item and the following message appears:

"Load SETUP Defaults (Y/N)? N"

To use the SETUP defaults, change the prompt to "Y" and press <Enter>.

PASSWORD SETTING

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This allows you to limit access to the system and setup.

1. Choose "PASSWORD SETTING" in the main menu and press <Enter>.

The following message appears on the screen.

"Enter Password:"

2. Enter a password and press <Enter>. (If you do not wish to use the password function, just press <Enter> and a "Password disabled" message appears.

3. After you enter your password, the following message appears, prompting you to confirm the new password: "Confirm Password:"

4. Re-enter your password and then press <ESC> to exit the main menu. Important If you forget the password, the only way to access the system is to resetting CMOS. Note :resetting the CMOS, all setup will lost and you must run BIOS setup program again.

IDE HDD AUTO DETECTION

=====

This main menu will automatically detect the hard disk type and configure the Standard CMOS setup accordingly.

Note :This function is only for valid IDE hard disk.

SAVE & EXIT SETUP

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This function saves the changes of values to the CMOS and exit setup.

EXIT WITHOUT SAVING

=====

This function abandons all CMOS changes and exit setup.

--- end of manual ---

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