P2MEX/A

Rev. A+

System Board
Carte Mère Manuel
System-Platine

User's Manual
Pour Utilisateur
Benutzerhandbuch

35900828

Caution:

Danger of explosion if battery incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the battery manufacturer's instructions.

FCC and DOC Statement on Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Notice:
1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables must be used in order to comply with the emission limits.

Table of Contents / Sommaire / Inhaltsverzeichnis

Chapter 1 - Introduction

Chapter 2 - Hardware Installation

Chapter 3 - Award BIOS Setup Utility

Chapter 4 - Supported Softwares

Appendix A - System Error Messages

Chapter 1 - Introduction / Introduction / Einleitung

1.1 Features and Specifications
Caractéristiques et Spécifications
Leistungsmerkmale und Technische Daten

1.1.1 Features / Caractéristiques / Leistungsmerkmale

Chipset
• Intel® 440EX AGPset

Processor
The system board is equipped with a switching voltage regulator that automatically detects 1.8V to 3.5V.
• 233MHz/266MHz/300MHz/333MHz Pentium® II processors
• 266/300/300A/333MHz Celeron™ processor

System Memory
The system board supports 8MB to 256MB using unbuffered SDRAM or EDO memory. It is equipped with two 168-pin DIMM sockets using x64 EDO (50/60ns) or SDRAM (10/12/13ns), 3.3V.

DIMMs	Memory Size	DIMMs	Memory Size
1MBx64	8MB	8MBx64	64MB
2MBx64	16MB	16MBx64	128MB
4MBx64	32MB		

Expansion Slots
The system board is equipped with 1 dedicated AGP slot, 1 dedicated PCI slots, 1 dedicated 16-bit ISA slots and 1 shared PCI/ISA slot. All PCI and ISA slots are bus masters.

Audio Features
• Supports Microsoft® DirectSound/DirectSound 3D
• 64-voice wavetable synthesis
• 3D positional audio effects
• AC'97 supported with full duplex, independent sample rate converter for audio recording and playback
• DOS game compatible (Sound Blaster and Sound Blaster Pro)

Desktop Management Interface (DMI)
The system board comes with a DMI 2.0 built into the BIOS. The DMI utility in the BIOS automatically records various information about your system configuration and stores these information in the DMI pool, which is a part of the system board's Plug and Play BIOS. DMI, along with the appropriately networked software, is

4

designed to make inventory, maintenance and troubleshooting of computer systems easier.

ATX Double Deck Ports
- 2 USB ports
- Two NS16C550A-compatible DB-9 serial ports
- One SPP/ECP/EPP DB-25 parallel port
- One mini-DIN-6 PS/2 mouse port
- One mini-DIN-6 PS/2 keyboard port
- One game/MIDI port
- Three audio jacks: speaker-out, line-in and mic-in

Connectors
- One connector for IrDA interface
- Two IDE connectors
- One floppy drive interface supports up to two 2.88MB floppy drives
- One 20-pin ATX/SFX power supply connector
- One 3-pin WOL (Wake-On-LAN) connector

PCI Bus Master IDE Controller
- Two PCI IDE interfaces support up to four IDE devices
- Ultra DMA/33 supported (Synchronous Ultra DMA mode - data transfer rate up to a maximum of 33MB/sec.)
- PIO Mode 3 and Mode 4 Enhanced IDE (data transfer rate up to 16.6MB/sec.)
- Bus mastering reduces CPU utilization during disk transfer
- ATAPI CD-ROM, LS-120 and ZIP supported

IrDA Interface
The system board is equipped with an IrDA connector for wireless connectivity between your computer and peripheral devices. It supports peripheral devices that meet the IrDA or ASK IR standard.

USB Ports
The system board is equipped with two USB ports. USB allows data exchange between your computer and a wide range of simultaneously accessible external Plug and Play peripherals.

BIOS
- Award BIOS, Windows® 95 Plug and Play compatible
- Flash EPROM for easy BIOS upgrades

PCB
- 4 layers, microATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")

5

1.1.2 Intelligence / Intelligence / Intelligente Ausstattungsteile

Automatic Fan On/Off Control
The CPU fan will automatically turn off when the system enters the Suspend mode. This prevents system overheat and prolongs fan life.

Dual Function Power Button
Depending on the setting in the BIOS setup, this switch will allow your system to enter the Soft-Off or Suspend mode.

External Modem Ring-on
The Modem Ring-on feature allows the system that is in the Suspend mode or Soft Power Off mode to wake-up/power-on to respond to incoming calls. This feature supports external modem only.

RTC Timer to Power-On the System
The RTC installed on the system board allows your system to automatically power-on on the set date and time.

Wake-On-LAN Ready
The Wake-On-LAN function allows the network to remotely wake up a Soft Power Down (Soft-Off) PC. Your LAN card must support the remote wakeup function.

Important:
The 5VSB power source of your power supply must support 720mA (minimum).

Wake-On-Keyboard
This function allows the keyboard to power-on the system. Refer to sections 2.3 (chapter 2) and 3.9 (chapter 3) for more information.

Important:
The power button will not function once a keyboard password has been set in the "KB Power On Password" field of the Integrated Peripherals setup. You must type the password to power-on the system.

Virus Protection
Most viruses today destroy data stored in hard drives. The system board is designed to protect the boot sector and partition table of your hard disk drive.

1.2 Package Checklist
Liste de Vérification de l'Emballage
Verpackungsliste

The system board package contains the following items:

☑ The system board
☑ A user's manual
☑ One 40-pin IDE hard disk cable
☑ One 34-pin floppy disk drive cable
☑ One CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

Chapter 2 - Hardware Installation
Installation du Matériel
Installation der Hardware

2.1 System Board Layout
Position de la Carte Système
Aufbau der Hauptplatine

JP1
CN1
CN2
CN3
CN4
CN5
CN6 SW1
JP2
JP7
Mitsumi
4DWAVE
JP4
Sony AC97

J2
CPU fan
ATX/SFX Power
PL1 FDC
I/O chip
Intel 82443EX
Intel Slot 1
J3
Secondary IDE Primary IDE
DIMM1 DIMM0
J4 J5
Battery Chassis Fan J1
AGP 1
J6 AGP fan
PCI 1
JP5
Intel PIIX4
Wake-On-LAN
PCI 2
ISA 1
ISA 2
BIOS

JP3
Clear CMOS
HDA
HD-LED
G-LED SB-LED
J7
RESET SP-SW
PWR-LED SPEAKER C-SW
J8

■ Square denotes pin 1

(CN1) (CN2)   (CN4)   (CN6)
Mouse USB0   Printer   Game

KB   USB1   COM A   COM B   Speaker Line Mic
              (CN3)   (CN5)   Out   In   In

8

2.2 DIP Switch Settings of the Processors
Positionnement des Cavaliers des Processeurs
DIP Schaltereinstellungen für den Prozessor

The table below shows the supported processors and their corresponding DIP switch settings (SW1).

Black rectangle denotes the part that is protruding, the "adjustable" switch

In the example above:

Switch 1: On
Switch 2: Off
Switch 3: On
Switch 4: On   SW1
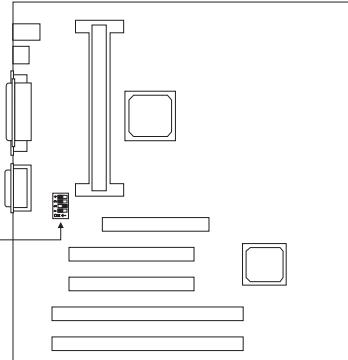
CPU Frequency	External System Bus Clock	Processor Frequency Ratio	SW1
233MHz	66MHz	3.5x	
266MHz	66MHz	4x	
300MHz	66MHz	4.5x	
333MHz	66MHz	5x	

Note:
Intel Pentium® II processors or Intel Celeron™ processors support VID (Voltage Identification). The switching voltage regulator on the system board will automatically set the voltage regulator according to the voltage of the processor.

9

2.3 Jumper Settings for Wake-On-Keyboard
Positionnement des Cavaliers pour Réveil-Sur-Clavier
Jumpereinstellungen für die Wake-On Tastatur

Jumper JP1 - Wake-on-Keyboard

To use the keyboard to power-on the system, please follow the steps below.

1. Make sure JP1 is in its default setting - 2-3 On.

2   Set "Keyboard Power On" in the Integrated Peripherals setup of the Award BIOS to "Enabled". Refer to section 3.9 (chapter 3) for more information.

1-2 On: Disable

2-3 On: Enable (default)
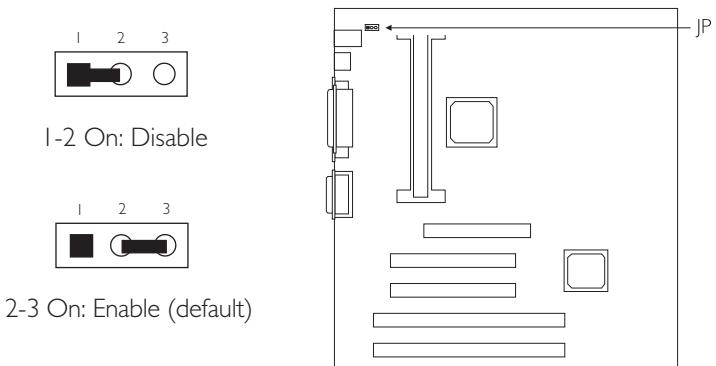
2.4 Jumper Settings for Clearing CMOS Data

Positionnement des Cavaliers pour Effacer les Données CMOS

Jumpereinstellungen zum Löschen der CMOS Daten

Jumper JP3 - Clear CMOS Data

To load the default values stored in the ROM BIOS, please follow the steps below.

1. Power-off the system and unplug the power cord.

2. Set JP3 pins 2 and 3 to On. Wait for a few seconds and set JP3 back to its default setting, pins 1 and 2 On.

3. Plug the power cord and power-on the system.

1-2 On: Normal
(default)

2-3 On:
Clear CMOS Data

JP3
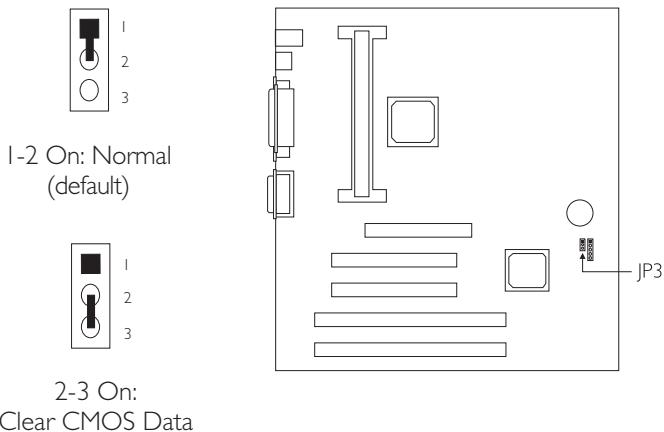
2.5 Connectors / Connecteurs / Anschlüsse

2.5.1 Floppy Disk Drive Controller and IDE Interface
Contrôleur de Lecteur de Disquette et Interface IDE
Diskettenlaufwerkcontroller und IDE Interface

J3 : FDC

J5 : Primary IDE

J4 : Secondary IDE
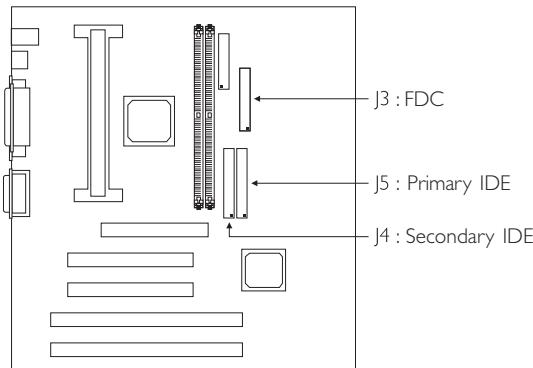
Important:
If you encountered problems while using an ATAPI CD-ROM drive that is set in Master mode, please set the CD-ROM drive to Slave mode. Some ATAPI CD-ROMs may not be recognized and cannot be used if incorrectly set in Master mode.

11

2.5.2 IrDA Connector
Connecteur IrDA
IrDA Anschlüsse
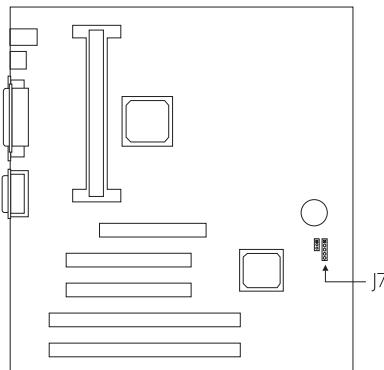
Pin	Function
1	IRTX
2	Ground
3	IRRX
4	Key
5	+5V

2.5.3 CPU Fan Connector
Connecteur du Ventilateur de CPU
CPU Kühlung Anschluß
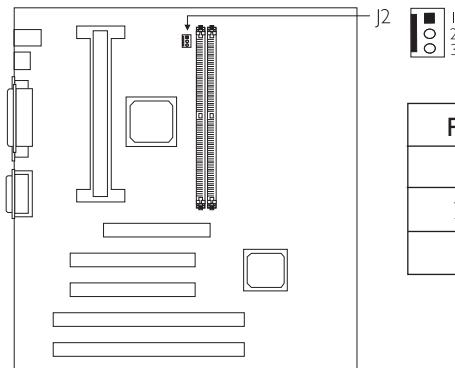
Pin	Function
1	Fan Ctrl
2	+12V
3	N. C.

2

2.5.4 Chassis Fan Connector
Connecteur de Châssis de Ventilateur
Anschluß Kühlungsgehäuse

Pin	Function
1	Ground
2	+12V
3	None
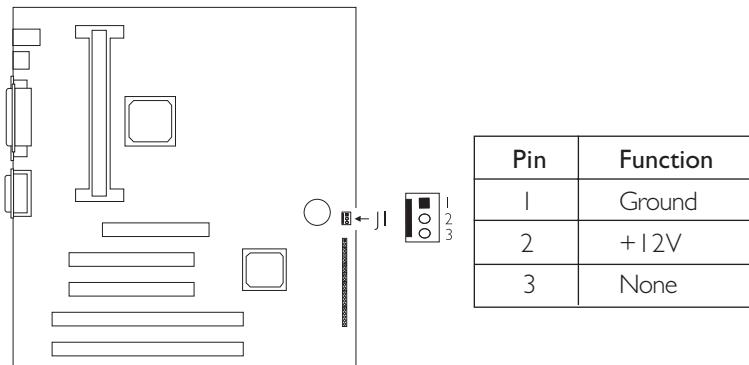
2.5.5 AGP Fan Connector
Connecteur de Ventilateur AGP
Anschluß AGP Kühlung

Pin	Function
1	Fan Ctrl
2	+12V
3	None
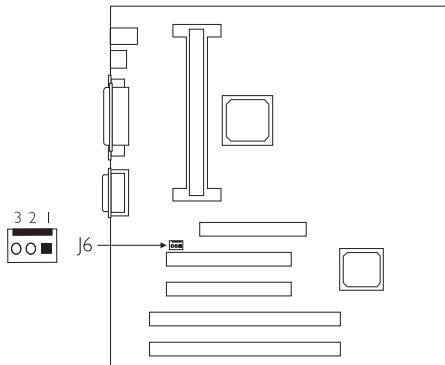
2.5.6 LEDs and Switches
Commutateurs et LED
LEDs und Schalter
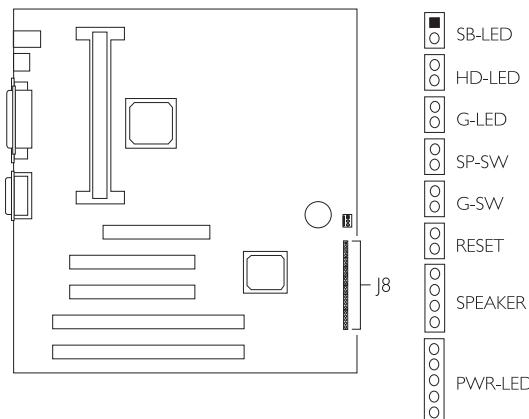
	Pin	Pin Assignment
SB-LED (ATX 5VSB Standby LED)	1 2	+5VSB ATX Power Ground
	3	N. C.
HD-LED (Primary/Secondary IDE LED)	4 5	HDD LED Power HDD Active
	6	N. C.
G-LED (Green LED)	7 8	Green LED Power Green Active
	9	N. C.
SP-SW (ATX power switch)	10 11	PW-ON Ground
	12	N. C.
G-SW (Green switch)	13 14	Ext SMI Ground
	15	N. C.
RESET (Reset switch)	16 17	SW-RST Ground
	18	N. C.
SPEAKER (Speaker connector)	19 20 21 22	Speaker Data N. C. Ground Speaker Power
	23	N. C.
PWR-LED (Power LED)	24 25 26 27 28	LED-PW Key PWR-LED Active N. C. Ground

Important:
SP-SW (ATX Power Switch) - Depending on the setting in the BIOS setup, this switch is a "dual function power button" that will allow your system to enter the Soft-Off or Suspend mode. Refer to section 3.7 (chapter 3) for more information.

2.5.7 CD Audio-in Connector
Connecteur d'Entrée Audio CD
CD Audio-in Anschluß
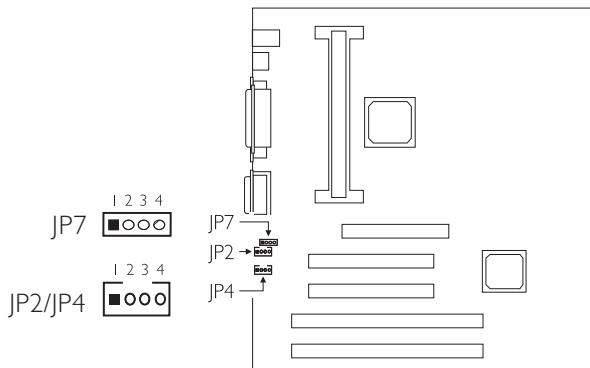
Pin	JP2 - Mitsumi	JP4 - Sony	JP7
1	CD-G	CD-R	CD-R
2	CD-L	CD-G	CD-G
3	CD-G	CD-G	CD-G
4	CD-R	CD-L	CD-L

Connect the CD audio cable to JP2 (Mitsumi CD-ROM) or JP4 (Sony CD-ROM) if the audio cable included in your CD-ROM package is similar to the one on the right.

15

Connect the CD audio cable to JP7 if the audio cable included in your CD-ROM package is similar to the one on the right.

2.5.8 Wake-On-LAN (WOL) Connector
Connecteur Réveil-Sur-LAN (WOL)
Wake-On-LAN (WOL) Anschluß
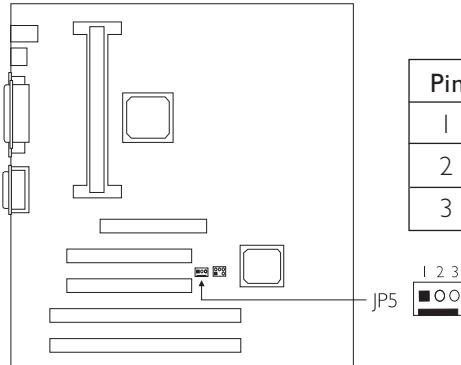
Pin	Function
1	+5VSB (720mA)
2	Ground
3	WOL

JP5

Important:
The 5VSB power source of your power supply must support 720mA (minimum).

2.5.9 Power Connector
Connecteur d'Alimentation
Netzanschluß

PL1
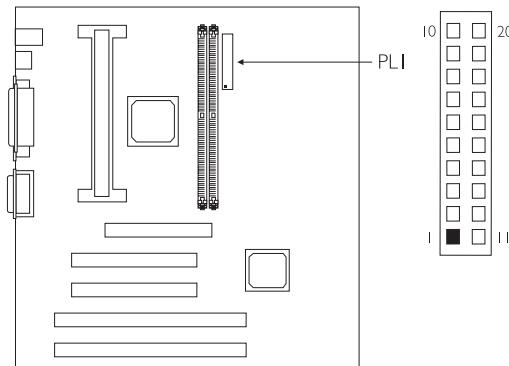
Pin	Function	Pin	Function
1	3.3V/14A	11	3.3V/14A
2	3.3V/14A	12	-12V
3	Ground	13	Ground
4	+5V	14	PS-ON
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	PW-OK	18	-5V
9	5VSB	19	+5V
10	+12V	20	+5V

Important:
Pin 18 (-5V) is not present in an SFX power supply.

Your power supply must meet the ATX specification - supporting 3.3V/14A (minimum), otherwise your system will not boot properly.

Chapter 3 - Award BIOS Setup Utility
Utilitaire de Configuration du Award BIOS
AWARD BIOS Konfigurationsprogramm

3.1 Entering the Award BIOS Setup Utility
Entrer Dans l'Utilitaire de Configuration du Award BIOS
Aufruf des AWARD BIOS Konfigurationsprogramms

Power-on the system and press <Del> to enter the utility. The main program screen will appear.

Allumez le Système et appuyez sur <Del> pour entrer dans l'utilitaire. L'écran du programme principal apparaîtra.

Zum Aufrufen des Konfigurationsprogramms drücken Sie während des Startvorgangs die Taste <Del>. Ein Bildschirm ähnlich dem folgenden erscheint.

```
                         ROM PCI/ISA BIOS
                        CMOS SETUP UTILITY
                       AWARD SOFTWARE, INC.

    STANDARD CMOS SETUP              INTEGRATED PERIPHERALS
    BIOS FEATURES SETUP             SUPERVISOR PASSWORD
    CHIPSET FEATURES SETUP          USER PASSWORD
    POWER MANAGEMENT SETUP          IDE HDD  AUTO DETECTION
    PNP/PCI CONFIGURATION           SAVE & EXIT SETUP
    LOAD FAIL-SAFE SETTINGS         EXIT WITHOUT SAVING
    LOAD OPTIMAL SETTINGS


    Esc  :  Quit                    ↑↓→←    :  Select Item
    F10  :  Save & Exit Setup       (Shift) F2  :  Change Color

```

3.2 Setting the Date and Time
Paramétrage de la Date et de l'Heure
Einstellen des Datums und der Zeit
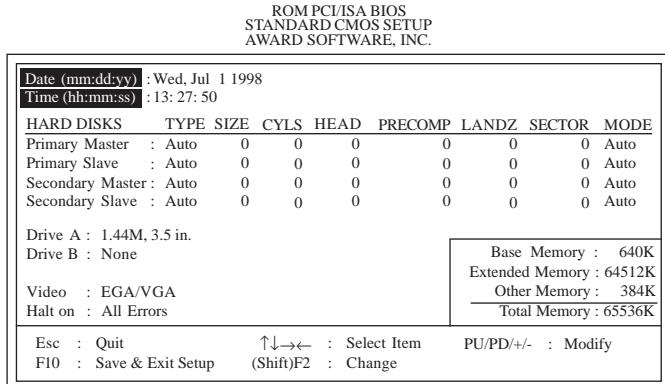
ROM PCI/ISA BIOS
STANDARD CMOS SETUP
AWARD SOFTWARE, INC.

```
Date  (mm:dd:yy)  : Wed, Jul  1 1998
Time (hh:mm:ss)  : 13: 27: 50

HARD DISKS          TYPE  SIZE  CYLS  HEAD  PRECOMP  LANDZ  SECTOR  MODE
Primary Master    : Auto    0     0     0       0       0       0   Auto
Primary Slave     : Auto    0     0     0       0       0       0   Auto
Secondary Master : Auto    0     0     0       0       0       0   Auto
Secondary Slave  : Auto    0     0     0       0       0       0   Auto

Drive A :  1.44M, 3.5 in.
Drive B :  None                              Base Memory :    640K
                                       Extended Memory : 64512K
Video   : EGA/VGA                          Other Memory :    384K
Halt on : All Errors                       Total Memory : 65536K

 Esc  :  Quit                ↑↓→←  :  Select Item    PU/PD/+/-  :  Modify
 F10  :  Save & Exit Setup  (Shift)F2  :  Change
```

1. Select "Standard CMOS Setup" in the main program screen and press <Enter>.

   Sélectionnez "Standard CMOS Setup" dans l'écran du programme principal et appuyez sur <Entrée>.

   "Standard CMOS Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Set the correct date and time in the "Date" and "Time" fields respectively.

   Sélectionnez la date et l'heure correcte dans les champs "Date" et "Time" respectivement.

   Jeweils korrekte Werte in die Eingabefelder "Date" (Datum) und "Time" (Zeit) eingeben.

3.3 Selecting the Hard Drive and Floppy Drive Type

Sélectionnez le Type de Disque Dur et de Lecteur de Disquette

Auswahl der Festplatte und des Diskettenlaufwerks
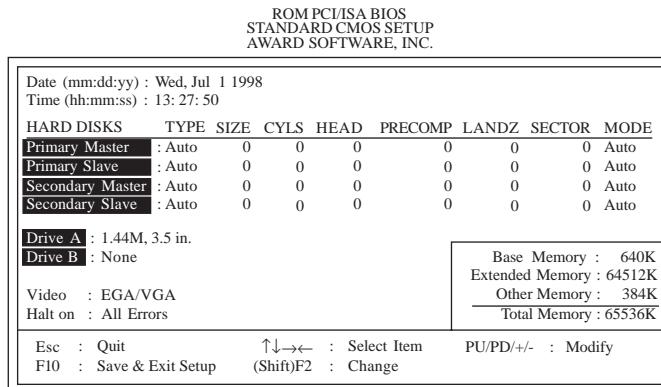
```
                        ROM PCI/ISA BIOS
                       STANDARD CMOS SETUP
                       AWARD SOFTWARE, INC.

 Date (mm:dd:yy) : Wed, Jul  1 1998
 Time (hh:mm:ss) : 13: 27: 50

 HARD DISKS         TYPE  SIZE  CYLS  HEAD  PRECOMP  LANDZ  SECTOR  MODE
 Primary Master   : Auto   0     0     0        0      0       0   Auto
 Primary Slave    : Auto   0     0     0        0      0       0   Auto
 Secondary Master : Auto   0     0     0        0      0       0   Auto
 Secondary Slave  : Auto   0     0     0        0      0       0   Auto

 Drive A : 1.44M, 3.5 in.
 Drive B : None
                                            Base Memory :    640K
                                        Extended Memory : 64512K
 Video   : EGA/VGA                          Other Memory :   384K
 Halt on : All Errors                       Total Memory : 65536K

  Esc  :  Quit                ↑↓→←  :  Select Item    PU/PD/+/-  :  Modify
  F10  :  Save & Exit Setup  (Shift)F2  :  Change
```

1. Select "Standard CMOS Setup" in the main program screen and press <Enter>.

   Sélectionnez "Standard CMOS Setup" dans l'écran du programme principal et appuyez sur <Entrée>.

   "Standard CMOS Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select "Auto" for the hard disk drive(s) installed in your system. The BIOS will auto-detect the HDD & CD-ROM drive at the POST stage and show the IDE for the HDD & CD-ROM drive. If a hard disk has not been installed, select "None" and press <Enter>.

   Sélectionnez "Auto" pour le(s) disque(s) dur(s) installés dans votre système. Le BIOS détectera automatiquement le Disque Dur et le Lecteur CD-ROM durant la phase POST et affichera l'IDE du Disque Dur et du Lecteur CD-ROM. Si aucun disque dur n'a été installé, sélectionnez "None" et appuyez sur <entrée>.

   Im Eintrag "Hard Disk Drive(s)" (Festplatte) "Auto" auswählen. Das Programm entdeckt die Festplatte sowie das CD-ROM Laufwerk während der Initialisierung automatisch. Ist keine Festplatte installiert, aktivieren Sie den Eintrag "None". Eingabetaste (Enter) drücken.

3. Set the type of floppy drive installed in the "Drive A" and "Drive B" fields. The options are None, 360K, 1.2M, 720K, 1.44M and 2.88M.

Paramétrez le type de lecteur de disquette installé dans les champs "Drive A" et "Drive B". Les options sont None, 360K, 1.2M, 720K, 1.44M et 2.88M.

Im Eintrag "Floppy Drive" (Diskettenlaufwerk) wählen Sie "Drive A" (Laufwerk A) und "Drive B" (Laufwerk B). Die Optionen sind None (Kein), 360K, 1.2M, 720K, 1.44M und 2.88M.

3.4 Selecting the Drive to be Searched First for an Operating System

Sélectionner le Lecteur qui doit être Détecté en premier par un Système d'Exploitation

Auswahl des Bootlaufwerks

```
                      ROM PCI/ISA BIOS
                     BIOS FEATURES SETUP
                    AWARD SOFTWARE, INC.

 Virus Warning            : Disabled
 CPU L1 Cache             : Enabled
 CPU L2 Cache             : Enabled
 Quick Power On Self Test : Enabled
 Boot Sequence            : A, C, SCSI
 Swap Floppy Drive        : Disabled
 Boot Up Floppy Seek      : Disabled
 Boot Up NumLock Status   : On
 Typematic Rate Setting   : Disabled
 Typematic Rate (Chars/Sec) : 6
 Typematic Delay (Msec)   : 250
 Security Option          : Setup
 PCI/VGA Palette Snoop    : Disabled
 OS Select For DRAM > 64MB : Non-OS2      ESC  :  Quit         ↑↓→←        : Select Item
 HDD S.M.A.R.T. Capability  : Disabled    F1   :  Help         PU/PD/+/-   : Modify
                                          F5   :  Old Values (Shift) F2    : Color
                                          F6   :  Load Fail-Safe Settings
                                          F7   :  Load Optimal Settings
```

1. Select "BIOS Features Setup" in the main program screen and press <Enter>.

Sélectionnez "BIOS Features Setup" dans l'écran de programme principal et appuyez sur <Entrée>.

"BIOS Features Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select the drive to be searched first in the "Boot Sequence" field. The default is A, C, SCSI. The other options are: C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; C only and LS120/ZIP, C.

Sélectionnez le lecteur qui devra être détecté en premier dans le champs ''Boot Sequence''. La valeur par défaut est A, C, SCSI. Les autres options sont: C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; C seulement et LSI20/ZIP, C.

Im ''Boot Sequence'' Feld wählen Sie die Sequenz, in welcher der Computer nach einem Betriebssystem sucht. Die Optionen sind C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; nur C und LS120/ZIP, C.

3.5 Setting the External System Bus Clock of the Processor

Paramétrage de l'Horloge Externe de Bus Système du Processeur

Auswahl des externen Systemtaktgebers Ihres Prozessors

```
                              ROM PCI/ISA BIOS
                          CHIPSET FEATURES SETUP
                           AWARD SOFTWARE, INC.

  SDRAM RAS-to-CAS Delay        : Slow
  SDRAM RAS Precharge Time      : Slow
  SDRAM CAS Latency Time        : 3
  System BIOS Cacheable         : Disabled
  Video BIOS Cacheable          : Enabled
  Video RAM Cacheable           : Disabled
  8 Bit I/O Recovery Time       : 1
  16 Bit I/O Recovery Time      : 1
  Memory Hole At 15M-16M        : Disabled
  PCI 2.1 Compliance            : Disabled
  AGP Aperture Size (MB)        : 64
  CPU Bus Clock                 : 66MHz

                                         ESC  :  Quit        ↑↓→←   :  Select Item
                                         F1   :  Help         PU/PD/+/- :  Modify
                                         F5   :  Old Values  (Shift) F2  :  Color
                                         F6   :  Load Fail-Safe Settings
                                         F7   :  Load Optimal Settings
```

1. Select ''Chipset Features Setup'' in the main program screen and press <Enter>.

    Sélectionnez ''Chipset Features Setup'' dans l'écran de programme principal et appuyez sur <Entrée>.

    ''Chipset Features Setup'' in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select the external system bus clock of your processor in the ''CPU Bus Clock'' field. The options are: 50MHz, 60MHz, 66MHz, 68MHz, 75MHz and 83MHz.

    Sélectionnez l'Horloge Externe de Bus Système de votre processeur dans le champ ''CPU Bus Clock''. Les options sont 50MHz, 60MHz, 66MHz, 68MHz, 75MHz et 83MHz.

Im "CPU Bus Clock" Feld sind folgende Optionen möglich: 50MHz, 60MHz, 66MHz, 68MHz, 75MHz und 83MHz.

Note / Note / Anmerkung:

The default is 66MHz. Do not alter this setting unless necessary. We do not guarantee your system will work properly with the other options.

La valeur par défaut est 66MHz. Ne changez pas ce paramètre sauf en cas de nécessité. Nous ne garantissons pas que votre système puisse fonctionner avec les autres options.

Die Standardeinstellung ist 66MHz. Diese Einstellung sollte nicht von Ihnen geändert werden, das Ihr System möglicherweise nicht mit anderen Einstellungen arbeitet!

3.6 Selecting an IRQ for the External Modem
Sélectionner une IRQ pour le Modem Externe
IRQ Bestimmung für ein externes Modem

```
                          ROM PCI/ISA BIOS
                       POWER MANAGEMENT SETUP
                         AWARD SOFTWARE, INC.

   ACPI Function            : Disabled
   Power Management         : User Define
   PM Control by APM        : Yes
   Video Off Method         : DPMS
   Video Off After          : Standby
   MODEM Use IRQ            :  3
   Standby Mode             : Disabled
   Suspend Mode             : Disabled
   HDD Power Down           : Disabled
   VGA Active Monitor       : Disabled
   Soft-Off by PWR-BTTN     : Instant-Off
   Resume PWR Lost State    : Disabled
   Resume On Ring           : Disabled
   Resume On LAN            : Disabled         ESC : Quit        ↑↓→← : Select Item
   Resume On Alarm          : Disabled         F1  : Help      PU/PD/+/- : Modify
                                               F5  : Old Values (Shift) F2  : Color
                                               F6  : Load Fail-Safe Settings
                                               F7  : Load Optimal Settings
```

1. Select "Power Management Setup" in the main program screen and press <Enter>.

    Sélectionnez "Power Management Setup" dans l'écran de programme principal et appuyez sur <Entrée>.

    "Power Management Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select an IRQ for the external modem in the "MODEM Use IRQ" field. The options are IRQ 3, 4, 5, 7, 9, 10 or 11. You need to select an IRQ only if you are using the modem ring-on function.

Sélectionnez une IRQ pour le modem externe dans le champ "MODEM Use IRQ" Les options sont IRQ 3, 4, 5, 7, 9, 10 ou 11. Vous devez sélectionner une seule IRQ seulement si vous utilisez la fonction de sonnerie du modem.

In dem Feld "MODEM Use IRQ" eine entsprechende IRQ-Bestimmung für das externen Modem vornehmen. Die Optionen sind IRQ 3, 4, 5, 7, 9, 10 und 11. Eine Einstellung ist nur dann nötig, wenn bestimmte Funktionen (ring-on) des Modems benutzt werden sollen.

3.7 Selecting the Method of Powering-off the System
Sélection de la Méthode pour Eteindre le Système
Auswahl der Abschaltmethode

```
                          ROM PCI/ISA BIOS
                      POWER MANAGEMENT SETUP
                        AWARD SOFTWARE, INC.

ACPI Function          : Disabled
Power Management       : User Define
PM Control by APM      : Yes
Video Off Method       : DPMS
Video Off After        : Standby
MODEM Use IRQ          : 3
Standby Mode           : Disabled
Suspend Mode           : Disabled
HDD Power Down         : Disabled
VGA Active Monitor     : Disabled
Soft-Off by PWR-BTTN   : Instant-Off
Resume PWR Lost State  : Disabled
Resume On Ring         : Disabled
Resume On LAN          : Disabled
Resume On Alarm        : Disabled
                                     ESC  : Quit        ↑↓→←  : Select Item
                                     F1   : Help        PU/PD/+/-  : Modify
                                     F5   : Old Values (Shift) F2  : Color
                                     F6   : Load Fail-Safe Settings
                                     F7   : Load Optimal Settings
```

1. Select "Power Management Setup" in the main program screen and press <Enter>.

   Sélectionnez "Power Management Setup" dans l'écran de programme principal et appuyez sur <Entrée>.

   "Power Management Setup" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Select the method of powering-off the system in the "Soft-Off by PWR-BTTN" field. The options are Hold 4 Sec. and Instant-Off.

   Sélectionnez la Méthode pour éteindre le système dans le champ "Soft-Off by PWR-BTTN". Les options sont Hold 4 Sec. et Instant-Off.

In dem Feld ''Soft-Off by PWR-BTTN'' können Sie die Methode bestimmen, mit welcher Ihr Rechner ausgeschaltet wird. Die Optionen sind Hold 4 Sec. (4 Sekunden warten) und Instant-Off (Direktabschaltung).

Hold 4 Sec.

If the power button is pushed and released in less than 4 seconds, the system enters the Suspend mode. Push and release it again in less than 4 seconds to restore. Pushing the power button for more than 4 seconds will power-off the system.

Si le bouton de mise sous tension est poussé puis relâché en moins de 4 secondes, le système entrera en mode suspend. Poussez le et relâchez le à nouveau en moins de 4 secondes pour restaurer la fonction. Le fait d'appuyer sur le bouton de mise sous tension pendant plus de 4 secondes éteindra le système.

Wird die Netztaste gedrückt und innerhalb von 4 Sekunden wieder losgelassen, schaltet sich das System in den Suspend-Modus. Ein erneutes Drücken mit einem Loslassen innerhalb von 4 Sekunden stellt den Normalzustand wieder her. Wird die Netztaste für die Dauer von über 4 Sekunden gedrückt gehalten, schaltet sich das System ab.

Instant-Off

Pressing and then releasing the power button at once will immediately power-off the system.

Le fait d'appuyer sur le bouton de mise sous tension en une fois éteindra le système immédiatement.

Normales Drücken der Netztaste schaltet das System augenblicklich ab.

3.8 Loading Fail-Safe Settings/Optimal Settings
Charger les Paramètres à Sécurité Relative Optimaux
Laden der Fail - Safe Einstellungen / Optimierte Einstellungen

The "Load Fail-Safe Settings" option loads the troubleshooting default values permanently stored in the ROM chips. These settings are not optimal and turn off all high performance features. You should use these values only if you have hardware problems. The "Load Optimal Settings" option loads optimized settings from the BIOS ROM. Use the Setup default values as standard values for your system.

L'option "Charger les Paramètres à Sécurité Relative" charge les valeurs de recherche de pannes par défaut stockées de manière permanente dans les puces ROM. Ces paramètres ne sont pas optimum et désactives toutes les fonctionnalités à haute performance. Vous pouvez utiliser ces valeurs seulement si vous rencontrez des problèmes de matériel.

Mit dieser Funktionen lassen sich Standardeinstellungen in dem permanenten ROM Speicher ablegen, die in Problemfällen geladen werden. Mit dieser Einstellung läßt sich der Computer im Standardmodus starten. Sie sollten diese Werte nur dann benutzen, wenn Hardwareprobleme etc. eine Starten des Computers nicht zulassen. Mit der Auswahl "Load Optimal Settings" lassen sich die optimierten Einstellungen von dem BIOS ROM abrufen. Die optimierten Einstellungen sind der Standardwert.

3.9 Enabling the Wake-On-Keyboard Function
Activer la Fonction Réveil-Sur-Clavier
Aktivieren der Wake-On Tastatur Funktion

```
                        ROM PCI/ISA BIOS
                     INTEGRATED PERIPHERALS
                      AWARD SOFTWARE, INC.

  IDE HDD Block Mode      : Enabled   Keyboard Power On   : Disabled
  IDE Primary Master PIO  : Auto
  IDE Primary Slave PIO   : Auto      KBC input clock       : 8MHz
  IDE Secondary Master PIO: Auto      Onboard FDC Controller: Enabled
  IDE Secondary Slave PIO : Auto      Onboard Serial Port 1 : 3F8/IRQ4
  IDE Primary Master UDMA : Auto      Onboard Serial Port 2 : 2F8/IRQ3
  IDE Primary Slave UDMA  : Auto      UART2 Mode            : Standard
  IDE Secondary Master UDMA : Auto
  IDE Secondary Slave UDMA : Auto     Onboard Parallel Port : 378/IRQ7
  On-chip Primary PCI IDE : Enabled   Parallel Port Mode    : ECP+EPP
  On-chip Secondary PCI IDE : Enabled ECP Mode Use DMA      : 3
  USB Keyboard Support    : Disabled
  Init AGP Display First  : Enabled

                                      ESC  : Quit      ↑↓→←  : Select Item
                                      F1   : Help      PU/PD/+/-  : Modify
                                      F5   : Old Values (Shift) F2  : Color
                                      F6   : Load Fail-Safe Settings
                                      F7   : Load Optimal Settings
```

1. Select "Integrated Peripherals" in the main program screen and press <Enter>.

    Sélectionnez "Integrated Peripherals" dans l'écran de programme principal et appuyez sur <Entrée>.

    "Integrated Peripherals" in dem Hauptbildschirm auswählen, und die Eingabetaste (Enter) drücken.

2. Set the "Keyboard Power On" field to Enabled. The "KB Power On Password" field will appear.

    Positionnez le champ "Keyboard Power On" sur Activer. Le champ "KB Power On Password" apparaîtra.

    Den Eintrag "Keyboard Power On" aktivieren. Die Mitteilung "KB Power On Password" erscheint.

3. Enter your password and press <Enter>. You can enter up to 5 characters only.

    Tapez le mot de passe et appuyez sur <Entrée>. Vous pouvez taper jusqu'à 5 caractères seulement.

    Geben Sie ein Paßwort mit maximal 5 Stellen ein und drücken die Eingabetaste (Enter).

4. Confirm your password by pressing <Enter>.

    Confirmez votre mot de passe en appuyant sur <Entrée>.

    Paßwort bestätigen und die Eingabetaste (Enter) drücken.

Important:
1. The power button will not function once a keyboard password has been set in the "KB Power On Password" field. You must type the password to power-on the system.

    Le bouton de mise sous tension ne fonctionnera plus une fois que le mot de passe clavier aura été défini dans le champ "KB Power On Password". Vous devrez taper le mot de passe pour allumer le système.

    Wird ein Paßwort ausgewählt in dem "KB Power On Password" Feld eingegeben, muß zuerst das Paßwort eingegeben werden, bevor der Computer eingeschaltet werden kann.

2. Make sure JP1 is set to 2-3 On.

Assurez vous que JP1 est positionné sur la sélection 2-3.

Es ist darauf zu achten, daß sich JP1 in der Einstellung 2-3 An befindet.

3.10 Setting the Supervisor/User Password

If you want to protect your system and the setup utility from unauthorized entry, set a password in the "Supervisor Password" field. If you want a user to have access only to your system but not to setup, set a password in the "User Password" field. Use the arrow keys to highlight the "Supervisor Password" or "User Password" field and press <Enter>. The message below will appear.

Enter Password:

Type in the password. You can enter up to eight characters only. You will then be prompted to confirm the password. Type in exactly the same password.

Make sure to set the "Security Option" field in the BIOS Features Setup to "System" or "Setup". This will depend on when you would like the system to be prompted with a password.

Définir le Mot de Passe Superviseur/Utilisateur

Si vous désirez protéger votre système et Install contre toute entrée non autorisée, paramétrez un mot de passe dans le champ "Supervisor Password". Si vous désirez protéger l'accès à Install seulement, mais pas votre système, paramétrez un mot de passe dans le champ "User Password". Utilisez les touches fléchées pour sélectionner le champ "Supervisor Password" ou "User Password" et appuyez sur <Entrée>. Le message ci-dessous apparaîtra.

Enter Password:

Entrez le mot de passe. Vous êtes limité à huit caractères. Une fois que c'est fait, vous serez invité à confirmer le mot de passe, entrez exactement le même mot de passe.

Assurez vous de positionner le champs "Security Option" dans les BIOS Features Setup sur "System" ou "Setup". Cela dépend du moment où vous désirez que le système vous demande le mot de passe.

Aktivieren eines Supervisor / Benutzer Paßwortes

Wenn Sie das "Supervisor Password" aktivieren, müssen Sie vor dem Einstieg in das Konfigurationsprogramm ein Kennwort eingeben., während das "User Password" den Zugang zu dem Computer ermöglicht. Wählen Sie den Eintrag "Supervisor Password" bzw. "Supervisor Password" und betätigen Sie die Eingabetaste (Enter). Im erscheinenden Dialogfeld.

Enter Password:

Geben Sie Ihr Kennwort mit bis zu 8 Stellen ein. Betätigen Sie die Eingabetaste und geben Sie das Kennwort als Bestätigung erneut ein.

Es ist darauf zu achten, daß das Feld "Security Option" in dem BIOS Features Setup auf "System" oder "Setup" gesetzt ist.

Chapter 4 - Supported Softwares
Logiciels Supportés
Unterstützte Software

4.1 Drivers and Utility
Pilotes et Utilitaires
Treiber und Hilfsprogramme

The CD included in the system board package contains audio drivers and a utility. All steps or procedures to install software drivers are subject to change without notice as the softwares are occassionally updated. Please refer to the readme files for the latest information.

Audio Driver

Insert the CD that came with the system board into a CD-ROM drive. The autorun screen (Main Board Utility CD) will appear. Click "4DWAVE Audio Driver" to install.

> **Important:**
> *Before installing the audio driver, please read carefully the installation instructions and warning messages in the "Audio Driver Installation Guide". You will find this installation guide in the autorun screen. Failure to do so might cause improper installation.*

Patch Utility

If you are running Windows® 95 (Win95, Win95+, Win95 OSR1: Windows 95 OEM Service Release 1, Win95 OSR2: Windows 95 OEM Service Release 2.0 or Win95 OSR2.1: Windows 95 OEM Service Release 2.0 plus USB Supplement), you need to run the patch utility. Please refer to its "readme" file for instructions on installing the utility.

Appendix A - System Error Message
Messages d'Erreur du Système
Fehlernachricht des Systems

When the BIOS encounters an error that requires the user to correct something, either a beep code will sound or a message will be displayed in a box in the middle of the screen and the message, PRESS F1 TO CONTINUE, CTRL-ALT-ESC or DEL TO ENTER SETUP, will be shown in the information box at the bottom. Enter Setup to correct the error.

A.1 POST Beep / Pip de POST / Akustisches POST-Signal

There are two kinds of beep codes in the BIOS. One code indicates that a video error has occured and the BIOS cannot initialize the video screen to display any additional information. This beep code consists of a single long beep followed by three short beeps. The other code indicates that a DRAM error has occured. This beep code consists of a single long beep.

A.2 Error Messages / Messages d'Erreur / Fehlernachrichten

One or more of the following messages may be displayed if the BIOS detects an error during the POST. This list indicates the error messages for all Awards BIOSes:

CMOS BATTERY HAS FAILED

The CMOS battery is no longer functional. It should be replaced.

⚠ **Caution:**
Danger of explosion if battery incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the battery manufacturer's instructions.

CMOS CHECKSUM ERROR

Checksum of CMOS is incorrect. This can indicate that CMOS has become corrupt. This error may have been caused by a weak battery. Check the battery and replace if necessary.

DISPLAY SWITCH IS SET INCORRECTLY

The display switch on the motherboard can be set to either monochrome or color. This indicates the switch is set to a different

setting than indicated in Setup. Determine which setting is correct, either turn off the system and change the jumper or enter Setup and change the VIDEO selection.

FLOPPY DISK(S) fail (80)

Unable to reset floppy subsystem.

FLOPPY DISK(S) fail (40)

Floppy type mismatch.

Hard Disk(s) fail (80)

HDD reset failed.

Hard Disk(s) fail (40)

HDD controller diagnostics failed.

Hard Disk(s) fail (20)

HDD initialization error.

Hard Disk(s) fail (10)

Unable to recalibrate fixed disk.

Hard Disk(s) fail (08)

Sector Verify failed.

Keyboard is locked out - Unlock the key

The BIOS detects that the keyboard is locked. Keyboard controller is pulled low.

Keyboard error or no keyboard present

Cannot initialize the keyboard. Make sure the keyboard is attached correctly and no keys are being pressed during the boot.

Manufacturing POST loop

System will repeat POST procedure infinitely while the keyboard controller is pull low. This is also used for the M/B burn in test at the factory.

BIOS ROM checksum error - System halted

The checksum of ROM address F0000H-FFFFFH is bad.

Memory test fail

The BIOS reports memory test fail if the memory has error(s).