Aspire T120E/AcerPower M2
Service Guide

Revision History

Please refer to the table below for the updates made on Aspire T120E service guide.

Date	Chapter	Updates

Copyright

Disclaimer

Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

System Specifications

Features

CPU

- ❑ Support AMD Athlon^{TM} /Athlon^{TM} XP/ Duron^{TM} CPU.
- ❑ Support 333/400MHz CPU FSB.
- ❑ Support 1.4GHz and faster.

Chipset

- ❑ North Bridge :SiS 741
- ❑ South Bridge : SiS 964L

Memory

- ❑ Socket Type: 184-pin socket.
- ❑ Socket Quantity: 2
- ❑ Memory Type:DDR-SDRAM 400/333/266 DIMM
- ❑ Support 128MB, 256MB and 512MB DDR memory technologies
- ❑ Max Cpapcity:Up to 2.0 GB
- ❑ Support STR(Suspend to RAM)
- ❑ Support for unbuffered ECC, non-ECC RAM

Graphics

- ❑ SiS on-die graphic solution
- ❑ UDMA technology support
- ❑ Dual view function support
- ❑ 1 VGA port on rear

AGP/PCI Slots

- ❑ AGP Slot Type : AGP 8X 1.5V Slot(Backwards compatible with AGP 4X)
- ❑ Support Maximum AGP interface bandwidth 2.1GB/s
- ❑ AGP Slot Quantity : 1
- ❑ PCI Slot Type : PCI 2.2 5V Slots
- ❑ PCI Slot Quantity : 3

FDD

- ❑ One FDD slot supports 1.44MB/ 3 mode 3.5" devices

IDE

- ❑ Slot Type: 40 pin IDE slot
  - ❑ Slot Quantity: 2
  - ❑ support ATA 66/100/133

- ❑ support PIO 0/1/2/3/4
- ❑ Storage Type support
  - ❑ HDD/CD-ROM/CD-RW/DVD
  - ❑ Zip250

Audio

- ❑ Chip : AC' 97 CODEC, 20 bit with amplifier
- ❑ Type : RealTeck ALC655
- ❑ Channel : 2
- ❑ Support stereo speakers with built-in subwoofer

LAN

- ❑ Supports 10/100MB ethernet environment
- ❑ Type : Build in RealTek RTL 8201CL chipset

USB

- ❑ Connectors Quantity:8
  - ❑ Rear Connectors: 4
  - ❑ On-board header: 4
    - ❑ 2 for front daughter board
    - ❑ 1 for 6 in 1 card reader
- ❑ Transfer Rate:
  - ❑ USB 2.0/1.1

BIOS

- ❑ 4MB flash BIOS
- ❑ Award BIOS compatible with SMBIOS 2.3, ACPI 2.0, and APM 1.2
- ❑ PCI 2.3 compilance
- ❑ Support DMI, WFM 2.0, WOL

I/O Connector

Front Panel

- ❑ 2 USB ports
- ❑ 1 headphone out
- ❑ 1 microphone in

Rear Panel

- ❑ 1 PS/2 keyboard port, 1 PS/2 mouse port
- ❑ 1 RJ45 LAN port
- ❑ 1 Parallel port, 1 TV out connector
- ❑ 4 USB ports
- ❑ 1 VGA(CRT)Connector
- ❑ 1 Line In, 1 Line Out, and 1 Microphone In port

Controls and Indicators

- ❏ 1 Power Switch
- ❏ 1 single color Power state LED (Green)
- ❏ 1 single color LED for HDD state(Green)
- ❏ 1 single color LED for LAN state(Green)

Mainboard Layout
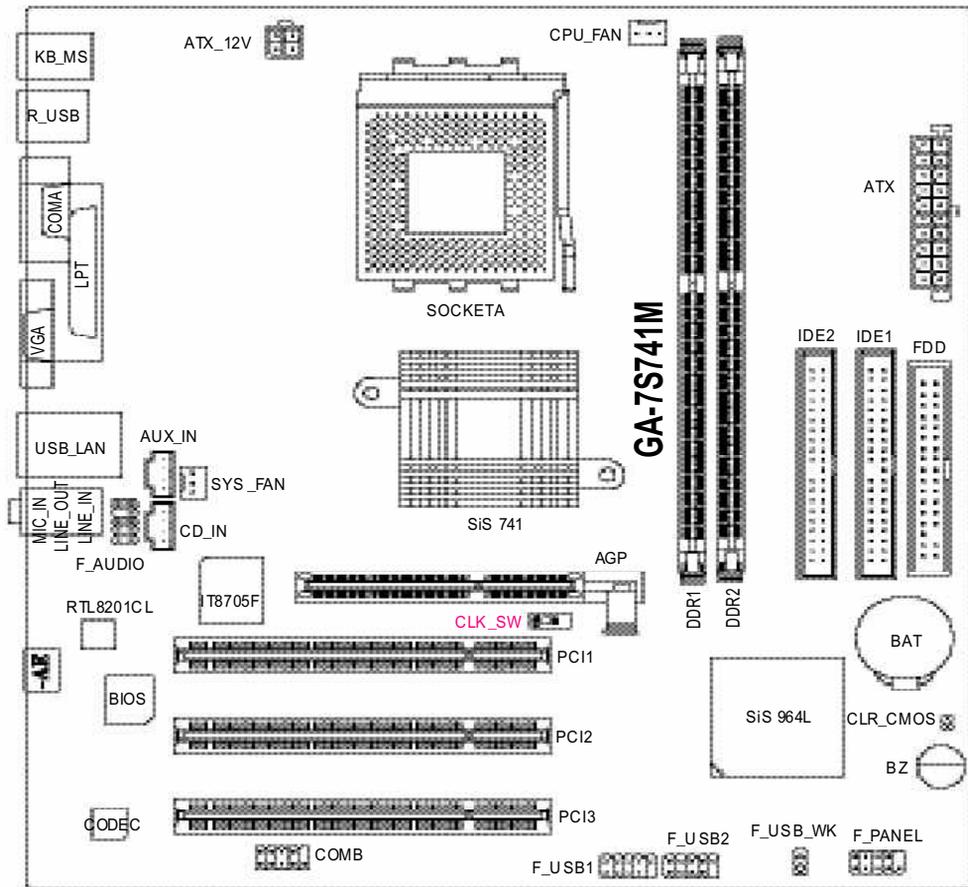
Label	Component
AGP	AGP Slot
BAT	Battery
CD_IN	CD IN Connector
BIOS	BIOS
COMA/COMB	Serial Port
SOCKETA	Socket for CPU
CPU_FAN	Processor fan connector
SYS_FAN	System fan connector
DDR1,DDR2	DIMM Port
F_AUDIO	Front Audio Connector
F_USB1,F_USB2	Front USB Connector
R_USB	Rear USB
FDD	Floppy Connector
F_PANEL	Front Panel Header
KB/MS	PS2-KBMS
USB_LAN	Network/USB Connector

Label	Component
PCI 1,2,3	PCI Slot
IDE1,IDE2	Primary and Secondary IDE Connector
ATX_12V	ATX 12V power connector
SiS 741	North Bridge Chipset
SiS 946	South Bridge Chipset
IT8705F	I/O connector
RTL8201CL	LAN chip
VGA	VGA port
LPT	Print port
AUX_IN	AUX in Connector
ATX	ATX Main power connector
CODEC	Audio chip
MIC_IN/LINE_OUT/LINE_IN	MIC_IN/LINE_OUT/LINE_IN connector
F_USB_WK	Front USB Wake Up Function Jumper
CLK_SW	Set System Switch. The CPU FSB can be switched by CLK_SW
BZ	Buzzer

Block Diagram

Block diagram showing:

- K7 Socket A CPU — CPUCLK+/- (100/133/166/200MHz)
- System Bus 200/266/333/400MHz FSB
- AGP 4X/8X — AGPCLK (66MHz)
- SiS 741 — DDR 266/333/400 MHz, ZCLK (66/133MHz), HCLK+/-(100/133/166/200MHz)
- 66/133 MHz, 33 MHz, 14.318 MHz, 48 MHz
- RJ45 — RTL8201CL
- 3 PCI — PCICLK (33MHz)
- SiS 964L
- AC97 Link — AC97 CODEC — MIC, LINE-IN, LINE-OUT
- 8 USB Ports
- ATA33/66/100 IDE Channels
- LPC BUS
- BIOS
- IT8705F — Floppy, LPT Port, PS/2 KB/Mouse, COM Ports
- 24 MHz, 33 MHz

Front Panel

The computer's front panel consists of the following:

Aspire T120E

Label	Description
1	Optical Drive
2	Floppy Drive
3	7-in-1 Card Reader(Manufacturing Option)
4	Power button
5	Speaker or Headphone Jack
6	Microphone Jack
7	USB Ports

AcerPower M2
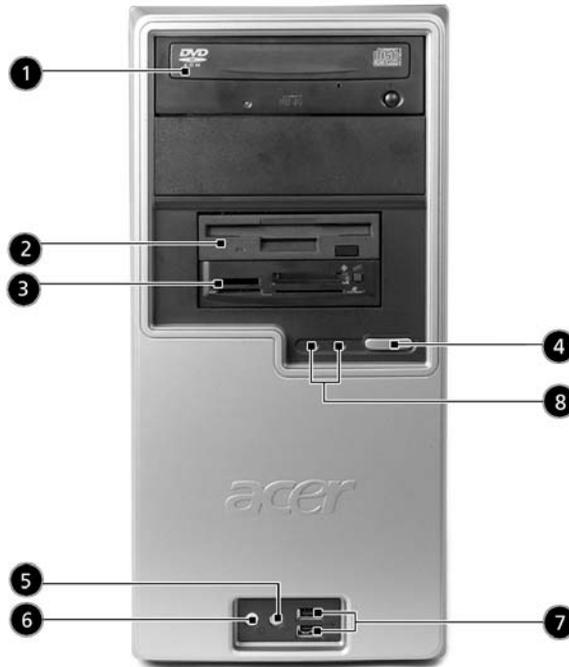
Label	Description
1	Optical Drive
2	Floppy Drive
3	7-in-1 Card Reader(Manufacturing Option)
4	Power button
5	Speaker or Headphone Jack
6	Microphone Jack
7	USB Ports
8	Indicators

Rear Panel

Aspire T120E

Label	Icon	Color	Description
1	N/A	N/A	Power code socket
2	N/A	N/A	Voltage selector switch
3	N/A	N/A	Fan Aperture
4		Purple	PS/2 keyboard port
5		Green	PS/2 mouse port
6	N/A	N/A	Serial out port
7		Burgundy	Parallet/Printer Connector
8		Blue	CRT/LCD Monitor Connector

Label	Icon	Color	Description
9		Black	USB Connectors
10		Black	RJ-45 Ethernet Connector
11		Pink	Microphone-In Port (Rear)
12		Lime	Audio-out/Line-out jack
13		Light Blue	Audio-in/Line-in jack
14	N/A	N/A	IEEE 1394 Port

AcerPower M2

Label	Icon	Color	Description
1	N/A	N/A	Power code socket
2	N/A	N/A	Voltage selector switch
3	N/A	N/A	Fan Aperture
4		Green	PS/2 mouse port
5		Purple	PS/2 keyboard port
6		Black	USB Connectors
7		Burgundy	Parallel/Printer Connector
8	N/A	N/A	Serial Port
9	N/A	N/A	VGA Port
10		Black	USB Connectors

Label	Icon	Color	Description
11	![ethernet icon]	Black	RJ-45 Ethernet Connector
12	![microphone icon]	Pink	Microphone Jack
13	![line-out icon]	Lime	Line-out Jack
14	![line-in icon]	Light Blue	Line-in Jack
15	N/A	N/A	VGA Port
16	N/A	N/A	S-video out port
17	N/A	N/A	Digital Visual Interface
18	N/A	N/A	TV Tuner Card

Hardware Specifications and Configurations

Processor

Item	Specification
Type	AMD Athlon^{TM} XP / Athlon^{TM}/Duron^{TM}
Socket	Socket A
Speed	1.4 GHz and faster
Minimum operating speed	0 MHz (**If Stop CPU Clock in Sleep State in BIOS Setup** is set to **Enabled**.)

BIOS

Item	Specification
BIOS code programmer	Award
System BIOS version	R01-A0
SMBIOS version	2.3
BIOS ROM type	Flash ROM
BIOS ROM size	2MB
Support protocol	PCI 2.0, APM1.2, WFM2.0, , ACPI 2.0, ESCD 1.03, SMBIOS2.3, USB1.1,USB2.0
Boot from CD-ROM feature	Yes
Support to LS-120 drive	Yes
Support to BIOS boot block feature	Yes

NOTE: The BIOS can be overwritten/upgraded by using the flash utility.

BIOS Hotkey List

Hotkey	Function	Description
DEL	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.

This section has two table lists, system memory specification and the possible combinations of memory module.

System Memory

Item	Specification
Memory slot number	2 slot
Support memory size per socket	128MB / 256MB/ 512MB
Support maximum memory size	1.0G
Support memory type	DDR SDRAM
Support memory speed	DDR 333/400
Support memory voltage	2.5 V
Support memory module package	184-pin DIMM
Support to parity check feature	Yes
Support Non-ECC type module	Yes
Memory module combinations	You can install memory modules in any combination as long as they match the above specifications.

Memory Combinations

Slot	Memory Module	Total Memory
Slot 1	128, 256, 512MB	128MB~1G
Slot 2	128, 256, 512MB	128MB~1G
Maximum System Memory Supported		128MB~1.0G

Cache Memory

Item	Specification
First-Level Cache Configurations	
Cache function control	Enable/Disable by BIOS Setup
Second-Level Cache Configurations	
L2 Cache RAM type	By CPU
L2 Cache RAM size	By CPU
L2 Cache RAM speed	By CPU
L2 Cache RAM voltage	By CPU
L2 Cache function control	Enable/Disable by BIOS Setup
L2 Cache scheme	Fixed in write-back

This section has two table lists, the video interface specification and its supported display modes.

Video Interface

Item	Specification
Video controller	SiS 741
Video controller resident bus	AGP Bus
Video interface support	AGP 8X/4X 1.5V mode
On Board VGA	Build in SiS741 chipset

Audio Interface

Item	Specification
Audio controller	SiS 946L
Audio controller resident bus	AC'97 Link
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Resolution	20 bits
Compatibility	Sound Blaster Pro/16 compatible
	Mixed digital and analog high performance chip
	Enhanced stereo full duplex operation
	High performance audio accelerator and AC'97 support
	Full native DOS games compatibility
	Virtual FM enhances audio experience through real-time FM-to-Wavetable conversion
	MPU-401(UART mode) interface for wavetable synthesizers and MIDI devices
	Integrated dual game port
	Meets AC'97and WHQL specifications
Music synthesizer	48 KHz
Sampling rate	48 KHz (max.)
MPU-401 UART support	Yes
Microphone jack	Yes
Headphone jack	Yes

IDE Interface

Item	Specification
IDE controller	SiS 946L
IDE controller resident bus	PCI bus
Number of IDE channel	2
Support IDE interface	2 IDE bus master(UDMA33/ATA66/ATA100)IDE ports for up to 4 ATAPI devices

Floppy disk drive Interface

Item	Specification
Floppy disk drive controller	ITE8705F
Floppy disk drive controller resident bus	LPC bus
Support FDD format	360KB, 720KB, 1.2MB, 1.44MB, 2.88MB

Parallel Port

Item	Specification
Parallel port controller	ITE8705F
Parallel port controller resident bus	LPC bus
Number of parallel ports	1
Support ECP/EPP	SPP / Bi-directional / ECP / EPP
Connector type	25-pin D-type female connector
Parallel port function control	Enable/disable by BIOS Setup
Optional ECP DMA channel (in BIOS Setup)	Support
Optional parallel port I/O address (via BIOS Setup)	Support
Optional parallel port IRQ (via BIOS Setup)	Support

Serial Port

Item	Specification
Serial port controller	ITE8705L
Serial port controller resident bus	LPC bus
Number of serial port	2
16550 UART support	Yes
Connector type	9-pin D-type female connector
Optional serial port I/O address (via BIOS Setup)	COM1: Yes COM2: No
Optional serial port IRQ (via BIOS Setup)	COM1: Yes COM2: No

USB Port

Item	Specification
Universal HCI	USB 2.0/1.1
USB Class	Support legacy keyboard for legacy mode
USB Number	8 (4 on front , 4 on rear)

Main Board Major Chips

Item	Controller
System core logic	SiS 741
Video controller	SiS 741
Super I/O controller	ITE8705F
Audio controller	AC97Link

Main Board Major Chips

Item	Controller
LAN controller	RTL8201CL
HDD controller	ITE8705F
Keyboard controller	ITE8705F

Environmental Requirements

Item	Specifications
Temperature	
Operating	+5 ~ +35°C
Non-operating	-20 ~ +60°C (Storage package)
Humidity	
Operating	15% to 80% RH
Non-operating	10% to 90% RH
Vibration	
Operating (unpacked)	5 ~ 500 Hz: 2.20g RMS random
Non-operating (packed)	5 ~ 500 Hz: 0.19g RMS random

Switching Power Supply 230W

Input Frequency	Frequency Variation Range
50Hz	50Hz to 60Hz
60Hz	50Hz to 60Hz

Input Voltage	Variation Range
100 - 120 VRMS	90 - 132 VRMS
200 - 240 VRMS	180 - 264 VRMS

Input Current	Measuring Range
4A	90 -132 VRMS
2A	180 - 264 VRMS

Output Requirements	Regulation	Current Rating
+5V	+-5%	15A
+12V	+-5%	3A
-12V	+-10%	0.3A
+3.3V	+-4%	12A
+5Vaux	+-5%	3A

Power Management Function (ACPI support function)

Device Standby Mode

❑ Independent power management timer for hard disk drive devices
(0-15 minutes, time step=1 minute).

❑ Hard disk drive goes into Standby mode (for ATA standard interface).

❑ Disable V-sync to control the VESA DPMS monitor.

❑ Resume method: device activated (Keyboard for DOS, keyboard & mouse for Windows).

❑ Resume recovery time: 3-5 sec.

Global Standby Mode

❑ Global power management timer (2-120 minutes, time step=10 minute).

❑ Hard disk drive goes into Standby mode (for ATA standard interface).

❑ Disable H-sync and V-sync signals to control the VESA DPMS monitor.

❑ Resume method: Return to original state by pushing external switch button, modem ring in,
keyboard and mouse for APM mode.

❑ Resume recovery time: 7-10 sec.

Suspend Mode

❑ Independent power management timer (2-120 minutes, time step=10 minutes) or pushing external
switch button.

❑ CPU goes into SMM.

❑ CPU asserts STPCLK# and goes into the Stop Grant State.

❑ LED on the panel turns amber colour.

❑ Hard disk drive goes into SLEEP mode (for ATA standard interface).

❑ Disable H-sync and V-sync signals to control the VESA DPMS monitor.

❑ Ultra I/O and VGA chip go into power saving mode.

❑ Resume method: Return to original state by pushing external switch button, modem ring in,
keyboard and mouse for APM mode.

❑ Return to original state by pushing external switch button, modem ring in and USB keyboard for
ACPI mode.

ACPI

❑ ACPI specification 1.0b.

❑ S0, S1, S3 and S5 sleep state support.

❑ On board device power management support.

❑ On board device configuration support.

System Utilities

Most systems are already configured by the manufacturer or the dealer. There is no need to run Setup when starting the computer unless you get a Run Setup message.

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM. This memory area is not part of the system RAM.

NOTE: If you repeatedly receive Run Setup messages, the battery may be bad/flat. In this case, the system cannot retain configuration values in CMOS.

Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

Entering Setup

Power on the computer and the system will start POST (Power On Self Test) process. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

NOTE: If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+Alt+Delete].

The Setup Utility main menu then appears:

CMOS Setup Utility-Copyright © 1984-2004 Award Software	
▶**Product Information**	▶**PC Health Status**
▶**Standard CMOS Features**	▶**Frequency Control**
▶**Advanced BIOS Features**	**Load Default Settings**
▶**Advanced Chipset Features**	**Set Supervisor Password**
▶**Integrated Peripherals**	**Set User Password**
▶**Power Management Setup**	**Save & Exit Setup**
▶**PnP/PCI Configurations**	**Exit Without Saving**
ESC: Quit ←→↑↓**: Select Item** **F10: Save & Exit Setup**	
Product name, System S/W….	

The command line at the bottom of the menu tells you how to move within a screen and from one screen to another.

- ❑ To select an option, move the highlight bar by pressing ⬆ or ⬇ then press ENTER.

- ❑ To change a parameter setting, press ⬅ or ➡ until the desired setting is found.

- ❑ Press ESC to return to the main menu. If you are already in the main menu, press ESC again to exit Setup.

The parameters on the screens show default values. These values may not be the same as those in your system.

The grayed items on the screens have fixed settings and are not user-configured.

NOTE: Due to the application of a new version of BIOS Setup program, you may find the BIOS menu is largely different from the former models. However, you will soon find out that this version is much more compact than the former ones.

The items in the main menu are explained below:

❏ *Product Information*

To introduce the Product Name,System P/N and MainBoard ID...etc.

❏ *Standard CMOS Features*

The basic system configuration can be set up through this menu.

❏ *Advanced BIOS Features*

The advanced system features can be set up through this menu.

❏ *Advanced Chipset Features*

The advanced chipset features can be set up through this menu

❏ *Integrated Peripherals*

All onboard peripherals can be set up through this menu.

❏ *Power Management Setup*

All the items of Green function features can be set up throgh this menu.

❏ *PnP/PCI Configurations*

The system's PnP/PCI settings and parameters can be modified through this menu.

❏ *PC Health Staus*

This will display the current status of your PC.

❏ *Frenquency Control*

This setup pages is control CPU clock and frequency ratio.

❏ *Load Default Settings*

These parameter settings can be loaded through this menu, however, the stable default values
may be affected.

❏ *Set Supervisor/User Password*

The supervisor/user password can be set up through this menu.

❏ *Save & Exit Setup*

Save CMOS value settings to CMOS and exit setup.

❏ *Exit Without Saving*

Abandon all CMOS value changes and exit setup.

Product Information

The screen below appears if you select Product Information from the main menu:

The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. These information is necessary for troubleshooting (maybe required when asking for technical support).

CMOS Setup Utility-Copyright © 1984-2004 Award Software Product Information		
Product Name	Aspire T120E	Item Help
System S/N		Menu Level ▶
Main Board ID	G74M	
Main Board S/N		
System BIOS Version	R01-A3 S1	
SMBIOS Version	2.3	
System BIOS ID	R01-A3 S1	
BIOS Build Date	2005/3/16	
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1: General Help F5: Previous Values F7: Default Settings		

The following table describes the parameters found in this menu:

Parameter	Description
Product Name	Displays the model name of your system.
System S/N	Displays your system's serial number.
Main Board ID	Displays the main board's identification number.
Main Board S/N	Displays your main board's serial number.
System BIOS Version	Specifies the version of your BIOS utility.
SMBIOS version	The System Management Interface (SM) BIOS allows you to check your system hardware components without actually opening your system. Hardware checking is done via software during start up. This parameter specifies the version of the SMBIOS utility installed in your system.
System BIOS ID	Displays the BIOS identification number.
BIOS Release Date	Displays the date BIOS released.

Standard CMOS Features

Select Standard CMOS Features from the main menu to configure some basic parameters in your system.

The following screen shows the Standard CMOS Features menu:

CMOS Setup Utility-Copyright © 1984-2004 Award Software Standard CMOS Features		
Date (mm:dd:yy) Thu, Apr 29,2004		Item Help
Time (hh:mm:ss) 22:31:24		Menu Level >
		Change the day, month, year
▶ IDE Channel 0 Master [None]		
▶ IDE Channel 0 Slave [None]		<Week>
		Sun. to Sat.
Drive A [1.44M, 3.5"]		
Drive B [None]		<Month>
Floppy 3 Mode Support [Disabled]		Jan. to Dec.
Holt On [All, But Keyboard]		<Day>
		1 to 31 for maximum allowed in the month
Base Memory 640K		
Extended Memory 127M		
Total Memory 128M		<Year>
		1999 to 2098
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1: General Help		
F5: Previous Values F6: Fail-Save Default F7: Optimized Defaults		

The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

Parameter	Description	Options
Date	Lets you set the date following the weekday-month-day-year format	Weekday: Sun, Mon...Sat Month: Jan., Feb...Dec. Day: 1 to 31 Year: 1999 to 2098
Time	Lets you set the time following the hour-minute-second format	Hour: 0 to 23 Minute: 0 to 59 Second: 0 to 59
IDE Primary Master	Allows you to configure the hard disk drive connected to the master port of IDE channel. To enter the IDE Primary Master setup, press [Enter]. The IDE CD-ROM is always automatically detected.	IDE Device Model Number: None
IDE Primary Slave	Allows you to configure the hard disk drive connected to the slave port of IDE channel. To enter the IDE Primary Slave setup, press [Enter]. The IDE CD-ROM is always automatically detected.	IDE Device Model Number: None

Parameter	Description	Options
IDE Secondary Master	Allows you to configure the hard disk drive connected to the master port of IDE channel 1. To enter the IDE Channel 1 Master setup, press [Enter]. The IDE CD-ROM is always automatically detected.	IDE Device Model Number: None
IDE Secondary Slave	Allows you to configure the hard disk drive connected to the slave port of IDE channel 2. To enter the IDE Channel Secondary Master setup, press [Enter]. The IDE CD-ROM is always automatically detected.	IDE Device Model Number: None
Drive A	Allows you to configure your floppy drive A.	None 360 KB, 5.25-inch 1.2 MB, 5.25-inch 720 KB, 3.5-inch **1.44M, 3.5 - inch** 2.88 MB, 3.5-inch
Halt On	This parameter enables you to control the system stops in case of Power On Self Test errors (POST).	**All Errors** No Errors All, but Keyboard All, but Diskette All, by Disk/Key
Base Memory	Refers to the option of memory that is available to standard DOS programs. DOS systems have an address space od 1MB, but the top 384KB (called high memory) is reserved for system use. This leaves 640 KB of conventional memory. Everything above 1MB is either extended or extended memory.	The BIOS POST will determine the amount of base (or conventional) memory installed in the sytem.
Extended Memory	Memory above and beyond the standard 1MB of base memory that DOS supports. Extended memory is only available in PCs with an Intel 80286 or later microprocessor. Extended memory is not configured in any special manner and is therefore unavailable to most DOS programs. However, MS Windows and OS/2 can use extended memory.	The BIOS determines how much extended memory is present during the POST.
Total Memory	Total based and extended memory, and I/O ROM 384KB available to the system.	total memory of the system.

Advanced BIOS Features

The following screen shows the Advanced BIOS Features:

CMOS Setup Utility-Copyright © 1984-2004 Award Software	
Advanced BIOS Features	
Virus Warning [Disabled]	**Item Help**
Silent Boot [Enabled]	
Configuration Table [Disabled]	Menu Level ▶
Quick Power On Self Test [Enabled]	
Hard Disk Boot Priority [Press Enter]	
First Boot Device [CDROM]	
Second Boot Device [Floppy]	
Third Boot Device [CD ROM]	
Boot Other Device [Enabled]	
Boot Up NumLock Status [On]	
Gate A20 Option [Fast]	
APIC Mode [Enabled]	
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10:Save ESC: Exit F1: General Help	
F5: Previous Values F6: Fail-Save Default F7: Optimized Defaults	

The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

Parameter	Description	Options
Virus Warning	Allows you to choose the VIRUS warning feature for IDE Hard Disk boot sector protection. If this function is enabled and someone attempt to write data into this area, BIOS will show a warning message to on screen and alarm beep.	Enabled **Disabled**
Silent Boot	Display Full Screen LOGO during POST	**Enabled** Disabled
Configuration Table	Enable the Configuration Table function	Enabled **Disabled**
Quick Power On Self Test	This parameter speeds up POST by skipping some items that are normally checked.	**Enabled** Disabled
Hard Disk Boot Priority	Select Hard Disk Boot Device Priority	**Press [Enter]**
First / Second / Third Boot Device	The items allow you to set the sequence of boot device where BIOS attempts to load the disk operating system.	Floppy, LS120, Hard Disk, CD-ROM, ZIP, USB-FDD, USB-ZIP, USB-CDROM, USB-HDD, LAN, Disabled (Disable this sequence). The sequence following the order of Floppy, HDD and CD-ROM is recommended.

Parameter	Description	Options
Boot Other Device	This parameter allows you to specify the system boot up search sequence.	**Enabled** Disabled
Boot Up NumLock Status	Sets the NumLock status when the system is powered on. Setting to On will turn on the NumLock key when the system is powered on. Setting to Off will allows users to use the arrow keys on the numeric keypad.	**On** Off
Gate A20 Option	This item is to set the Gate A20 status. A20 refers to the first 64KB of extended memory. When the default value Fast is selected, the Gate A20 is controlled by port 92 or chipset specific method resulting in faster system performance. When Normal is selected, A20 is controlled by a keyboard controller or chipset hardware.	**Fast** Normal
APIC Mode	This field is used to enable or disable the APIC (Advanced Programmable Interrupt Controller). Due to compliance with PC2001 design guide, the system is able to run in APIC mode. Enabling APIC mode will expand available IRQ resources from the system.	**Enabled** Disabled

Advanced Chipset Features

```
╔══════════════════════════════════════════════════════════════════════╗
║           CMOS Setup Utility-Copyright © 1984-2004 Award Software      ║
║                        Advanced Chipset Features                       ║
╠═══════════════════════════════════════════════╦══════════════════════╣
║   Configure DRAM Timing      [Auto]           ║      Item Help        ║
║   x CAS Latency Setting       3T              ║  Menu Level ▶         ║
║   x DRAM RAS Active Time      9T              ║                       ║
║   x DRAM RAS Precharge Time 4T                ║   DRAM timing and     ║
║   x DRAM RAS to CAS Delay    4T               ║                       ║
║     AGP Aperture Size        [64MB]           ║                       ║
║     VGA Share Memory Size    [32MB]           ║                       ║
║                                               ║                       ║
║                                               ║                       ║
╠═══════════════════════════════════════════════╩══════════════════════╣
║ ↑↓←→: Move   Enter: Select  +/-/PU/PD: Value  F10:Save  ESC: Exit  F1: General Help ║
║ F5: Previous Values           F7: Default Settings                    ║
╚══════════════════════════════════════════════════════════════════════╝
```

Parameter	Description	Options
Configure DRAM Timing	This item is used to set memory controller.	**Auto** Maunal
CAS Latency TIme	When synchronous DRAM is installed, the number of clock cycles of CAS latency depends on the DRAM timing.	
DRAM RAS Active Time	Control RAS active timing	
DRAM RAS Precharge TIme	If an insufficient number of cycles is allowed for the RAS to accumulate its charge before DRAM refresh, the refresh may be incomplete and the DRAM may fail to retain data. Fast fives faster performance; and Slow gives more stable performance.This field applies only when synchronous DRAM is installed in the syste.	
DRAM RAS to CAS Latency	This field lets you insert a timing delay between the CAS and RAS strobe signals, used when DRAM is written to, read from, or refreshed, Fast gives faster performance; and Slow gives more stable performance. This field applies only when synchronous DRAM is installed in the system.	
AGP Aperture Size	Setting AGP Aperture Size	
VGA Share Memory SIze	Setting Share Memory SIze	

Power Management Setup

The Power Management menu lets you configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use.

The following screen shows the Power Management parameters and their default settings:

```
┌─────────────────────────────────────────────────────────────────────────────┐
│        CMOS Setup Utility-Copyright © 1984-2004 Award Software                │
│                     Power Management Setup                                     │
├───────────────────────────────────────────────────┬─────────────────────────┤
│ ACPI function                  [Enabled]           │       Item Help         │
│ ACPI Suspend Type              [S3(STR)]           │  Menu Level  ▶          │
│ Video Off Method               [V/H SYNC+Blank]    │                         │
│ MODEM Use IRQ                  [3]                 │                         │
│ HDD Power Down                 [Disabled]          │                         │
│ Soft-Off by PWR-BTTN           [Instant-off]       │                         │
│ PWRON After PWR-Fail           [Former-Sts]        │                         │
│ Power On by Ring               [Enabled]           │                         │
│ Wake-Up by PCI Card            [Disabled]          │                         │
│ Wake-Up by LAN                                      │                         │
│ USB Device Wake-Up From S3     [Disabled]          │                         │
│ Resume by Alarm                [Disabled]          │                         │
│x Month Alarm                   NA                  │                         │
│x Date ( of Month ) Alarm       Every day           │                         │
│x Time (hh:mm:ss) Alarm         00:00:00            │                         │
│                                                     │                         │
├───────────────────────────────────────────────────┴─────────────────────────┤
│ ↑↓←→: Move   Enter: Select   +/-/PU/PD: Value   F10:Save   ESC: Exit   F1: General Help │
│ F5: Previous Values          F6: Fail-Save Default            F7: Optimized Defaults     │
└─────────────────────────────────────────────────────────────────────────────┘
```

The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

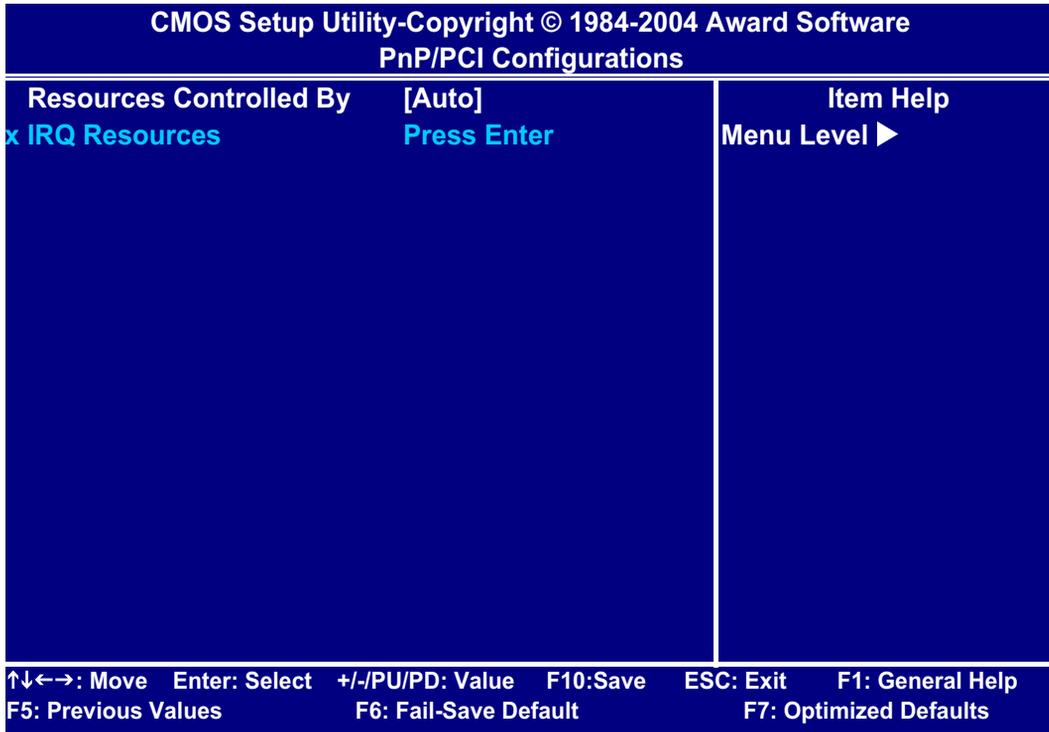| Parameter	Description	Options
ACPI Function	This item is to activate the ACPI (Advanced Configuration and Power Management Interface) Function. If your operating system is ACPI aware, such as Windows 98SE/2000/Me, select Enabled.	**Enabled** Disabled
ACPI Suspend Type	This item specifies the power saving modes for ACPI function. S1(POS): The S1 sleep mode is a low power state. In this state, no system context (CPU or chipset) is lost and hardware maintains all system context. S3 (STR): The S3 sleep mode is s power-down state in which power is supplied only to essential components such as main memory and wake-capable devices and all system context is saved to main memory. The information stored in memory will be used to restore the PC to the previous state when an *wake-up* event occurs.	S1 (POS) **S3 (STR)**

Parameter	Description	Options
Video Off Method	This item determines the manner in which the monitor is blanked. V/H SYNC+Blank: This selection will cause the system to turn off the vertical and horizontal synchronization ports and write blanks to the video buffer. Blank Screen: This option only write blanks to the video buffer. DPMS Supported: Initial display power management signaling.	Blank Screen **V/H SYNC+Blank** DPMS
Video Off in Suspend	Enable Video Off in Suspend function	**Enabled** Disabled
Modem Use IRQ	This setting names the interrupt request (IRQ) line assigned to the modem (if any) on your system. Activity of selected IRQ always awakens the system.	Auto **3**,4,5,7,9,10,11
HDD Power Down	This option is used to define the continuous HDD idle time before the HDD enters power saving mode. The setting values are disabled and 1 min to 15 min.	**Disabled** 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 Min
Soft-off by PWR-BTTN	This option is used to set the power down method. This function is only valid for systems using an ATX power supply. When "instant off" is selected, press the power switch to immediately turn off power. When "delay 4 sec" is selected, press and hole the power button for four seconds to turn off power.	Instand Off **Delay 4 Sec.**
PWRON After PWR-Fail	Soft-Off: Always in off state when AC back Full-On: Always power on system when AC back Former-Sts:System power on depends on the status before AC lost.	Soft-Off Full-On **Former-Sts**
Power On by Ring	Enable power on by ring function.	**Disabled** Enabled
Wake-Up by PCI Card	Enable PME Event Wake up.	**Disabled** Enabled
Wake-Up by LAN	Enable Wake-Up by LAN function	**Disabled** Enabled
USB Device Wake-Up From S3	Enable USB Device Wake-Up from S3.	**Enabled** Disabled
Resume by Alarm	Enable alarm function to power on system.	**Disabled** Enabled

Integrated Peripherals

USB 2.0 Support	[Enabled]	Item Help
USB Controller	[Enabled]	Menu Level ▶
USB Legacy Support	[Enabled]	
USB Mouse Support	[Enabled]	
Onboard LAN function	[Enabled]	
Onboard Parallel Port	[378/IRQ7]	
Parallel Port Mode	[SPP]	
x ECP Mode Use DMA	3	

↑↓←→: Move   Enter: Select   +/-/PU/PD: Value   F10:Save   ESC: Exit   F1: General Help
F5: Previous Values   F6: Fail-Save Default   F7: Optimized Defaults

Parameter	Description	Option
USB 2.0 Support	Enable USB 2.0 function.	Disabled **Enabled**
USB Controller	Enable USB Controller.	Disabled **Enabled**
USB Legacy Support	Enable USB Legacy	Disabled **Enabled**
USB Mouse Support	Enable USB Mouse Support.	Disabled **Enabled**
Onboard LAN function	Enable Onboard H/W LAN function.	Disabled **Enabled**
Onboard Parallel Port	Enable Onboard Parallel Port	Disabled 378/IRQ7 278/IRQ5 3BC/IRQ7
Parallel Port Mode	Setting Parallel Port Mode	SSP EPP ECP ECP+EPP

PnP/PCI Configuration

```
          CMOS Setup Utility-Copyright © 1984-2004 Award Software
                            PnP/PCI Configurations

   Resources Controlled By      [Auto]                          Item Help
 x IRQ Resources                Press Enter            Menu Level ▶






















 ↑↓←→: Move   Enter: Select   +/-/PU/PD: Value   F10:Save   ESC: Exit    F1: General Help
 F5: Previous Values              F6: Fail-Save Default              F7: Optimized Defaults
```

The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

Parameter	Description	Options
Reset Configuration Data	Selecting "Enabled" to reset Extended System Configuration Data (ESCD) only if you installed a new add-on and the system reconfiguration has caused such a serious conflict that the operating system can not boot. Otherwise, you should leave it unchanged.	**Disabled** Enabled
IRQ Resources	The items are adjustable only when "Resources Controlled By" is set to Manual. By pressing "Enter" to access the sub menu.	**Press Enter**

NOTE: It is strongly recommended that only experienced users should make any changes to the default settings.
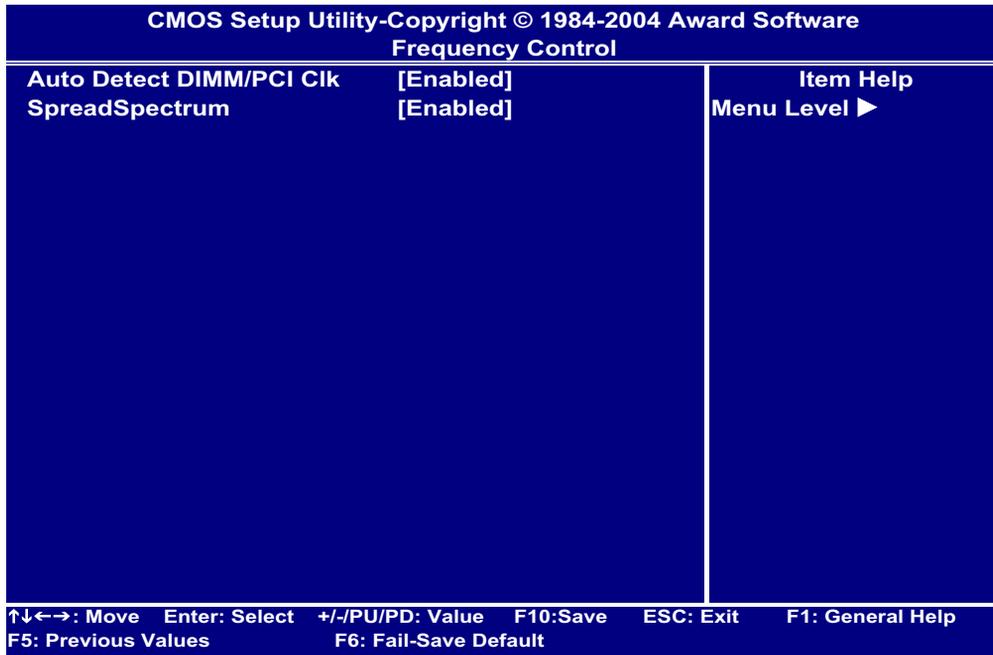
PC Health Status

Vcore	**1.568V**	**Item Help**
+ 3.3V	**3.232V**	**Menu Level ▶**
+5V	**4.896V**	
-12V	**11.731V**	
VDDQ	**1.472V**	
3VDUAL	**3.168V**	
System Temperature	**43°C**	
CPU Temperature	**59°C**	
CPU Fan Speed	**2410 RPM**	
System Fan Speed	**0 RPM**	
CPU Shutdown Temperatu	**90°C/194°F**	
CPU Smart FAN Control	**[Enabled]**	
CPU Smart FAN Control	**[Enabled]**	

↑↓←→: Move   Enter: Select   +/-/PU/PD: Value   F10:Save   ESC: Exit   F1: General Help
F5: Previous Values   F6: Fail-Save Default   F7: Optimized Defaults

The following table describes the parameters found in this menu:

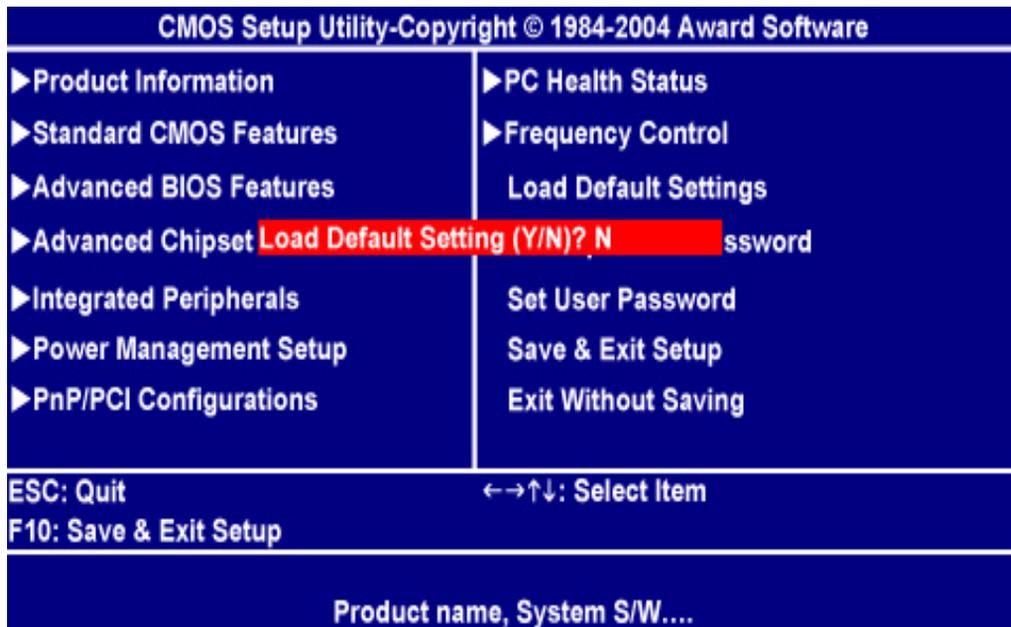| Parameter	Description	Options
Current Voltage(V)	Detect system's voltage status automatically	
Ambient Temperature	Detect Ambient temperature automatically	
CPU Temperature	Detect CPU temperature automatically	
CPU/SYSTEM Fan Speed(RPM)	Detect CPU/SYSTEM Fan status automatically.	
CPU Smart FAN Control	Enable smart fan control function. --When the CPU temperature is higer than 65 degrees Celsius, CPU fan will run at full speed. --The speed of CPU fan will increase linearly depand on the temperature if the temperature is more than 41 degree and less than 65 degree. --When the CPU temperature is lower than 40 degrees Celsius, CPU fan will be disable.	**Enabled** Disabled

Frequency Control

```
                CMOS Setup Utility-Copyright © 1984-2004 Award Software
                              Frequency Control
      Auto Detect DIMM/PCI Clk      [Enabled]                    Item Help
      SpreadSpectrum               [Enabled]               Menu Level ▶















     ↑↓←→: Move   Enter: Select   +/-/PU/PD: Value   F10:Save   ESC: Exit   F1: General Help
     F5: Previous Values              F6: Fail-Save Default
```

The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

| Parameter	Description	Options
Auto Detect DIMM/PCI Clk	Enable auto detect DIMM/PCI Clk Function.	**Disabled** Enabled
Spread Spectrum	When the motherboard's clock generator pulses, the extreme values (spikes) of the pulses creates EMI (Electromagnetic Interference). The spread Spectrum function reduces the EMI generated by modulating the pulses so that the spikes of the pulses are reduced to flatter curves. If you do not have any EMI problem, leave the setting at Disabled for optimal system stability and performance. But if you are plagued by EMI, setting to Enabled for EMI reduction. Remember to disable Spread Spectrum if you are overlocking because even a slight jitter can introduce a temporary boost in clockspeed which may just cause your overlock ed processor to lock up.	**Disabled** Enabled

Load Default Settings

This option opens a dialog box that lets you install defaults for all appropriate items in the Setup Utility.

```
CMOS Setup Utility-Copyright © 1984-2004 Award Software
►Product Information              ►PC Health Status
►Standard CMOS Features           ►Frequency Control
►Advanced BIOS Features              Load Default Settings
►Advanced Chipset Load Default Setting (Y/N)? N        ssword
►Integrated Peripherals              Set User Password
►Power Management Setup              Save & Exit Setup
►PnP/PCI Configurations              Exit Without Saving


ESC: Quit                       ←→↑↓: Select Item
F10: Save & Exit Setup

                Product name, System S/W....
```

Press <Y> and then <Enter> to install the defaults. Press <N> and then <Enter> to not install the defaults. The defaults place demands on the system that may be greater than the performance level of the components, such as the CPU and the memory. You can cause fatal errors or instability if you install the optimized defaults when your hardware does not support them. If you only want to install setup defaults for a specific option, select and display that option.

Set Supervisor/User Password

When this function is selected, the following message appears at the center of the screen to assist you in creating a password.
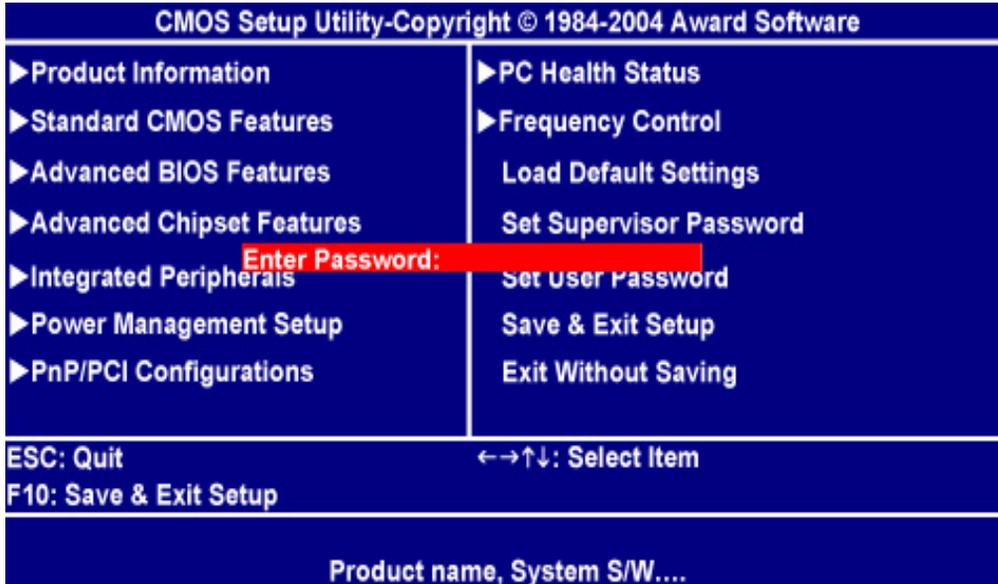
Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

Save & Exit Setup

Highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility.

```
             CMOS Setup Utility-Copyright © 1984-2004 Award Software

  ▶Product Information            ▶PC Health Status
  ▶Standard CMOS Features         ▶Frequency Control
  ▶Advanced BIOS Features           Load Default Settings
  ▶Advanced Chipset Features        Set Supervisor Password
  ▶Integrated Peripher Save to CMOS and EXIT (Y/N)? Y        d
  ▶Power Management Setup           Save & Exit Setup
  ▶PnP/PCI Configurations           Exit Without Saving

  ESC: Quit                       ←→↑↓: Select Item
  F10: Save & Exit Setup

                    Product name, System S/W....
```

When the Save and Exit dialog box appears, press <Y> to save the user setup value to RTC CMOS, or press <N> to return to the main menu.

Exit Without Saving

Highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility.

```
          CMOS Setup Utility-Copyright © 1984-2004 Award Software
 ►Product Information           ►PC Health Status
 ►Standard CMOS Features        ►Frequency Control
 ►Advanced BIOS Features         Load Default Settings
 ►Advanced Chipset Features      Set Supervisor Password

 ►Integrated Peripher;Quit Without Saving (Y/N)? N
 ►Power Management Setup         Save & Exit Setup
 ►PnP/PCI Configurations         Exit Without Saving


 ESC: Quit                     ←→↑↓: Select Item
 F10: Save & Exit Setup

                  Product name, System S/W....
```

When the Exit Without Saving dialog box appears, press <Y> to discard changes and exit, or press <N> to return to the main menu.

NOTE: If you have made settings that you do not want to save, use the "Exit Without Saving" item and press <Y> to discard any changes you have made.

Machine Disassembly and Replacement

This chapter will guide you how to disassemble and reassemble Aspire T120E / AcerPower M2.

To disassemble the computer, you need the following tools:

❑ Wrist grounding strap and conductive mat for preventing electrostatic discharge.

❑ Wire cutter.

❑ Phillips screwdriver (may require different size).

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

General Information

Before You Begin

Before proceeding with the disassenbly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.

Disassembly Flow Chart
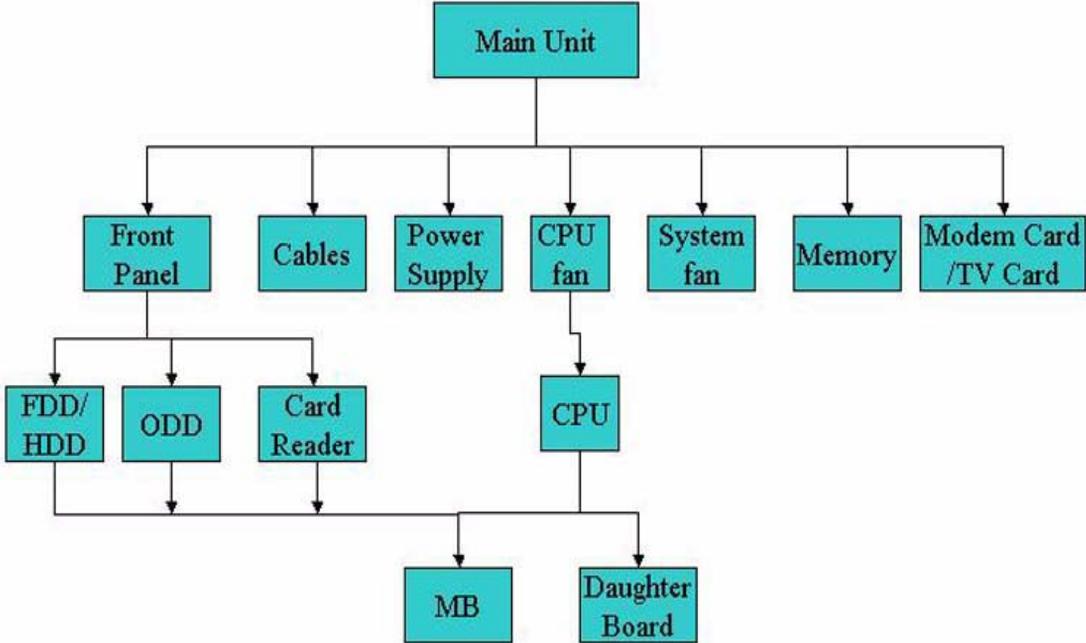
Standard Disassembly Procedure

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

CAUTION: Before you proceed, make sure you have turned off the system and all peripherals connected to it.

Opening the System

1. Place the system unit on a flat, steady surface.

For AspireT120E:

For M2:

2. Turn the housing back, and remove the two screws as shown here.

3. Slide the side door out. Then remove it.

Removing the Front Panel

1. Remove the bezel by following the instruction below.

For Aspire T120E:

For AcerPower M2:
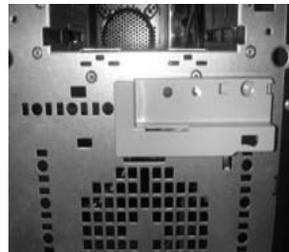
Removing the ODD/FDD/Card Reader/HDD

1. Disconnect the CD-in cable from the ODD.
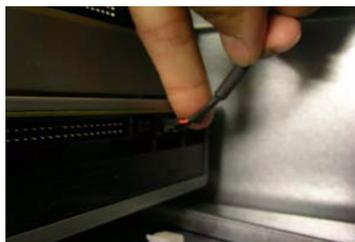
2. Disconnect the ODD1 power cable and ODD1 cable form the ODD.

3. Disconnect the ODD2 power cable and ODD2 cable from the ODD.

4. Disconnect the FDD power cable and the FDD cable from the FDD.
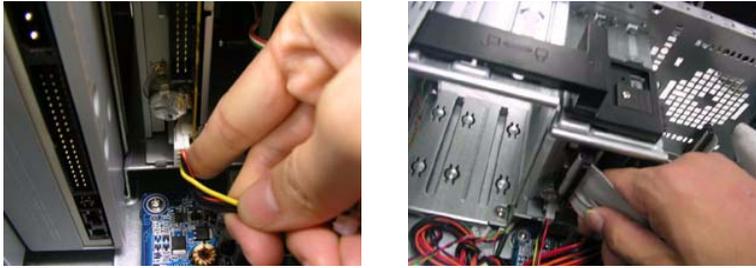
5. Disconnect the HDD power cable and the HDD cable form the HDD.
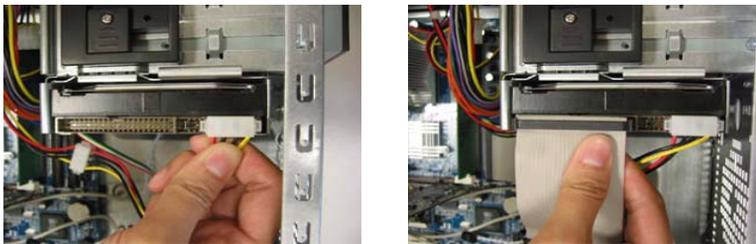
6. Press the ODD lock upward and detach the ODD from the frame.

7. Press the FDD lock upward and detach the FDD from the frame.

8. Press the Card Reader lock and detach the Card Reader form the frame.

9. Press the HDD lock upward and detach the HDD from the frame.

10. Remove the two screws on each side of Card Reader and then detach the Card Reader holder.
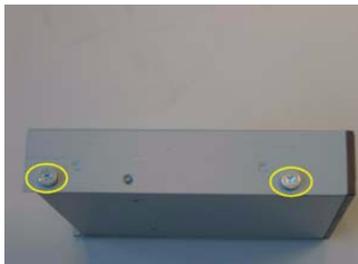
11. Remove the two screws on each side of HDD and then detach the HDD holder.
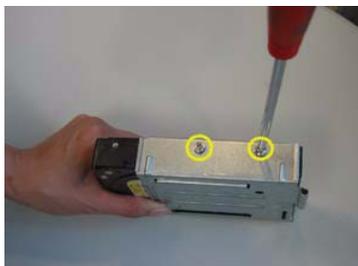
Removing the Cables

1. Disconnect the CD-In cable from Mainboard.

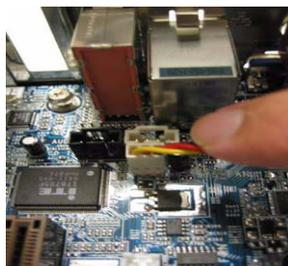2. Disconnect the FDD cable from the mainboard.
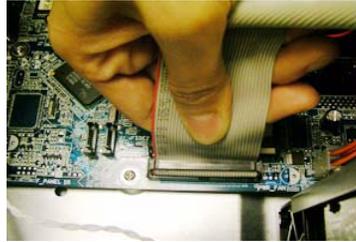
3. Disconnect the IDE 1 and IDE 2 cables from mainboard.
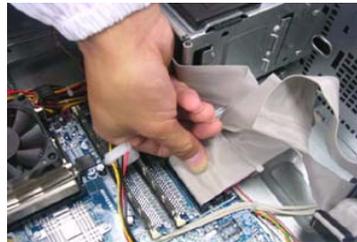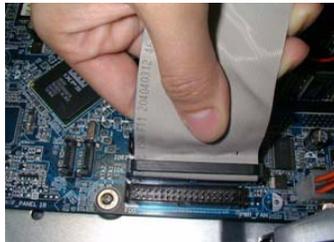
4. Disconnect the front panel audio connector form the mainboard.

5. Disconnect the two USB connectors from the main board.
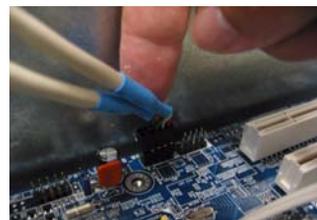
6. Disconnect the system fan connector and the UPC fan connector from the main board.

Removing the Power Supply

1. Remove the main ATX power connector as shown here.

2. Remove the ATX-12V power connector as shown here.

3. Remove the four screws as shown here.

4. Remove the power supply.
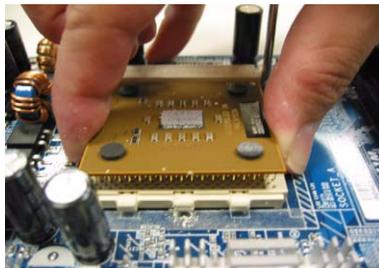
Removing the CPU fan ,CPU, and the System fan

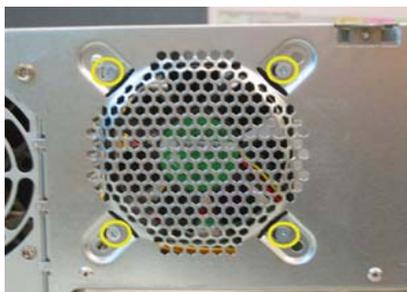1. Disconnect the CPU fan connector from the mainboard.

2. Use a flat screwdriver to press the CPU fan latch.

3. Pull the screwdriver toward the CPU fan and remove the CPU fan.

4. Pull the CPU lever up to 90 degrees and remove the CPU then press down the CPU lever to the end.

5. Remove the four screws holding the system fan.
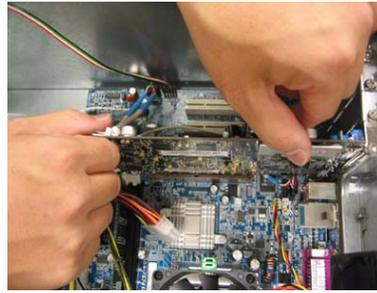
6. Take out the system fan.

Removing the Memory

1. Press the leavers on the both sides of the DIMM socket outward to release the DIMM, and then gently pull the DIMM out to remove it.

Removing the VGA Card

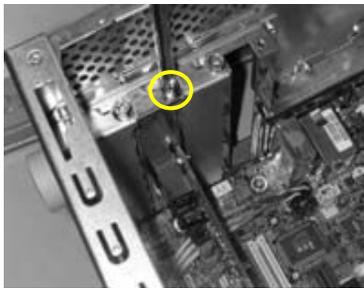1. Remove the screw as shown here then take out the VGA card.

Removing the Modem Card

1. Remove the screw as shown here then take out the Modem Card.

Removing the Mainboard

1. Remove the six screws as shown here. Then remove the mainboard.

Removing the Daughter Board

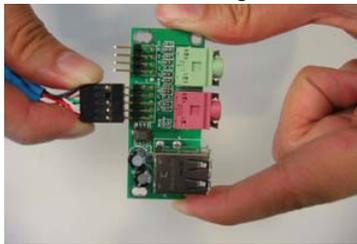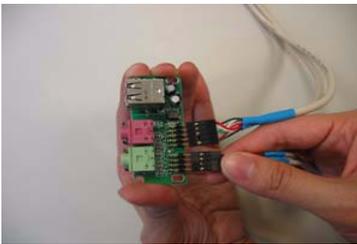1. Remove the screw as shown here.

2. Take out the daughter board and then detach the USB cable and audio cable from the daughter board.
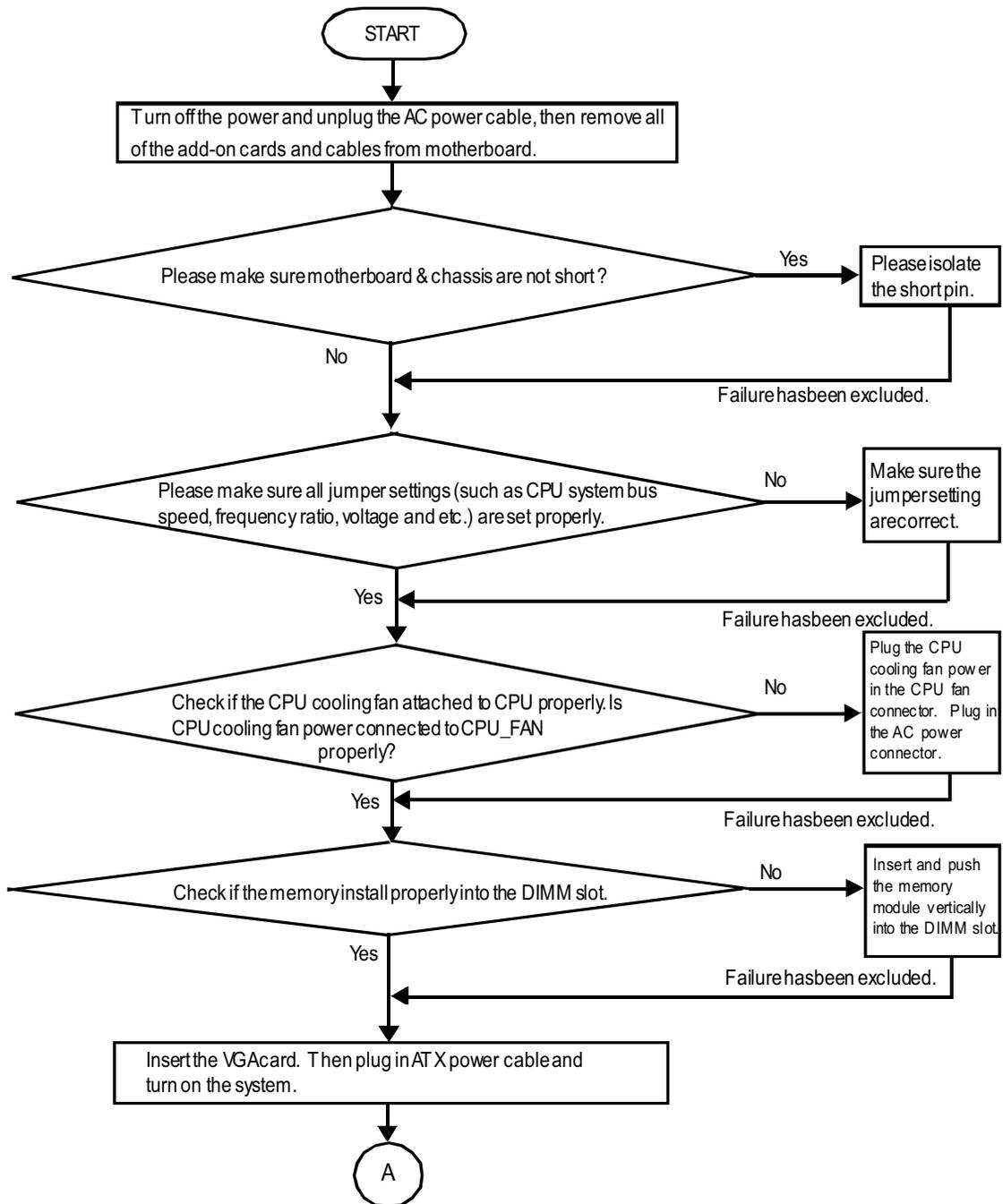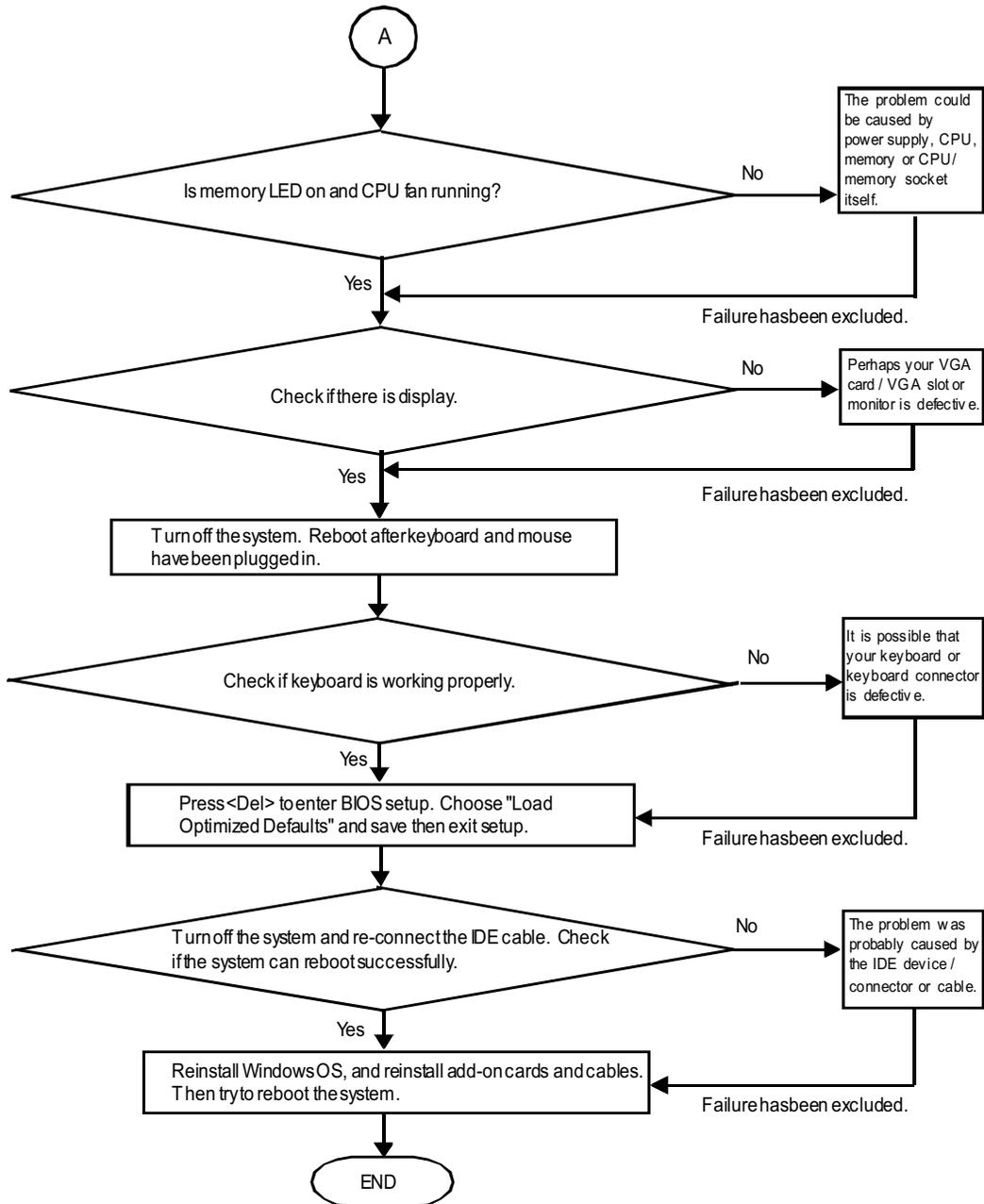
Troubleshooting

This chapter provides troubleshooting information for the Aspire T120E/ AcerPower M2:

❑   Boot up Troubleshooting Flow Chart

❑   Power-On Self-Test (POST)

❑   POST Check Points

❑   POST Error Messages List

❑   Error Symptoms List

Boot up Troubleshooting Flow Chart

```
                              ( START )
                                  │
                                  ▼
        ┌─────────────────────────────────────────────────────┐
        │ Turn off the power and unplug the AC power cable, then│
        │ remove all of the add-on cards and cables from        │
        │ motherboard.                                          │
        └─────────────────────────────────────────────────────┘
                                  │
                                  ▼
                    ╱─────────────────────────╲              Yes      ┌──────────────┐
                   ╱  Please make sure          ╲──────────────────────▶│ Please isolate│
                   ╲  motherboard & chassis are  ╱                      │ the short pin.│
                    ╲─not short ?───────────────╱                       └──────────────┘
                                  │ No                                         │
                                  │              Failure has been excluded.    │
                                  ◀────────────────────────────────────────────┘
                                  ▼
                    ╱─────────────────────────╲              No       ┌──────────────┐
                   ╱  Please make sure all      ╲──────────────────────▶│ Make sure the │
                   ╲  jumper settings (such as   ╱                      │ jumper setting│
                    ╲ CPU system bus speed,     ╱                       │ are correct.  │
                    ╱ frequency ratio, voltage  ╲                       └──────────────┘
                    ╲ and etc.) are set properly.╱                             │
                                  │ Yes          Failure has been excluded.    │
                                  ◀────────────────────────────────────────────┘
                                  ▼
                    ╱─────────────────────────╲              No       ┌──────────────┐
                   ╱  Check if the CPU cooling  ╲──────────────────────▶│ Plug the CPU │
                   ╲  fan attached to CPU        ╱                      │ cooling fan  │
                    ╲ properly. Is CPU cooling  ╱                       │ power in the │
                    ╱ fan power connected to    ╲                       │ CPU fan      │
                    ╲ CPU_FAN properly?         ╱                       │ connector.   │
                                  │ Yes                                 │ Plug in the  │
                                  │                                     │ AC power     │
                                  │                                     │ connector.   │
                                  │                                     └──────────────┘
                                  │              Failure has been excluded.    │
                                  ◀────────────────────────────────────────────┘
                                  ▼
                    ╱─────────────────────────╲              No       ┌──────────────┐
                   ╱  Check if the memory        ╲──────────────────────▶│ Insert and    │
                   ╲  install properly into the  ╱                      │ push the      │
                    ╲ DIMM slot.────────────────╱                       │ memory module │
                                  │ Yes                                 │ vertically    │
                                  │                                     │ into the DIMM │
                                  │                                     │ slot.         │
                                  │                                     └──────────────┘
                                  │              Failure has been excluded.    │
                                  ◀────────────────────────────────────────────┘
                                  ▼
        ┌─────────────────────────────────────────────────────┐
        │ Insert the VGA card. Then plug in ATX power cable and │
        │ turn on the system.                                   │
        └─────────────────────────────────────────────────────┘
                                  │
                                  ▼
                                ( A )
```

```
                              ( A )
                                │
                                ▼
                                                              ┌─────────────────┐
                                                              │ The problem could│
                                                              │ be caused by     │
   ◇ Is memory LED on and CPU fan running? ◇ ──── No ────────▶│ power supply, CPU,│
                                                              │ memory or CPU/   │
                                                              │ memory socket    │
                                │                             │ itself.          │
                               Yes ◀───────────────────────────────────────────┘
                                │              Failure has been excluded.
                                ▼
                                                              ┌─────────────────┐
                                                              │ Perhaps your VGA │
   ◇ Check if there is display. ◇ ──────────── No ───────────▶│ card / VGA slot or│
                                                              │ monitor is       │
                                                              │ defective.       │
                                │                             └─────────────────┘
                               Yes ◀───────────────────────────────────────────┘
                                │              Failure has been excluded.
                                ▼
   ┌──────────────────────────────────────────────────┐
   │ Turn off the system. Reboot after keyboard and    │
   │ mouse have been plugged in.                        │
   └──────────────────────────────────────────────────┘
                                │
                                ▼
                                                              ┌─────────────────┐
                                                              │ It is possible   │
                                                              │ that your        │
   ◇ Check if keyboard is working properly. ◇ ──── No ───────▶│ keyboard or      │
                                                              │ keyboard connector│
                                                              │ is defective.    │
                                │                             └─────────────────┘
                               Yes
                                │
                                ▼
   ┌──────────────────────────────────────────────────┐
   │ Press <Del> to enter BIOS setup. Choose "Load     │◀──────────────────────┘
   │ Optimized Defaults" and save then exit setup.     │  Failure has been excluded.
   └──────────────────────────────────────────────────┘
                                │
                                ▼
                                                              ┌─────────────────┐
   ◇ Turn off the system and re-connect the IDE cable. ◇      │ The problem was  │
   ◇ Check if the system can reboot successfully.      ◇ ─ No▶│ probably caused by│
                                                              │ the IDE device / │
                                                              │ connector or cable.│
                                │                             └─────────────────┘
                               Yes
                                ▼
   ┌──────────────────────────────────────────────────┐
   │ Reinstall Windows OS, and reinstall add-on cards  │◀──────────────────────┘
   │ and cables. Then try to reboot the system.        │  Failure has been excluded.
   └──────────────────────────────────────────────────┘
                                │
                                ▼
                            ( END )
```

Power-On Self-Test (POST)

Before the computer can be used, all the components must be tested and initialized, and the operating system must be bootstrapped into memory. This process is know as the power-on Self test(POST), generally under the control of the BIOS.

The Power-On Self Test (POST) is a BIOS procedure that boots the system, initializes and diagnoses the system components, and controls the operation of the power-on password option. During POST, system reports test or initialization failure through Beep codes, display error messages on screen(if available), or LED. The system halts when fatal error occurs.

The main components on the main board that must be diagnosed and/or initialized by POST to ensure system functionality are as follows:

- ❏ Microprocessor with built-in numeric co-processor and cache memory subsystem
- ❏ Direct Memory Access (DMA) controller
- ❏ Interrupt system
- ❏ Three programmable timers
- ❏ ROM subsystem
- ❏ RAM subsystem
- ❏ RTC RAM subsystem and real time clock/calendar with battery backup
- ❏ Onboard serial interface controller
- ❏ Onboard parallel interface controller
- ❏ Embedded hard disk interface and one diskette drive interface
- ❏ Keyboard and auxiliary device controllers
- ❏ I/O ports
    - ❏ PS/2-compatible mouse port
    - ❏ PS/2-compatible keyboard port
- ❏ Serial ports
- ❏ Parallel ports
- ❏ USB port

POST Check Points

When POST executes a task, it uses a series of preset numbers called check point to be latched at port 80h, indicating the stages it is currently running. This latch can be read and shown on a debug board.

The following table describes the Acer common tasks carried out by POST. A unique check point number represents each task.

Checkpoint	Description
CFh	Test CMOS R/W functionality
C0h	Early chipset initialization: • Disable shadow RAM • Disable L2 Cache (socket 7 or below) • Program basic chipset registers
C1h	Detect memory • Auto-detection of DRAM size, type and ECC. • Auto-detection of L2 cache (socket 7 or below)
C3h	Expand compressed BIOS code to DRAM
C5h	Call chipset hook to copy BIOS back to E000 & F000 shadow RAM
0h1	Expand the Xgroup codes locating in physical address 1000:0
02h	Reserved
03h	Initial Superio_Early_Init switch
04h	Reserved
05h	1. Blank out screen 2. Clear CMOS error flag
06h	Reserved
07h	1. Clear 8042 interface 2. Initialize 8042 self-test
08h	1. Test special keyboard controller for Winbond 977 series Super I/O chips 2. Enable keyboard interface
09h	Reserved
0Ah	1. Disable PS/2 mouse interface (optional) 2. Auto detect ports for keyboard & mouse followed by a port & interface swap (optional) 3. Reset keyboard for Winbond 977 series Super I/O chips
0Bh	Reserved
0Ch	Reserved
0Dh	Reserved
0Eh	Test F000h segment shadow to see whether it is R/W-able or not. If test fails. keep beeping the speaker.
0Fh	Reserved
10h	Auto detect flash type to load appropriate flash R/W codes into the run time area in F000 for ESCD & DMI support.
11h	Reserved

Checkpoint	*Description*
12h	Use walking 1's algorithm to check out interface in CMOS circuitry. Also set real-time clock power status, and then check for override.
13h	Reserved
14h	Program chipset default values into chipset. Chipset default values are MODBINable by OEM customers.
15h	Reserved
16h	Initial onboard clock generator if Early_Init_Onboard_Generator is defined. See also POST 26h.
17h	Reserved
18h	Detect CPU information including brand, SMI type (Cyrix or Intel) and CPU level (586 or 686).
19h	Reserved
1Ah	Reserved
1Bh	Initial interrupts vector table. If no special specified, all H/W interrupts are directed to SPURIOUS_INT_HDLR & S/W interrupts to SPURIOUS_soft_HDLR.
1Ch	Reserved
1Dh	Initial EARLY_PM_INIT switch
1Eh	Reserved
1Fh	Load keyboard matrix (notebook platform)
20h	Reserved
21h	HPM Initialization (notebook platform)
22h	Reserved
23h	1. Check validity of RTC value: e.g. a value of 5Ah is an invalid value for RTC minute. 2. Load CMOS settings into BIOS stack. If Smos checksum fails, use default value instead.
24h	Prepare BIOS resource map for PCI & PnP use. If ESCD is valid, take into consideration of the ESCD's legacy information.
25h	Early PCI Initialization: • Enumerate PCI bus number • Assign memory & I/O resource • Search for a valid VGA device & VGA BIOS, and put it into C000:0
26h	1. If Early_Init_Onboard_Generator is not defined Onboard clock generator initialization. Disable respective clock resource to empty PCI & DIMM slots. 2. Init onboard PWM 3. Init onboard H/W monitor devices
27h	Initialize INT 09 buffer
28h	Reserved
29h	1. Program CPU internal MTRR (P6 & PII) for 0-640K memory address. 2. Initialize the APIC for Pentium class CPU 3. Program early chipset according to CMOS setup. Example: onboard IDE controller. 4. Measure CPU speed.

Checkpoint	Description
2Ah	Reserved
2Bh	Invoke Video BIOS
2Ch	Reserved
2Dh	1. Initialize double-byte language font (Optional) 2. Put information on screen display, including Award title, CPU type, CPU speed, full screen logo.
2Eh	Reserved
2Fh	Rederved
30h	Reserved
31h	Reserved
32h	Reserved
33h	Reset keyboard if Early_Reset_KB is defined e.g. Winbond 977 series Super I/O chips. See also POST 63h
34h	Reserved
35h	Test DMA Channel 0
36h	Reserved
37h	Test DMA Channel 1
38h	Reserved
39h	Test DMA page registers
3Ah	Reserved
3Bh	Reserved
3Ch	Test 8254
3Dh	Reserved
3Eh	Test 8259 interrupt mask bits for channel 1
3Fh	Reserved
40h	Test 8259 interrupt mask bits for channel 2
41h	Reserved
42h	Reserved
43h	Test 8259 functionality
44h	Reserved
45h	Reserved
46h	Reserved
47h	Initialize EISA slot
48h	Reserved
49h	1. Calculate total memory by testing the last double word of each 64K page. 2. Program write allocation for AMD K5 CPU.
4Ah	Reserved
4Bh	Reserved
4Ch	Reserved
4Dh	Reserved

Checkpoint	Description
4Eh	1. Program MTRR of M1 CPU
	2. Initialize L2 cache for P6 class CPU & program CPU with proper cacheable range.
	3. Initialize the APIC for P6 class CPU.
	4. On MP platform, adjust the cacheable range to smaller one in case the cacheable ranges between each CPU are not identical.
4Fh	Reserved
50h	Initialize USB Keyboard & Mouse
51h	Reserved
52h	Test all memory (clear all extended memory to 0)
53h	Clear password according to H/W jumper (Optional)
54h	Reserved
55h	Display number of processors (multi-processor platform)
56h	Reserved
57h	1. Display PnP logo
	2. Early ISA PnP initialization - Assign CSN to every ISA PnP device
58h	Reserved
59h	Initialize the combined Trend Anti-Virus code
5Ah	Reserved
5Bh	(Optional Feature)
	Show message for entering AWDFLASH.EXE from FDD (optional)
5Ch	Reserved
5Dh	1. Initialize Init_Onboard_Super_IO
	2. Initialize Init_Onboard_AUDIO
5Eh	Reserved
5Fh	Reserved
60h	Okay to enter Setup utility; i.e. not until this POST stage can users enter the CMOS setup utility.
61h	Reserved
62h	Reserved
63h	Reset keyboard if Early_Reset_KB is not defined.
64h	Reserved
65h	Initialize PS/2 Mouse
66h	Reserved
67h	Prepare memory size information for function call:
	INT 15h ax=E820h
68h	Reserved
69h	Turn on L2 cache
6Ah	Reserved
6Bh	Program chipset registers according to items described in Setup & Auto-configuration table
6Ch	Reserved

Checkpoint	*Description*
6Dh	1. Assign resources to all ISA PnP devices.
	2. Auto assign ports to onboard COM ports if the correspond-ing item in Setup is set to "Auto".
6Eh	Reserved
6Fh	1. Initialize floppy controller
	2. Set up floppy related fields in 40:hardware
70h	Reserved
71h	Reserved
72h	Reserved
73h	Reserved
74h	Reserved
75h	Detech &install all IDE device: HDD, LS120, ZIP, CDROM...
76h	(Optional feature)
	Enter AWDFLASH.EXE if:
	- AWDFLASH.EXE is found in floppy drive.
	- ALT+F2 is prrssed.
77h	Detect serial ports & parallel ports
78h	Reserved
79h	Reserved
7Ah	Detect & install co-processor
7Bh	Reserved
7Ch	Init HDD write protect
7Dh	Reserved
7Eh	Reserved
7Fh	Switch back to text mode if full screen logo is supported.
	- If errors occur, report errors & wait for keys
	- If no errors occur or F1 key is pressed to continue:
	Clear EPA or customization logo.
80h	Reserved
81h	Reserved
82h	1. Call chipset power management hook.
	2. Recover the text fond used by EPA logo (not for full screen logo).
	3. If password is set, ask for password.
83h	Save all data in stack back to CMOS
84h	Initialize ISA PnP boot devices
85h	1. USB final initialization
	2. Switch screen back to text mode
86h	Reserved
87h	NET PC: Build SYSID structure
88h	Reserved
89h	1. Assign IRQs to PCI devices.
	2. Set up ACPI table at top of the memory.
8Ah	Reserved

Checkpoint	Description
8Bh	1. Invoke all ISA adapter ROMs 2. Invoke all PCI ROMs (except VGA)
8Ch	Reserved
8Dh	1. Enable/Disable Parity Check according to CMOS setup. 2. APM Initialization
8Eh	Reserved
8Fh	Clear noise if IRQs
90h	Reserved
91h	Reserved
92h	Reserved
93h	Read HDD boot sector information for Trend Anti-Virus code
94h	1. Enable L2 cache 2. Program Daylight Saving 3. Program boot up speed 4. Chipset final initialization 5. Power management final initialization 6. Clear screen & dispaly summary table 7. Program K6 write allocation 8. Program P6 class write combining
95h	Update keyboard LED & typematic rate
96h	1. Build MP table 2. Build & update ESCD 3. Set CMOS century to 20h or 19h 4. Load CMOS time into DOS timer tick 5. Build MSIRQ routing table
FFh	Boot attempt (INT 19h)

POST Error Messages List

If you cannot run the diagnostics program tests but did receive a POST error message, use "POST Error Messages List" to diagnose system problems. If you did not receive any error message, look for a description of your error symptoms in "Error Sympton List".

NOTE: When you have deemed it necessary to replace an FRU, and have done so, you must run a total system check to ensure that no other activity has been affected by the change. This system check can be done through the diagnostics program.

NOTE: Check all power supply voltages, switch, and jumper settings before you replace the main board. Also check the power supply voltages if you have a "system no-power" condition.

NOTE: To diagnose a problem, first find the BIOS error messages in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

BIOS Messages	Action/FRU
I/O Parity Error	1. System board
CPU Clock Mismatch	1. Enter BIOS Setup and load the default settings. 2. Ensure BIOS setting for processor is set correctly.
Real Time Clock Error CMOS Battery Bad CMOS Checksum Error	1. Enter BIOS Setup and load the default settings. 2. RTC Battery. 3. System Board.
Equipment Configuration Error	1. Ensure the system configuration set in BIOS Setup is correct. 2. Enter BIOS Setup and load the default settings. 3. RTC battery. 4. System board.
System Management Memory Bad Memory Error at MMMM:SSSS:OOOOh	1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. System board.
RAM Parity Error	1. Enter BIOS Setup to disable parity check. 2. Memory module 3. System board
PS/2 Keyboard Error or Keyboard Not Connected PS/2 Keyboard Interface Error PS/2 Keyboard Locked	1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 keyboard 4. PS/2 mouse 5. System board
Onboard xxx... Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.
Floppy Disk Controller Error Floppy Drive A Error Floppy Drive B Error	1. Diskette drive cable/connection. 2. Diskette drive. 3. System board
On Board Parallel Port Conflict(s) On Board Serial Port 1 Conflict(s) On Board Serial Port 2 Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.

BIOS Messages	Action/FRU
Floppy Drive(s) Write Protected Hard Disk Drive(s) Write Protected	1. Ensure that the diskette drive is not set to [Write Protected] in the Security Options in BIOS Setup. 2. Load default settings in Setup.
IDE Drive 0 Error IDE Drive 1 Error IDE Drive 2 Error IDE Drive 3 Error	1. Enter BIOS Setup and load the default settings. 2. Check IDE drive jumper. 3. IDE hard disk drive power. 4. IDE hard disk drive cable/connection. 5. IDE hard disk drive.
IRQ Setting Error Expansion ROM Allocation Fail I/O Resource Conflict(s) Memory Resource Conflict(s)	1. Load default settings in Setup. 2. Enter BIOS Setup and set the **Reset Resource Assignments** of the **PnP/PCI Options** to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system
PCI Device Error	1. Load default settings in Setup. 2. Enter BIOS Setup and set the **Reset Resource Assignments** of the **PnP/PCI Options** to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system.
PS/2 Pointing Device Interface Error PS/2 Pointing Device Error	1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 mouse 4. PS/2 keyboard 5. System board
DMI Table Was Destroyed	1. Flash BIOS
Press "DEL" key to enter Setup or F1 key to continue	1. Press DEL to enter Setup and reconfigure the system.
Press ESC to turn off NMI, or any key to reboot	1. Press ESC to reject NMI error or press any other key to reboot the system.
Insert system diskette and press ENTER key to reboot	1. Insert a bootable disk into the floppy disk drive or remove this disk if a hard disk is installed.

Error Symptoms List

NOTE: To diagnose a problem, first find the error symptom in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/ FRU listed in right column is the most likely cause

.

Error Symptom	Action/FRU
Processor / Processor Fan	
NOTE: Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems.	
Processor fan does not run but power supply fan runs.	1. Ensure the system is not in power saving mode. See "Power Management" in chapter 2. 2. With the system power on, measure the voltage of processor fan connector. Its reading should be +12Vdc. 3. System board.
Processor test failed.	1. Processor 2. System board
System Board and Memory	
NOTE: Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems.	
Memory test failed.	1. See "Memory" 2. System board
Incorrect memory size shown or repeated during POST.	1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. System board.
System works but fails to enter power saving mode when the `Power Management Mode` is set to `Enabled`, and power saving timer set in BIOS has elapsed.	1. Enter BIOS Setup and load default settings. In Windows 98, check settings in Power Management Property of Control Panel. 2. Reload software from Recovery CD.
System hangs before system boot.	1. See "Index of Symptoms" 2. See "Undetermined Problems"
System hangs after system boot.	1. Execute a system test and set it to stop at "Halt on Error" to see the potential cause of the problem. 2. See "Undetermined Problems".
Blinking cursor only; system does not work.	1. Diskette/IDE drive connection/cables 2. Diskette/IDE disk drives 3. See "Undetermined Problems". 4. System board
Diskette Drive	
NOTE: Ensure the diskette drive is configured correctly in BIOS Setup and its read/write head is clean before diagnosing any diskette drive problems.	
Media and drive are mismatched.	1. Ensure the diskette drive is configured correctly in the Disk Drives of BIOS Setup. 2. Ensure the diskette drive is correctly formatted. 3. Diskette drive connection/cable 4. Diskette drive 5. System board

Error Symptom	Action/FRU
Diskette drive does not work.	1. Ensure the diskette drive is not set to `None` in the Disk Drives of BIOS Setup. 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. System board
Diskette drive read/write error.	1. Diskette. 2. Ensure the diskette drive is not set to `Write protect` in the Security Options of BIOS Setup. 3. Diskette drive cable. 4. Diskette drive. 5. System board.
Diskette drive LED comes on for more than 2 minutes when reading data.	1. Diskette 2. Diskette drive connection/cable 3. Diskette drive 4. System board
Diskette drive LED fails to light, and the drive is unable to access for more than 2 minutes.	1. Diskette 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. System board
Diskette drive test failed.	1. Diskette 2. Diskette drive 3. Diskette drive cable 4. System board
Hard Disk Drive	
NOTE: Ensure hard disk drive is configured correctly in BIOS Setup, cable/jumper are set correctly before diagnosing any hard disk drive problems.	
Hard disk drive test failed.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. System board.
Hard disk drive cannot format completely.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. System board.
Hard disk drive has write error.	1. Enter BIOS Setup and Load default settings. 2. Hard disk drive.
Hard disk drive LED fails to light, but system operates normally.	1. With the system power on, measure the voltage of hard disk LED connector. 2. Hard drive LED cable.
CD/DVD-ROM Drive	
NOTE: Ensure CD/DVD-ROM drive is configured correctly in BIOS Setup, cable/jumper are set correctly and its laser beam is clean before diagnosing any CD/DVD-ROM drive problems.	
CD/DVD-ROM drive LED doesn't come on but works normally.	1. CD/DVD-ROM drive

Error Symptom	Action/FRU
CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off. Software asks to reinstall disc. Software displays a reading CD/DVD error.	1. CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc. 2. CD/DVD-ROM is not inserted properly. 3. CD/DVD-ROM is damaged.
CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held.	1. Disconnect all cables from CD/DVD-ROM drive except power cable, then press eject button to try to unload the disk. 2. CD/DVD-ROM drive power. 3. CD/DVD-ROM drive
CD/DVD-ROM drive does not read and there are no messages are displayed.	1. CD may have dirt or foreign material on it. Check with a known good disc. 2. Ensure the CD/DVD-ROM driver is installed properly. 3. CD/DVD-ROM drive.
CD/DVD-ROM drive can play audio CD but no sound output.	1. Ensure the headphone jack of the CD/DVD-ROM has an output. 2. Turn up the sound volume. 3. Speaker power/connection/cable. 4. CD/DVD-ROM drive.
Real-Time Clock	
Real-time clock is inaccurate.	1. Ensure the information in the `Date and Time` of BIOS Setup is set correctly. 2. RTC battery. 3. System board
Audio	
Audio software program invokes but no sound comes from speakers.	1. Speaker power/connection/cable.
Modem	
Modem ring cannot wake up system from suspend mode.	1. Ensure the `Modem Ring Indicator` in BIOS Setup or `Power Management` is set to `Enabled`. 2. If PCI modem card is used, reinsert the modem card to PCI slot firmly or replace the modem card. 3. If ISA modem card is used, ensure the modem ring-in cable from the modem card to system board is connected properly. 4. In Win 98, ensure the telephone application is configured correctly for your modem and set to receive messages and/or fax.
Data/fax modem software program invokes but cannot receive/send data/ fax	1. Ensure the modem card is installed properly.
Fax/voice modem software program invokes but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system sound feature works normally.)	1. Ensure the modem voice-in cable from modem adapter card to system board
Video and Monitor	
Video memory test failed. Video adapter failed.	1. Remove all non-factory-installed cards. 2. Load default settings (if screen is readable). 3. System board

Error Symptom	Action/FRU
Display problem: - Incorrect colors No high intensity Missing, broken, or incorrect characters Blank monitor(dark) Blank monitor(bright) Distorted image Unreadable monitor Other monitor problems	1. Monitor signal connection/cable. 2. Monitor 3. Video adapter card 4. System board
Display changing colors.	1. Monitor signal connection/cable 2. Monitor 3. System board
Display problem not listed above (including blank or illegible monitor).	1. "Monitor". 2. Load default settings (if screen is readable). 3. System board

Error Symptom	Action/FRU
Parallel/Serial Ports	
Execute "Load BIOS Default Settings" in BIOS Setup to confirm ports presence before diagnosing any parallel/serial ports problems.	
Serial or parallel port loop-back test failed.	1. Make sure that the LPT# or COM# you test is the same as the setting in BIOS Setup. 2. Loop-back. 3. System board.
Printing failed.	1. Ensure the printer driver is properly installed. Refer to the printer service manual. 2. Printer. 3. Printer cable. 4. System board.
Printer problems.	1. Refer to the service manual for the printer.
Keyboard	
Some or all keys on keyboard do not work.	1. Keyboard
Power Supply	
Pressing power switch does not turn off system. (Only unplugging the power cord from electrical outlet can turn off the system.)	1. Ensure the `Power Switch < 4 sec.` in BIOS Setup of `Power Management` is not set to `Suspend`. 2. Power switch cable assembly
Pressing power switch does not turn on the system.	1. Ensure the power override switch (situated at the back of the machine, just above the connector for the power cable) is not set to OFF. 2. Power switch cable assembly.
Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power switch can turn off the system).	1. Load default settings. 2. Reload software from Recovery CD.
No system power, or power supply fan is not running.	1. Power Supply 2. System Board
Other Problems	
Any other problems.	1. Undetermined Problems

Jumper and Connector Information

Checking Jumper Settings

This section explains how to set jumpers for correct configuration of the mainboard.
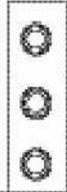
Setting Jumpers

Use the mainboard jumpers to set system configuration options. Jumpers with more than one pir are numbered. When setting the jumpers, ensure that the jumper caps are placed on the correct pins.

Jumper	Description
Short **Open**	The illustrations below show a 2-pin jumper. When the jumper cap is placed on both pins, the jumper is SHORT. If you remove the jumper cap, or place the jumper cap on just one pin, the jumper is OPEN.
1 2 3	This illustration shows a 3-pin jumper. Pins1 and 2 are SHORT.
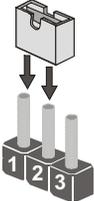
I/O Back Panel Introduction
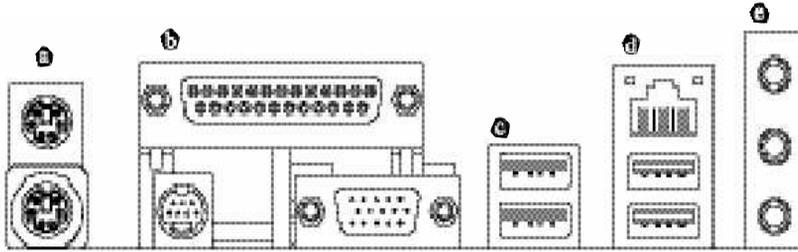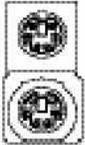
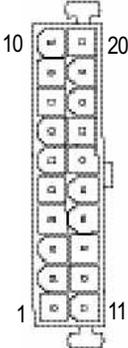| Item	Definition
	Up: PS/2 Mouse Connector(6 pin Female) Bottom:PS/2 Keyboard Connector(6 pin Female)
	Up: Parallel Port(25 pin Female) Bottom left: TV Out(7 pin Female) Bottom right: VGA Port(15 pin Female)
	USB0 and USB1 connector
	LAN: Fast Ethernet with 10/100Mbps speed USB2 and USB3 connector
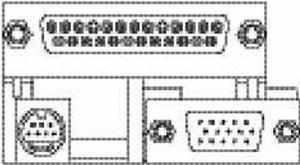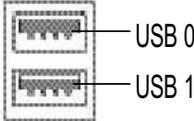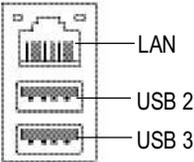
Item	Definition
	Up: Line In Middle: Line Out Bottom: MIC In

CONN & Jumper Settings

ATX_12V
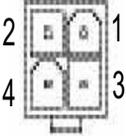
Setting	Pin	Signal Name
	1	GND
	2	GND
	3	+12V
	4	+12V

ATX

Setting	Pin	Signal Name		
	1	3.3V	11	3.3V
	2	3.3V	12	-12V
	3	GND	13	GND
	4	VCC	14	PS_ON(SoftOn/Off)
	5	GND	15	GND
	6	VCC	16	GND
	7	GND	17	GND
	8	PowerGood	18	-5V
	9	5V SB(stand by +5V)	19	VCC
	10	+12V	20	VCC

IDE Connector

Setting	Pin	Definition	Pin	Definition
	1	IDERST	21	IDE REQ
	2	GND	22	GND
	3	Device data 7	23	I/O Write
	4	Device data 8	24	GND
	5	Device data 6	25	I/O READ
	6	Device data 9	26	GND
	7	Device data 5	27	I/O RDY
	8	Device data 10	28	Pull down for always master
	9	Device data 4	29	IDE ACK
	10	Device data 11	30	GND
	11	Device data 3	31	IIDEIRQ
	12	Device data 12	32	NC
	13	Device data 2	33	Device address 1
	14	Device data 13	34	NC
	15	Device data 1	35	Device address 0
	16	Device data 14	36	Device address 2
	17	Device data 0	37	Device chip select S1
	18	Device data 15	38	Device chip select S3
	19	GND	39	HDDLED
	20	NC	40	GND
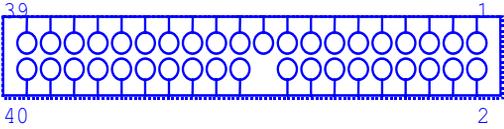
Floppy Connecter

Setting	Pin	Definitoin	Pin	Definition
	1	GND	18	DIPJ
	2	RWCJ	19	GND
	3	NC	20	STEPJ
	4	NC	21	GND
	5	GND	22	WDJ
	6	NC	23	GND
	7	GND	24	WGATEJ
	8	INDEXJ	25	GND
	9	GND	26	TRK0J
	10	MOAJ	27	GND
	11	GND	28	WPJ
	12	DSBJ	29	GND
	13	GND	30	RDATAJ
	14	DSAJ	31	GND
	15	GND	32	HEADJ
	16	MOBJ	33	GND
	17	GND	34	DSKCHGJ

F_USB1/F_USB2(Front USB Connector, Yellow)

Setting	Pin	Signal Name
	1	POWER
	2	POWER
	3	USB_DATAX-
	4	USB_DATAy-
	5	USB_DATAX+
	6	USB_DATAy+
	7	GND
	8	GND
	9	No Pin
	10	NC

Front Audio Connector

Setting	Pin	Pin Definition
	1	MIC
	2	GND
	3	REF
	4	POWER
	5	Front/Audio(R)
	6	Rear/Audio(R)
	7	Reserved
	8	No Pin
	9	Front/Audio(L)
	10	Rear/Audio(L)
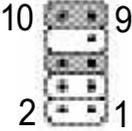
CD_IN
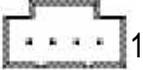
Setting	Pin	Definition
	1	CD L
	2	CD GND
	3	CD GND
	4	CD R

FAN CONNECTER

Setting	Pin	Definition
	1	GND
	2	+12V
	3	Sense

Clear CMOS

Setting	Definition
1 ▣▫	Open:Normal
1 ▦▦	Close:Clear CMOS

COM

Setting	Pin	Definition
2　　10 ▦▦▦▦▦ 1　　　9	1	NDCDB-
	2	NSINB
	3	NSOUTB
	4	NDTRB-
	5	GND
	6	NDSRB-
	7	NRTSB-
	8	NCTSB-
	9	NRIB-
	10	No Pin

F_USB_WK(Front USB Wake Up Function Jumper)

Setting	Pin	Definition
1▦	1-2 close	Enabled this function(Default)
1▦	2-3 close	Disabled this function

AUX_IN Connector
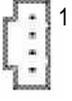
Setting	Pin	Definition
	1	AUX-L
	2	GND
	3	GND
	4	AUX-R

Set System Switch(CLK_SW)

Setting	Definition
ON ![switch OFF] OFF	OFF: Auto(133/166/ 200MHz, supports FSB 266/333/400MHz, default)
ON ![switch ON] OFF	ON: 100MHz(support FSB 200MHz CPU)

Front Panel Switch/LED Connector

Intel standard front panel connector array:
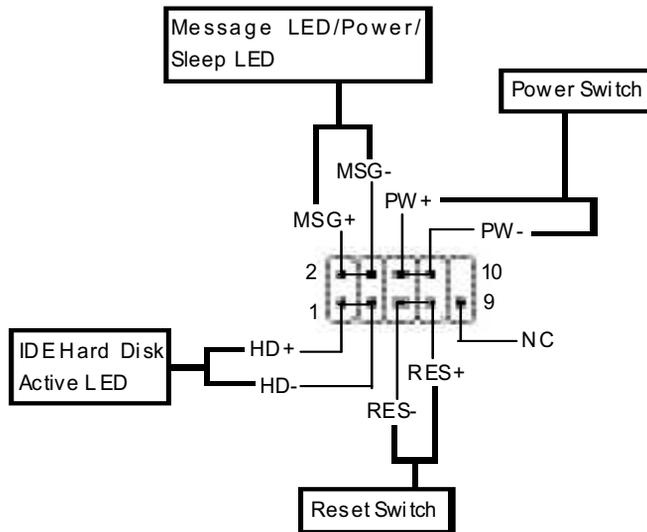
| Function	Description
HD(IDE Hard Disk Active LED)	Pin1:LED anode(+) Pin2:LED cathode(-)
RES(Reset Switch)	Open:Normal Ooperation Close:Reset Hardware System
PW(Soft Power Connector)	Open:Normal Operation Close:Power On/Off
MSG(MessageLED/Power/Sleep LED)	Pin1:LED anode(+) Pin2:LED cathode(-)
NC	NC

FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of
Aspire T120E&AcerPower M2. Refer to this chapter whenever ordering for parts to repair or for RMA (Return
 Merchandise Authorization).

Exploded Diagram

Aspire T120E
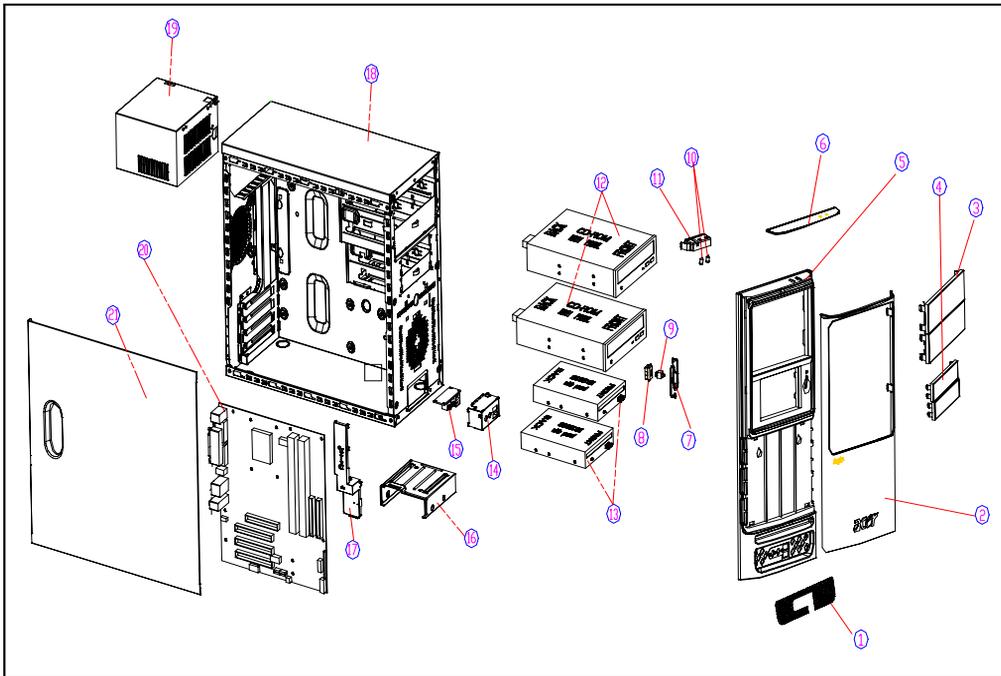
ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	VENT NET	16	HDD-BKT
2	FRONT DECORAT PAN	17	TRACK(EN501C)
3	5.25" FILLER PANEL	18	CHASSIS
4	3.5" FILLER PANEL	19	POWER-SUPPLY
5	FRONT BAZEL	20	MOTHER BOARD
6	TOP-DECOTAT PANEL	21	BKT-DOOR
7	POWER BUTTON		
8	SWIRCH-HOLDER		
9	SWIRCH CABLE		
10	LED CABLE		
11	LED HOLDER		
12	CD-ROM/DVD-ROM		
13	FDD-WITH-PANEL		
14	USB BKT		
15	USB BOARD		
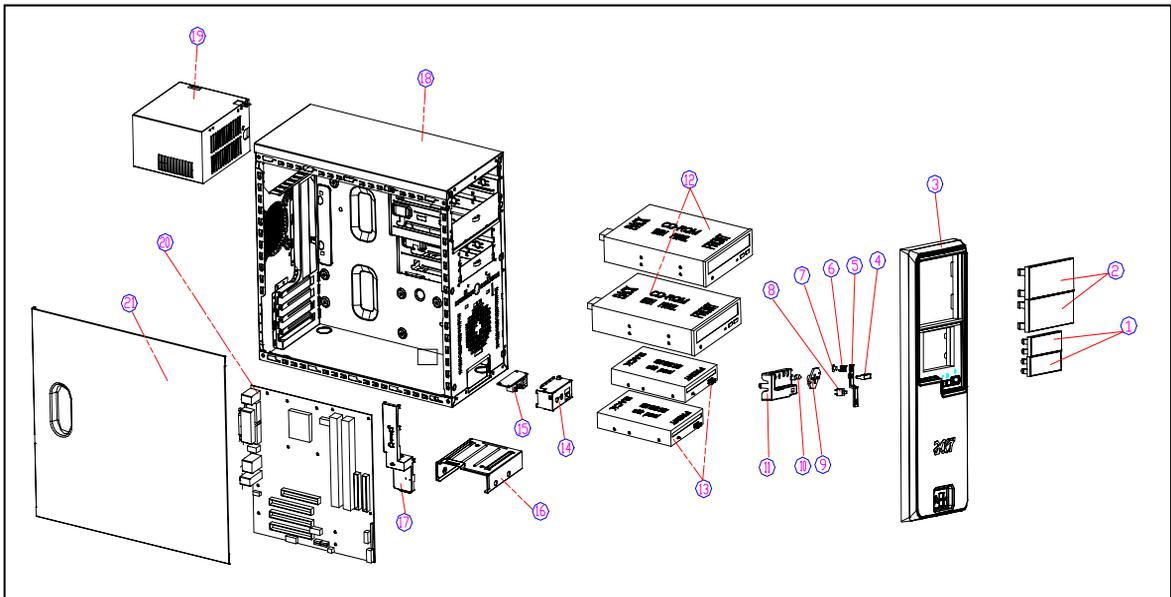
Item	Description	Item	Description
1	3.5" FILLER PANEL	12	CD-ROM
2	5.25" FILLER PANEL	13	FDD-WITH-PANEL
3	FRONT BEZEL PANEL(PAINTED AND SILKI	14	USB BKT
4	POWER BUTTON(PAINTED)	15	USB BOARD
5	POWER BUTTON PUSH POLE	16	HDD-BKT
6	SPRING	17	TRACK(EN501C)
7	SCREW T3*8	18	CHASSIS
8	SWITCH CABLE	19	POWER-SUPPLY
9	LED LENS	20	MOTHER BOARD
10	LED CABLE	21	BKT-DOOR
11	LED SWITCH HOLDER		

Parts

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/, if you do not own a specific account, you can still access the system with guest; guest). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
BOARD			
	USB/AUDIO DAUGHTER BOARD FOXCONN	USB BOARD	55.PSPVF.001
READER			
N/A	6-IN-1 CARD READER MODULE 3.5 IN. BLACK ECS UCR-61	6-IN-1 CARD READER MODULE 3.5 IN. BLACK ECS UCR-61	PZ.U6104.001
CABLES			
	SATA HDD CABLE	HDD DATA CABLE	50.PSPVF.001
	IDE CD-ROM CABLE ATA66 40PIN	CDROM DATA CABLE	50.PSPVF.002
	IDE FDD CABLE 34PIN	FDD DATA CABLE	50.PSPVF.003

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
	AUDIO CABLE 8PIN 2CON	AUDIO CABLE	50.S03VF.001
	FRONT INTERNAL USB CABLE 10PIN 2CON	USB CABLE	50.S03VF.002
CASE/COVER/BRACKET ASSEMBLY			
For Aspire T120E			
	FRONT BEZEL W/ POWER BUTTON, 5.25" 3.5" EMPTY COVER,	BEZEL ASSY	60.S14VF.001
	FRONT COVER SILVER	FRONT COVER SILVER	42.S14VF.005
N/A	POWER BUTTON	POWER BUTTON(PAINTED)	42.S14VF.001
	SIDE DOOR	BKT-DOOR(PAINTING)	60.S14VF.002
N/A	CHASSIS W/0 I/O SHIELD	K SERIAL CHASSIS ASSY BLACK(W/ SIDE DOOR)	60.S14VF.003
N/A	I/O SHIELD	I/O SHIELD ASSY	PZ.S130A.002
N/A	RETENTION MODULE	RETENTION MODULE	42.S14VF.002
N/A	LED MODULE	LED HOLDER ASSY	42.S14VF.003

Pic	Partname	Description	Acer Part No.
N/A	SWITCH HOLDER ASSY	SWITCH HOLDER ASSY	42.S14VF.004
N/A	EMPTY COVER FOR 5.25" DEVICE	5.25" FILLER PANEL	42.S03VF.004
	HDD BRACKET	BKT-HDD	33.S14VF.001
N/A	FILLER COVER FOR 3 1/2" DEVICE	3.5" FILLER PANEL	42.S03VF.005
For AcerPower M2			
	FRONT BEZEL W/ POWER BUTTON, 5.25" 3.5" EMPTY COVER,	BEZEL ASSY	60.P08VF.001
N/A	POWER BUTTON	POWER BUTTON(PAINTED)	42.P08VF.001
	SIDE DOOR	BKT-DOOR(PAINTING)	60.S14VF.002
N/A	CHASSIS W/ SIDE DOOR W/0 I/O SHIELD	K SERIAL CHASSIS ASSY BLACK(W/ SIDE DOOR)	60.S14VF.003
N/A	I/O SHIELD	I/O SHIELD ASSY	PZ.S130A.002
N/A	LED MODULE	LED-SWITCH HOLDER ASSY	42.P08VF.001
N/A	EMPTY COVER FOR 5.25" DEVICE	5.25" FILLER PANEL	42.S03VF.004
	HDD BRACKET	BKT-HDD	33.S14VF.001
N/A	FILLER COVER FOR 3 1/2" DEVICE	3.5" FILLER PANEL	42.S03VF.005
FOOT STAND			
N/A	RUBBER FOOT	RUBBER FOOT	47.S03VF.001

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
CD-ROM DRIVE			
N/A	CD-ROM DRIVE 52X LITEON LTN-527T BLACK	CD-ROM DRIVE 52X LITEON LTN-527T BLACK	KD.05209.003
N/A	CD-ROM DRIVE 52X BTC F564E BLACK	DRV,CD-ROM 52X,F564E BTC (BLACK)	KD.0520A.001
CD-RW DRIVE			
	CD-RW DRIVE 52XR 32XRW 52XW LITEON LTR-52327S BLACK	CD-RW DRIVE 52XR 32XRW 52XW LITEON LTR-52327S BLACK	KR.03201.002
	CD-RW DRIVE 52XR 32XRW 52XW BTC 5232IM BLACK	CD-RW DRIVE 52XR 32XRW 52XW BTC 5232IM BLACK	KR.0320A.002
	CD-RW DRIVE 52XR 32XRW 52XW HLDS GCE-8523B BLACK	CD-RW DRIVE 52XR 32XRW 52XW HLDS GCE-8523B BLACK	KR.0520C.001
COMBO DRIVE			
N/A	COMBO DRIVE 52X HLDS GCC-4521B BLACK F/W:1.02	COMBO DRIVE 52X HLDS GCC-4521B BLACK	KO.0520A.002
N/A	COMBO DRIVE 52X BTC BCO-52161M BLACK	COMBO DRIVE 52X BTC BCO-52161M BLACK	KO.0520C.002
N/A	COMBO DRIVE 52X LITEON SOHC-5232K BLACK	COMBO DRIVE 52X LITEON SOHC-5232K BLACK	KO.05209.002
DVD-ROM DRIVE			
N/A	DVD-ROM DRIVE 16X LITEON SOHD-167T BLACK	DVD-ROM DRIVE 16X LITEON SOHD-167T BLACK	KV.01604.003
N/A	DVD-ROM DRIVE 16X HLDS GDR-8163B BLACK	DVD-ROM DRIVE 16X HLDS GDR-8163B BLACK	KV.0160D.003
N/A	DVD-ROM DRIVE 16X BTC BDV 316E BLACK	DVD-ROM DRIVE 16X BTC BDV 316E BLACK	KV.0160A.002
	DVD-ROM DRIVE 16X PIONEER DVD-121RD BLACK W/O ACER LOGO	DRV,DVD-ROM 16X40X,DVD-121RD PIONEER (BLACK)	KV.01605.003
DVD+RW DRIVE			
N/A	SUPERMULTI PLUS 8XDVD HLDS GSA-4082B FW A201 BLACK	8X DVD SUPERMULTI PLUS (BLACK)	KU.0080D.002
FANSINK			

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
	CPU FANSINK P4 478 FOR NORTHWOOD 2.8GHZ CPU (AND BELOW)+FOXCONN CPU 7015 FAN PKP111G01K12	CPU FANSINK P4 478 FOR NORTHWOOD 2.8GHZ CPU (AND BELOW)+FOXCONN CPU 7015 FAN PKP111G01K12	
N/A	CPU FANSINK FOR NW 3.4G AND PRESCOTT 2.8G-3.2G	Foxconn P4 478 fansink for Northwood 3.4G and Prescott 2.8G-3.2G	HI.1920C.001
	SYSTEM FAN	Foxconn 92x25 system fan for P4 Northwood 3.0Ghz (and above)	HI.9830C.001
CPU/PROCESSOR			
N/A	CELERON 2.6GHZ/ 400FSB/128K (MULTIPLE VID)	SL6V3, RK80532RC064128	KC.DCD01.26A
N/A	CELERON 2.8G SOCKET 478, D1	CELERON 2.8GHZ/400FSB/128K	KC.DCD01.28A
N/A	CELERON 2.8GHZ/ 533FSB/256K (PSC)	CELERON SL7DP, RK80546RE088256	KC.DCP01.28B
N/A	Celeron 330 (2.66G/ 256K/533FSB) (Prescott)	SL7DL, RK80546RE067256	KC.D0001.330
N/A	Celeron 325 (2.53G/ 256K/533FSB) (Prescott)	SL7DK, RK80546RE061256	KC.D0001.325
N/A	INTEL PENTIUM 4 2.8GHZ/1M/533FSB (PSC) SL7E2,RK80546PE0721M	INTEL P4 2.8G SL7E2,RK80546PE0721M	KC.DP001.28B
N/A	PRESCOTT 2.8GHZ / 1M / 800FSB	RK80546PG0721M	KC.DPD01.28C
N/A	PRESCOTT 3.0GHZ / 1M / 800FSB	RK80546PG0801M	KC.DPD01.30C
N/A	PRESCOTT 3.2GHZ / 1M / 800FSB	SL7B8, RK80546PG0881M	KC.DPD01.32C
FDD/FLOPPY DISK DRIVE			
N/A	FDD 1.44MB PANASONIC JU-256A198PC BLACK	FDD,PANASONIC,JU-256A198PC BLACK	KF.25602.003
ADD-ON CARD			

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
N/A	VGA CARD FX5200 256MB DDR W/TV OUT (PAL), ATX BRACKET PROLINK	VGA CARD FX5200 256MB DDR W/TV OUT (PAL), ATX BRACKET PROLINK	VG.52007.002
N/A	VGA CARD FX5200 256MB DDR W/TV OUT (PAL), ATX BRACKET PROLINK	VGA CARD FX5200 256MB DDR W/TV OUT (PAL), ATX BRACKET PROLINK	VG.52007.001
N/A	FX5700 128MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.57L0A.002
N/A	VGA CARD ATI RADEON 9200SE 128MB DDR W/TVO/DVI (PAL) SAPHIRE ATX BRACKET	VGA CARD ATI RADEON 9200SE 128MB DDR W/TV-OUT + DVI (PAL), ATX BRACKET	54.ATI92.SE2
N/A	VGA CARD ATI RADEON 9600SE 128MB DDR W/ TV out (PAL), ATX bracket	VGA CARD ATI RADEON 9600SE 128MB DDR W/ TV OUT (PAL), ATX BRACKET	54.ATI96.SE2
N/A	Radeon 9800SE 128MB(Hynix) W/TV out + DVI (PAL & NTSC) ATX bracket		54.ATI98.SE3
N/A	Radeon 9550 128MB 64bit W/TV out + DVI (PAL & NTSC) ATX bracket		VG.9550B.001
N/A	VGA CARD FX-5200 128MB W/TV-OUT+DVI (PAL) ATX BRACKET LEADTEK LR2960 F/W:4.3.5.1	VGA FX-5200 LR2960 128MB W/ TV-OUT+DVI PAL	VG.29604.001
N/A	FX5200 256MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.52004.001
N/A	FX5700 128MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.57L04.002
N/A	MODEM CARD HSF V.92 56K, STANDARD ATX BRACKET ASKEY 1456VQHT5 (INT1)	MODEM CARD HSF V.92 56K, STANDARD ATX BRACKET ASKEY 1456VQHT5 (INT1)	FX.14501.003
N/A	MODEM CARD ATX GVC F1156I(+)/R12(EU)	MODEM CARD ATX GVC	FX.56I02.003
N/A	TUNER CARD VP-3020C DTV-T CARD WITH ATX BRACKET TWINHAN	TUNER CARD VP-3020C DTV-T CARD WITH ATX BRACKET TWINHAN	TU.20C03.001

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
N/A	TUNER CARD W/FM/PAL/ATX BRACKET (PHILIP MK3 TUNER+881 CHIP) LEADTEK LR 6611	TUNER CARD W/FM/PAL/ATX BRACKET (PHILIP MK3 TUNER+881 CHIP) LEADTEK LR 6611	TU.61102.001
PIONTING DEVICE			
N/A	CORDED MOUSE PS2 2 BUTTON WHEEL GENIUS NETSCROLL BLACK	CORDED MOUSE PS2 2 BUTTON WHEEL GENIUS NETSCROLL BLACK	MS.PSE04.008
N/A	CORDED MOUSE USB OPTICAL GENIUS POWERSCROLL EYE SILVER	GENIUS POWERSCROLL USB OPTICAL WIRE ACER LOGO SILVER	MS.PSE04.005
N/A	USB OPTICAL MOUSE 2 BUTTON+WHEEL(SILVER) M-UV ACR1	USB OPTICAL MOUSE 2 BUTTON+WHEEL(SILVER) M-UV ACR1	MS.MUV01.001
PS/2 KEYBOARD			
N/A	PS/2 KEYBOARD, KBP2971, US VER., 104KEYS		KB.KBP03.066
	PS/2 KEYBOARD, KBP2971, T.CHINESE VER., 104KEYS		KB.KBP03.067
	PS/2 KEYBOARD, KBP2971, ARABIC VER., 104KEYS		KB.KBP03.068
	PS/2 KEYBOARD, KBP2971, THAI VER., 104KEYS		KB.KBP03.069
	PS/2 KEYBOARD, KBP2971, SPANISH/US VER., 105KEYS		KB.KBP03.070
	PS/2 KEYBOARD, KBP2971, INT'L US VER., 104KEYS		KB.KBP03.071
	PS/2 KEYBOARD, KBP2971, CANADIAN/FRENCH VER., 105KEYS		KB.KBP03.072
	PS/2 KEYBOARD, KBP2971, BRAZILIAN VER., 107KEYS		KB.KBP03.073
	PS/2 KEYBOARD, KBP2971, UK VER., 104KEYS		KB.KBP03.074
	PS/2 KEYBOARD, KBP2971, FRENCH VER., 105KEYS		KB.KBP03.075
	PS/2 KEYBOARD, KBP2971, GERMANY VER., 105KEYS		KB.KBP03.076
	PS/2 KEYBOARD, KBP2971, ITALIAN VER., 105KEYS		KB.KBP03.077
	PS/2 KEYBOARD, KBP2971, SWISS VER., 105KEYS		KB.KBP03.078
	PS/2 KEYBOARD, KBP2971, SWEDISH VER., 105KEYS		KB.KBP03.079
	PS/2 KEYBOARD, KBP2971, BELGIUM VER., 105KEYS		KB.KBP03.080

Acer Aspire T120E&AcerPower M2

Pic	Partname	Description	Acer Part No.
		PS/2 KEYBOARD, KBP2971, DUTCH VER., 105KEYS	KB.KBP03.081
		PS/2 KEYBOARD, KBP2971, HOLLAND VER., 105KEYS	KB.KBP03.082
		PS/2 KEYBOARD, KBP2971, SPANISH VER., 105KEYS	KB.KBP03.083
		PS/2 KEYBOARD, KBP2971, PORTUGESE VER., 105KEYS	KB.KBP03.084
		PS/2 KEYBOARD, KBP2971, ICELAND VER., 105KEYS	KB.KBP03.085
		PS/2 KEYBOARD, KBP2971, NORWEGIAN VER., 105KEYS	KB.KBP03.086
		PS/2 KEYBOARD, KBP2971, HEBREW VER., 105KEYS	KB.KBP03.087
		PS/2 KEYBOARD, KBP2971, POLISH VER., 105KEYS	KB.KBP03.088
		PS/2 KEYBOARD, KBP2971, SLOVENIAN VER., 105KEYS	KB.KBP03.089
		PS/2 KEYBOARD, KBP2971, SLOVAKIAN VER., 105KEYS	KB.KBP03.090
		PS/2 KEYBOARD, KBP2971, TURKEY VER., 105KEYS	KB.KBP03.091
		PS/2 KEYBOARD, KBP2971, RUSSIAMVER., 104KEYS	KB.KBP03.092
		PS/2 KEYBOARD, KBP2971, HUNGARIA VER., 105KEYS	KB.KBP03.093
		PS/2 KEYBOARD, KBP2971, GREEK VER., 104KEYS	KB.KBP03.094
		PS/2 KEYBOARD, KBP2971, DENMARK VER., 105KEYS	KB.KBP03.095
N/A		PS/2 KEYBOARD, KBP2971, CZECH VER., 104KEYS	KB.KBP03.097
		PS/2 KEYBOARD, KBP2971, US VER., 104KEYS, JAPAN ABS BLACK	KB.KBP03.098
		PS/2 KEYBOARD, KBP2971, ARABIC VER., 104KEYS, JAPAN ABS BLACK	KB.KBP03.099
		PS/2 KEYBOARD, KBP2971, INT'L US VER., 104KEYS, JAPAN ABS BLACK	KB.KBP03.101
		PS/2 KEYBOARD, KBP2971, UK VER., 104KEYS, JAPAN ABS BLACK	KB.KBP03.102
		PS/2 KEYBOARD, KBP2971, FRENCH VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.103
		PS/2 KEYBOARD, KBP2971, GERMANY VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.104
		PS/2 KEYBOARD, KBP2971, ITALIAN VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.105
		PS/2 KEYBOARD, KBP2971, SWISS VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.106
		PS/2 KEYBOARD, KBP2971, SWEDISH VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.107
		PS/2 KEYBOARD, KBP2971, BELGIUM VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.108
		PS/2 KEYBOARD, KBP2971, DUTCH VER., 105KEYS, JAPAN ABS BLACK	KB.KBP03.109
		PS/2 KEYBOARD, KBP2971, HOLLAND VER., 105KEYS, JAPAN ABS BLAC	KB.KBP03.110

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Pic	Partname	Description	Acer Part No.
	PS/2 KEYBOARD, KBP2971, SPANISH VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.111
	PS/2 KEYBOARD, KBP2971, PORTUGESE VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.112
	PS/2 KEYBOARD, KBP2971, ICELAND VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.113
	PS/2 KEYBOARD, KBP2971, NORWEGIAN VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.114
	PS/2 KEYBOARD, KBP2971, HEBREW VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.115
	PS/2 KEYBOARD, KBP2971, POLISH VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.116
	PS/2 KEYBOARD, KBP2971, SLOVENIAN VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.117
	PS/2 KEYBOARD, KBP2971, SLOVAKIAN VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.118
	PS/2 KEYBOARD, KBP2971, TURKEY VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.119
	PS/2 KEYBOARD, KBP2971, RUSSIAMVER., 104KEYS, JAPAN ABS BLACK		KB.KBP03.120
N/A	PS/2 KEYBOARD, KBP2971, HUNGARIA VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.121
	PS/2 KEYBOARD, KBP2971, GREEK VER., 104KEYS, JAPAN ABS BLACK		KB.KBP03.122
	PS/2 KEYBOARD, KBP2971, DENMARK VER., 105KEYS, JAPAN ABS BLACK		KB.KBP03.123
	PS/2 KEYBOARD, KBP2971, CZECH VER., 104KEYS, JAPAN ABS BLACK		KB.KBP03.124
USB KEYBOARD			
	USB KB(SILVER), KU0355, US VER., 104KEYS		KB.KUP03.034
	USB KB(SILVER), KU0355, T.CHINESE VER., 104KEYS		KB.KUP03.035
	USB KB(SILVER), KU0355, INT'L US VER., 104 KEYS		KB.KUP03.036
	USB KB (SILVER), KU0355, ARABIC VER., 104 KEYS		KB.KUP03.037
	USB KB (SILVER), KU0355, THAI VER., 104 KEYS		KB.KUP03.038
	USB KB (SILVER), KU0355, GERMANY VER., 105 KEYS		KB.KUP03.039
	USB KB (SILVER), KU0355, ITALIAN VER., 105 KEYSUSB KB (SILVER), KU0355, FRENCH VER., 105 KEYS		KB.KUP03.040 KB.KUP03.041
	USB KB (SILVER), KU0355, SWEDEN VER., 105 KEYS		KB.KUP03.042
	USB KB (SILVER), KU0355, UK VER., 104 KEYS		KB.KUS03.001
	USB KB (SILVER), KU0355, SPANISH VER., 105 KEYS		KB.KUS03.002

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Pic	Partname	Description	Acer Part No.
	USB KB (SILVER), KU0355, DUTCH VER., 105 KEYS		KB.KUS03.003
	USB KB (SILVER), KU0355, PORTUGESE VER., 105 KEYS		KB.KUS03.004
	USB KEYBOARD, KU0355, CANADIAN/FRENCH VER., 105KEYS		KB.KUS03.009
	USB KEYBOARD, KU0355, BRAZILIAN VER., 107KEYS		KB.KUS03.010
	USB KEYBOARD, KU0355, SWISS VER., 105KEYS		KB.KUS03.011
	USB KEYBOARD, KU0355, BELGIUM VER., 105KEYS		KB.KUS03.012
	USB KEYBOARD, KU0355, ICELAND VER., 105KEYS		KB.KUS03.014
	USB KEYBOARD, KU0355, NORWEGIAN VER., 105KEYS		KB.KUS03.015
	USB KEYBOARD, KU0355, HEBREW VER., 105KEYS		KB.KUS03.016
	USB KEYBOARD, KU0355, POLISH VER., 105KEYS		KB.KUS03.017
	USB KEYBOARD, KU0355, SLOVENIAN VER., 105KEYS		KB.KUS03.018
	USB KEYBOARD, KU0355, SLOVAKIAN VER., 105KEYS		KB.KUS03.019
	USB KEYBOARD, KU0355, TURKEY VER., 105KEYS		KB.KUS03.020
	USB KEYBOARD, KU0355, RUSSIAMVER., 104KEYS		KB.KUS03.021
	USB KEYBOARD, KU0355, HUNGARIA VER., 105KEYS		KB.KUS03.022
	USB KEYBOARD, KU0355, GREEK VER., 104KEYS		KB.KUS03.023
	USB KEYBOARD, KU0355, DENMARK VER., 104KEYS		KB.KUS03.024
	USB KEYBOARD, KU0355, CZECH, 104KEYS		KB.KUS03.058
	USB KEYBOARD, KU-0355, IN'L US VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.063
	USB KEYBOARD, KU-0355, ARABIC VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.064
	USB KEYBOARD, KU-0355, GERMANY VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.065
	USB KEYBOARD, KU-0355, ITALIAN VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.066
	USB KEYBOARD, KU-0355, FRENCH VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.067
	USB KEYBOARD, KU-0355, SWEDEN VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.068
	USB KEYBOARD, KU-0355, UK VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.069
	USB KEYBOARD, KU-0355, SPANISH VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.070
	USB KEYBOARD, KU-0355, DUTCH VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.071
	USB KEYBOARD, KU-0355, PORTUGESE VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.072
	USB KEYBOARD, KU-0355, SWISS VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.073
	USB KEYBOARD, KU-0355, BELGIUM VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.074

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Pic	Partname	Description	Acer Part No.
	USB KEYBOARD, KU-0355, HOLLAND VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.075
	USB KEYBOARD, KU-0355, ICELAND VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.076
	USB KEYBOARD, KU-0355, NORWEGIAN VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.077
	USB KEYBOARD, KU-0355, HEBREW VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.078
	USB KEYBOARD, KU-0355, POLISH VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.079
	USB KEYBOARD, KU-0355, SLOVENIAN VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.080
	USB KEYBOARD, KU-0355, SLOVAKIAN VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.081
	USB KEYBOARD, KU-0355, TURKEY VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.082
	USB KEYBOARD, KU-0355, RUSSIAMVER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.083
	USB KEYBOARD, KU-0355, HUNGARIA VER., 105KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.084
	USB KEYBOARD, KU-0355, GREEK VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.085
	USB KEYBOARD, KU-0355, DENMARK VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.086
	USB KEYBOARD, KU-0355, CZECH VER., 104KEYS, JAPAN ABS SLIVER+BLACK		KB.KUS03.087
MAINBOARD			
	MB G74M, SIS 741+SIS 964L, K7 462 PIN/ 2DIMM/3PCI GIGABYTE+I/O SHIELD	MB G74M, SIS 741+SIS 964L, K7 462 PIN/2DIMM/3PCI GIGABYTE+I/O SHIELD	MB.S130A.004
MEMORY			

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Pic	Partname	Description	Acer Part No.
N/A	MEMORY DDR333 128MB 0.11U INFINEON HYS64D16301GU-6-C		KN.12802.012
	MEMORY DDR333 256MB 0.11U INFINEON HYS64D32300GU-6-C		KN.25602.014
	MEMORY DDR333 512MB 0.11U INFINEON HYS64D64320GU-6-C		KN.51202.016
	INFINEON DDR333 128MB 0.11U, CL=2.5		KN.12802.008
	INFINEON DDR333 512MB 0.11U 64M*8 *8		KN.51202.008
	MEMORY DDR 333 128MB/0.14U/16M*16*4 /NANYA NT128D64SH4B1G-6K		KN.12803.005
	MEMORY DDR333 256MB NANYA NT256D64S88B1G-6K		KN.25603.008
	MEMORY DDR 333 512MB NANYA NT512D64S8HB1G-6K		KN.51203.004
	MEMORY DDR 400 256MB 0.11U BLACK 32M*8*16 CL=3 INFINEON		KN.25602.018
	MEMORY DDR 400 512MB 0.11U BLACK 32M*8*16 CL=3 INFINEON		KN.51202.018
	MEMORY DDR 400 128MB 0.11U GREEN 16M*64 INFINEON HYS64D16301HU-5-C		KN.12802.011
	MEMORY DDR 400 256MB INFINEON 32X8X9 CL3, 1.25" INFINEON HYB25D256800CT-5		KN.25602.013
	MEMORY DDR 400 512MB INFINEON 32X8X18 CL3, 1.25" INFINEON HYB25D256800CT-5		KN.51202.012
	NANYA DDR400 128MB		KN.12803.014
	MEMORY DDR400 256MB NANYA NT256D64S88B1G-5T EA		KN.25603.011
	MEMORY DDR400 512MB NANYA NT512D64S8HB1G-5T		KN.51203.007
	MEMORY DDR400 256MB 0.11U CL=3 MICRON MT8VDDT3264AG-40BGB		KN.25604.013
	MEMORY DDR400 256MB 0.11U CL=2.5 MICRON MT4VDDT3264AG-40BC1		KN.25604.018
	MEMORY DDR400 512MB 0.11U CL=3 MICRON MT16VDDT6464AG-40BGB		KN.51204.011
POWER SUPPLY			
	POWER SUPPLY 230W W/O PFC FSP FSP200-ATV(A)	POWERSUPPLY-FSP230-60ATV	PY.23008.003
	POWER SUPPLY 230W W PFC FSP 200-ATV(A)(PF)	POWERSUPPLY-FSP230-60ATV-PF	PY.23008.004
SCREWS			

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Pic	Partname	Description	Acer Part No.
N/A	M/B, USB BOARD SCREW	SCREW M3*6(FOR M/B AND USB)	86.PSPVF.001
	FDD, CD-ROM SCREW	SCREW M3(FOR FDD AND CD-ROM)	86.PSPVF.002
	CHASSIS SCREW	THUMB SCREW	86.S03VF.001
	SPS SCREW	SCREW#6-32UNC(FOR SPS, HDD AND CARD)	86.PSPVF.004
SPEAKER			
N/A	SPEAKER USB 3" *2 NEOSONICA 510 THYME510 WHITE	SPEAKER,USB 3" *2, 510,NEOSONICA	SP.51004.001
	SPEAKER USB 3" *2 NEOSONICA THYME510 BLACK	SPEAKER,USB 3"FULL RANG CONE,THYME510	SP.51004.003
HDD/HARD DISK DRIVE			
N/A	HDD 80GB 7200RPM SATA SEAGATE ALPINE ST380013AS		KH.08001.005
	HDD 120G 7200RPM SATA SEAGATE ALPINE ST3120026AS		KH.12001.005
	HDD 160G 7200RPM SATA SEAGATE ALPINE ST3160023AS		KH.16001.004
	HDD 80GB 7200RPM SATA WDD XL80SD WD800JD-22HKA0		KH.08008.007
	HDD 120GB 7200RPM SATA WD WD1200JD-22HB		KH.12008.007
	HDD 160GB 7200RPM SATA WD WD1600JD-22HB		KH.16008.007
	HDD 200GB 7200RPM SATA WD WD2000JD-22HB		KH.20008.007
	HDD 250GB 7200RPM SATA WD WD2500JD-22HB		KH.25008.006
	HDD 3.5 IN. 40GB 5400RPM WD 400EB-11JEF0, 2M, FDB		KH.04008.005
	HDD 3.5 IN. 80GB 5400RPM WD 800EB-11JEF0		KH.08008.005
	HDD 40GB 7200RPM WD XL80SD WD400BB-22FJA0		KH.04008.006
	HDD 80GB 7200RPM WD XLS80SD WD800BB-22FJA0 F/W A0		KH.08008.006
	HDD 120GB 7200RPM WD XL80 WD1200BB-22FTA0		KH.12008.003
	HDD 160GB 7200RPM WD XL80 WD1600BB-22FTA0		KH.16008.003
	HDD 200GB 7200RPM WD XL80 WD2000BB-22FTA0		KH.20008.003
	HDD 250GB 7200RPM WD XL80 WD2500BB-22FTA0		KH.25008.002
	HDD 120GB 7200RPM WD XL80II WD1200BB-22GUA0 2MB FDB		KH.12008.006
	HDD 160GB 7200RPM WD XL80II WD1600BB-22GUA0 2MB FDB		KH.16008.006
	HDD 200GB 7200RPM WD XL80II WD2000BB-22GUA0 2MB FDB		KH.20008.006
	HDD 250GB 7200RPM WD XL80II WD2500BB-22GUA0 2MB FDB		KH.25008.005
	HDD 40GB 7200RPM SEAGATE ALPINE/BPA ST340014A		KH.04001.011
	HDD 80GB 7200RPM SEAGATE ALPINE/BPA ST380011A		KH.08001.008

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Pic	Partname	Description	Acer Part No.
		HDD 120GB 7200RPM SEAGATE ALPINE/BPA ST3120022A	KH.12001.010
		HDD 160GB 7200RPM SEAGATE ALPINE/BPA ST3160021A	KH.16001.009

Model Definition and Configuration

The Aspire T120E/AcerPower M2 Model No. Define:

1. Trade Mark:

2. Brand Name: Acer

3. Description: SiS741+SiS964L, K7462pin / 2DIMM / 3PCI

4. Model No: K4.2

5. Product Name: Aspire T120E/ AcerPower M2

Test Compatible Components

Aspire T120E/ AcerPower M2 compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under the environments of Windows XP Home.

Microsoft Windows XP Home Environment Test

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
MAINBOARD/IO Bracket/MB kit			
Gigabyte	SiS 741 + SiS 964L, K7 462 pin/ 2DIMM/3PCI	G74M	MB.S130A.003
MAINBOARD Kit			
Gigabyte	G74M + I/O bracket		MB.S130A.004
I/O Bracket			
Gigabyte	I/O bracket for G74M		PZ.S130A.002
Housing Kit			
	H602 housing PFC/FDD for AcerPower M2		HS.P080D.001
	H602 housing PFC W/O FDD for AcerPower M2		HS.P080D.002
	H602 housing PFC/FDD for Aspire T120E		HS.S160D.001
	H602 housing PFC W/O FDD for Aspire T120E		HS.S160D.002
CPU FAN			
Foxconn	PKP145G01K12	PKP145G01K12	HI.1450C.001
System Fan			
Foxconn	System Fan, 92x92x25, 3400rpm, CS Bearing 550+/-10mm	PV983DG3BC6511	HI.9830C.001
CPU(333Mhz)			
AMD	Athlon XP 2600+ (Barton)	333MHz, 256KB L2	KC.A2602.BXP
	Athlon XP 2800+ (Barton)	2.08GHz, 333MHz, 512KB L2	KC.A2802.0XP
	Athlon XP 3000+ (Barton)	2.17GHz, 333MHz, 512KB L2	KC.A3002.0XP
CPU(400Mhz)			
AMD	Athlon XP 3000+ (Barton)	400MHz, 512KB L2	KC.A3002.BXP
	Athlon XP 3200+ (Barton)	400MHz, 512KB L2	KC.A3202.0XP
DIMM(DDR 333)			
Infineon	DDR 333 128MB 0.11u(black)	HYS64D16301GU-6-C	KN.12802.012
	DDR 333 256MB 0.11u(black)	HYS64D32300GU-6-C	KN.25602.014
	DDR 333 512MB 0.11u(black)	HYS64D64320GU-6-C	KN.51202.016

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	DDR 333 128MB 0.11u	HYS64D16301HU-6-C	KN.12802.008
	DDR 333 512MB 0.11u	HYS64D64320HU-6-C	KN.51202.008
Nanya	DDR 333 128MB 0.14u 16M*16*4	NT128D64SH4B1G-6K	KN.12803.005
	DDR 333 256MB 0.14u 32M*8*8	NT256D64S88B1G-6K	KN.25603.008
	DDR 333 512MB 0.14u 32M*8*16	NT512D64S8HB1G-6K	KN.51203.004
DIMM(DDR 400)			
Infineon	DDR400 256MB 0.11u (Black) 32M*8*16 CL=3		KN.25602.018
	DDR400 512MB 0.11u (Black) 32M*8*16 CL=3		KN.51202.018
	DDR 400 512MB	HYS64D64320GU-5-B	KN.51202.006
Nanya	DDR400 128MB	NT128D64SH4B1G-5T	KN.12803.014
	DDR400 256MB	NT256D64S88B1G-5T	KN.25603.011
	DDR400 512MB	NT512D64S8HB1G	KN.51203.007
Micron	Micron DDR 400 256MB, 0.11u CL = 3	MT8VDDT3264AG-40BGB	KN.25604.013
	Micron DDR 400 512MB, 0.11u CL = 3	MT16VDDT6464AG-40BGB	KN.51204.011
HDD (P-ATA/5400RPM)			
WD	Protégé XL80SD 40G 5400RPM, ATA-100	WD400EB-11JEF0	KH.04008.005
	Protégé XL80SD 80G 5400RPM, ATA-100	WD800EB-11JEF0	KH.08008.005
HDD (P-ATA/7200RPM)			
WD	Caviar XL80SD 40G 7200RPM, ATA-100	WD400BB-22FJA0	KH.04008.006
	Caviar XL80SD 80G 7200RPM, ATA-100	WD800BB-22FJA0	KH.08008.006
	XL80 120G 7200RPM	WD1200BB-22FTA0	KH.12008.003
	XL80 160GB 7200RPM	WD1600BB-22FTA0	KH.16008.003

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	XL80 200GB 7200RPM	WD2000BB-22FTA0	KH.20008.003
	XL80 250GB 7200RPM		
	XL80II 120G 7200rpm, WD1200BB-22GUA0 2MB FDB	WD1200BB-22GUA0	KH.12008.006
	XL80II 160G 7200rpm, WD1600BB-22GUA0 2MB FDB	WD1600BB-22GUA0	KH.16008.006
	XL80II 200G 7200rpm, WD2000BB-22GUA0 2MB FDB	WD2000BB-22GUA0	KH.20008.006
	XL80II 250G 7200rpm, WD2500BB-22GUA0 2MB FDB	WD2500BB-22GUA0	KH.25008.005
Seagate	Alpine/BPA 40G 7200RPM, ATA-100	ST340014A	KH.04001.011
	Alpine/BPA 80G 7200RPM, ATA-100	ST380011A	KH.08001.008
	Alpine/BPA 120G 7200RPM, ATA-100	ST3120022A	KH.12001.010
	Alpine/BPA 160G 7200RPM, ATA-100	ST3160021A	KH.16001.009
VGA Card			
Prolink	FX5200 128MB DDR W/TV out + DVI (PAL), ATX bracket		VG.52007.002
	FX5200 256MB DDR W/TV out + DVI (PAL), ATX bracket		VG.52007.001
	FX5700 128MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.57L0A.002
Sapphire	Radeon 9200SE 128MB(Mezza),W/TV-out + DVI (PAL & NTSC) ATX bracket		54.ATI92.SE2
	Radeon 9600SE 128MB(Hynix memory), W/TV out + DVI (PAL& NTSC) ATX bracket		54.ATI96.SE2
	Radeon 9800SE 128MB(Hynix) W/TV out + DVI (PAL & NTSC) ATX bracket		54.ATI98.SE3
	Radeon 9550 128MB 64bit W/TV out + DVI (PAL & NTSC) ATX bracket		VG.9550b.001

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
Leadtek	FX5200 128MB DDR W/ TV out + DVI (PAL), ATX bracket	LR2960 PCB:B, Ass Rev.:A	VG.29604.001
	FX5200 256MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.52004.001
	FX5700 128MB DDR W/ TV out + DVI (PAL), ATX bracket		VG.57L04.002
CD-ROM			
Lite-On	52X CD-ROM	LTN-527T(black)	KD.05209.003
BTC	52X CD-ROM	F564E (black)	KD.0520A.001
HLDS			
CD-RW			
Lite-On	52X/32X/52X CD-RW	LTR-52327S (black)	KR.03201.002
BTC	52x32x52 CD-RW	5232IM(black)	KR.0320A.002
HLDS	52X/32X/52X	GCE-8525B(black)	KR.0520C.001
DVD ROM			
Lite-On	16X DVD-ROM	SOHD-167T(black)	KV.01604.003
HLDS	16X/52X	GDR-8163B(black)	KV.0160D.003
BTC	16X/40X	BDV 316E(black)	KV.0160A.002
Combo			
HLDS	52X Combo	GCC-4521B(black)	KO.0520A.002
BTC	52X Combo	BCO-5216IM(black)	KO.0520C.002
HLDS	52X Combo	SOHC-5232K(black)	KO.05209.002
SuperMultiPlus			
HLDS	8X DVD SuperMulti Plus(black)	GSA-4082B(black)	KU.0080D.002
Modem Card			
GVC	F-1156I(+)/R12-AAP		FX.56I02.003
Housing			
Foxconn	Microtower/ 3*3.5"+2*5.25"(black)	H602 housing	HS.S030D.001
SPS			
FSP	FSP200-ATV(A)(PF), 230W PFC SPS	FSP200-60ATV(A)(PF)	PY.23008.004
FDD			
	1.44M 3.5"(black)	JU-256A198PC	KF.25602.003
Daughter Board			
Foxconn	USB/Audio daughter board		TBD

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
Media Card Reader			
ECS	3.5" (black) 6-in-1 card reader	UCR-61	PZ.U6104.001
TV Tuner Card			
Leadtek	Tuner Card w/FM/PAL/ATX Bkt (Philip MK3 Tuner + 881 chip)	LR 6611	TU.61102.001
Digital TV Tuner Card			
TwinHan	TV Tuner Card VP-3020C DTV-T card with ATX bracket	VP-3020C	TU.20C03.001
Keyboard			
Chicony	PS/2 Keyboard, KBP2971, US Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.066
	PS/2 Keyboard, KBP2971, T.Chinese Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.067
	PS/2 Keyboard, KBP2971, Arabic Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.068
	PS/2 Keyboard, KBP2971, Thai Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.069
	PS/2 Keyboard, KBP2971, Spanish/US Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.070
	PS/2 Keyboard, KBP2971, Int'l US Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.071
	PS/2 Keyboard, KBP2971, Canadian/French Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.072
	PS/2 Keyboard, KBP2971, Brazilian Ver., 107keys	Chicony KB 2971(black)	KB.KBP03.073
	PS/2 Keyboard, KBP2971, UK Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.074
	PS/2 Keyboard, KBP2971, French Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.075
	PS/2 Keyboard, KBP2971, Germany Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.076
	PS/2 Keyboard, KBP2971, Italian Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.077

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	PS/2 Keyboard, KBP2971, Swiss Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.078
	PS/2 Keyboard, KBP2971, Swedish Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.079
	PS/2 Keyboard, KBP2971, Belgium Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.080
	PS/2 Keyboard, KBP2971, Dutch Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.081
	PS/2 Keyboard, KBP2971, Holland Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.082
	PS/2 Keyboard, KBP2971, Spanish Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.083
	PS/2 Keyboard, KBP2971, Portugese Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.084
	PS/2 Keyboard, KBP2971, Iceland Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.085
	PS/2 Keyboard, KBP2971, Norwegian Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.086
	PS/2 Keyboard, KBP2971, Hebrew Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.087
	PS/2 Keyboard, KBP2971, Polish Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.088
	PS/2 Keyboard, KBP2971, Slovenian Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.089
	PS/2 Keyboard, KBP2971, Slovakian Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.090
	PS/2 Keyboard, KBP2971, Turkey Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.091
	PS/2 Keyboard, KBP2971, RussiamVer., 104keys	Chicony KB 2971(black)	KB.KBP03.092
	PS/2 Keyboard, KBP2971, Hungaria Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.093
	PS/2 Keyboard, KBP2971, Greek Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.094
	PS/2 Keyboard, KBP2971, Denmark Ver., 105keys	Chicony KB 2971(black)	KB.KBP03.095

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	PS/2 Keyboard, KBP2971, Czech Ver., 104keys	Chicony KB 2971(black)	KB.KBP03.097
	PS/2 Keyboard, KBP2971, US Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.098
	PS/2 Keyboard, KBP2971, Arabic Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.099
	PS/2 Keyboard, KBP2971, Int'l US Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.101
	PS/2 Keyboard, KBP2971, UK Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.102
	PS/2 Keyboard, KBP2971, French Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.103
	PS/2 Keyboard, KBP2971, Germany Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.104
	PS/2 Keyboard, KBP2971, Italian Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.105
	PS/2 Keyboard, KBP2971, Swiss Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.106
	PS/2 Keyboard, KBP2971, Swedish Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.107
	PS/2 Keyboard, KBP2971, Belgium Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.108
	PS/2 Keyboard, KBP2971, Dutch Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.109
	PS/2 Keyboard, KBP2971, Holland Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.110
	PS/2 Keyboard, KBP2971, Spanish Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.111
	PS/2 Keyboard, KBP2971, Portugese Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.112
	PS/2 Keyboard, KBP2971, Iceland Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.113
	PS/2 Keyboard, KBP2971, Norwegian Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.114
	PS/2 Keyboard, KBP2971, Hebrew Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.115
	PS/2 Keyboard, KBP2971, Polish Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.116

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	PS/2 Keyboard, KBP2971, Slovenian Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.117
	PS/2 Keyboard, KBP2971, Slovakian Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.118
	PS/2 Keyboard, KBP2971, Turkey Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.119
	PS/2 Keyboard, KBP2971, RussiamVer., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.120
	PS/2 Keyboard, KBP2971, Hungaria Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.121
	PS/2 Keyboard, KBP2971, Greek Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.122
	PS/2 Keyboard, KBP2971, Denmark Ver., 105keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.123
	PS/2 Keyboard, KBP2971, Czech Ver., 104keys, Japan ABS	Chicony KB 2971(black)	KB.KBP03.124

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
Chicony	USB Keyboard, KU0355, US Ver., 104keys	Chicony KU0355(silver)	KB.KUP03.034
	USB Keyboard, KU0355, T.Chinese Ver., 104keys	Chicony KU0355(silver)	KB.KUP03.035
	USB Keyboard, KU0355, In'l US Ver., 104keys	Chicony KU0355(silver)	KB.KUP03.036
	USB Keyboard, KU0355, Arabic Ver., 104keys	Chicony KU0355(silver)	KB.KUP03.037
	USB Keyboard, KU0355, Thai Ver., 104keys	Chicony KU0355(silver)	KB.KUP03.038
	USB Keyboard, KU0355, Germany Ver., 105keys	Chicony KU0355(silver)	KB.KUP03.039
	USB Keyboard, KU0355, Italian Ver., 105keys	Chicony KU0355(silver)	KB.KUP03.040
	USB Keyboard, KU0355, French Ver., 105keys	Chicony KU0355(silver)	KB.KUP03.041
	USB Keyboard, KU0355, Sweden Ver., 105keys	Chicony KU0355(silver)	KB.KUP03.042
	USB Keyboard, KU0355, UK Ver., 104keys	Chicony KU0355(silver)	KB.KUS03.001
	USB Keyboard, KU0355, Spanish Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.002
	USB Keyboard, KU0355, Dutch Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.003
	USB Keyboard, KU0355, Portugese Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.004

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	USB Keyboard, KU0355, Canadian/ French Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.009
	USB Keyboard, KU0355, Brazilian Ver., 107keys	Chicony KU0355(silver)	KB.KUS03.010
	USB Keyboard, KU0355, Swiss Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.011
	USB Keyboard, KU0355, Belgium Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.012
	USB Keyboard, KU0355, Holland Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.013
	USB Keyboard, KU0355, Iceland Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.014
	USB Keyboard, KU0355, Norwegian Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.015
	USB Keyboard, KU0355, Hebrew Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.016
	USB Keyboard, KU0355, Polish Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.017
	USB Keyboard, KU0355, Slovenian Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.018
	USB Keyboard, KU0355, Slovakian Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.019
	USB Keyboard, KU0355, Turkey Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.020
	USB Keyboard, KU0355, RussiamVer., 104keys	Chicony KU0355(silver)	KB.KUS03.021
	USB Keyboard, KU0355, Hungaria Ver., 105keys	Chicony KU0355(silver)	KB.KUS03.022
	USB Keyboard, KU0355, Greek Ver., 104keys	Chicony KU0355(silver)	KB.KUS03.023
	USB Keyboard, KU0355, Denmark Ver., 104keys	Chicony KU0355(silver)	KB.KUS03.024
	USB Keyboard, KU0355, Czech Ver., 104keys	Chicony KU0355(silver)	KB.KUS03.058
	USB Keyboard, KU-0355, US Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.062
	USB Keyboard, KU-0355, In'l US Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.063

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	USB Keyboard, KU-0355, Arabic Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.064
	USB Keyboard, KU-0355, Germany Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.065
	USB Keyboard, KU-0355, Italian Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.066
	USB Keyboard, KU-0355, French Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.067
	USB Keyboard, KU-0355, Sweden Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.068
	USB Keyboard, KU-0355, UK Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.069
	USB Keyboard, KU-0355, Spanish Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.070
	USB Keyboard, KU-0355, Dutch Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.071
	USB Keyboard, KU-0355, Portugese Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.072
	USB Keyboard, KU-0355, Swiss Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.073
	USB Keyboard, KU-0355, Belgium Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.074
	USB Keyboard, KU-0355, Holland Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.075
	USB Keyboard, KU-0355, Iceland Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.076
	USB Keyboard, KU-0355, Norwegian Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.077
	USB Keyboard, KU-0355, Hebrew Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.078
	USB Keyboard, KU-0355, Polish Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.079
	USB Keyboard, KU-0355, Slovenian Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.080

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	USB Keyboard, KU-0355, Slovakian Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.081
	USB Keyboard, KU-0355, Turkey Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.082
	USB Keyboard, KU-0355, RussiamVer., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.083
	USB Keyboard, KU-0355, Hungaria Ver., 105keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.084
	USB Keyboard, KU-0355, Greek Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.085
	USB Keyboard, KU-0355, Denmark Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.086
	USB Keyboard, KU-0355, Czech Ver., 104keys, Japan ABS	Chicony KU0355(silver)	KB.KUS03.087
Mouse			
KYE	PS/2 mouse, 2 button+wheel(black)	NetScroll PS2(black)	MS.PSE04.008
	USB optical mouse, 2 button+wheel(silver)	PowerScroll USB(sliver)	MS.PSE04.005
Logitech	USB optical mouse, 2 button+wheel(silver)	M-UV ACR1(black)	MS.MUV01.001
Speaker			
Neosonica	USB, 3" *2	Thyme510(black)	SP.51004.003
Monitor			
Compal	17" CRT MONITOR, AC711,TCO99,N.M.,W/EUROPE POWER CORD		ES.71102.001
	17" CRT MONITOR,AC711,TCO99,N.M.,W/ UK POWER CORD		ES.71102.002
	17" CRT MONITOR,AC711,TCO99,N.M.,W/O POWER CORD		ES.71102.003
	17" CRT MONITOR,AC711,TCO99,N.M.,W/ US POWER CORD(STK)		ES.71102.004

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	17" CRT MONITOR,AC711,MPRII,N.M.,W/US POWER CORD(AAC)		ES.71102.005
	17" CRT MONITOR,AC711,MPRII,N.M.,W/O POWER CORD		ES.71102.006
	17" CRT MONITOR,AC711,MPRII,E.M.,W/O POWER CORD		ES.71102.007
	17" CRT MONITOR,AC711,TCO99,N.M.,W/EUROPE POWER CORD		ES.71102.001
	17" CRT MONITOR,AC711,MPRII,S.M.,W/O POWER CORD		ES.71102.008
	17" CRT MONITOR,AC711,MPRII,S.M.W/AUSTRALIA POWER CORD		ES.71102.009
	17" CRT MONITOR,AC711,MPRII,N.M.,W/EUROPE POWER CORD		ES.71102.010
	17" CRT MONITOR,AC711,MPRII,N.M.,W/US POWER CORD(STK)		ES.71102.011
	17" CRT MONITOR,AC711,MPRII,E.M.,W/O POWER CORD(AAC)		ES.71102.012
	17" CRT MONITOR,AC711,MPRII,N.M.,W/CHINA POWER CORD		ES.71102.013
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/EUROPE POWER CORD		ET.51102.001
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/UK POWER CORD		ET.51102.002
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/O POWER CORD		ET.51102.004

COMPONENTS	SPEC.	MODEL DESCRIPTION	ACER PART No.
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/AUSTRALIA POWER CORD		ET.51102.005
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/SWISS POWER CORD		ET.51102.006
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/CHINA POWER CORD		ET.51102.007
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/US POWER CORD(AAC)		ET.51102.008
	15" LCD MONITOR,AL511,W/O SPEAKER,TCO99,W/US POWER CORD(STK)		ET.51102.009
Campel	15" LCD MONITOR,AL511(002),W/O SPEAKER,TCO99,W/US POWER CORD(STK)		ET.51102.016
Jean	15" LCD MONITOR,AL513,W/O SPEAKER,TCO99,W/US POWER CORD(STK)		ET.51305.008
	15' LCD MONITOR,AL512,W/ SPEAKER,TCO99,W/US POWER CORD(STK)		ET.51205.007
Liteon	17" CRT,86K,AC707,MPRII,N.M.,W/US POWER CORD(STK)		ES.70704.011
	17" LCD MONITOR, AL702,W/ SPEAKER, TCO99, W/US POWER CORE (STK)		ET.70204.007

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- ❑ Service guides
- ❑ User's manuals
- ❑ Training materials
- ❑ Main manuals
- ❑ Bios updates
- ❑ Software utilities
- ❑ Spare parts lists
- ❑ TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- ❑ Detailed information on Acer's International Traveller's Warranty (ITW)
- ❑ Returned material authorization procedures
- ❑ An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

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