

Clear CMOS (CLRRTC)	Clear CMOS	Normal *
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\*Default

#### Speaker connector (SPEAKER1)

Pin	Signal
1	Speak Out
2	GND
3	GND
4	+5V

#### Digital Audio connector (SPDIF\_OUT)

Pin	Signal
1	+5V
2	KEY
3	SPDIFOUT
4	GND

#### CD-IN (CD)

Pin	Signal
1	CD-L
2	CD GND
3	CD GND
4	CD-R

#### ATX power connectors

##### (ATX12V)

Signal	Pin	Pin	Signal
GND	1	2	+12V
GND	3	4	+12V

##### (EATXPWR1)

Signal	Pin	Pin	Signal
+3.3V	12	24	GND
+12V	11	23	+5V
+12V	10	22	+5V
+5V VSB	9	21	+5V
PWR-OK	8	20	-5V
GND	7	19	GND
+5V	6	18	GND
GND	5	17	GND
+5V	4	16	PS-ON
GND	3	15	GND
+3.3V	2	14	-12V
+3.3V	1	13	+3.3V

#### Front USB Header (USB56, USB78)

Signal	Pin	Pin	Signal
VCC	1	2	VCC
USB-	3	4	USB-
USB+	5	6	USB+
GND	7	8	GND
KEY	9	10	NC

#### Front panel audio

##### (Azalia)

Signal	Pin	Pin	Signal
SENSE2_RETURN	10	9	PORT2L
KEY	8	7	SENSE_SEND
SENSE1_RETURN	6	5	PORT2R
PRESENCE#	4	3	PORT1R
GND	2	1	PORT1L

##### (Legacy AC'97)

Signal	Pin	Pin	Signal
BLINE_OUT_L	10	9	Line out_L
KEY	8	7	NC
BLINE_OUT_R	6	5	Line out_R
+5VA	4	3	MICPWR
AGND	2	1	MIC2

#### Chassis Instruction (CHASSIS)

Signal	Pin
GND	4
Chassis Signal	3
Key	2
+5VSB_MB	1

#### Front Panel Header (F\_PANEL)

Signal	Pin	Pin	Signal
KEY	10	9	NC
GND	8	7	Reset
PWR	6	5	GND
PWR_LED-	4	3	IDE_LED-
PWR_LED+	2	1	IDE_LED+

# BV945GL

Intel® Core™2 Duo / Pentium® D / Pentium® 4 / Celeron® D,  
90/65nm Process

With Socket 775 Processors Support

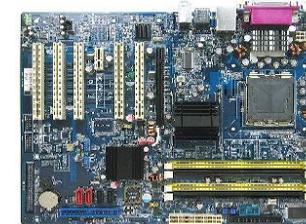
User's Quick Start Card

Version 1.00

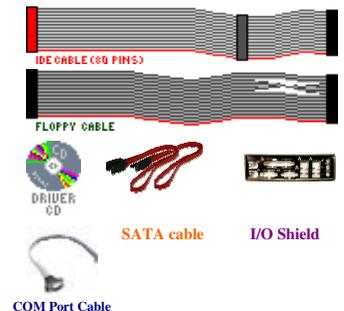
<http://www.bcmcom.com>

#### Inspect the Package:

- One BV945GL Motherboard
- One IDE Cable (80 wire)
- One Floppy Cable
- Two SATA Cable
- One Driver CD/DVD
- One Standard I/O Shield
- One COM Port Cable
- One User's Quick Start Card



BV945GL



#### Responsibility:

This manual is provided "As-Is" with no warranties of any kind, expressed or implied, including, but not limited to the implied warranties or conditions of this product's fitness for any particular purpose. In no event shall we be liable for any loss of profits, loss of business, loss of data, interruption of business, or indirect, special, incidental, or consequential damages of any kind, even the possibility of such damages arising from any defect or error in this manual or product. We reserve the right to modify and update the user manual without prior notice.

#### ⚠ Attention: CPU Socket Protector

Please read the user's manual carefully prior installing the Processor. Do not remove CPU socket protector if no CPU is in the LGA775 socket. Place the CPU protector back to the socket during transport and when returning board for service.

[http://www.intel.com/cd/channel/reseller/asm-na/eng/products/box\\_processors/desktop/proc\\_dsk\\_p4/technical\\_reference/99345.htm#processorinstallation](http://www.intel.com/cd/channel/reseller/asm-na/eng/products/box_processors/desktop/proc_dsk_p4/technical_reference/99345.htm#processorinstallation)

#### ⚠ WARNING: CMOS Battery Damage

Replace your system's CMOS RAM battery only with the identical CR-2032 3V Lithium-Ion coin cell (or equivalent) battery type to avoid risk of personal injury or physical damage to your equipment. Improper installation might cause battery to explode. Always dispose of used batteries according to the manufacturer's instructions, or as required by the local ordinance (where applicable). The damage due to not following this warning will void your motherboard's manufacturer warranty.

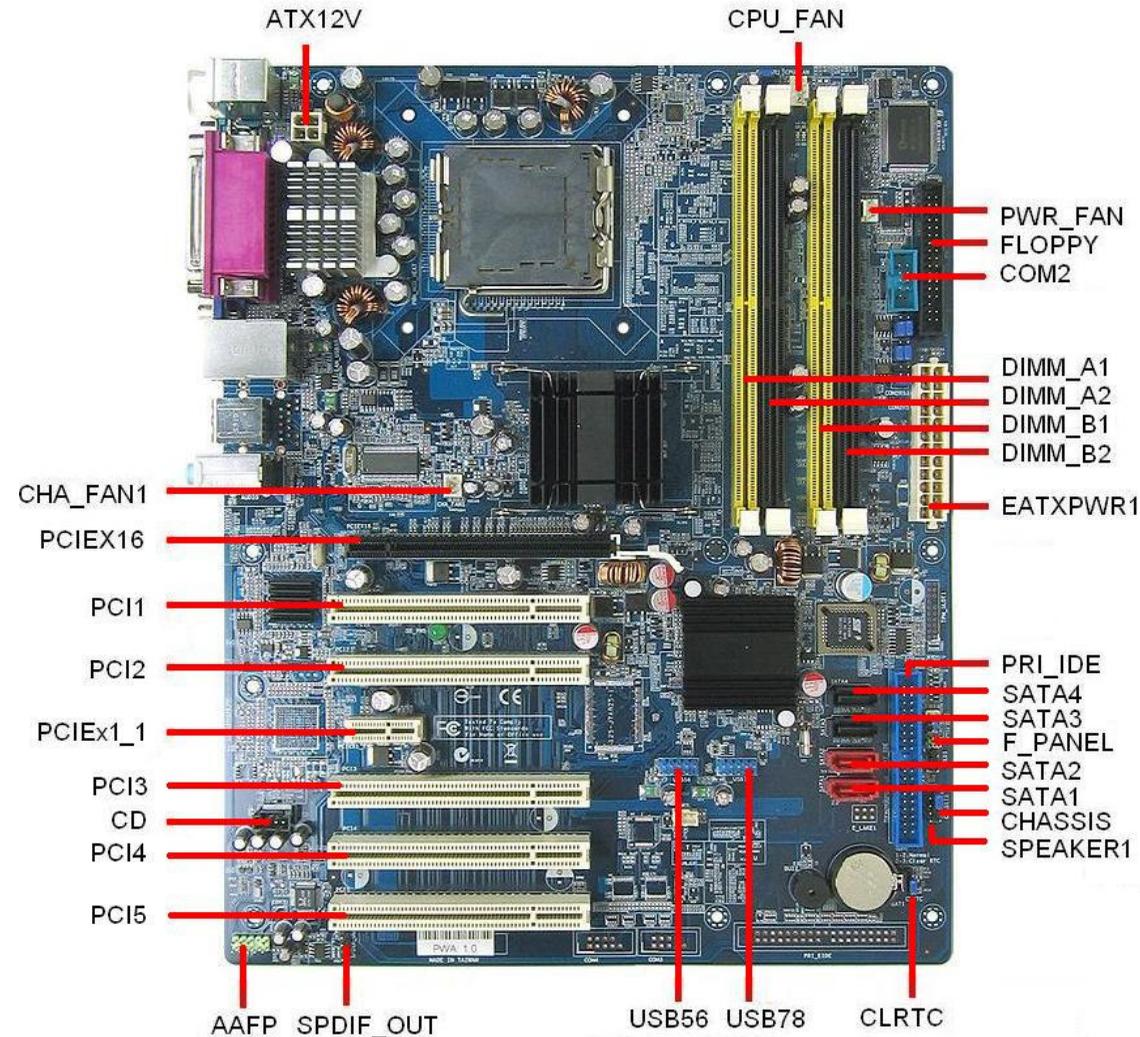
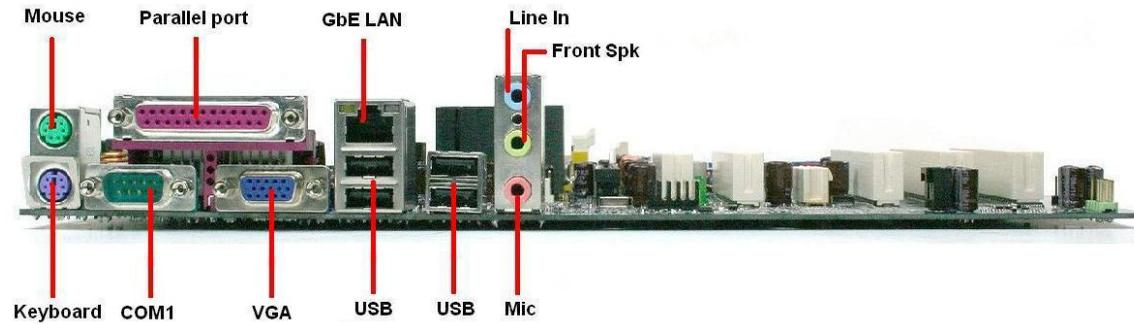
#### Additional Information:

Additional information on setting this board up can be found in the User's Manual in the provided CD or DVD ROM. The Online User's Manual and FAQ/Knowledge Base can be found on our website by visiting our website: <http://www.bcmcom.com>. If your question is not answered in our FAQ/Knowledge Base, visit our forums and post your messages or submit a new FAQ through FAQ Submittal form for us to add your question in our FAQ with our answer.

#### ⚠ ATTENTION: Incorrect BIOS Setup

If you do not know how to handle BIOS setup or how to set it up properly, it is strongly advisable that you do not modify any of the settings than otherwise instructed in the User's Quick Start Card. Even a seemingly small incorrect adjustment or modification in the BIOS setup can render your system unstable or unusable. Incorrect BIOS setup is not covered by your motherboard's manufacturer warranty. Try Clear CMOS information when system does not boot after BIOS settings change.

## Motherboard Layout:



## ⚠️ WARNING: Electrostatic Sensitive Device (ESD)

Static electricity can easily damage your motherboard and will void your motherboard warranty. Keep the motherboard and other system components in their anti-static packaging until you are ready to install them. Touch a grounded surface before you remove any system component from its protective anti-static packaging. Unpacking and installation should be done on a grounded, anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same points as the anti-static mat. During configuration and installation touch a grounded surface frequently to discharge any static electrical charge that may have built up in your body. Avoid touching the components when handling the motherboard or a peripheral card. Handle the motherboard and peripheral cards either by the edges or by the peripheral card case-mounting bracket.

## ⚠️ WARNING: Misplaced Jumper Damage

Incorrect jumpers and connectors settings may lead to damage to your motherboard and will void your motherboard warranty. Please pay special attention to not connect these headers in the wrong direction. DO NOT change ANY jumpers while the motherboard has power.

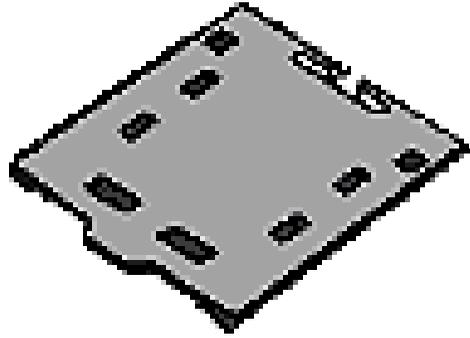
## Jumper / Connector

Name	Description	Note
CLRTC	Clear CMOS	1x3 pins
FLOPPY	Floppy disk drive connector	34 pins (keyed)
PRI_IDE	Primary IDE	40 pins (keyed)
COM2	Serial Port 2	10 pins (keyed)
SATA1	Serial ATA 1	
SATA2	Serial ATA 2	
SATA3	Serial ATA 3	
SATA4	Serial ATA 4	
SPEAKER1	PC speaker	1x4 pins
CPU_FAN1	CPU fan	4 pins
PWR_FAN	System fan	3 pins
CHA_FAN	Chassis fan	3 pins
SPDIF_OUT	Digital Audio Out	1x4 pins (keyed)
EATXPWR1	Main Power Connector	24 pins
ATX12V	+12V Power Connector	4 pins
CD	Digital CD Audio Out	4 pins
USB56	USB ports 5/6	2x5 pins (keyed)
USB78	USB ports 7/8	2x5 pins (keyed)
AAFP	Front Audio Out	2x5 pins (keyed)
CHASSIS	Chassis Intrusion Detection Header	1x4 pins
F_PANEL	Front Panel Header	2x5 pins (keyed)

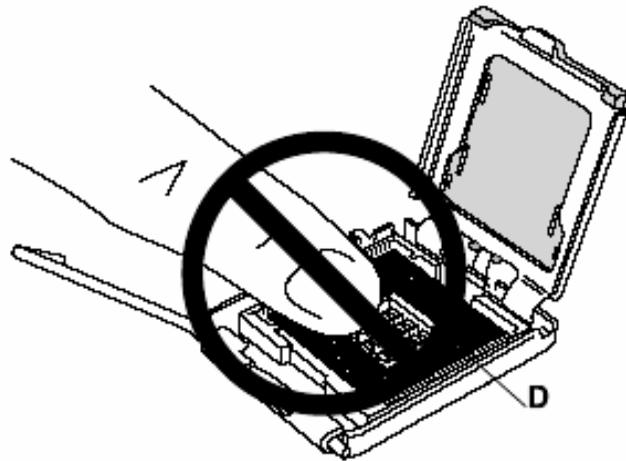
## Save the Processor Socket Cover

After removing the processor cover during processor installation, please save the processor socket cover.

In the event that the desktop board needs to be returned for service or any time the processor is removed, the cover should be replaced on the processor socket.



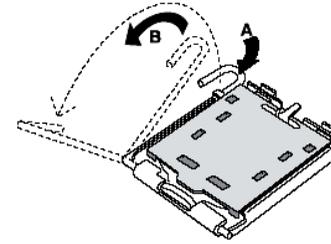
## Do not Touch Socket Contact



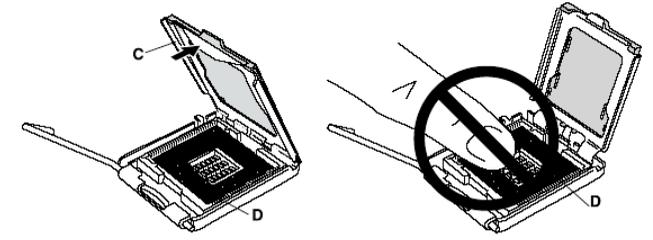
## CPU Installation

This processor is intended to be professionally installed. Before installing the processor, please review the additional notes available at <http://www.intel.com/go/integration>. Take proper electrostatics discharge (ESD) precautions such as using appropriate ground strips, gloves, and ESD mats.

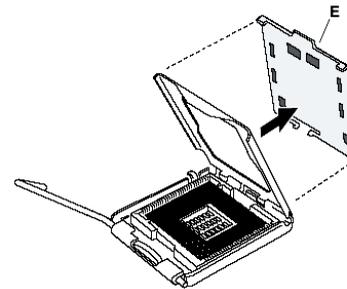
1) Open socket lever by pushing lever down and away from socket (A). Lift lever (B).



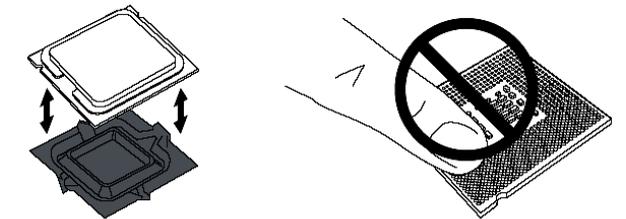
2) Open load plate (C). **DO NOT TOUCH SOCKET CONTACTS (D)**



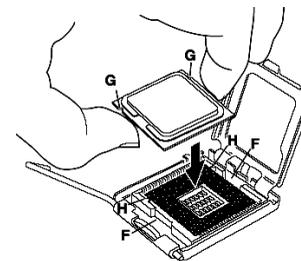
3) Remove protective cover (E) from load plate. Do not discard the protective cover. Always replace the socket cover if the processor is removed from the socket.



4) Remove processor from protective cover. **(HOLD PROCESSOR ONLY AT EDGES, BEING CAREFUL NOT TO TOUCH BOTTOM OF PROCESSOR)** Do not discard the protective cover. Always replace the socket cover if the processor is removed from the socket.



5) Hold processor with thumb and index fingers oriented as shown. {Ensure fingers align to socket cutouts (F)}. Align notches (G) with socket (H). Lower the processor straight down without tilting or sliding the processor in the socket.



6) Close load plate. Pressing down on load plate (I) close and engage socket lever (J).

