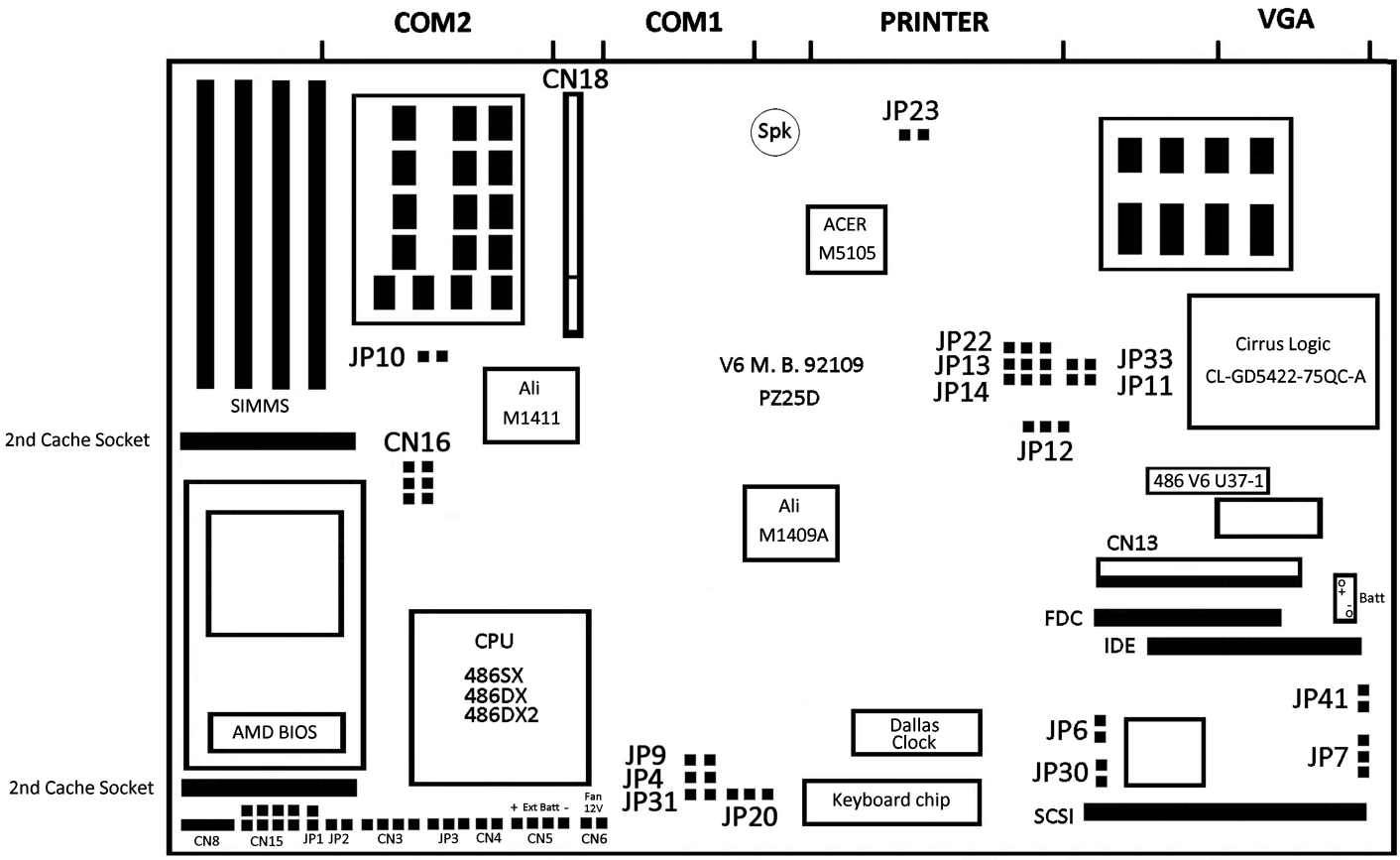
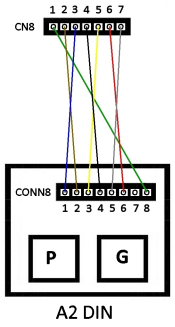
Acer V6 Motherboard

Jumper and Connector Layout

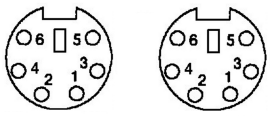




A2 DIN

PS2

Female Front [User] View



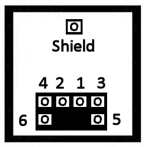
Left PS2 Port
Purple Keyboard

Right PS2 Port
Green Mouse

NOTE: The MS & KB silk screen labels are reversed on the A2 DIN board

Female Bottom View

Front

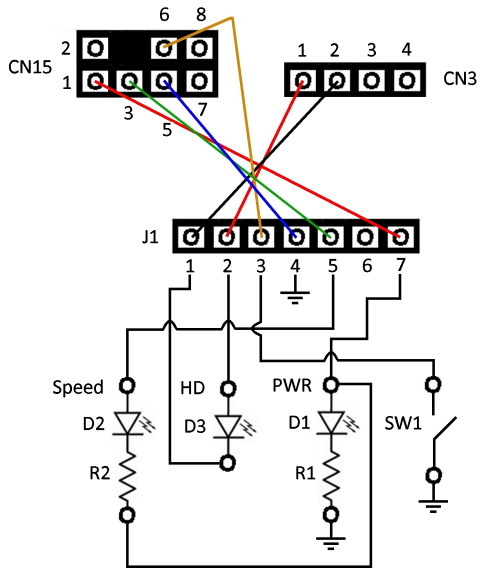


A2 DIN Jack Wire Colors

Wire Color	CONN8	CN8	Keyboard	Mouse	Description
Blue *	1	3	1		Data
Brown *	2	2	5		Clock
Yellow	3	5	3	3	Ground
Black	4	4	Shield	Shield	Shield
Grey *	5	7		1	Data
Red *	6	6		5	Clock
None	7				
Green	8	1	4	4	+5V

* Blue, Brown, Grey, & Red have 47pf Caps to GND on the A2 DIN board

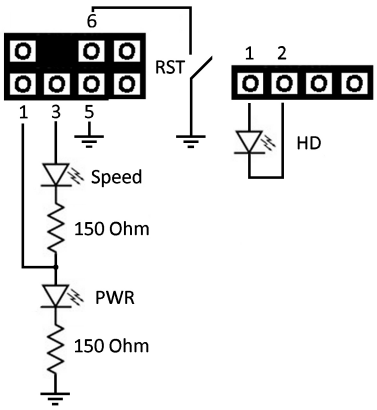
Front Panel



Front Panel Wire Colors

J1	Wire Color	CN3	CN15
1	Black	Pin 2	
2	Red	Pin 1	
3	Orange		Pin 6
4	Blue		Pin 5
5	Green		Pin 3
6	Not Connected		
7	Red		Pin 1

Alternate Front Panel



Acer V6 Motherboard
Jumper Settings

Jumper	Setting	Function
JP1	Open	Lock Password
	Close *	Unlock Password
JP2	1-2 *	Check Password
	2-3	Bypass Password
JP3	1-2 *	Enable Reset Button
	3-4	Disable Reset Button
JP4	Open	Unknown
	Close *	"
JP6	Open	Discharge Real-Time Clock
	Close *	Normal Operation
JP7	1-2 *	Unknown (OEM/NOR)
	3-4	"
JP9	Open *	Unknown (SKT Press)
	Close	"
JP10	Open *	Enable On Board 4MB Memory
	Close	Disable On Board 4MB Memory
JP11	Open	Unknown (OWS)
	Close *	"
JP12	1-2 *	Enable Onboard VGA
	3-4	Disable Onboard VGA
JP13	Open *	Unknown DRQ 5/6
	1-2	"
	3-4	"
JP14	Open *	Unknown DRCK 5/6
	1-2	"
	3-4	"
JP20	1-2	1X Bus Clock for 20/25/33 MHz
	2-3	2X Bus Clock for 40/50 MHz
JP21	None	Always Open
JP22	1-2	Select IRQ 10 (For No Board SCSI)
	2-3	Select IRQ 11 (For No Board SCSI)
JP23	Close *	Enable Onboard FDD, HDD, COM1, COM2 and Printer
	Open	Disable Onboard FDD, HDD, COM1, COM2 and Printer
JP24	Solder Bridge	Always Closed
JP30	Close *	Unknown
	Open	"
JP31	Open	Unknown (FERR)
	Close *	"
JP32	Solder Bridge	Always Closed; Unknown (TOCS 16)
JP33	Close *	Unknown (MCS 16)
	Open	"
JP41	Close *	Enable CMOS Battery
	Open	Disable CMOS Battery

Acer V6 Motherboard
Header Connections

Header	Pins	Function
CN3	1	HDD LED +
	2	HDD LED -
CN4	1	External Speaker
	2	"
CN5	1	External Battery +
	4	External Battery -
CN6	None	Fan 12V
CN8	1	Green Wire PS2 A2 DIN Board (+5V)
	2	Brown Wire PS2 A2 DIN Board (Keyboard Clock)
	3	BlueWire PS2 A2 DIN Board (Keyboard Data)
	4	Black Wire PS2 A2 DIN Board (Shield)
	5	Yellow Wire PS2 A2 DIN Board (Ground)
	6	Red Wire PS2 A2 DIN Board (Mouse Clock)
	7	Grey Wire PS2 A2 DIN Board (Mouse Data)
CN15	1	Red Wire Front Panel (PWR LED through 150 Ohm 10% 1/4 watt resistor)
	2	Not Connected
	3	Green Wire Front Panel (Speed LED through two 150 Ohm 10% 1/4 watt resistors)
	4	No Pin
	5	Blue Wire Front Panel (Ground)
	6	Orange Wire Front Panel (Reset +)
	7	Not Connected
	8	Not Connected
CN16	1-4	20/40 MHz Speed
	2-5	25/50 MHz Speed

RAM Upgrade

On-Board	Bank 0	Bank 1	Bank 2	Bank 3	Total
4MB					**4MB**
4MB			1MB		**5MB**
4MB			1MB	1MB	**6MB**
4MB		4MB			**8MB**
4MB		4MB	1MB		**9MB**
4MB		4MB	1MB	1MB	**10MB**
4MB		4MB	4MB		**12MB**
4MB		4MB	4MB		**16MB**
4MB			16MB		**20MB**
4MB		4MB	16MB		**24MB**
4MB			16MB	16MB	**36MB**
4MB		4MB	16MB	16MB	**40MB**
Disabled	16MB		16MB	16MB	**48MB**
Disabled	16MB	16MB	16MB	16MB	**64MB**

Use 1MB, 4MB, or 16MB 80NS Fast page mode 72-pin SIMMS
Bank 0 & 1 must have the same memory SIMM installed
Bank 2 & 3 must have the same memory SIMM installed

Acer V6 Motherboard

Upgrade Math-Coprocessor

The V6 System 486Sx/25MHz has no socket for the math-coprocessor. To ge the math coprocessor option feature, one must upgrade to the 486DX/33 MHz or higher CPU.

Video Memory

The onboard VGA RAM can be upgraded from 512K to 1MB. Order four 256K x 4, 80NS DRAM chips.

Cache

The system supports second-level cache upgrade sizes of 64K, 128K, and 256K.

Description	Part Number
64K CACHE, 8415-064	91.40410.001
128K CACHE, 8415-128	91.40410.002
256K CACHE, 8415-256	91.40410.003

NOTE: These cache boards are no longer manufactured.

Daughter Board

The Daughter board has four 16-bit ISA slots with a Male 16-bit MCA slot for connection to CN18 on the motherboard.
Burndy Computerbus CEE2X56S-3Z14