

3 Jumpers and Connectors

Setting the Jumpers

The table below summarizes the function and jumper settings of each jumper on the P5VX-A. You can refer to the next section for the graphic descriptions.

Function			Jumper Settings
CPU Type	Intel Pentium (P54C)	Intel 75MHz (50MHz Host Clock)	JP3 open JP10 short 1-2 JP11 short 1-2 JP12 short 1-2 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 90MHz (60MHz Host Clock)	JP3 short 1-2 JP10 short 1-2 JP11 short 1-2 JP12 short 1-2 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 100MHz (66MHz Host Clock)	JP3 short 3-4 JP10 short 1-2 JP11 short 1-2 JP12 short 1-2 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 120MHz (60MHz Host Clock)	JP3 short 1-2 JP10 short 1-2 JP11 short 1-2 JP12 short 2-3 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆

Continued.....

☆ : Means manufacture optional.

Function			Jumper Settings
CPU Type	Intel Pentium (P54C)	Intel 133MHz (66MHz Host Clock)	JP3 short 3-4 JP10 short 1-2 JP11 short 1-2 JP12 short 2-3 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 150MHz (60MHz Host Clock)	JP3 short 1-2 JP10 short 1-2 JP11 short 2-3 JP12 short 2-3 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 166MHz (66MHz Host Clock)	JP3 short 3-4 JP10 short 3-4 JP11 short 2-3 JP12 short 2-3 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
		Intel 200MHz (66MHz Host Clock)	JP3 short 3-4 JP10 short 3-4 JP11 short 2-3 JP12 short 1-2 JP16 short 1-2 ☆ JP17 short 1-2 ☆ JP18 short 1-2 ☆
	Intel Pentium (P55C) (Optional) (U10 must be mounted)	Intel 150MHz (60MHz Host Clock)	JP3 short 1-2 JP10 short 1-2 JP11 short 2-3 JP12 short 2-3 JP16 short 2-3 JP17 short 2-3 JP18 short 2-3 JP20 short 3-4

Continued....

☆ : Means manufacture optional.

Function			Jumper Settings	
CPU Type	Intel Pentium (P55C) (Optional) (U10 must be mounted)	Intel 166MHz (66MHz Host Clock)	JP3	short 3-4
			JP10	short 1-2
			JP11	short 2-3
			JP12	short 1-2
			JP16	short 2-3
			JP17	short 2-3
			JP18	short 2-3
			JP20	short 3-4
CPU Voltage	3.3V (STD)		JP10	short 1-2
Selection	3.525V (VRE) (default)		JP10	short 3-4
CPU Core Voltage (for P55C only)	2.5V		JP20	short 1-2
	2.8V		JP20	short 3-4
CMOS RAM Clear Switch	Normal (default)		JP13	open
	CMOS Data Clear		JP13	short
Flash ROM	Program Voltage	+5V (default)	JP8	short 2-3
		+12V	JP8	short 1-2
Super I/O		Enabled (default)	JP15	short 1-2
		Disabled	JP15	short 2-3
3D-Sound		Enabled (default)	JP21	short
		Disabled	JP21	open

Table 3 -1. Jumper Settings



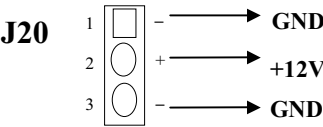
The table below presents the detailed Jumper Settings for different CPU Clock. For example, if Pentium 100MHz CPU is installed, you should set Host Clock as 66 MHz and CPU Core Clock as Host Clock *1.5.

Host Clock		50 MHz	JP3	open
		55 MHz	JP3	short 1-2, 3-4
		60 MHz	JP3	short 1-2
		66 MHz (default)	JP3	short 3-4
CPU Core Clock	Intel	Host Clock * 1.5	JP11	short 1-2
			JP12	short 1-2
		Host Clock * 2 (default)	JP11	short 1-2
			JP12	short 2-3
		Host Clock * 2.5	JP11	short 2-3
			JP12	short 2-3
		Host Clock * 3	JP11	short 2-3
			JP12	short 1-2

Green Function

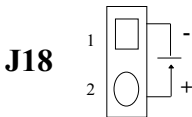
CPU Cooling Fan Control

P5VX-A provides the ability to turn the CPU cooling fan off while the system is in low-power suspend mode. Please connect the CPU cooling fan to J20 in order to make it work.

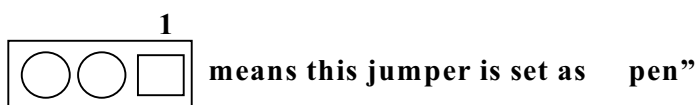


Green Function Indicator

Connect the LED to J18 to indicate the system in low-power suspend mode.

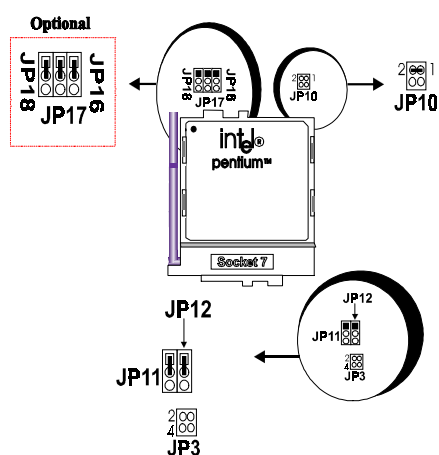


Graphic Descriptions of Jumper Settings

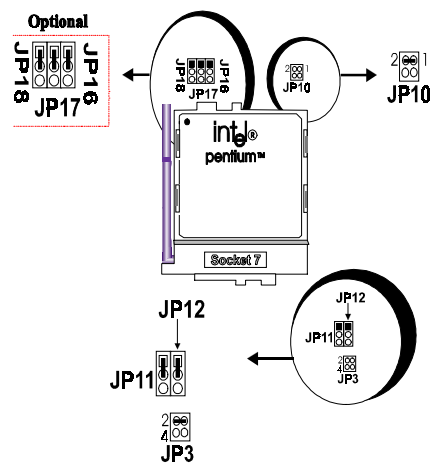


CPU Type

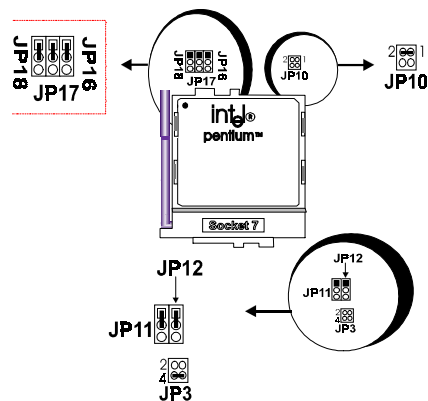
1. Intel Pentium 75MHz (P54C)
CPU (50MHz Host Clock)
installed on board



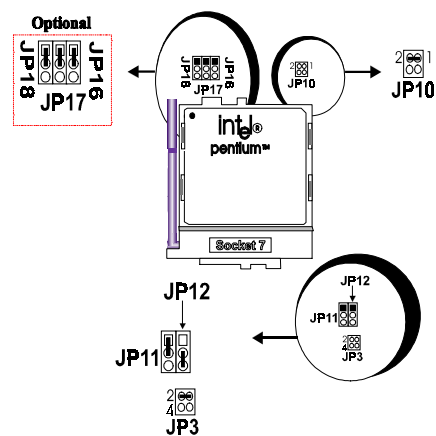
2. Intel Pentium 90MHz (P54C)
CPU (60MHz Host Clock)
installed on board



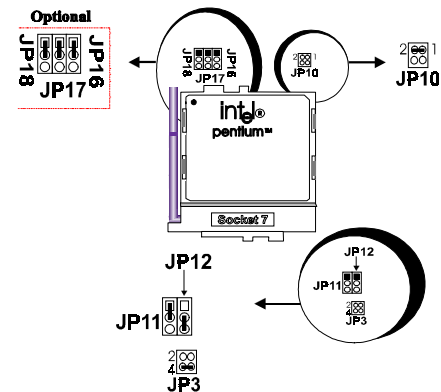
3. Intel Pentium 100MHz (P54C)
CPU (66MHz Host Clock)
installed on board



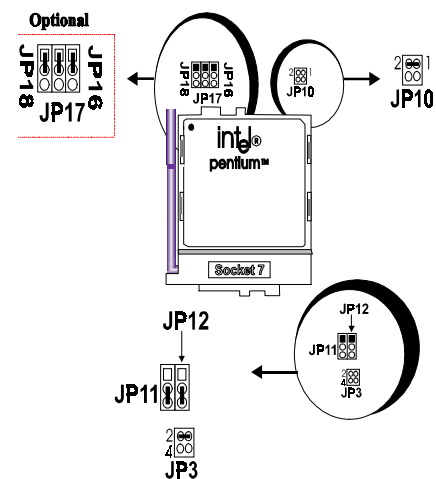
4. Intel Pentium 120MHz (P54C)
CPU (60MHz Host Clock)
installed on board



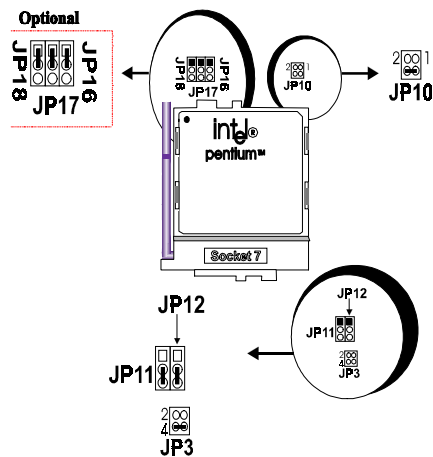
5. Intel Pentium 133MHz (P54C)
CPU (66MHz Host Clock)
installed on board



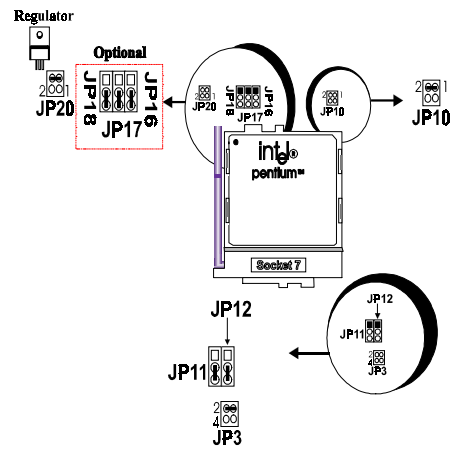
6. Intel Pentium 150MHz (P54C)
CPU (60MHz Host Clock)
installed on board



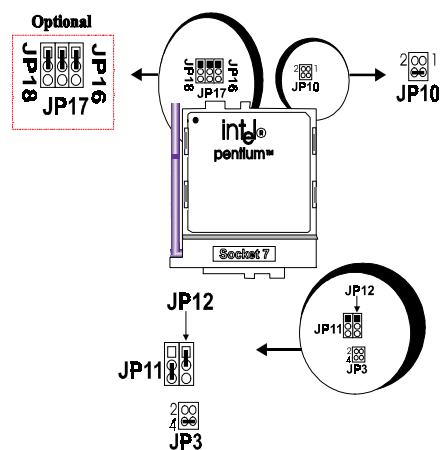
7. Intel Pentium 166MHz (P54C)
CPU (66MHz Host Clock)
installed on board



8. Intel Pentium 200MHz (P54C) CPU (66MHz Host Clock) installed on board

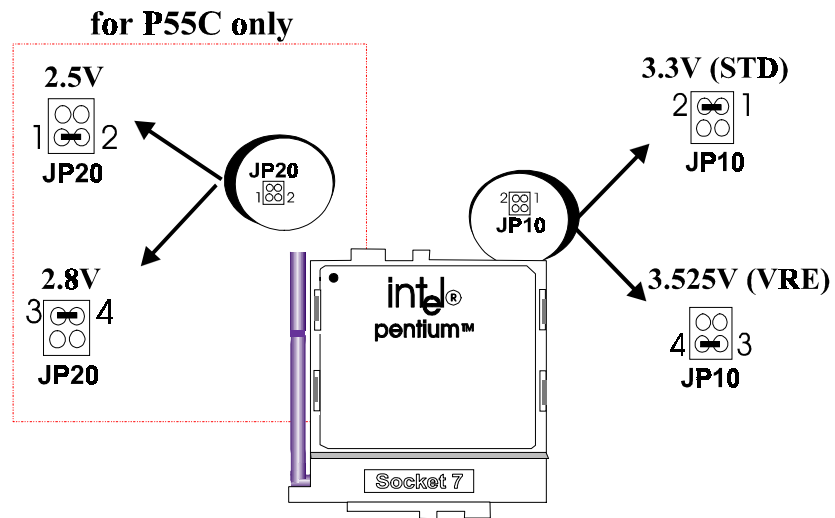


10. Intel Pentium 166MHz (P55C) (Optional) CPU (66MHz Host Clock) installed on board



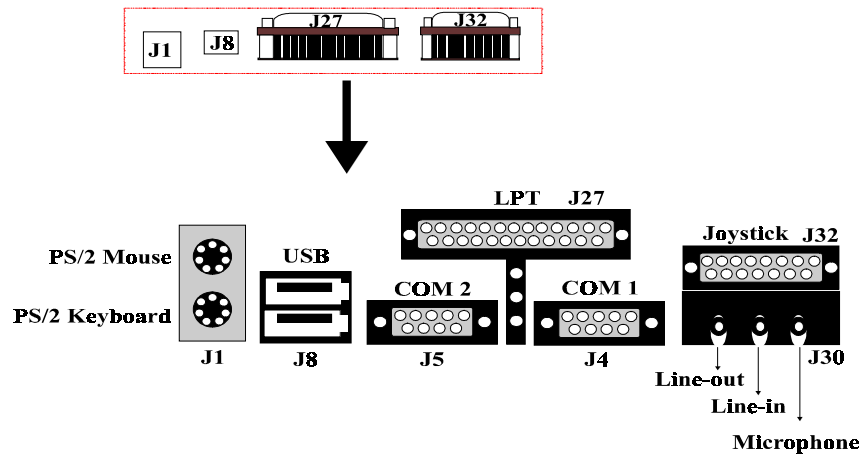
9. Intel Pentium 150MHz (P55C) (Optional) CPU (60MHz Host Clock) installed on board

CPU Voltage Selection



Connectors

There are several connectors located on the P5VX-A. Users can refer to the following diagram for the clear figure of connectors.

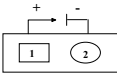
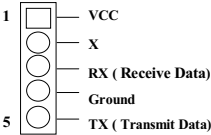
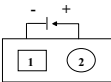
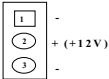



Their function is listed below.

Connector	Function																																																																		
J1	PS/2 Keyboard & Mouse Connector																																																																		
J4	COM1 Port																																																																		
J5	COM2 Port																																																																		
J8	Dual USB Port																																																																		
J9	FDD Connector																																																																		
J10	Primary IDE Connector																																																																		
J11	Secondary IDE Connector																																																																		
J12	<table><tr><td colspan="5">Reset Switch</td><td colspan="3">SMI Switch</td><td colspan="2">Power On LED</td><td></td></tr><tr><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td></tr><tr><td>G</td><td>I</td><td>X</td><td>G</td><td>X</td><td>G</td><td>I</td><td>G</td><td>+</td><td></td><td></td></tr><tr><td>I</td><td>G</td><td>G</td><td>P</td><td>X</td><td>G</td><td>I</td><td>G</td><td>X</td><td>+</td><td></td></tr><tr><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td></td></tr><tr><td colspan="5">Speaker</td><td colspan="6">Keyboard Lock</td></tr></table>	Reset Switch					SMI Switch			Power On LED			10	9	8	7	6	5	4	3	2	1		G	I	X	G	X	G	I	G	+			I	G	G	P	X	G	I	G	X	+		20	19	18	17	16	15	14	13	12	11		Speaker					Keyboard Lock					
Reset Switch					SMI Switch			Power On LED																																																											
10	9	8	7	6	5	4	3	2	1																																																										
G	I	X	G	X	G	I	G	+																																																											
I	G	G	P	X	G	I	G	X	+																																																										
20	19	18	17	16	15	14	13	12	11																																																										
Speaker					Keyboard Lock																																																														

X: Reserved P: Power
I: Input G: Ground

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Connector	Function
J13	HDD LED
	
J14	PS/1 Power Connector
J15	Fast IR Header (Reserved)
J16	COAST Module Slot
J17	IRDA Header with Intel Spec
	
J18	Green LED
	
J20	CPU Fan Header
	
J21	ATX Power Connector
J27	Parallel Port
J28	CD-ROM Input Header
	

Continued.....

Connector	Function
J29	Hardware Volume Control Header
J30	Microphone/ Stereo Line-in / Stereo Line-out Connector
J32	Joystick Connector
J35	Wave Table Connector (support Creative wave table solution)
J36	Modem/ Phone Speaker Header (support Creative modem Blaster Pro solution)
J37	ATX Power ON/ OFF Connector

Table 3 -2. Connectors

Board Layout

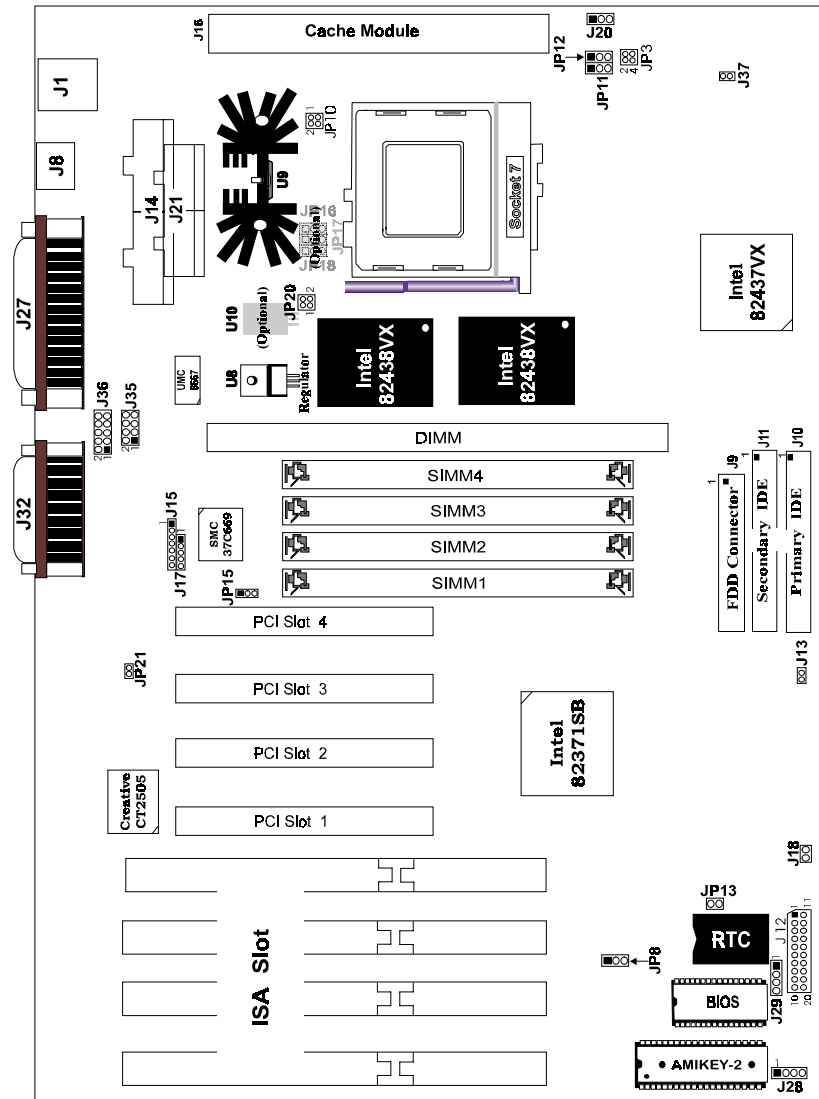


Figure 3 -1. P5VX-A Mainboard Layout