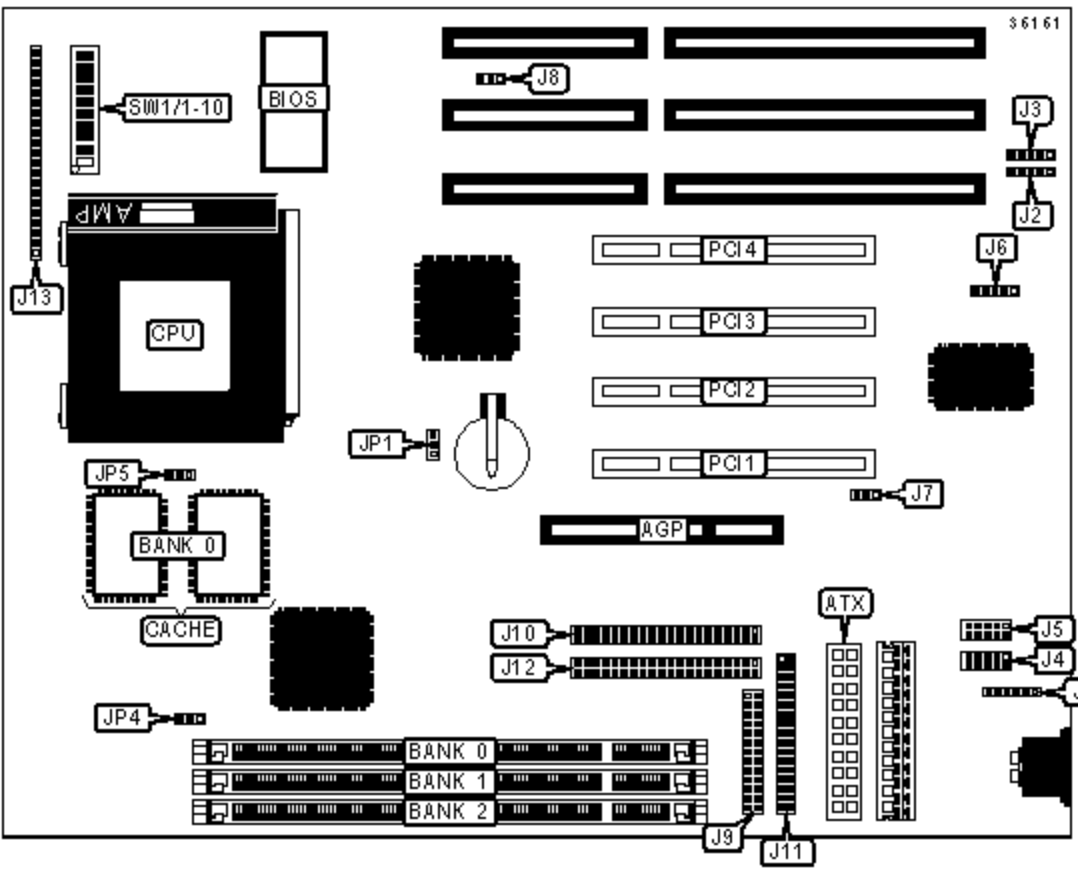


# DIAMOND FLOWER, INC.

## P5BV3+ (REV.C+)

<b>Device Type</b>	Mainboard
<b>Processor</b>	CX 6X86/CX 6X86L/CX 686MX/IBM 6X86MX/IDT C6/WINCHIP2/CX M1/CX M2/AM K5/AM K6/Pentium/Pentium MMX
<b>Processor Speed</b>	90/100/120/133/150/166/180/200/233/266/300/333/350/400
<b>Chip Set</b>	VIA
<b>Maximum Onboard Memory</b>	384MB (SDRAM supported)
<b>Cache</b>	512KB/1024KB
<b>BIOS</b>	Award
<b>Dimensions</b>	Unidentified
<b>I/O Options (backplane)</b>	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connectors (2), ATX power connector, AGP slot



### CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	IDE interface 2	J10
ATX power connector	ATX	Floppy drive interface	J11
PS/2 mouse interface	J1	IDE interface 1	J12
USB connector 1	J2	ATX power standby LED	J13/pins 1 & 2
USB connector 2	J3	ATX power switch	J13/pins 3 & 4
Serial port 1	J4	IDE interface LED	J13/pins 5 & 6

Serial port 2	J5	Green PC LED	J13/pins 7 & 8
IR connector	J6	Green PC switch	J13/pins 9 & 10
AGP fan power	J7	Reset switch	J13/pins 11 & 12
CPU fan power	J8	Speaker	J13/pins 13 - 16
Parallel port	J9	Power LED & keylock	J13/pins 17 - 21

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JP1	Pins 2 & 3 closed
	CMOS memory clear	JP1	Pins 1 & 2 closed
»	SDRAM clock set to AGP clock	JP4	Pins 1 & 2 closed
	SDRAM clock set to CPU clock	JP4	Pins 2 & 3 closed

### DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None

48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None

### DIMM CONFIGURATION (CON'T)

128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64

160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64

<b>CPU SPEED SELECTION (INTEL)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/1</b>	<b>SW1/2</b>	<b>SW1/3</b>
90MHz	60MHz	1.5x	Off	Off	Off
100MHz	66MHz	1.5x	On	Off	Off
120MHz	60MHz	2x	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off
150MHz	60MHz	2.5x	Off	Off	Off
166MHz	66MHz	2.5x	On	Off	Off
200MHz	66MHz	3x	On	Off	Off

<b>CPU SPEED SELECTION (INTEL, CON'T)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/4</b>	<b>SW1/5</b>	<b>SW1/6</b>
90MHz	60MHz	1.5x	On	On	On
100MHz	66MHz	1.5x	On	On	On
120MHz	60MHz	2x	Off	On	On

133MHz	66MHz	2x	Off	On	On
150MHz	60MHz	2.5x	Off	Off	On
166MHz	66MHz	2.5x	Off	Off	On
200MHz	66MHz	3x	On	Off	On

CPU SPEED SELECTION (INTEL MMX)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.5x	On	Off	Off
200MHz	66MHz	3x	On	Off	Off
233MHz	66MHz	3.5x	On	Off	Off

CPU SPEED SELECTION (INTEL MMX, CON'T)					
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2.5x	Off	Off	On
200MHz	66MHz	3x	On	Off	On
233MHz	66MHz	3.5x	On	On	On

CPU SPEED SELECTION (CX 6X86L)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
150MHz	60MHz	2x	Off	Off	Off
166MHz	66MHz	2x	On	Off	Off
200MHz	75MHz	2x	On	On	Off

CPU SPEED SELECTION (CX 6X86L, CON'T)					
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
150MHz	60MHz	2x	Off	On	On
166MHz	66MHz	2x	On	On	On

166MHz	66MHz	2x	Off	On	On
200MHz	75MHz	2x	Off	On	On

<b>CPU SPEED SELECTION (CX 6X86MX)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/1</b>	<b>SW1/2</b>	<b>SW1/3</b>
166MHz	60MHz	2.5x	Off	Off	Off
200MHz	66MHz	2.5x	On	Off	Off
233MHz	75MHz	2.5x	On	On	Off
266MHz	83MHz	2.5x	On	Off	On

<b>CPU SPEED SELECTION (CX 6X86MX, CON'T)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/4</b>	<b>SW1/5</b>	<b>SW1/6</b>
166MHz	60MHz	2.5x	Off	Off	On
200MHz	66MHz	2.5x	Off	Off	On
233MHz	75MHz	2.5x	Off	Off	On
266MHz	83MHz	2.5x	Off	Off	On

<b>CPU SPEED SELECTION (CX M2)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/1</b>	<b>SW1/2</b>	<b>SW1/3</b>
300MHz	66MHz	3.5x	On	Off	Off
300MHz	75MHz	3x	On	On	Off
333MHz	83MHz	3x	On	Off	On
350MHz	100MHz	3x	On	On	On
400MHz	100MHz	3.5x	On	On	On

<b>CPU SPEED SELECTION (CX M2, CON'T)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW1/4</b>	<b>SW1/5</b>	<b>SW1/6</b>

300MHz	66MHz	3.5x	On	On	On
300MHz	75MHz	3x	On	Off	On
333MHz	83MHz	3x	On	Off	On
350MHz	100MHz	3x	On	Off	On
400MHz	100MHz	3.5x	On	On	On

CPU SPEED SELECTION (IBM)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	2.5x	On	Off	Off
233MHz	75MHz	2.5x	On	On	Off
266MHz	83MHz	2.5x	On	Off	On
300MHz	66MHz	3.5x	On	Off	Off
300MHz	75MHz	3x	On	On	Off
333MHz	83MHz	3x	On	Off	On

CPU SPEED SELECTION (IBM, CON'T)					
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
200MHz	66MHz	2.5x	Off	Off	On
233MHz	75MHz	2.5x	Off	Off	On
266MHz	83MHz	2.5x	Off	Off	On
300MHz	66MHz	3.5x	On	On	On
300MHz	75MHz	3x	On	Off	On
333MHz	83MHz	3x	On	Off	On

CPU SPEED SELECTION (AM K5)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
90MHz	60MHz	1.5x	Off	Off	Off

100MHz	66MHz	1.5x	On	Off	Off
120MHz	60MHz	2x	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off
166MHz	66MHz	2.5x	On	Off	Off

#### CPU SPEED SELECTION (AM K5, CON'T)

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
90MHz	60MHz	1.5x	On	On	On
100MHz	66MHz	1.5x	On	On	On
120MHz	60MHz	2x	Off	On	On
133MHz	66MHz	2x	Off	On	On
166MHz	66MHz	2.5x	Off	Off	On

#### CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.5x	On	Off	Off
200MHz	66MHz	3x	On	Off	Off
233MHz	66MHz	3.5x	On	Off	Off
266MHz	66MHz	4x	On	Off	Off
300MHz	66MHz	4.5x	On	Off	Off

#### CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2.5x	Off	Off	On
200MHz	66MHz	3x	On	Off	On
233MHz	66MHz	3.5x	On	On	On
266MHz	66MHz	4x	Off	On	Off



300MHz	66MHz	4.5x	Off	Off	Off
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**CPU SPEED SELECTION (AM K6-2)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	100MHz	2.5x	On	On	On
266MHz	66MHz	4x	On	Off	Off
300MHz	66MHz	4.5x	On	Off	Off
300MHz	100MHz	3x	On	On	On
333MHz	66MHz	5x	On	Off	Off
333MHz	99MHz	3.5x	Off	On	On
350MHz	100MHz	3.5x	On	On	On
366MHz	66MHz	5.5x	On	Off	Off
380MHz	96MHz	4x	Off	On	On
400MHz	100MHz	4x	On	On	On

**CPU SPEED SELECTION (AM K6-2, CON'T)**

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
200MHz	100MHz	2.5x	Off	Off	On
266MHz	66MHz	4x	Off	On	Off
300MHz	66MHz	4.5x	Off	Off	Off
300MHz	100MHz	3x	On	Off	On
333MHz	66MHz	5x	On	Off	Off
333MHz	99MHz	3.5x	On	On	On
350MHz	100MHz	3.5x	On	On	On
366MHz	66MHz	5.5x	On	On	Off
380MHz	96MHz	4x	Off	On	Off
400MHz	100MHz	4x	Off	On	Off

**CPU SPEED SELECTION (IDT C6)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
180MHz	60MHz	3x	Off	Off	Off
200MHz	66MHz	3x	On	Off	Off
225MHz	75MHz	3x	On	On	Off
240MHz	60MHz	4x	Off	Off	Off

**CPU SPEED SELECTION (IDT C6, CON'T)**

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
180MHz	60MHz	3x	On	Off	On
200MHz	66MHz	3x	On	Off	On
225MHz	75MHz	3x	On	Off	On
240MHz	60MHz	4x	Off	On	Off

**CPU SPEED SELECTION (WINCHIP2)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	75MHz	3x	On	Off	Off
225MHz	75MHz	3x	On	On	Off
240MHz	60MHz	4x	Off	Off	Off
266MHz	83MHz	3x	On	Off	On
300MHz	100MHz	3x	On	On	On

**CPU SPEED SELECTION (WINCHIP2, CON'T)**

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
200MHz	75MHz	3x	On	Off	On
225MHz	75MHz	3x	On	Off	On

240MHz	60MHz	4x	Off	On	Off
266MHz	83MHz	3x	On	Off	On
300MHz	100MHz	3x	On	Off	On

<b>CPU VOLTAGE SELECTION (DUAL)</b>					
<b>Voltage</b>	<b>JP5</b>	<b>SW1/7</b>	<b>SW1/8</b>	<b>SW1/9</b>	<b>SW1/10</b>
2.0V	Pins 1 & 2 closed	On	On	On	On
2.1V	Pins 1 & 2 closed	Off	On	On	On
2.2V	Pins 1 & 2 closed	On	Off	On	On
2.3V	Pins 1 & 2 closed	Off	Off	On	On
2.4V	Pins 1 & 2 closed	On	On	Off	On
2.5V	Pins 1 & 2 closed	Off	On	Off	On
2.6V	Pins 1 & 2 closed	On	Off	Off	On
2.7V	Pins 1 & 2 closed	Off	Off	Off	On
2.8V	Pins 1 & 2 closed	On	On	On	Off
2.9V	Pins 1 & 2 closed	Off	On	On	Off
3.0V	Pins 1 & 2 closed	On	Off	On	Off
3.1V	Pins 1 & 2 closed	Off	Off	On	Off
3.2V	Pins 1 & 2 closed	On	On	Off	Off
3.4V	Pins 2 & 3 closed	On	Off	Off	Off

<b>CPU VOLTAGE SELECTION (SINGLE)</b>					
3.3V	Pins 2 & 3 closed	Off	On	Off	Off
3.5V	Pins 2 & 3 closed	Off	Off	Off	Off