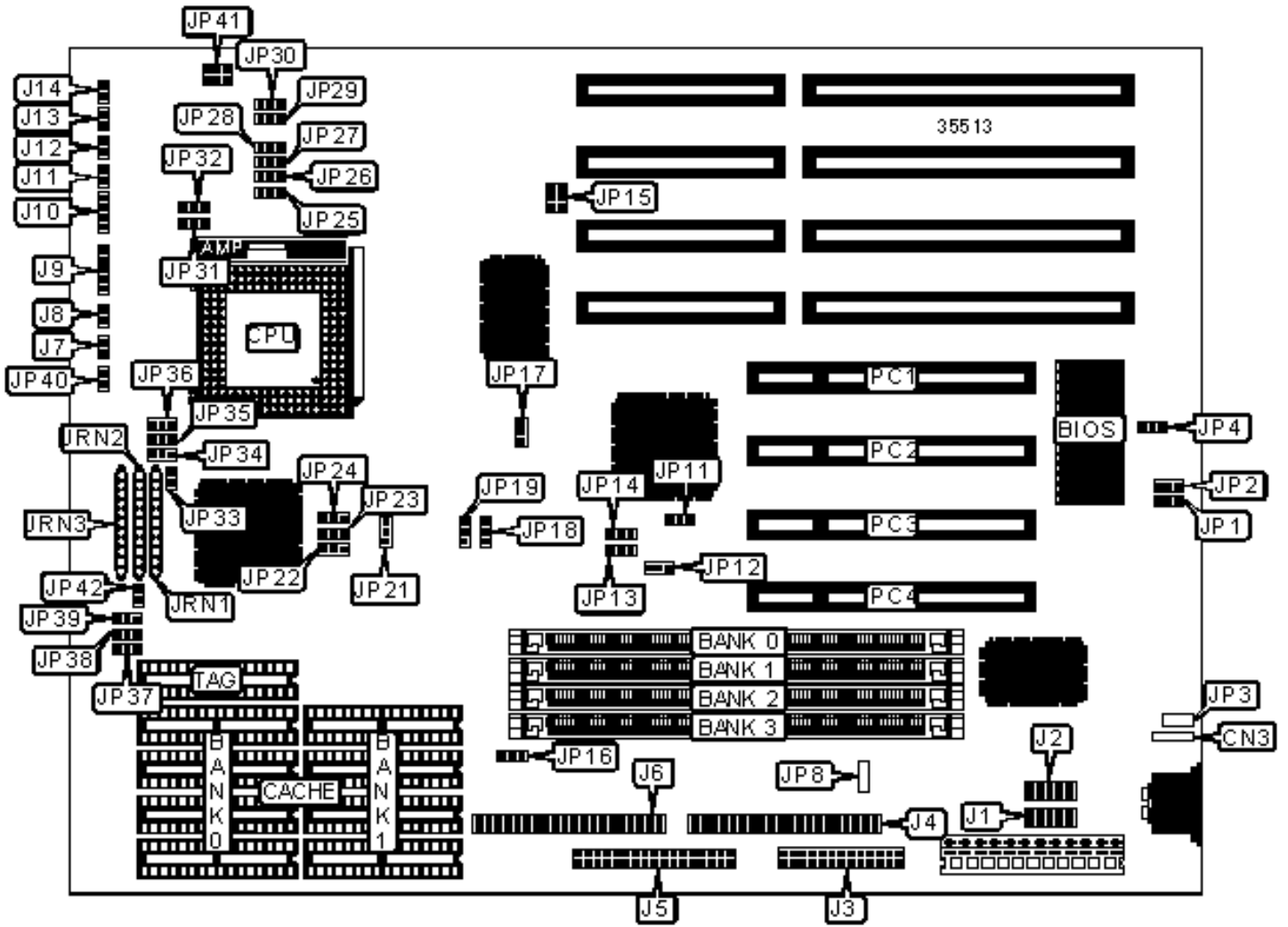


DIAMOND FLOWER, INC.

G486VPA (REV. 0/REV. A)

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
PS/2 mouse interface	CN3	Power LED & keylock	J9
Serial port 1	J1	Speaker	J10
Serial port 2	J2	Reset switch	J11
Parallel port	J3	Green PC connector	J12
IDE interface 2	J4	Turbo LED	J13
Floppy drive interface	J5	Green PC LED	J14
IDE interface 1	J6	External battery	JP3
IDE interface LED 1	J7	Chassis fan power	JP40
IDE interface LED 2	J8	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS

Function	Label	Position
» Battery type select external	JP1	Pins 1 & 2 closed
Battery type select internal	JP1	Pins 2 & 3 closed
» CMOS memory normal operation	JP2	Pins 1 & 2 closed
CMOS memory clear	JP2	Pins 2 & 3 closed
» Flash BIOS voltage select 12v	JP4	Pins 1 & 2 closed
Flash BIOS voltage select 5v	JP4	Pins 2 & 3 closed
» Factory configured - do not alter	JP8	Open
» Factory configured - do not alter	JP12	Pins 1 & 2 closed
» PS/2 mouse disabled	JP16	Pins 2 & 3 closed
PS/2 mouse enabled	JP16	Pins 1 & 2 closed
» Factory configured - do not alter	JP17	Pins 1 & 2 closed
» Factory configured - do not alter	JP20	Pins 1 & 2 closed

»	Factory configured - do not alter	JP25	Pins 1 & 2 closed
»	Factory configured - do not alter	JP27	Open
»	High address decode setting A27 & A31 enabled	JP28	Pins 1 & 2 closed
	High address decode setting A27 & A31 disabled	JP28	Pins 2 & 3 closed
»	VL-Bus write one wait state	JP30	Pins 1 & 2 closed
	VL-Bus write zero wait state	JP30	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	None	None	None
2MB	(1) 512K x 36	None	None	None
2MB	(1) 256K x 36	(1) 256K x 36	None	None
3MB	(1) 512K x 36	(1) 256K x 36	None	None
3MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	None
4MB	(1) 1M x 36	None	None	None
4MB	(1) 512K x 36	(1) 256K x 36	(1) 256K x 36	None
4MB	(1) 512K x 36	(1) 512K x 36	None	None
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
5MB	(1) 1M x 36	(1) 256K x 36	None	None
5MB	(1) 512K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
6MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	None
6MB	(1) 1M x 36	(1) 512K x 36	None	None
6MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	None
8MB	(1) 2M x 36	None	None	None
8MB	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36	None
8MB	(1) 1M x 36	(1) 1M x 36	None	None

8MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
9MB	(1) 2M x 36	(1) 256K x 36	None	None
10MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	None
10MB	(1) 2M x 36	(1) 512K x 36	None	None
10MB	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
11MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36	None
12MB	(1) 2M x 36	(1) 1M x 36	None	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	None
16MB	(1) 4M x 36	None	None	None
16MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	None
16MB	(1) 2M x 36	(1) 2M x 36	None	None
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
17MB	(1) 4M x 36	(1) 256K x 36	None	None
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	None
18MB	(1) 4M x 36	(1) 512K x 36	None	None
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
20MB	(1) 4M x 36	(1) 512K x 36	(1) 512K x 36	None

SIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2	Bank 3
20MB	(1) 4M x 36	(1) 1M x 36	None	None
20MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
22MB	(1) 4M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	None
24MB	(1) 4M x 36	(1) 2M x 36	None	None

24MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	None
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 8M x 36	None	None	None
32MB	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36	None
32MB	(1) 4M x 36	(1) 4M x 36	None	None
32MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
33MB	(1) 8M x 36	(1) 256K x 36	None	None
34MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	None
34MB	(1) 8M x 36	(1) 512K x 36	None	None
35MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
36MB	(1) 8M x 36	(1) 512K x 36	(1) 512K x 36	None
36MB	(1) 8M x 36	(1) 1M x 36	None	None
38MB	(1) 8M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
40MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	None
40MB	(1) 8M x 36	(1) 2M x 36	None	None
40MB	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
44MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
48MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	None
48MB	(1) 8M x 36	(1) 4M x 36	None	None
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	None
56MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
64MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	None
64MB	(1) 8M x 36	(1) 8M x 36	None	None
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
80MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None

100MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 1M x 36
104MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 2M x 36
112MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 4M x 36
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36

CACHE CONFIGURATION

Size	Bank 0	Bank 1	TAG
128KB	(4) 32K x 8	None	(1) 8K x 8
256KB (A)	(4) 64K x 8	None	(1) 32K x 8
256KB (B)	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8
512KB (A)	(4) 128K x 8	None	(1) 32K x 8
512KB (B)	(4) 64K x 8	(4) 64K x 8	(1) 32K x 8
1MB	(4) 128K x 8	(4) 128K x 8	(1) 64K/128K x 8

CACHE JUMPER CONFIGURATION

Size	JP22	JP23	JP24	JP37	JP38	JP39
128KB	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2
256KB (A)	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3
256KB (B)	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3
512KB (A)	2 & 3	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
512KB (B)	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
1MB	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION

Speed	JP18	JP19	JP21
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25MHz	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
33MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
40MHz	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
50iMHz	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
50MHz	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
63iMHz	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
66iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
80iMHz	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
83iMHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
100iMHz	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU TYPE SELECTION (CYRIX)

Type	JP14	JP26	JP33	JP34	JP35
486DX	1 & 2	1 & 2	Open	1 & 2	1 & 2
486DX2	1 & 2	1 & 2	Open	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION (CYRIX, CON'T)

Type	JP36	JP42	JRN1	JRN2	JRN3
486DX	1 & 2	Open	Not installed	Not installed	Installed
486DX2	1 & 2	Open	Not installed	Not installed	Installed

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION (UMC)

Type	JP14	JP26	JP33	JP34	JP35
U5S	1 & 2	Open	Open	2 & 3	Open

U5SLV	1 & 2	Open	Open	2 & 3	Open
U5SD	1 & 2	Open	Open	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (UMC, CON'T)					
Type	JP36	JP42	JRN1	JRN2	JRN3
U5S	2 & 3	Open	Not installed	Installed	Not installed
U5SLV	2 & 3	Open	Not installed	Installed	Not installed
U5SD	1 & 2	Open	Not installed	Installed	Not installed
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (AMD)					
Type	JP14	JP26	JP33	JP34	JP35
486DX2 (NV8T)	1 & 2	2 & 3	Closed	1 & 2	1 & 2
486DX2 (SV8B)	1 & 2	2 & 3	Open	1 & 2	1 & 2
486DX4	2 & 3	2 & 3	Open	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (AMD, CON'T)					
Type	JP36	JP42	JRN1	JRN2	JRN3
486DX2 (NV8T)	1 & 2	Open	Installed	Not installed	Not installed
486DX2 (SV8B)	1 & 2	Closed	Installed	Not installed	Not installed
486DX4	1 & 2	Open	Installed	Not installed	Not installed
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (INTEL)					
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Type	JP14	JP26	JP33	JP34	JP35
80486WB	2 & 3	2 & 3	Open	1 & 2	1 & 2
80486SX	1 & 2	Open	Open	2 & 3	Open
80486DX	1 & 2	Open	Open	1 & 2	1 & 2
80486DX2	2 & 3	Open	Open	1 & 2	1 & 2
80486DX4	2 & 3	2 & 3	Open	1 & 2	1 & 2
486DX4 ODP	1 & 2	2 & 3	Open	1 & 2	2 & 3
P24T	1 & 2	2 & 3	Open	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION (INTEL, CON'T)					
Type	JP36	JP42	JRN1	JRN2	JRN3
80486WB	1 & 2	Open	Installed	Not installed	Not installed
80486SX	2 & 3	Open	Installed	Not installed	Not installed
80486DX	1 & 2	Open	Installed	Not installed	Not installed
80486DX2	1 & 2	Open	Installed	Not installed	Not installed
80486DX4	1 & 2	Open	Installed	Not installed	Not installed
486DX4 ODP	1 & 2	Open	Installed	Not installed	Not installed
P24T	1 & 2	Open	Installed	Not installed	Not installed

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION			
Voltage	JP31	JP32	JP41
3.45v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
3.6v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 3 & 4 closed
4v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 5 & 6 closed

»	5v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
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CPU CLOCK SPEED				
Speed		Speed		
»	<= 33MHz	Pins 1 & 2 closed		
	> 33MHz	Pins 2 & 3 closed		

DMA CHANNEL SELECTION				
Channel		JP15		
	None	Open		
»	1	Pins 1 & 3, 2 & 4 closed		
	3	Pins 3 & 5, 4 & 6 closed		

PCI CLOCK SPEED SELECTION				
Speed		JP11	JP13	
<= 33MHz		Pins 1 & 2 closed	Pins 1 & 2 closed	
>33 MHz		Pins 2 & 3 closed	Pins 2 & 3 closed	