2.1.1 CPU SPEED SETTING (SW1)

Adjust SW1 (Dip switch) to set CPU speed. Figure 2-1 show SW1 location.
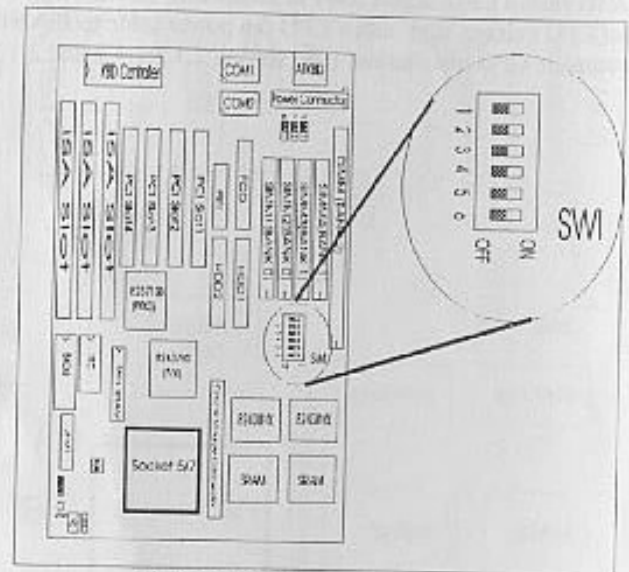

FIGURE 2-1

2.1.1.1 INTEL P54C CPU SPEED SETTING

CPU SPEED	SW1 Settings
75MHz	1 2 3 4 5 6
90MHz	1 2 3 4 5 6
100MHz	1 2 3 4 5 6
120MHz	1 2 3 4 5 6
133MHz	1 2 3 4 5 6
150MHz	1 2 3 4 5 6
166MHz	1 2 3 4 5 6
200MHz	1 2 3 4 5 6

Pentium - 166
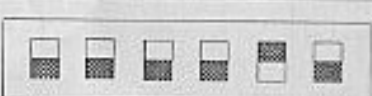
sw1   1, 6 oN

7.38v

79.7v
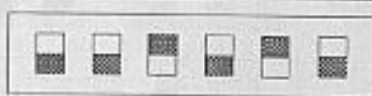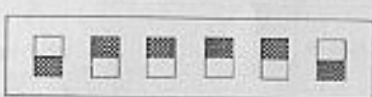
2.1.1.2 CYRIX 6x86 CPU SPEED SETTING

CPU SPEED	SW1 Settings
P120+ (100MHZ)	
P133+ (110MHZ)	
P150+ (120MHZ)	
P166+ (133MHZ)	

2.1.1.3 AMD 5k86 CPU SPEED SETTING

CPU SPEED	SW1 Settings
P75 (75MHZ)	
P90 (90MHZ)	
P100 (100MHZ)	

Note 1: The 4 Host Clock frequencies that the system supports are 50MHz, 55MHz, 60MHz, and 66.6MHz.(By adust SW1 pin 1,2,3,and 4). See the following chart to set the different Host Clock frequencies.

Note 2: The DIP Switch SW1 (5,6) is used to set the Core/Bus (Fraction) ratio of the CPU. The actual core speed of the CPU is the Host Clock Frequency multiplied by the Core/Bus ratio. For example:

if   Host Clock   =   66.6MHz

     Core/Bus ratio   =   3/2

then   CPU core speed   = Host Clock x Core/Bus ratio

$$= 66.6MHz \quad x \; 3/2$$
$$= 100MHz$$

Note 3: The PCI Bus Clock is the Host Clock Frequency divided by 2.

2.1.2 CPU VOLTAGE SETTING (J7,J8,J9,J11)
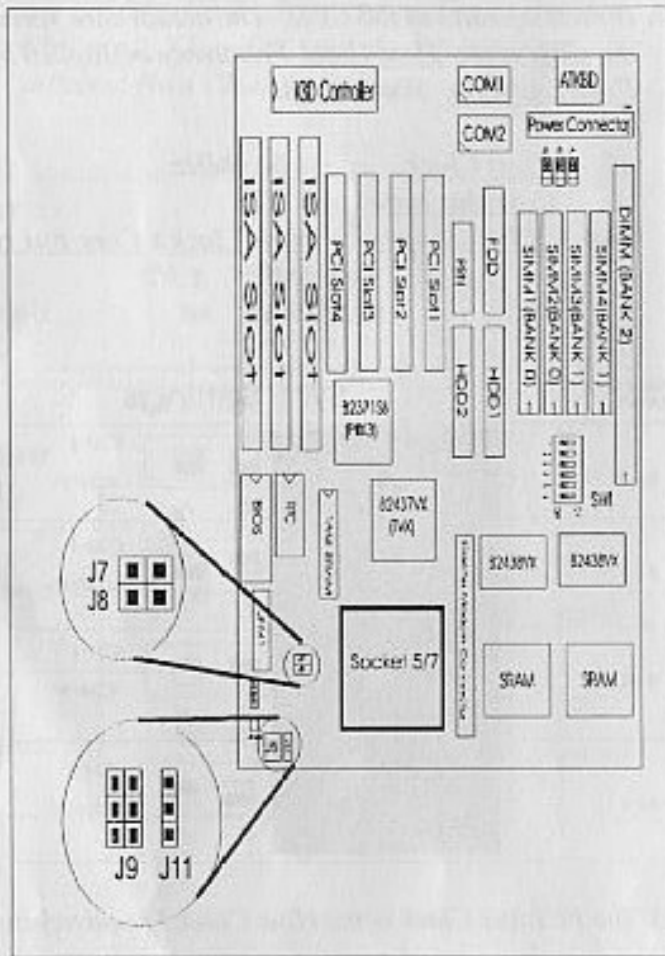
*For jumpers J7 and J8 select either 3.38V or 3.5V power source
for the P54C.*

2.1.2.1 For P54C, J7,J8,J9,J11 setting is as below.

2.1.2.2 For P55C, VCORE=2,.8V, J7,J8,J9,J11 setting is as below:

2.1.3 CPU FAN POWER CONNECTOR (JFAN1)
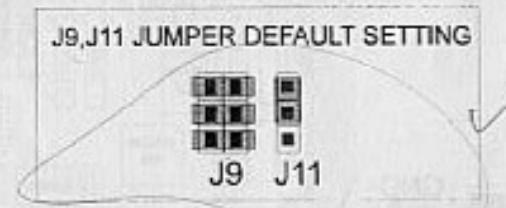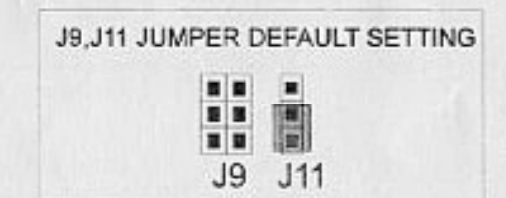
JFAN1 connector support +12V voltage for CPU fan use.

JFAN1

■—GND
■—+12V
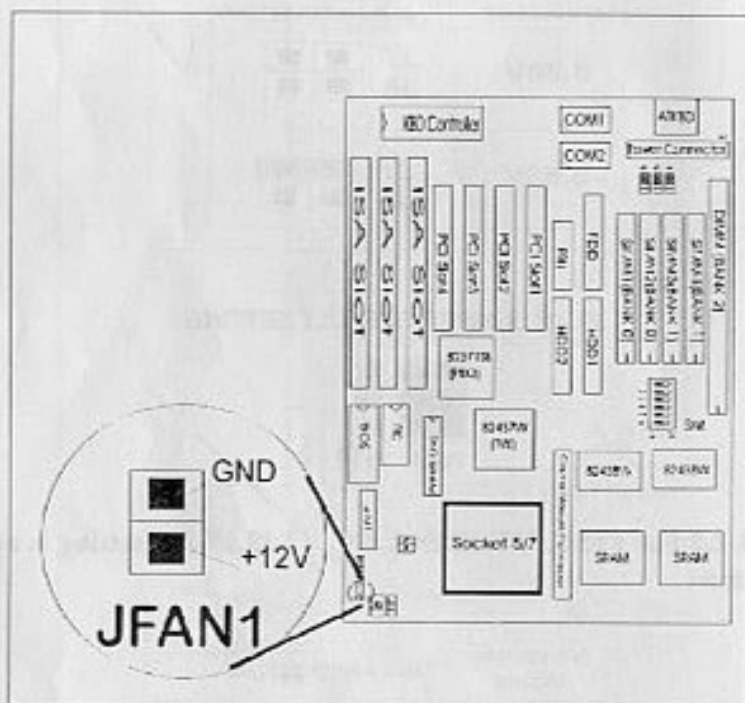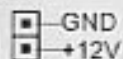
2.2 Memory installation

Memory Bank Configuration

The system board supports a maximum of 128M of memory, and provides four 72-pin SIMM (Single In-line Memory Module) and one 168-pin DIMM sockets. Each bank supports 4M, 8M, 16M, and 32MB. That is , 2MB and 16MB is the minimum and maximum for one 72-pin single side memory module respectively, and 4MB and 32MB is the minimum and maximum for one 72-pin double side memory module respectively. (This board support 4 RAS, each RAS support memory range from 4MB to 32MB.)

Power Connector

JPW1

J2   J3   J4

+5V

+3V

SIMM1(BANK 0) (RAS0+RAS1)
SIMM2(BANK 0) (RAS0+RAS1)
SIMM3(BANK 1) (RAS2+RAS3)
SIMM4 (BANK 1) (RAS2+RAS3)
DIMM1(BANK2) (RAS3+RAS2)
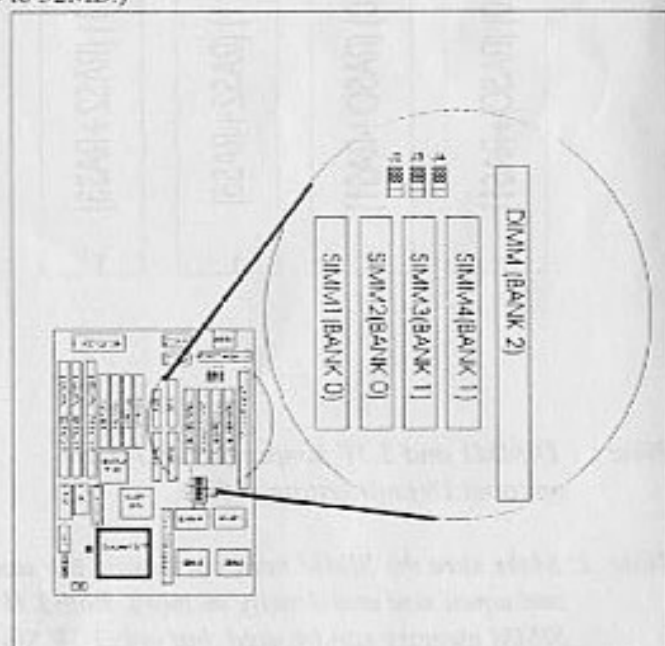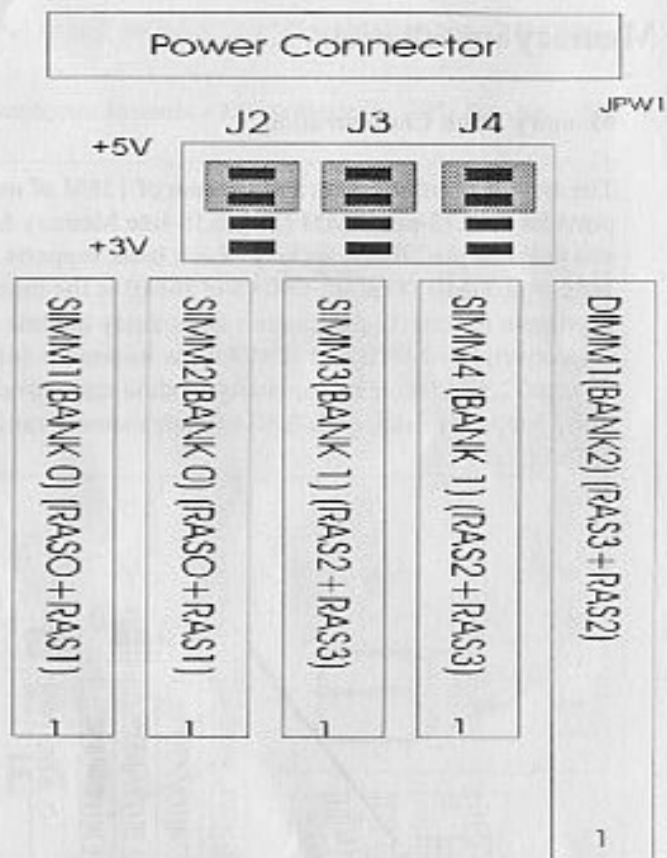
Note : 1 DIMM1 and 3.3V jumper (J2,J3,J4) are
optional.Default setting is 5V.

Note 2: Make sure the SIMM banks are using the same type
and equal size and density memory. Both3.3V and 5V
SIMM memory can be used ,but only3.3V SIMM
memory should be used if DIMM memory is installed in
the system.

Note3:To operate properly at least two 72-pin SIMM module
must be installed in the same bank or the one 168-pin

DIMM module must be installed. The system cannot
operate with only one 72-pin SIMM module installed.

Note4:Only 3.3V SIMM memory should be installed at the same
time as DIMM memory. Otherwise don't install SIMM
memory and DIMM memory at the same time. Doing so
could damage your system.

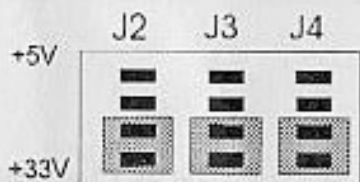Note 5: The DIMM bank supports 3.3V EDO, 3.3V FP, and, unbuffered 3.3V SDRAM. Be sure to adust the J2,J3,J4 jumpers to the 3.3V position before installing DIMM memory. Below, describe J2,J3,J4 jumper settings on 3.3V and 5V position respectively.
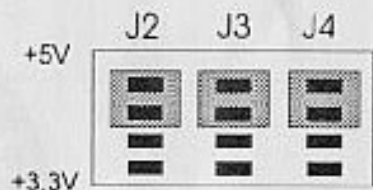
+5V SETTING

+3.3V SETTING

Note 6: This mainboard supports Table Free so memory can be installed on Bank 0 (SIMM1 + SIMM2), Bank 1 (SIMM3 + SIMM4), or Bank 2 (DIMM1).

Note 7: If the SIMM memory is 3.3V the following combinations are O.K. (Remember to adjust J2,J3,J4, to 3.3V settings.)
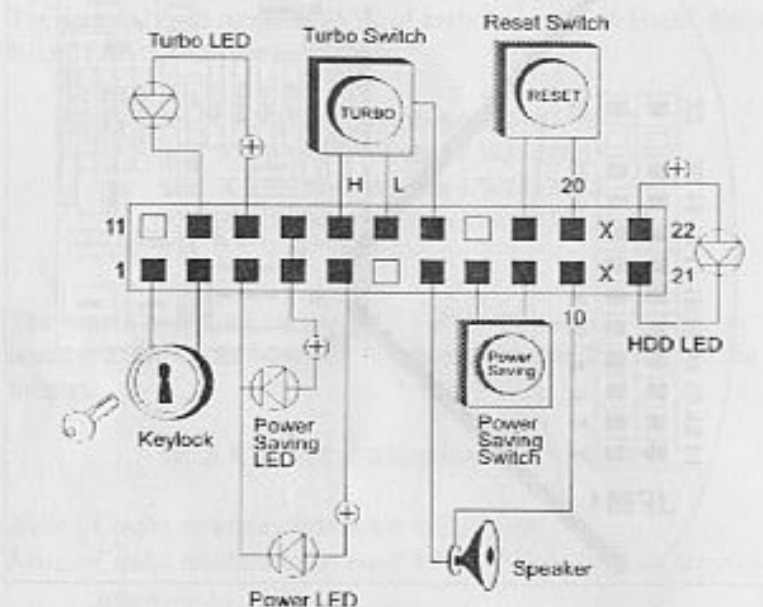
S=Single   D=Double   X=Not Installed

SIMM1+SIMM2 Bank 0	SIMM3+SIMM4 Bank 1	DIMM1 Bank 2
S	X	X
S	S	X
S	S	S
S	X	S
S	D	X
S	X	D
D	X	X
D	S	X
D	S	S
D	N	S
D	D	X
D	X	D
X	S	X
X	S	S
X	X	S
X	D	X
X	X	D

The Turbo LED, Turbo Switch, Hardware Reset, Key lock, Power LED, Power Saving LED, Sleep Switch, Speaker,and HDD LED all connect to the JFM1 connector block as below.

Note : The hardware Turbo switch is not functional. The Turbo LED is always ON and cannot be toggled.

2.5 Power Saving Switch Connector:

Attach a power saving switch to this connector. When the switch is pressed, the system goes immediately into suspend mode. Press any key and the system wakes up.

Note: you should enable the Power Management Mode (At Bios Setup) to use this function.