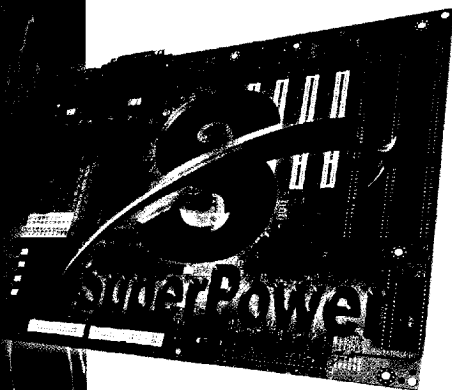


User's Manual

SP-586TB



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SETUP GUIDE

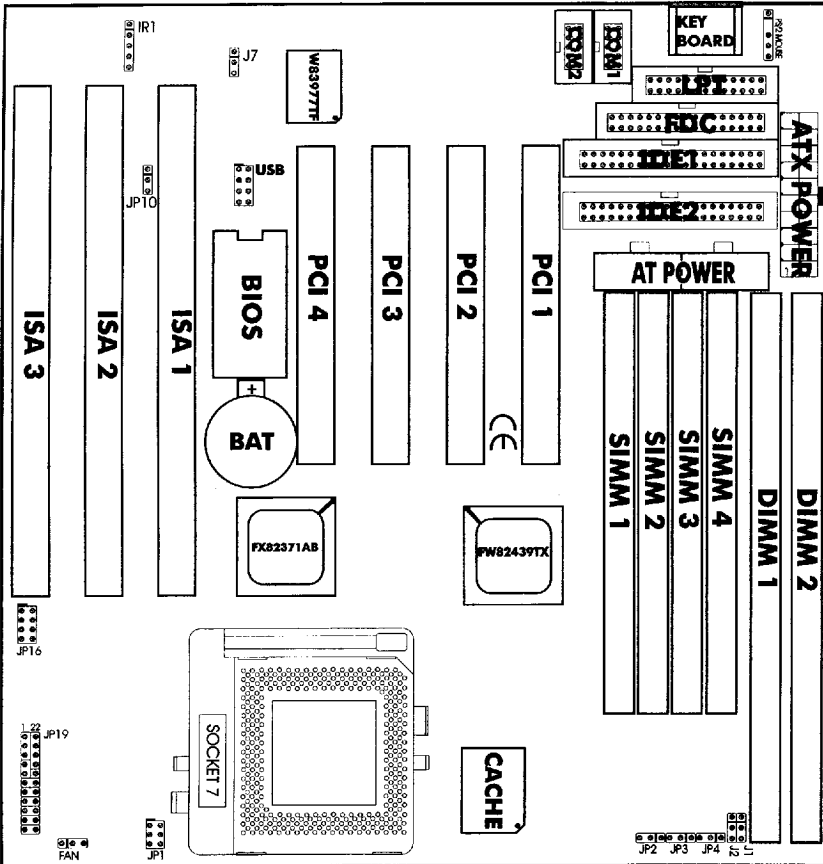
MAIN BOARD FEATURE INTRODUCTION

SPECIFICATIONS

System Chipset	Intel 82430TX, Winbond 83977TF Super I/O
CPU	One 321-pin socket 7 Intel Pentium P54C/MMX , Cyrix 6X86/L/M2, AMD K5/K6, and IDT C6 processors
Voltage	Switch Power 2.1V ~ 3.5V
Memory	Four 72-pin SIMM sockets (support FP/EDO RAM), Two 168-pin DIMM sockets (support FP/EDO/SDRAM)
Cache	On board PBSRAM 64K x 64 (512KB)
I/O	- Two high speed 16550 compatible serial ports, one Multi-Mode Parallel Port fixed (SPP/EPP/ECP standard) - Two Universal Serial Bus ports (USB) - Keyboard - PS/2 Mouse - Two IDE Ports (Bus Master Mode / Ultra DMA 33 Mbyte/s) or LS-120 / ZIP disk driver - Two 360KB/720KB/1.2MB/1.44MB/2.88MB floppy disk
Other	CPU fan controlled by suspend mode, LM 75 Temperature Sensor And Music Alarm (option) , AT/ATX Power
BIOS	AWARD GREEN , Plug & Play
Expansion Slots	Four PCI and three ISA slots
Dimension	Four-Layer PCB , AT size (220mm X 230mm)

SETUP GUIDE

MAINBOARD LAYOUT DRAWING:



SETUP GUIDE

MEMORY INSTALLATION

No jumper setting is necessary for DRAM setting , BIOS will check DRAM type and size automatically . **586TB** main board contains four by **72-pin SIMM** sockets (SIMM1, SIMM2, SIMM3 and SIMM4) to support 4MB, 8MB, 16MB, 32MB, or 64MB to from a memory size between 8MB to 256MB , support both **FAST PAGE MODE (FPM)** and **EXTENDED DATA OUTPUT (EDO) SIMMs** .

Two by **168-pin DIMM** sockets (DIMM1, DIMM2) to support 8MB, 16MB, 32MB, 64MB, 128MB or 256MB to from a memory size between 8MB to 512MB , support **FAST PAGE MODE (FPM)** , **EXTENDED DATA OUTPUT (EDO/3.3V)** and **SYNCHRONOUS DYNAMIC RANDOM ACCESS MEMORY (SDRAM) DIMMs** .

SIMM module sockets are divided in two bank : SIMM1 and SIMM2 in BANK 1 , SIMM3 and SIMM4 in BANK 2 . Minimum user has to install two DRAM SIMMs . DIMM module sockets are divided in tree banks: DIMM1 in BANK 1, DIMM2 in BANK 2 and DIMM3 in BANK 3. **586TB** main board has table-free (or auto-bank) feature and user can install DIMM into any bank.

NOTE : DIMM 1 BANK = (SIMM 1 + SIMM 2) BANK

DIMM 2 BANK = (SIMM 3 + SIMM 4) BANK

But cannot mix up SIMM with DIMM since chips limitation .

SETUP GUIDE

CPU QUICK INSTALLED TABLE

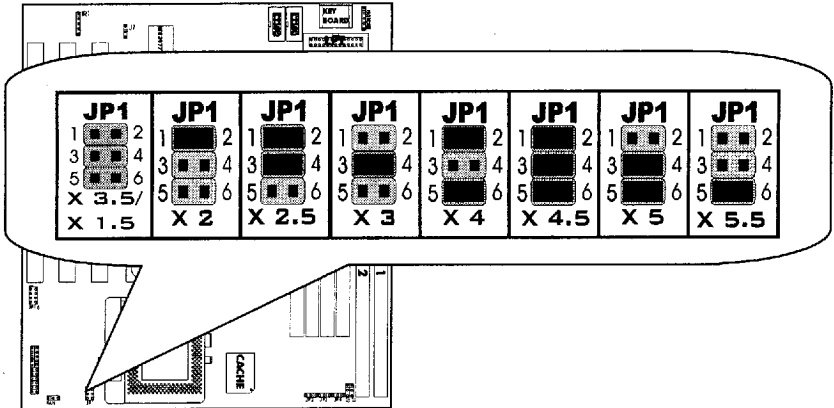
INTEL CPU	CPU CLK			CPU RATIO (JP1)			CPU VOLT (JP16)			
	JP2	JP3	JP4	1-2	3-4	5-6	1-2	3-4	5-6	7-8
P (MMX) – 233MHz	1-2	1-2	1-2	O	O	O	S	O	O	O
P (MMX) – 200MHz	1-2	1-2	1-2	O	S	O	S	O	O	O
P (MMX) – 166MHz	1-2	1-2	1-2	S	S	O	S	O	O	O
PENTIUM – 200MHz	1-2	1-2	1-2	O	S	O	S	S	S	O
PENTIUM – 166MHz	1-2	1-2	1-2	S	S	O	S	S	S	O
PENTIUM – 150MHz	1-2	1-2	2-3	S	S	O	S	S	S	O
PENTIUM – 133MHz	1-2	1-2	1-2	S	O	O	S	S	S	O
PENTIUM – 120MHz	1-2	1-2	2-3	S	O	O	S	S	S	O
PENTIUM – 100MHz	1-2	1-2	1-2	O	O	O	S	S	S	O
PENTIUM – 90MHz	1-2	1-2	2-3	O	O	O	S	S	S	O
PENTIUM – 75MHz	2-3	2-3	2-3	O	O	O	S	S	S	O
AMD CPU	CPU CLK			CPU RATIO (JP1)			CPU VOLT (JP16)			
	JP2	JP3	JP4	1-2	3-4	5-6	1-2	3-4	5-6	7-8
K6 – 2/266MHz	1-2	1-2	1-2	S	O	S	O	O	S	O
K6 – 300MHz	1-2	1-2	1-2	S	S	S	O	O	S	O
K6 – 266MHz	1-2	1-2	1-2	S	O	S	O	O	S	O
K6 – 233MHz	1-2	1-2	1-2	O	O	O	S	S	O	O
K6 – 200MHz	1-2	1-2	1-2	O	S	O	S	O	O	S
K6 – 166MHz	1-2	1-2	1-2	S	S	O	S	O	O	S
K5 – PR166	1-2	1-2	1-2	S	S	O	S	S	S	S
K5 – PR150	1-2	1-2	2-3	S	S	O	S	S	S	S
K5 – PR133	1-2	1-2	1-2	S	O	O	S	S	S	S
CYRIX CPU	CPU CLK			CPU RATIO (JP1)			CPU VOLT (JP16)			
	JP2	JP3	JP4	1-2	3-4	5-6	1-2	3-4	5-6	7-8
6x86MX – 300MHz	1-2	2-3	1-2	O	S	O	S	O	O	S
6x86MX – 233MHz	1-2	2-3	1-2	S	S	O	S	O	O	S
6x86MX – 200MHz	1-2	2-3	1-2	S	O	O	S	O	O	S
6x86MX – 200MHz	1-2	1-2	1-2	S	S	O	S	O	O	S
6x86MX – 166MHz	1-2	1-2	1-2	S	O	O	S	O	O	S
6x86L – P200 (150MHz)	1-2	2-3	1-2	S	O	O	S	O	O	O
6x86L – P166 (133MHz)	1-2	1-2	1-2	S	O	O	S	O	O	O
6x86L – P150 (120MHz)	1-2	1-2	2-3	S	O	O	S	O	O	O
6x86 – P166 (133MHz)	1-2	1-2	1-2	S	O	O	S	S	S	O
6x86 – P150 (120MHz)	1-2	1-2	2-3	S	O	O	S	S	S	O

Note : O - OPEN S - SHORT

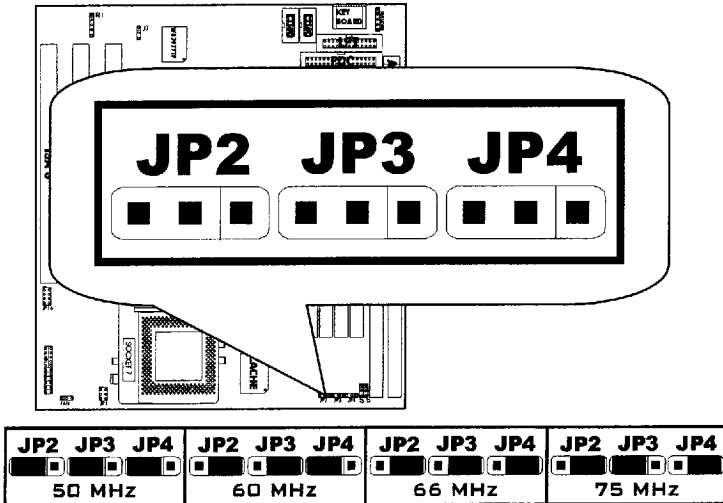
SETUP GUIDE

JUMPER SETTING

1. CPU TO BUS FREQUENCY RATIO JUMPER SETTING (JP1) :

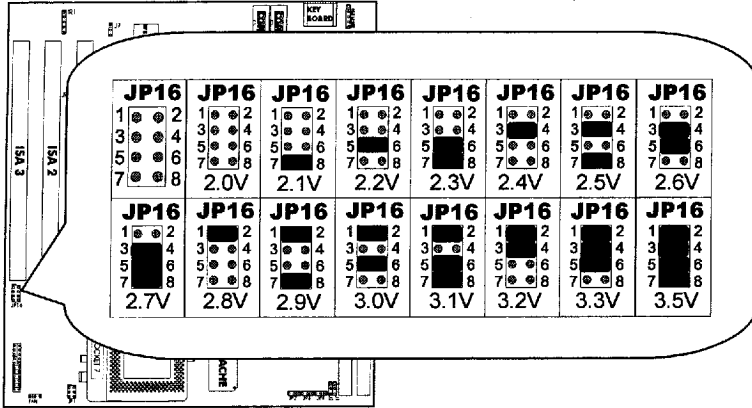


2. CPU CLOCK JUMPER SETTING (JP2,JP3,JP4) :



















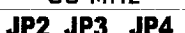








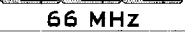













SETUP GUIDE

3. CPU VOLTAGE JUMPER SETTING (JP16) :







SETUP GUIDE

QUICK TO SETTING CPU TYPE

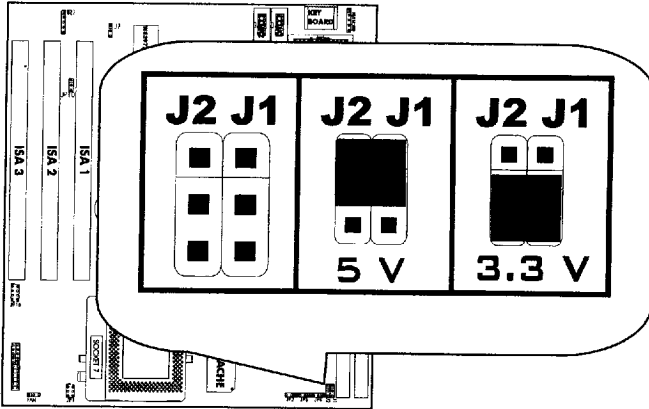
PENTIUM - 75 MHz 5K86 - P75	JP1  X3.5/X1.5	JP2 JP3 JP4  50 MHz	JP16  3.3V
PENTIUM - 90 MHz 5K86 - P90	JP1  X3.5/X1.5	JP2 JP3 JP4  60 MHz	JP16  3.3V
PENTIUM - 100 MHz 5K86 - P100	JP1  X3.5/X1.5	JP2 JP3 JP4  66 MHz	JP16  3.3V
PENTIUM - 120 MHz	JP1  X 2	JP2 JP3 JP4  60 MHz	JP16  3.3V
PENTIUM - 133 MHz	JP1  X 2	JP2 JP3 JP4  66 MHz	JP16  3.3V
PENTIUM - 150 MHz	JP1  X 2.5	JP2 JP3 JP4  60 MHz	JP16  3.3V
PENTIUM - 166 MHz	JP1  X 2.5	JP2 JP3 JP4  66 MHz	JP16  3.3V
PENTIUM - 200 MHz	JP1  X 3	JP2 JP3 JP4  66 MHz	JP16  3.3V
PENTIUM - 166 MHz (MMX)	JP1  X 2.5	JP2 JP3 JP4  66 MHz	JP16  2.5V
PENTIUM - 200 MHz (MMX)	JP1  X 3	JP2 JP3 JP4  66 MHz	JP16  2.5V
PENTIUM - 233 MHz (MMX)	JP1  X3.5/X1.5	JP2 JP3 JP4  66 MHz	JP16  2.5V
AMD K5 - PR133	JP1  X 2	JP2 JP3 JP4  66 MHz	JP16  3.3V
AMD K5 - PR150	JP1  X 2.5	JP2 JP3 JP4  60 MHz	JP16  3.3V

SETUP GUIDE

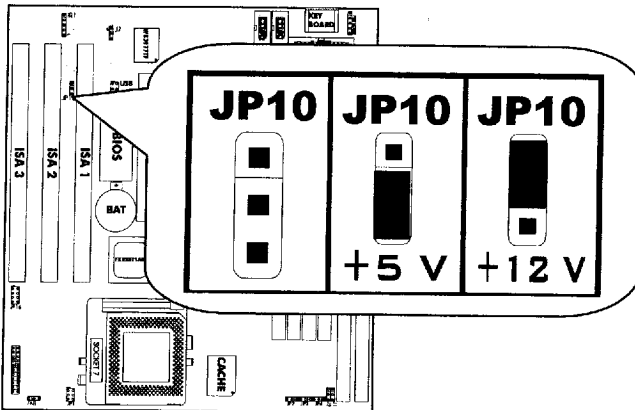
AMD K5 - PR166	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2.5	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 3.5V
AMD K6 - PR166	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2.5	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.9V
AMD K6 - PR200	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 3	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.9V
AMD K6 - PR233	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X3.5/X1.5	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 3.2V
6X86 - P150(120MHz)	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  60 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 3.3V
6X86 - P166(133MHz)	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 3.3V
6X86L - P150(120MHz)	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  60 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.8V
6X86L - P166(133MHz)	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.8V
6X86L - P200(150MHz)	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  75 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.8V
6X86MX - 166MHz	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.9V
6X86MX - 200MHz	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2.5	JP2 JP3 JP4  66 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.9V
6X86MX - 200MHz	JP1 1 ■ 2 3 ■ 4 5 ■ 6 X 2	JP2 JP3 JP4  75 MHz	JP16 1 ■ 2 3 ■ 4 5 ■ 6 7 ■ 8 2.8V

SETUP GUIDE

4. 168-pin DIMM VOLTAGE JUMPER SETTING (J1, J2) :

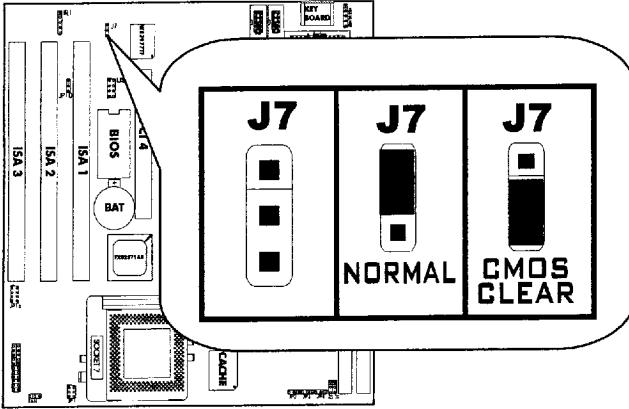


5. BIOS VOLTAGE JUMPER SETTING (JP10) :

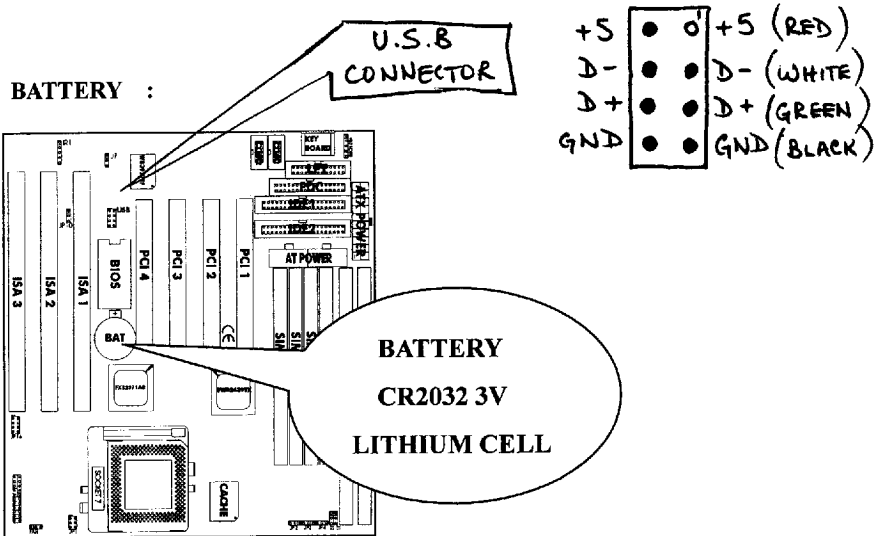


SETUP GUIDE

6. CMOS CLEAR (J7) :

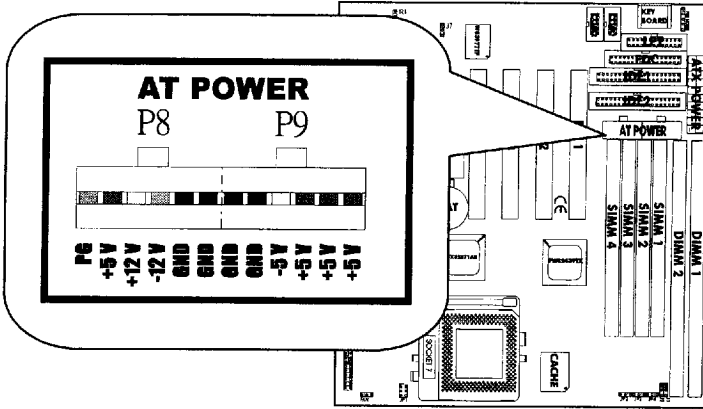


7. BATTERY :

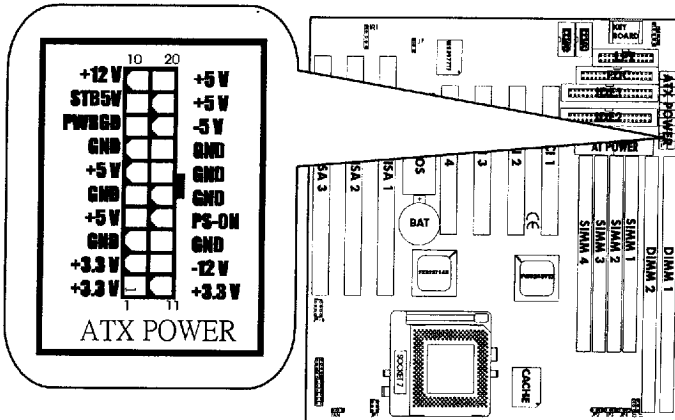


SETUP GUIDE

8. AT POWER SUPPLY CONNECTOR :

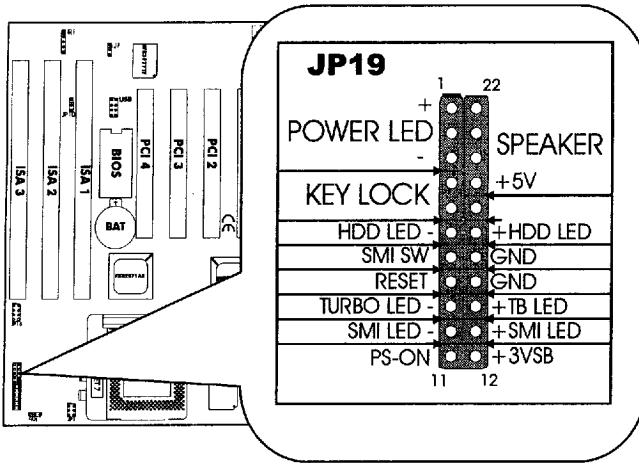


9. ATX POWER SUPPLY CONNECTOR (CN3) :



SETUP GUIDE

10. SYSTEM PANEL CONNECTORS (JP19) :



11. IR CONNECTOR (IR1) :

