

Installation Procedures

The VA-503 has several user-adjustable jumpers on the board that allow you to configure your system to suit your requirements. This chapter contains information on the various jumper settings on your mainboard.

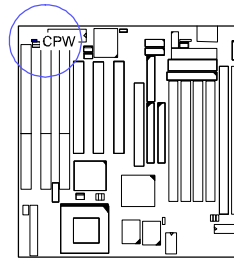
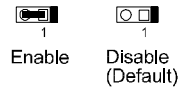
To set up your computer, you should follow these installation steps:

- **Step 1 -**
Set system jumpers
- **Step 2 -**
Install DRAM and SDRAM modules
- **Step 3 -**
Install the CPU
- **Step 4 -**
Install expansion cards
- **Step 5 -**
Connect cables and power supply
- **Step 6 -**
Set up BIOS feature

CAUTION : If you use an electric drill to install this mainboard on your chassis, please wear a static wrist strap. The recommended electric drill torque is from 5.0 to 8.0 kg/cm to avoid damaging the chips' pins.















Clear Password: CPW

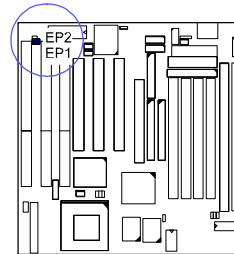
This jumper allows you to set the password configuration to Enabled or Disabled. You may need to enable this jumper if you forget your password.



Flash ROM Type Selection: EP1, EP2

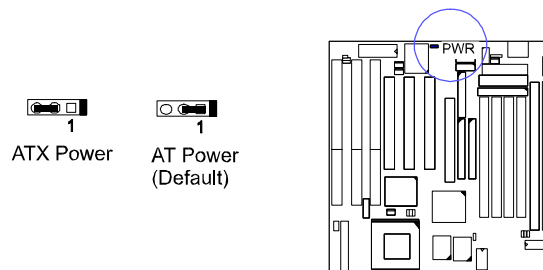
These two jumpers allow you to configure the Flash ROM chip. This jumper setting is correct by manufactory default. If you want to know the Flash ROM type installed on this mainboard, remove the sticker from the chip to see its type.

Type	EP1	EP2
1MB		
Intel 28F001		
MXIC 28F1000		
SST 29EE010		
ATMEL AT29C010		
2MB		
Winbond 29C020		
SST 29EE020		
ATMEL AT29C020		



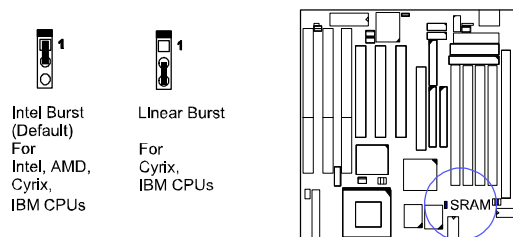
Power Supply Type Selection: PWR

This jumper allows you to select your power supply type: an AT power supply or remote power supply. Please read CN5 when your system uses an ATX power supply.















CPU to SRAM Data Transacting Mode Selection: SRAM

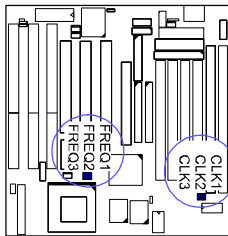
This jumper allows you to select the CPU to SRAM data read/write mode. If you install a Cyrix or IBM processor on this mainboard, please set at 2-3 pin pair. Please also read Linear Burst Mode feature of BIOS Setup, Chapter 3 for more information.



CPU External Clock (BUS) Frequency: CLK1, CLK2, CLK3

























The table below shows the jumper settings for the different CPU speed configurations.

CPU Freq.	CLK1	CLK2	CLK3
66 MHz			
60 MHz			
55 MHz			
50 MHz			



CPU to Bus Frequency Ratio: FREQ1, FREQ2, FREQ3

These three jumpers are used in combination to decide the ratio of the internal frequency of the CPU to the bus clock.

Ratio		FREQ1	FREQ2	FREQ3
Pentium MMX/ K6/6x86MX	6x86L			
3 x	4 x			
2.5 x	1 x			
2 x	2 x			
3.5 x	3 x			
4 x	----			
4.5 x	----			
5x	----			
5.5 x	----			

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