

## **Installation Procedures**

The PA-2012 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.

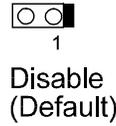
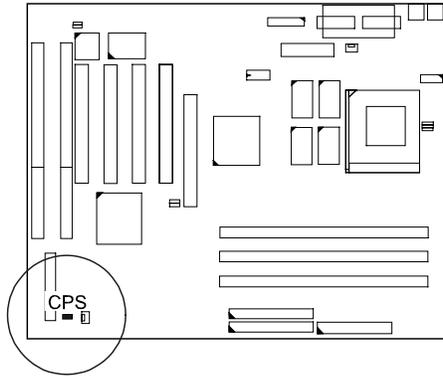
To set up your computer, you should follow these installation steps:

- Step 1 - Set system jumpers
- Step 2 - Install system RAM modules
- Step 3 - Install the CPU
- Step 4 - Install expansion cards
- Step 5 - Connect cables and power supply
- Step 6 - Set up BIOS feature (Please read Chapter Three.)

**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.

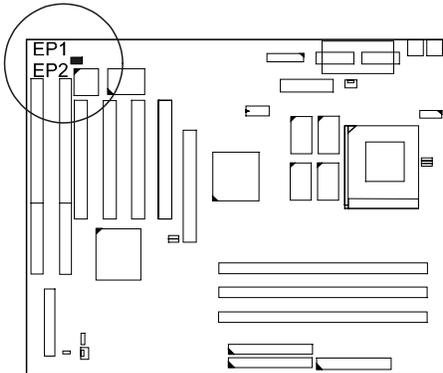
**Clear Password: CPS**

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 EPROM Type Selection: EP1, EP2**

These two jumpers allow you to configure the Flash EPROM chip

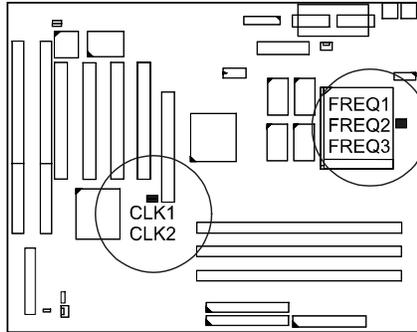


1M F-ROM	EP1	EP2
Intel 28F001	1	<i>Normal Default</i> 1
MXIC 28F1000	1	<i>Program Bootblk</i> 1
SST 29EE010	1	1
ATMEL AT29C010	1	1

2M F-ROM	EP1	EP2
AMD 28F020	1	1
SST 29EE020	1	1
ATMEL AT29C020	1	1
MXIC MX28F2000	1	1

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

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



BUS CLOCK	CLK1	CLK2
66 MHz		
60 MHz		
55 MHz		

**CPU Internal Freq. to Bus Clock 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	Pentium MMX K6/6x86MX	6x86L			
3 x	3 x	4 x			
2.5 x	2.5 x	1 x			
2 x	2 x	2 x			
1.5 x	3.5 x	3 x			
---	4 x	----			
---	4.5 x	----			
---	5x	----			
---	5.5 x	----			

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