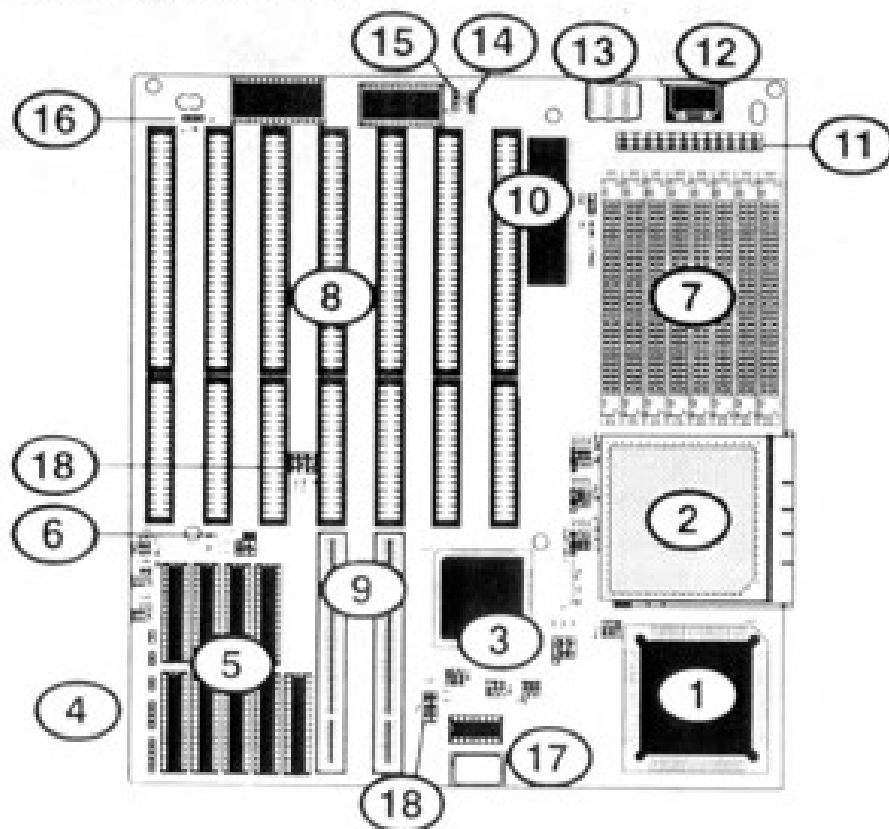
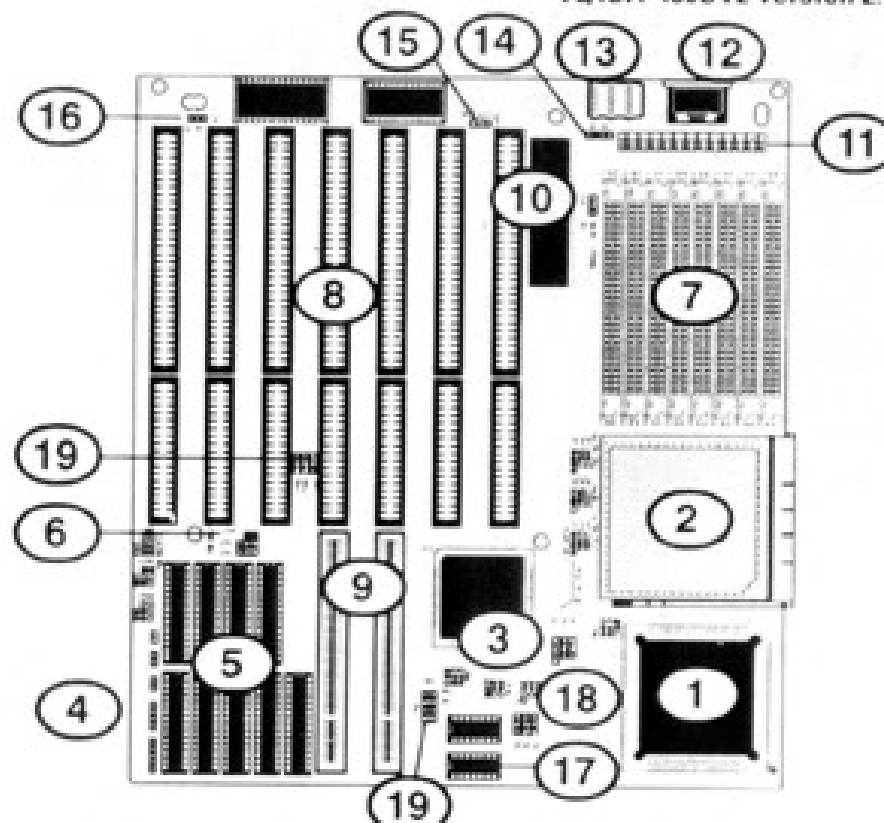


VL/ISA-486SV2 version 2.4



- | | |
|--|---|
| 1. i486SX PQFP CPU (optional). | 9. VL-Bus (VESA) expansion slots (some models). |
| 2. PGA CPU socket with ZIF option. | 10. Video mode jumper JP2. |
| 3. CPU type selector jumpers, CPJ1, 2&3. | 11. Power supply connector. |
| 4. Case function connectors. | 12. Keyboard connector. |
| 5. External cache subsystem (some models). | 13. On board battery (some models). |
| 6. Cache size selection jumpers, CJ1, 2 & 3 (some models). | 14. External battery connector BCON1. |
| 7. DRAM module sockets. | 15. Battery selection jumper BJP1. |
| 8. Expansion slots, seven 16-bit. | 16. 20MHz jumper JP1. |
| | 17. Oscillator (some models). |
| | 18. TP jumpers. |

VL/ISA-486SV2 version 2.5

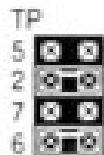


- | | |
|--|---|
| 1. i486SX PQFP CPU (optional). | 10. Video mode jumper JP2. |
| 2. PGA CPU socket with ZIF option. | 11. Power supply connector. |
| 3. CPU type selector jumpers, CPJ1, 2&3. | 12. Keyboard connector. |
| 4. Case function connectors. | 13. On board battery (some models). |
| 5. External cache subsystem (some models). | 14. External battery connector BCON1. |
| 6. Cache size selection jumpers, CJ1, 2 & 3 (some models). | 15. Battery selection jumper BJP1. |
| 7. DRAM module sockets. | 16. 20MHz jumper JP1. |
| 8. Expansion slots, seven 16-bit. | 17. Clock generator chip (some models). |
| 9. VL-Bus (VESA) expansion slots (some models). | 18. Clock Speed jumpers CS1, 2&3 (some models). |
| | 19. TP jumpers. |

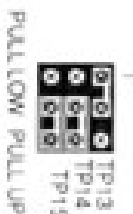
"TP" Jumpers

There are seven jumpers marked with the initials "TP". Do not change their settings. They are set at the factory. For your reference the correct settings are shown below:

TP2 & TP6 short
TP5 & TP7 open



TP13 short pins 1&2
TP14 & 15 short pins 2&3



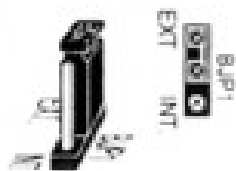
If the settings are not correct, your mainboard may not function.

Battery Selection Jumper BJP1

The mainboard may not have an on-board battery, in which case the setting for this jumper is "EXT". If you are using an external battery, it is connected to "BCONT".

Battery selection jumper BJP1 setting

setting for external battery



Video Jumper JP2

JP2 selects the type of display you are using. The choices are between "CGA" and "MONO/OTHER". "CGA" is only for a CGA display. "MONO/OTHER" is for all other displays, including EGA, VGA and MONO. The default setting is "MONO/OTHER".

Video jumper JP2 default setting

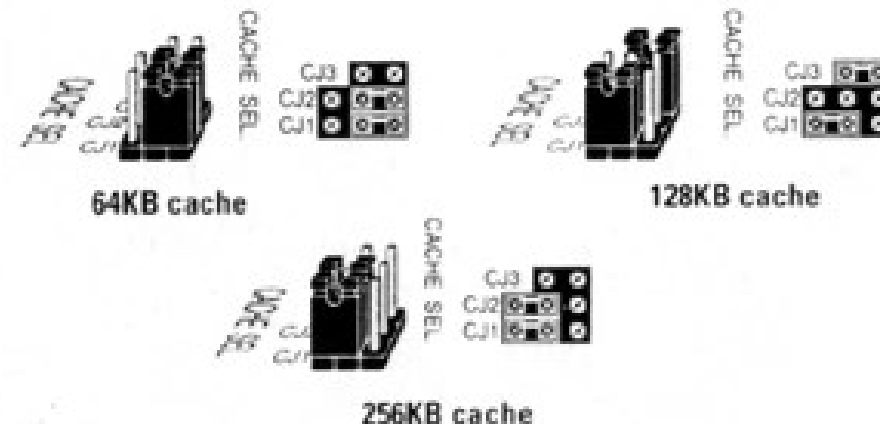
Remember: The MONO/OTHER setting is for all color or monochrome display cards except CGA.



The Cache Size Selection Jumper Block

If your board has an external cache, C11, C12 and C13 form a group of three jumper switches which set the size of the cache installed, either 64KB, 128KB or 256KB.

Cache size selection jumper settings



Chapter 3 has more information on how to configure the cache.

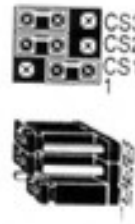
Clock speed selection jumper settings CS1, 2 & 3 for those mainboards which use a clock generator.



25MHz



33MHz



40MHz



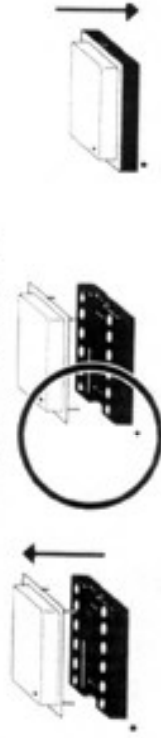
50MHz

Note: Use the 40MHz setting for a 20MHz CPU.

For other CPU speeds, the setting must match the CPU speed.

Changing the oscillator

for those mainboards which use an oscillator.

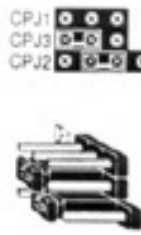


1. Pull out the old oscillator.
2. Orient the dot on the top of the new oscillator to the dot next to the socket.
3. Press it into the socket.

Note: Use a 40MHz oscillator for a 20MHz CPU.

For other CPU speeds, the oscillator must match the CPU speed.

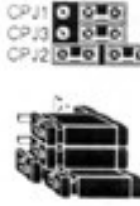
PGA CPU type selection jumper settings for CPJ1, 2 & 3



486SX

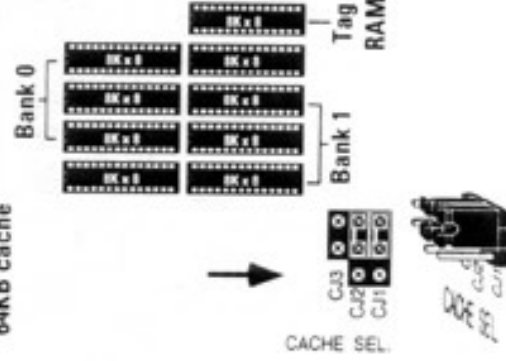


486DX/486DX2

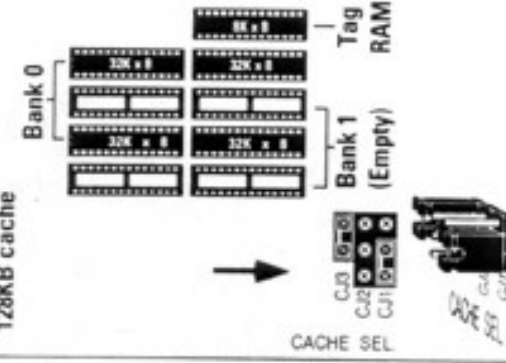


487SX/OverDrive
PQFP CPU ONLY

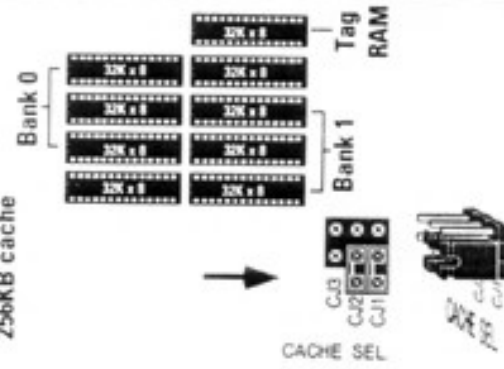
64KB cache



128KB cache



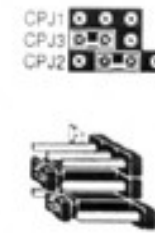
256KB cache



SRAM speed requirements:
 ≤ 25ns chips for Data RAM
 ≤ 25ns chips for Tag RAM or
 if the CPU is a 486DX-50, use
 a 20ns chip for Tag RAM

= Required jumper
 positions for each
 cache option

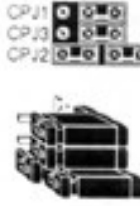
Oscillator jumper JP1 setting



486SX



486DX/486DX2



487SX/OverDrive
PQFP CPU ONLY



External CPU speed
 is 20MHz
 short pins 2 & 3.



All other CPU speeds
 short pins 1 & 2.