Note: The DX and DX2 style processors are functionally the same, as an
      Overdrive processor. An overdrive processor will be marked
      "Overdrive" a DX or DX2 style will be marked 486DX or 486DX2.

Your computer may have i486 SX, DX, or DX2 style microprocessor; you can
install a 487 SX, 486 DX, 486 DX2, or an Overdrive Processor (either 50MHZ
or 66MHZ). A 487 SX math coprocessor will provide math functions for the
425 SX and 433 SX computers. The DX, DX2, and Overdrive processors will
increase the internal clock speed of the CPU in addition to providing the
math coprocessor functions. The performance upgrade socket (U62) on the
main logic board allows easy installation of an upgrade Processor.

CAUTION: Double check the jumper settings before installing the new chip.
         Incorrect installation of an upgrade processor can cause
         electrical damage to the main logic board or the component.
         If you choose not to perform this procedure, your computer
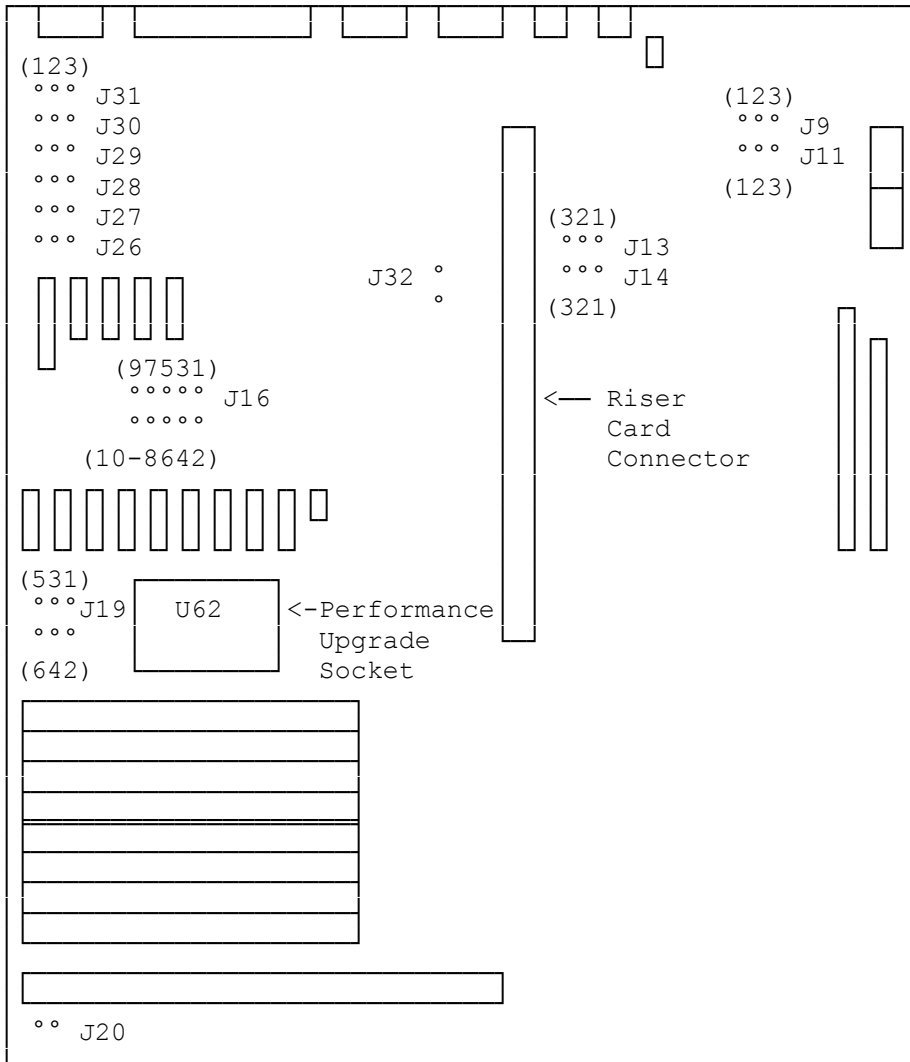   dealer can do this for you.

Jumpers Settings:

	425SX	433SX	433DX	450DX2	466DX2
487SX Math Coprocessor	J19 1-3, 2-4 J26 1-2 J27 2-3	J19 1-3, 2-4 J26 1-2 J27 2-3	Mathco included in DX	Mathco included in DX2	Mathco Included in DX2
33Mhz DX Processor	J19 3-5, 4-6 J26 1-2 J27 1-2	J19 3-5, 4-6 J26 1-2 J27 1-2	----------	----------	------
50Mhz DX2 Processor	J19 3-5, 4-6 J26 1-2 J27 2-3	J19 3-5, 4-6 J26 1-2 J27 2-3	J19 3-5, 4-6 J26 1-2 J27 2-3	----------	------
66Mhz DX2 Processor	J19 3-5, 4-6 J26 1-2 J27 1-2	J19 3-5, 4-6 J26 1-2 J27 1-2	J19 3-5, 4-6 J26 1-2 J27 1-2	J19 3-5, 4-6 J26 1-2 J27 1-2	------
50Mhz ** Overdrive Processor	J19 1-3, 2-4 J26 1-2 J27 2-3	J19 1-3, 2-4 J26 1-2 J27 2-3	J19 1-3, 2-4 J26 1-2 J27 2-3	----------	------
66Mhz ** Overdrive Processor	J19 1-3, 2-4 J26 1-2 J27 1-2	J19 1-3, 2-4 J26 1-2 J27 1-2	J19 1-3, 2-4 J26 1-2 J27 1-2	J19 1-3, 2-4 J26 1-2 J26 1-2	------

   ** The overdrive chip is currently the more accepted method of
      upgrading to 50 Mhz or 66 Mhz speeds.

Main Logic Board Layout:

```
 |_____|

                    Back of Computer
 ┌──────────────────────────────────────────────────────────────┐
 │  ▯    ▯     ▯   ▯   ▯  ▯  ▯                                    │
 │ (123)                      ▯                                   │
 │ °°° J31                        (123)                           │
 │ °°° J30                        °°° J9                          │
 │ °°° J29                        °°° J11        ▯                │
 │ °°° J28                        (123)                           │
 │ °°° J27               ▯                                        │
 │ °°° J26              (321)                                     │
 │                      °°° J13                                   │
 │  ▯ ▯ ▯ ▯ ▯           °°° J14                                  │
 │                      (321)                                     │
 │   (97531)                                    ▯ ▯               │
 │   °°°°° J16           <── Riser                                │
 │   °°°°°                   Card                                 │
 │   (10-8642)              Connector                             │
 │                                                                │
 │  ▯▯▯▯▯▯▯▯ ▯                                                   │
 │ (531)                                                          │
 │ °°°J19 ┌──────┐ <-Performance                                 │
 │ °°°    │ U62  │   Upgrade                                     │
 │ (642)  └──────┘   Socket                                      │
 │        ┌──────────────┐                                       │
 │        │              │                                       │
 │        │              │                                       │
 │        │              │                                       │
 │        │              │                                       │
 │        │              │                                       │
 │        │              │                                       │
 │        └──────────────┘                                       │
 │     ┌──────────────────────┐                                  │
 │     └──────────────────────┘                                  │
 │    °° J20                                                      │
 └──────────────────────────────────────────────────────────────┘
```

Before you begin, carefully read the following steps and the documentation
provided with the component you are installing.

┌─────────────────────────────────────┐
│ To install an upgrade processor: │
└─────────────────────────────────────┘

1. Turn off the computer, and disconnect all cables.
2. Discharge any accumulated static electricity from your body by
   touching
   a grounded metal object. Then, open the computer.
3. Remove any expansion adapters installed in the three-slot expansion
   area by removing the expansion slot screws, disconnect any data
   cables,
   and gently move each adapter back and forth while pulling it out of
   theriser card connector.
4. The original microprocessor is an i486 SX. It is permanently attached

to the main logic board. Do not attempt to remove it. The computer
   automatically stops accessing the i486 SX microprocessor when another
   processor is installed in the upgrade socket.
 5. Orient the upgrade processor so that the notch on the component aligns
    with Pin 1 of the performance upgrade socket.
 6. Taking care not to bend or touch the metal pins, press the component
    into the socket.
 7. Be sure Jumper Blocks J19, J26, and J27 are properly set.
    (See chart above)
 8. Replace any expansion adapter you removed.
 9. Be sure internal cables are securely connected and do not cause
    mechanical interference. Then, close the computer.
10. Reconnect all cables.

(jlc-10/10/94)