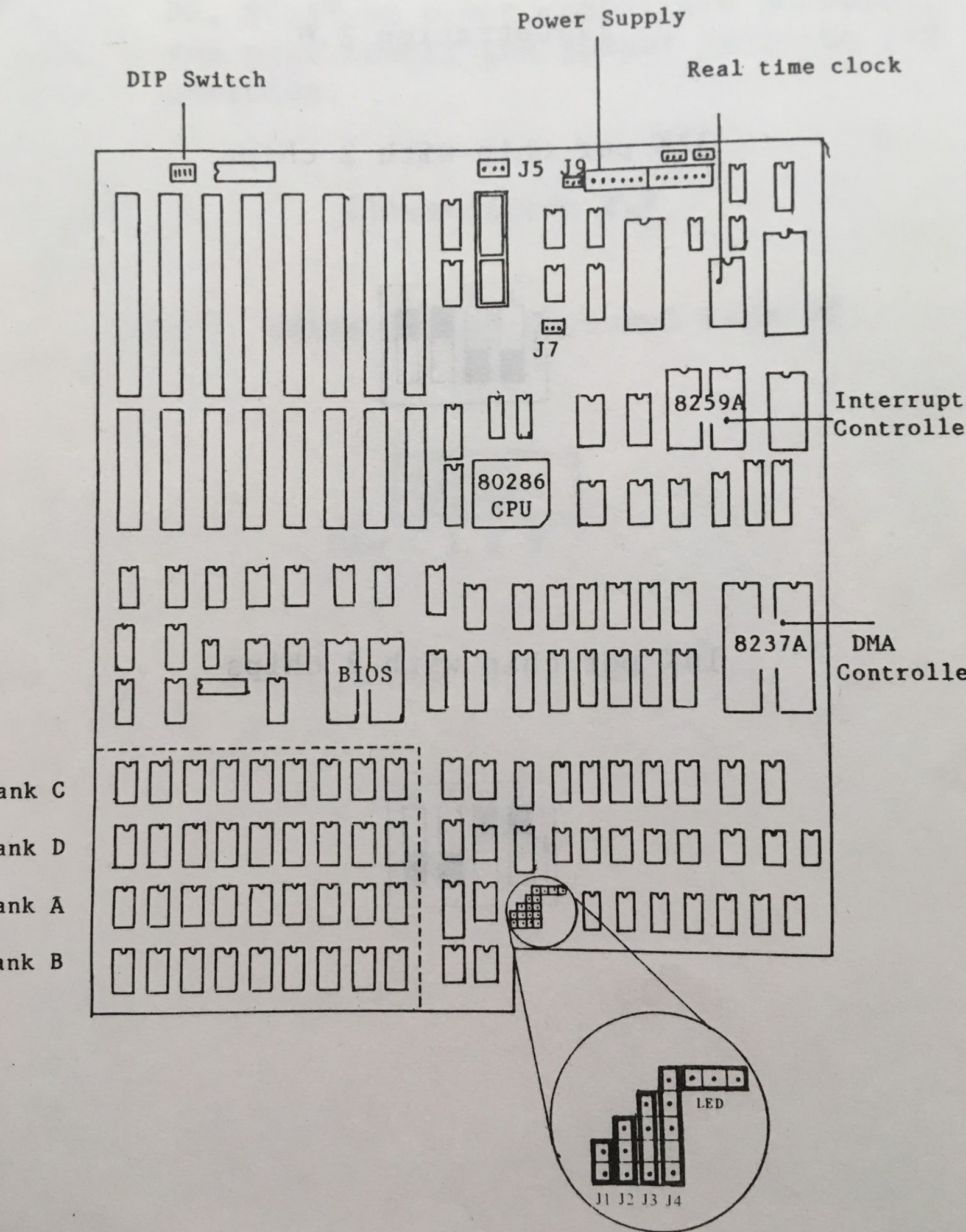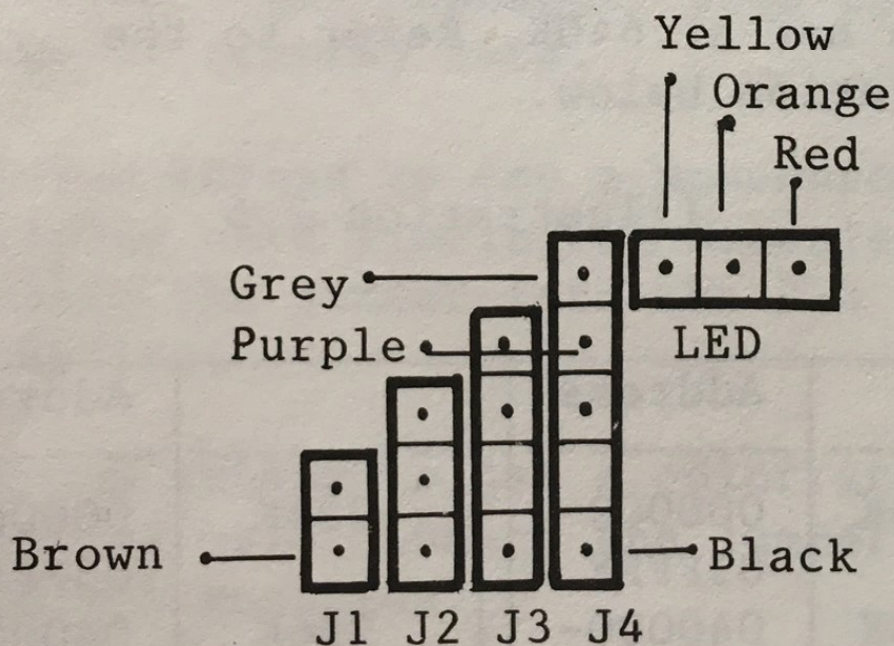Illustration 2.9

2.2.1 Setting the Jumpers

There are nine sets of jumper connections on the mainboard. If you want to insert jumper on J1, J4, and LED connector, you must notice the jumpers position and direction. You can distinguish the direction by color line, refer to the illustration below.

Illustration 2.4

J1: This controls hardware reset. It is
     connected to the reset button on the front
   panel by a wired cable.

J2: This is a 3-pin connector which is used to
     control the RAM (Random Access Memory)
     mapping on board. According to the J2 set-
     ting, the RAM on board will execute
     variable address mapping.

     If you insert a jumper at the 1-2 posi-
     tion, then the RAM capacity is set at
     512K (just mounting the RAM chips on Bank
     A, Bank B) or 1M mode; if you insert a jumper
     at the 2-3 position, then RAM capacity
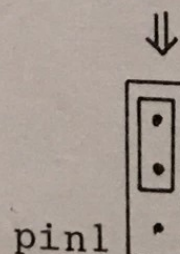   will be set at 640K. Refer to the
     illustration below.

                 Illustration 2.5

		Address			Address
Bank A	256K	000000–03FFFF		256K	000000–03FFFF
Bank B	256K	040000–07FFFF		256K	040000–07FFFF
Bank C	256K	100000–13FFFF		64K	080000–08FFFF
Bank D	256K	140000–17FFFF		64K	090000–09FFFF

       1M or 512K   640K
           ⇓   ⇓

       pin1   pin1
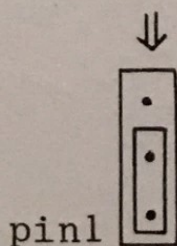
J3: This is connected to the speaker on the front panel of the system unit.

J4: This is connected to the keyboard lock, which is on the front panel of the system unit and is used to control the input from the keyboard.

J5: This is connected to the keyboard with a wired cable.

J7: The J7 is a 3-pin connector used to select the type of display card.

(1) If you intend to use a monochrome display card (including Hercules Card), insert the jumper into the 2-3 position.

(2) If you intend to use a color/graphics display card, insert the jumper into the 1-2 position.

Notice: If you intend to use the E.G.A, P.G.C. card, don't insert any jumper into J7 this position.

Illustration 2.6

color display   monochrome display
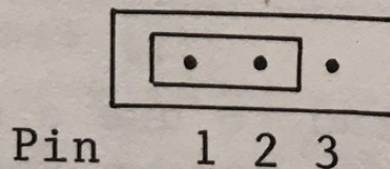
pin 1
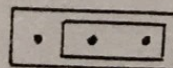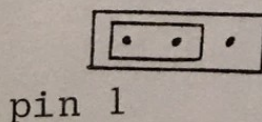
J8:   Unused.

J9:   This is used to control the type of key-
      board. The J9 is a 3-pin connector.

      (1) If you are using the PC-286 Turbo
          keyboard, do not use the J9.

      (2) If you are using an IBM keyboard from
          PC, PC/XT or other compatible machines,
          you must insert the jumper into the 1-2
          position.

                   Illustration 2.7

              using an IBM keyboard from PC
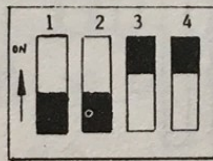

                   Pin   1 2 3

2.2.2   The DIP Switch

There are two sockets on the mainboard provided for the use of EPROM chips. The BIOS programs are loaded into the EPROM chips permanently; the EPROM chips on board are composed of either two 32K (27256) EPROM chips or 16K (27128) EPROM chips.

Illustration 2.8

32K per chip with 2 chips

16K per chip with 2 chips