# MUSITRONICS
## Speed System Installation

We congratuate you for purchasing the Speed-System, which will Drastically improve the execution-tie of your D-50/D-550.
Please notice that the Spee-System will only work with an installed M.EX-board running software Version 3.40 or higher. If your M.EX still run some older release, please order an update directly throught the distributor or your dealer.

### What do you need ?

- **the Speed-System, encompassing**
  - **the Speed Operating-System V3.40 or higher)**
  - **the Speed-Chip**
  - **the 16MHZ quartz**

- **some typical eletronic-tools, like**
  - **screwdriver (both slottet-and phillips tip)**
  - **soldering iron**
  - **soldering wire**
  - **de-soldering pump**

### Who can do the installation ?

We strongly recommend to have a qualified service-technician install the Speed System. Musitronics cannot be hald responsible for any damage done to your Synthesizer or yourself. All warranty on the M.EX expansion will be void unless the Speed-System is installed by an official musitronics service-center.

### How is theinstallation to bedone ?

1. Definitely pull it´s power-plug before opening the D-50/D-550 !

2. Then AND ONLY THEN open the D-50 by removing it´s bottom.

3. Place the D-50 with the back side of the keyboard facing towards you onto a stable surface. Now remove all 15 connectors that lead to the MAIN.BOQRD and it´s 7 screws. Take out the main board.

4. You now must exchange the quartz that sets the operating speed. You find it next to the microprocessor uPD 78312G. It´s mounted in upright position abouve the battery of the expansion-board. It´s tag on the main board reads "x1 12 mHz". Carefully unsolder it.

5. Now solder the new 16 Mhz quarz that came with the Speed-system into the old quartz´s place.

6. Exchange the old operating-system on the expansion-board (the chip with the sticker and 28 pins) for the new system. ( only if you have a software version below 3.40). Also exchange the old 20-pin chip with the new Speed-Chip.
   Carefully observe the correct placement of the chip´s notch ( facrd towards the battery on the expansion board).

7. Now put the main-board back in place into the D-50/ D-550. Take care taht all 15 connectors are firmly installed into their correct sockets and that the screen-foll sits in place.

8. Screw the bottom-lid back on. That should be all, folks !