



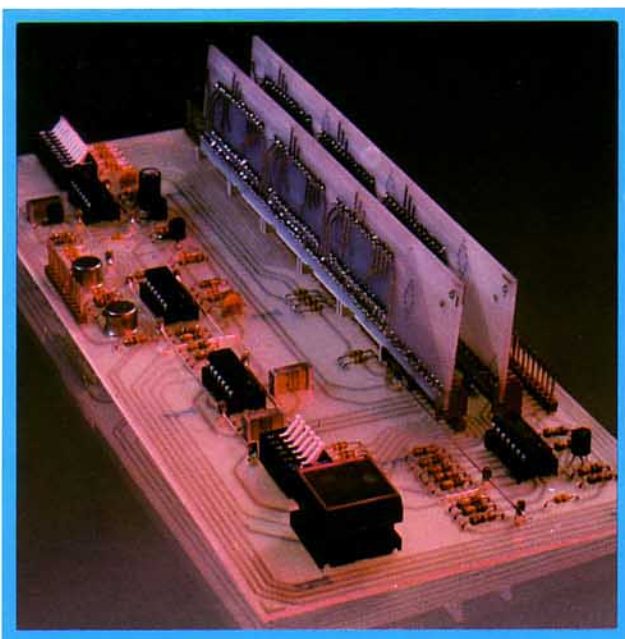
# WERSI DATA

Two years of research produced the program memory with the "Superbrain".

# ★ SOUND COMPUTER



The control panel of the SOUND COMPUTER with easy-to-operate push buttons and LED indicators.



The SOUND COMPUTER electronics shown here with the optional memory expansion.

The fundamental building block for the WERSI DATA was developed earlier and led to a patent application in 1975. The introduction of WERSI DATA created a new measuring unit by which future organ construction will be judged.

In parallel to the standard registration memory, the WERSI engineering continued to work on an even more versatile system which was to include so-called free combinations.

Now the WERSI DATA SOUND COMPUTER is here. Again, WERSI advances into new areas of technology.

## How the WERSI DATA SOUND COMPUTER works

You set up the organ in the usual manner, by selecting the stops and all modes of operation. By trying out the registration for a particular tune or passage you may change it until it fits perfectly.

The entire registration program can then be frozen into memory at the touch of a button. Anytime later, this organ setup can be recalled again by the same push button.

If you prefer not to load the registration memory yourself you can purchase pre-programmed memory boards from WERSI. In that case, you simply insert the plug-in boards into your Sound Computer and dozens of registrations are instantly available. You retain the option of overwriting any or all memory locations.

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## Program memory banks can be copied – they are mailable without battery packs

The memory contents are completely protected against accidental erasure and against power failure. During normal use of the organ no new registration programs can be written into memory. A key-operated switch is to be operated to activate the write mode. A strong blinking light indicates then that the Sound Computer is ready to accept a new program and more important – that the old program will be erased.

The actual memory banks are contained in so-called static EAROM's (Electrically Alterable Read Only Memory).

The retention of the memory contents does not require electrical power. That means that the Sound Computer is not affected when power is removed from the organ and that the memory boards are easily mailable. The memory content remains preserved for several years without power applied.

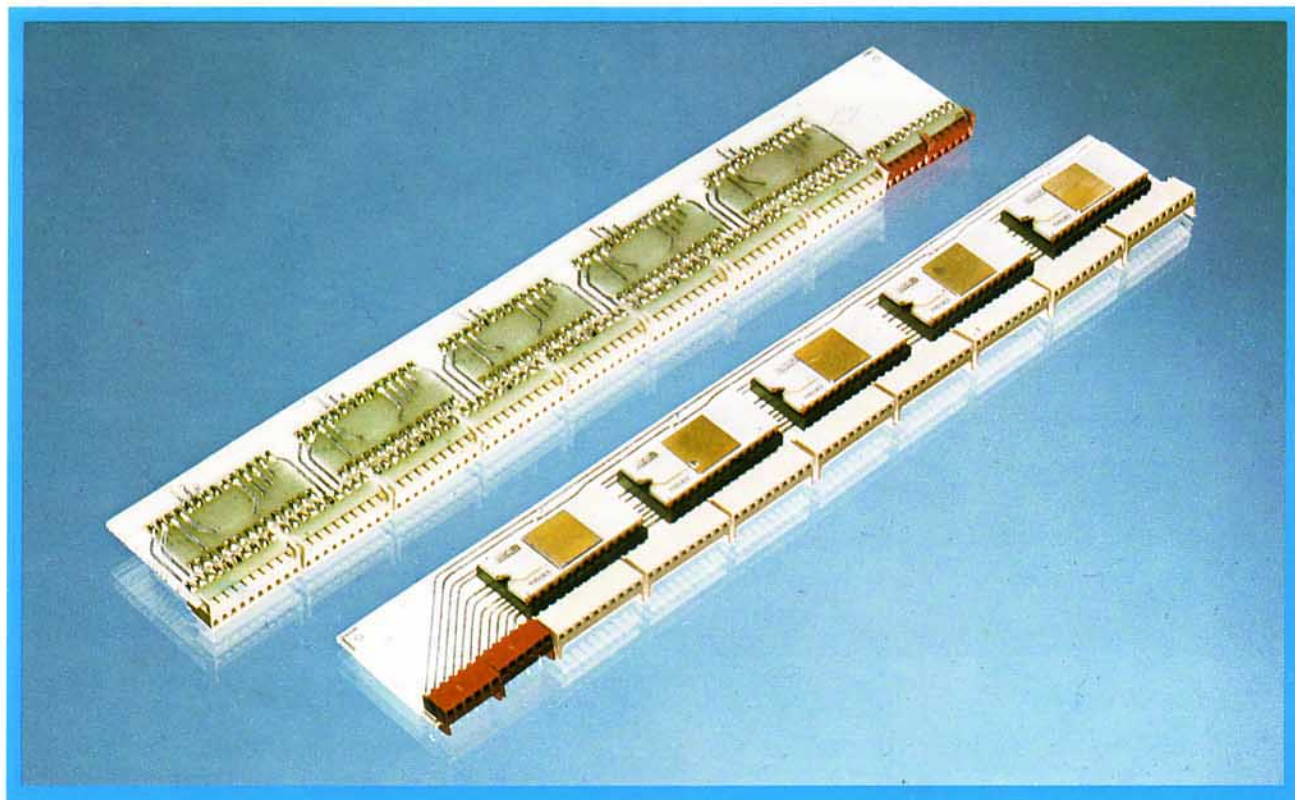
Memory banks can be copied right in your organ. This allows you to acquire new registrations be it from WERSI or from a friend. Conversely you can make your own programs available to third parties.

The programs can be written, read, copied and erased an unlimited number of times without any sacrifice in quality. LED lights and changeable labels on the control panel identify the current status.



## **New!** Programmable Drawbars

## **New!** A complete registration library on a plug-in-board



Using the example of the HELIOS organ model, the scope of the WERSIDATA Sound Computer shall be illustrated. There are a total of 32 program slots for the upper manual and an equal number for the combination lower manual/pedals.

16 of these slots in both banks are used for the so-called individual programs, that is, each manual can be programmed, erased or played under manual control independent of the other.

The remaining 16 slots in each bank are reserved for so-called master programs. A single master program button controls the registration of the entire organ. Additional memory boards can be plugged into the Sound Computer for the doubling of the number of programs. This enlarges the system into 32 programs for the upper manual, 32 programs for the lower manual and pedals and 32 master programs. Quite often, the second set of memory boards are used as a "scratch pad". One keeps the first set as a "permanent record" for the tested and proven programs while the second set contains the experimental setups which are not yet time-tested.

*The electronic memory of the SOUND COMPUTER on plated-through plug-in boards.*

The Sound Computer does not interfere with the setting of analog values. That means that volume controls certain speed and wah wah controls as well as the drawbars are to be adjusted manually. However, there is an add-on kit available which contains 6 pre-set-drawbar combinations. 5 of these are fixed by means of resistor values and one is adjustable by trimpots. There is a pre-set plug-in board for each set of drawbars, namely for upper manual, lower manual and special effects respectively.

These drawbar pre-sets can be included into the Sound Computer control making complete drawbar registrations available as if they were a single organ stop. Owners of the diode-programmed WERSIDATA may order the Sound Computer to update their organ with the latest achievements. Some modifications of the mechanical and electrical assembly are required. The construction and installation of the Sound Computer is easy and straight forward. The memory boards come pre-assembled and tested. The wiring is accomplished by means of a pre-fabricated harness.