SABER/SIGMA/S200 SOFTWARE UPDATE

Document: TYPE 1 Documentation sheets
Ref: DKAP0168.WPS

11/1/93

Please check the contents of this update Pack. You should have:

An EPROM (SABER/SIGMA/S200, V4.03), Installation instructions (attached to this document).

If you do not have these parts then please inform your supplier.

The installation of the new EPROM can easily be carried out by a non technical person. If for any reason you do not feel confident about undertaking the work, then call your supplier's technical support line, they will be able to offer further assistance.

Mention of 'S200' series consoles refers to three products: The ACE, The SABER 8, and the SPECTRUM. If you have one of these then sections marked 'S200' are for your attention.

NB. ALWAYS - Before removing the old EPROM check the orientation with the supplied installation instructions to ensure full understanding.

The following pages detail the differences in the new software and the installation procedures for the three models: SABER, SIGMA, & S200's.

V4.03 SOFTWARE details

1.   The update software improves on the existing Note
on/Note off MIDI implementation. A mute press will
transmit only note on codes. A message pair is sent
using running status:

9n,cc,ss,cc,00

where n is the MIDI channel number
      cc is the console channel number and,
      ss is the state of the mute -
      (1-3F = mute off, 40-7F = mute on)

2.   The console now powers up in mode 6 - MIDI off,
auto-increment off.

3.   Various timing problems with regard to chasing have
been tightened up.

SABER EPROM Installation

The new software is totally backwardly compatible with
your current version. The installation process will
destroy any patches or songs you have in memory. If
these are required make sure you dump them to an external
system before you start the installation.

The SABER Micro is located behind the master panel(M350).
Slide off the write on strip. Remove the M350 module and
at least four other modules to the left. This should
allow enough room to give reasonable access to the inside
back panel. The EPROM is housed in position IC2 (see PCB
overlay drawing).

Note the orientation of the existing EPROM (see overlay).
Remove with a screw driver or similar and replace with
the new.

The most common problems are bent pins and misaligned
pins.

When the M350 master module is back in place, power on
the console whilst holding down the clear key. This will
typically require two people. Turning on the system in
this way initiates a total reset and removes any evidence
of the previous version.

The display should show a single, non flashing zero. try
a couple of mutes and patch recalls. The console powers
up in mode 6, do not expect the display to auto-
increment.

MUTE PROCESSOR COMPUTER PCB ASSEMBLY

SIGMA EPROM Installation

The new software is totally backwardly compatible with
your current version. The installation process will
destroy any patches or songs you have in memory. If
these are required make sure you dump them to an external
system before you start the installation.

The SIGMA Micro is located on the right hand side panel,
at the rear of the console. Lift the meter bridge up and
remove at least four of the modules to the left. This
should allow enough room to give reasonable access to the
Micro. The EPROM is housed in position IC2 (see PCB
overlay drawing).

Note the orientation of the existing EPROM (see overlay).
Remove with a screw driver or similar and replace with
the new.

The most common problems are bent pins and misaligned
pins.

Once the EPROM is fitted and modules replaced, power on
the console whilst holding down the clear key. This will
typically require two people. Turning on the system in
this way initiates a total reset and removes any evidence
of the previous version.

The display should show a single, non flashing zero. try
a couple of mutes and patch recalls. The console powers
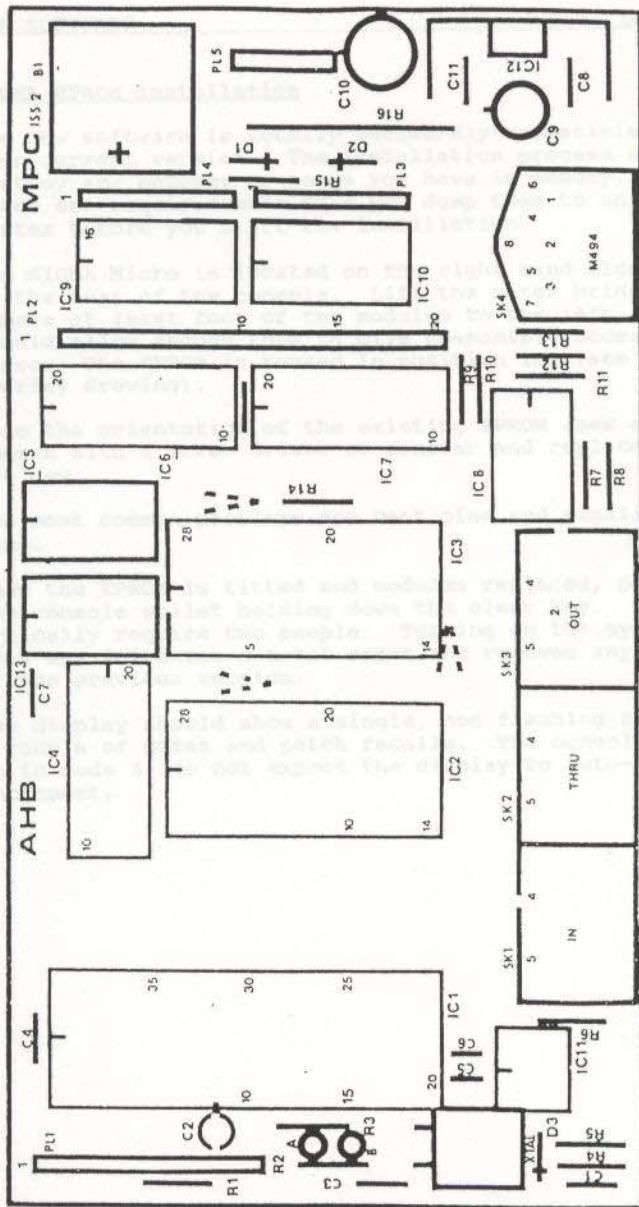up in mode 6, do not expect the display to auto-
increment.

MUTE PROCESSOR COMPUTER PCB ASSEMBLY

SERIES 200 EPROM Installation

This guide covers all the following products:

    SABER 8
    SPECTRUM
    ACE

The new software is totally backwardly compatible with
your current version. The installation process will
destroy any patches or songs you have in memory. If
these are required make sure you dump them to an external
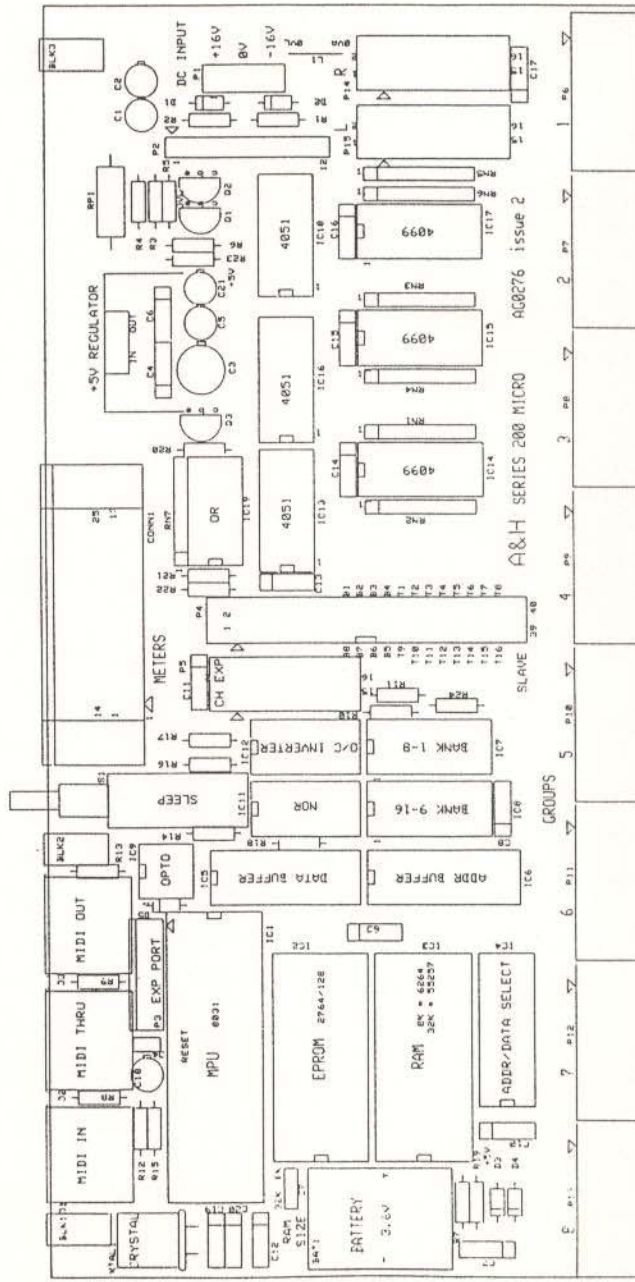system before you start the installation.

The S200 Micro is located on the underneath of the master
panel(M250). Remove the write on strip. Remove the M250
module and turn the module up-side down. The Micro is
then clearly visible and the position of the EPROM (IC2,
see PCB overlay drawing).

Note the orientation of the existing EPROM (see overlay).
Remove with a screw driver or similar and replace with
the new.

The most common problems are bent pins and misaligned
pins.

When the M250 master module is back in place, power on
the console whilst holding down the clear key. This will
typically require two people. Turning on the system in
this way initiates a total reset and removes any evidence
of the previous version.

The display should show a single, non flashing zero. try
a couple of mutes and patch recalls. The console powers
up in mode 6, do not expect the display to auto-
increment.

A&H SERIES 200 MICRO

A&H 0326 72070

AG0276 issue 2

COMPONENT PRINT   BY CD 5-12-90

FW089D

DC INPUT

+5V REGULATOR

METERS

MIDI IN
MIDI THRU
MIDI OUT

MPU 6031

EXP PORT

OPTO

EPROM 2764/128

RAM 8K = 6264 32K = 55257

ADDR/DATA SELECT

BATTERY - 3.6V

RAM SIZE

CRYSTAL

SLEEP

NOR

OR

CH EXP

O/C INVERTER

BANK 1-8

BANK 9-16

DATA BUFFER

ADDR BUFFER

SLAVE

GROUPS

4051
4051
4051

4099
4099
4099

+16V   0V   -16V

RESET