



## Updating a TS-10 or TS-12 for General MIDI

When the TS Operating System (O.S.) was changed from Version 2 to Version 3, the sizes of the EPROMs were changed from two 2Meg EPROMs to one 2Meg EPROM (OSROM Upper) and one 4Meg EPROM (OSROM Lower) to fit the extra software. When upgrading a TS from Version 2 to Version 3, you must make one cut, add one jumper, and move a zero ohm resistor on the digital board so that it can recognize the larger EPROM. The unit must have Version 2 or higher for SCSI to work and must have Version 3 or higher to have General MIDI.

### Tools Needed

- Phillips-head screwdriver
- continuity checker
- needlenose pliers
- razor knife
- soldering iron
- solder

<b>Table</b>	<b>of Contents</b>
<u>Section</u> <u>Description</u>	<u>Page number</u>
A	Parts Included in the Kit ..... 1
B	Getting Started (TS-10 and TS-12) ..... 2
C	Remove the TS-10 Bottom Cover and Digital Board ..... 2
D	Install TS-10 Digital Board, Check the Unit and Attach the Bottom Cover..... 3
E	Remove the TS-12 Bottom Cover and Digital Board ..... 3
F	Install TS-12 Digital Board, Check the Unit and Attach the Bottom Cover ..... 4
G	Changes to the Digital Board (TS-10 and TS-12) ..... 5
H	Disk Storage (TS-10 and TS-12)..... 6

### A. Parts Included in the Kit

<u>Quantity</u>	<u>Description</u>	<u>ENSONIQ Part number</u>
1	EPROM Kit	4095020X01 X=0 for TS-10, 5 for TS-12
1	zero ohm resistor	1003000005

#### Give to Customer:

1	General MIDI Logo Sticker	9270004001
1	Manual Addendum for Version 2.0	9311005501 (TS-10 only)
1	Manual Addendum for Version 2.01	9311005901 (TS-10 and TS-12)
1	Manual Addendum for Version 3 1	9311006001 (TS-10 and TS-12)
	TSD-300 disk	8511001101 (TS-10 and TS-12)