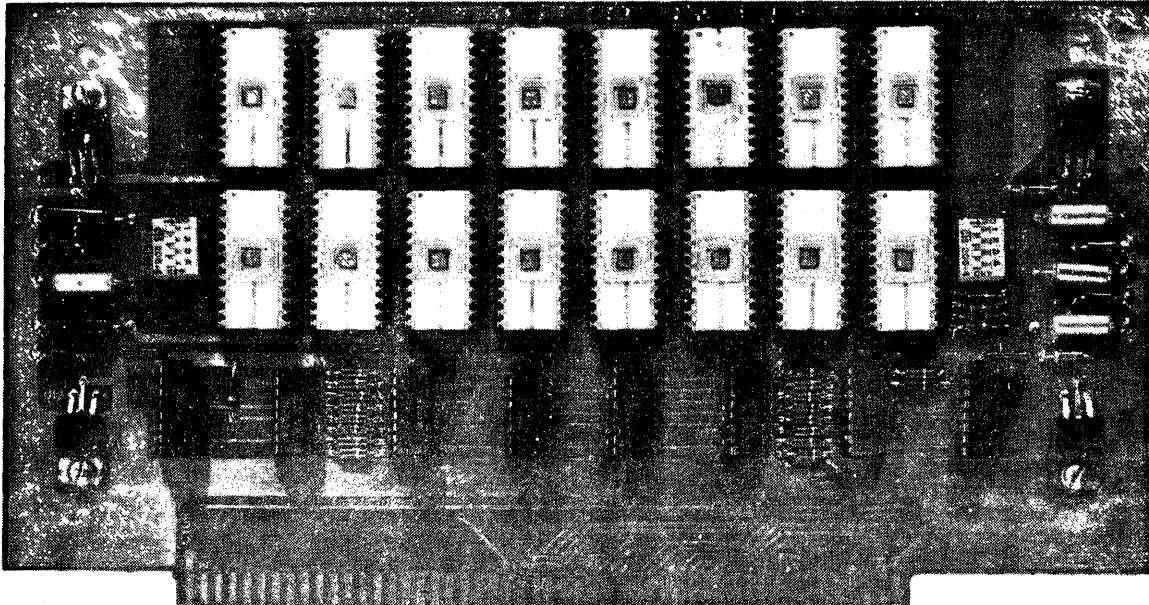


2K/4K EPROM BOARD

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DESCRIPTION & PRICES

- ALTAIR 8800 and IMSAI 8080 plug compatible
- Option of 2K (8) or 4K (16) 1702As
- Dip switch selection of addressing and wait cycles
- Reverse voltage protection
- On board regulators for +5 & -9 v
- All sockets included in kits
- Gold plated finger contacts

Complete Kit (less EPROMS) \$65.00

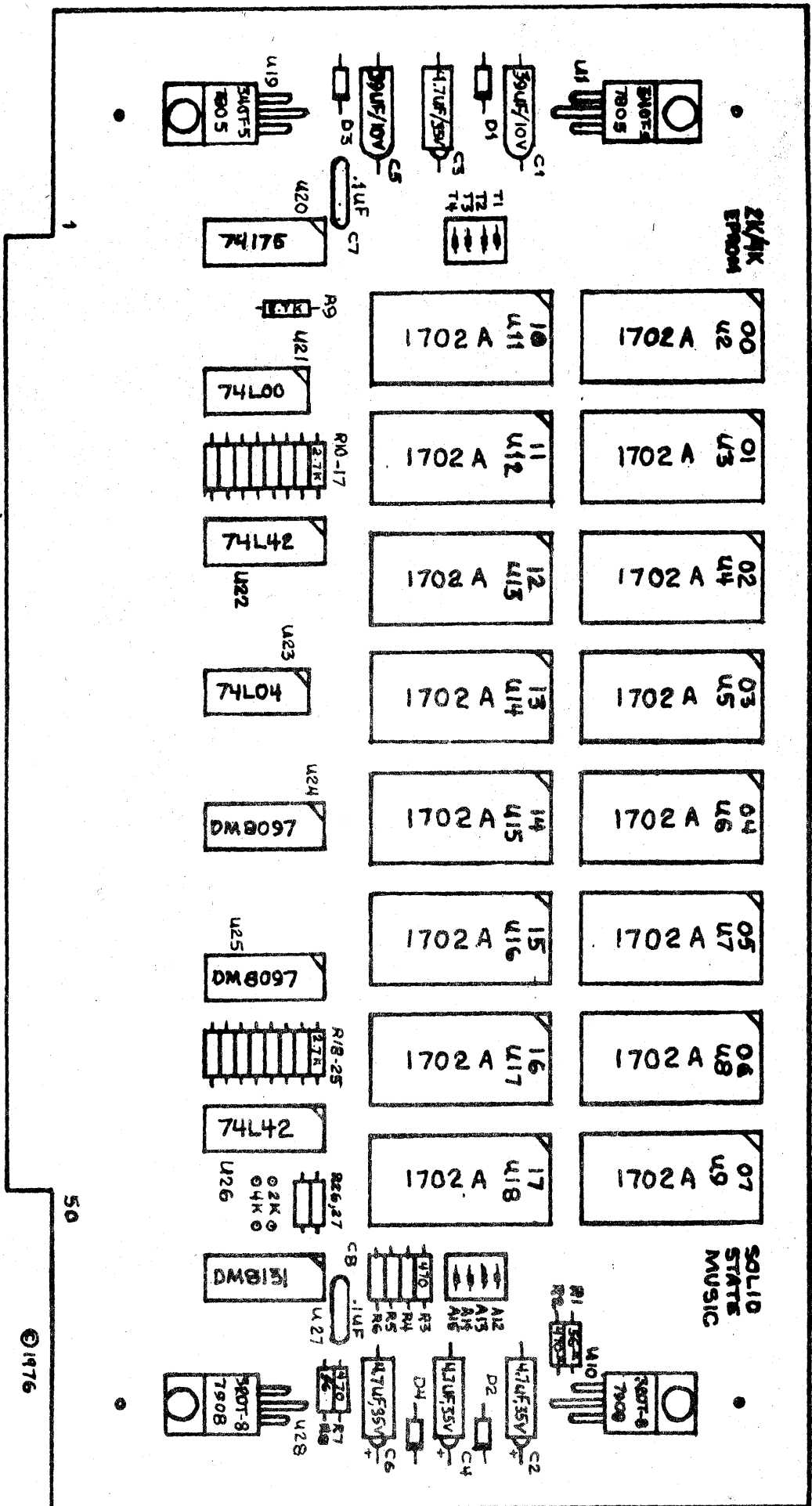
Complete Kit (8 EPROMS) \$145.00

Complete Kit (16 EPROMS) \$225.00

Prices include postage for U.S. and Canada. We ship UPS Blue Label when appropriate. UPS COD orders accepted. No credit cards please.

BASIC KIT LIST

- 2 CTS dip switches
- 16 24 pin low profile sockets
- 6 16 pin low profile sockets
- 2 14 pin low profile sockets
- 2 LM340T-5 regulators
- 2 LM320T-8 regulators
- 4 1N4001 diodes
- 2 56 ohm 5% resistors
- 6 470 ohm 5% resistors
- 19 2.7 K ohm resistors
- 6 tantalum capacitors
- 2 .1 ceramic capacitors
- 1 74L00
- 1 74L04
- 2 74L42
- 1 74175
- 2 DM8097
- 1 DM8131
- 1 PC board
- 4 sets #6 screws, nuts & washers



MB3 ASSY DWG
REV 0

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Solid State Music

MB-3 ASSY INSTRUCTIONS

1. Check the parts count with the packing slip.
2. Insert the 24-pin sockets in the PC board.
Be certain all pins are through the board before soldering.
- 2A. Place socket side of board on a flat surface and be sure that all sockets are flush with the board.
- 2B. Check to see if all socket pins are through the holes.
- 2C. Solder socket pins 1 and 24 on each socket. Check to see if sockets are flush with board, then solder remaining pins.
- 3A. Insert 16 pin sockets at U20, U22, U24, U25-U27.
- 3B. Insert 14 pin sockets at U21 and U23.
- 3C. Solder two pins of each socket as in 2C.
- 3D. Check for correct insertion - then solder remaining pins.
- 4A. Bend leads of 340T-5 (+5V REGS) to match pads at U1 and U19.
- 4B. If available, cover back surface of regulators with silicone grease.
- 4C. Install #6 screws from back side of board. Install nut and washer on component side.
- 4D. Solder leads to pads on reverse side of board.
5. Install 320T-8 (-8V REGS) in same manner.
6. Install 4ea IN4001 diodes as shown on layout drawing. Be certain that the cathode band is toward the pad with the dot. (These diodes protect the 1702As from damage by reverse voltage.)
7. Install and solder C1 and C5. Observe correct polarity. Round nose toward dot.
8. Install and solder C3. Observe polarity.
9. Install and solder C2, C4 and C6. Observe polarity.
10. Insert R1, R2, R7 and R8. Solder in place. (-9v reference dividers.)
11. Install and solder C7 and C8.
12. Install board in computer and measure regulator output voltage. +5v and -9v.

13. Install R9.
14. Install R10-R17, R18-R25 and R26-R27. (2.7K $\frac{1}{4}$ w)
15. Install R3-R6.
16. Install dip switches with the "on" mark toward the top of the board.
17. Insert and solder jumper for 2K or 4K option.

WAIT CYCLE SETTINGS (T1 Through T4)

1. All switches off: no wait cycle (500ns)
2. T1 on: one wait cycle (1us)
3. T2 on: two wait cycles (1.5us)
4. T3 on: three wait cycles (2.0us)
5. T4 on: four wait cycles (2.5us)

ADDRESSING (A12 Through A15)

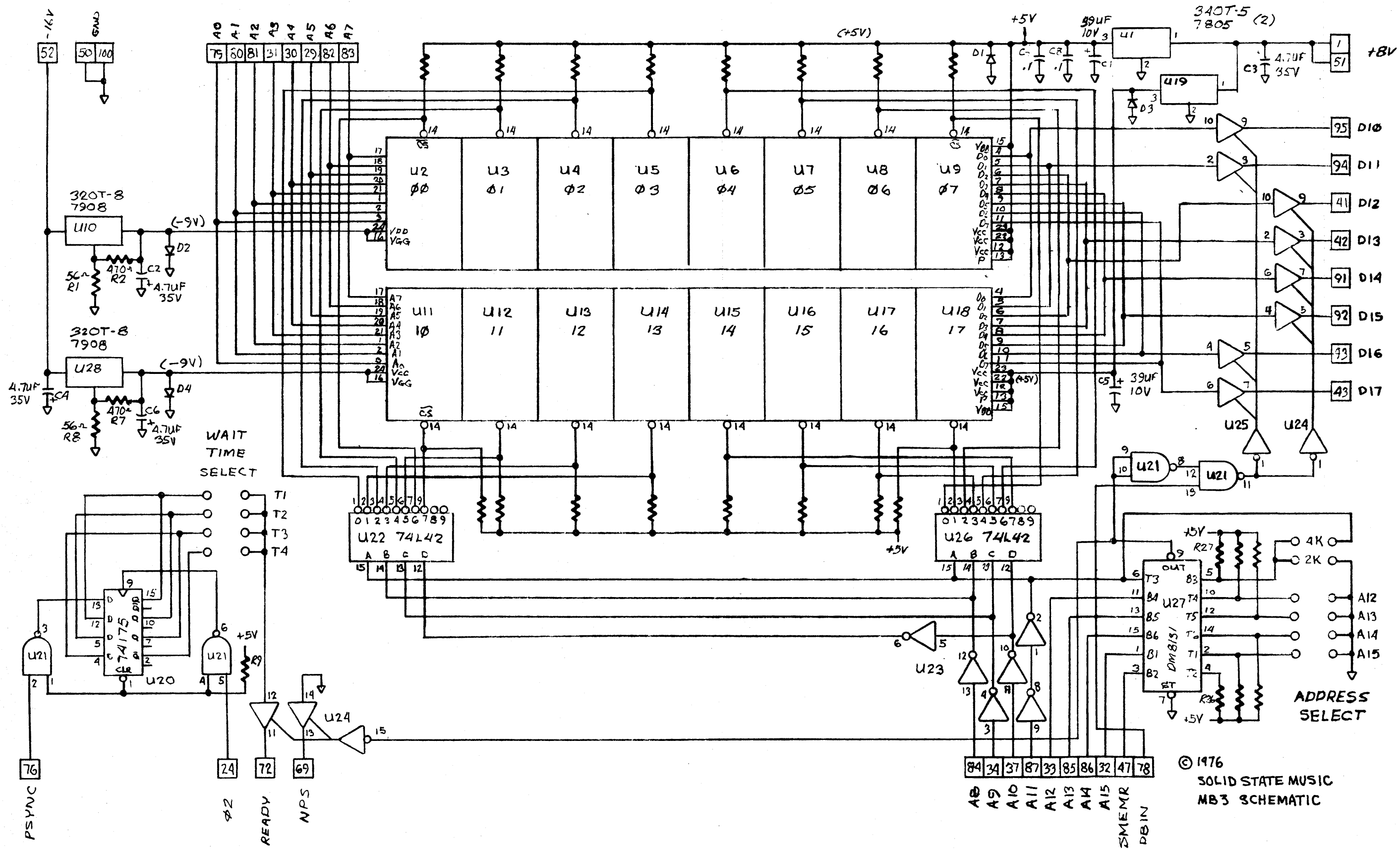
000 000 to 017 377	All switches on
020 000 to 037 377	A2, A3, A4 on
040 000 to 057 377	A1, A3, A4 on
060 000 to 077 377	A3, A4 on
100 000 to 117 377	A1, A2, A4 on
120 000 to 137 377	A2, A4 on
140 000 to 157 377	A1, A4 on
160 000 to 177 377	A4 on
200 000 to 217 377	A1, A2, A3 on
220 000 to 237 377	A2, A3 on
240 000 to 257 377	A1, A3 on
260 000 to 277 377	A3 on
300 000 to 317 377	A1, A2 on
320 000 to 337 377	A2 on
340 000 to 357 377	A1 on
360 000 to 377 377	none on

Warranty

Parts are guaranteed to original purchaser for 90 days. Send defective parts along with the board serial number (next to the top left regulator on the back of the board) for replacement. Registration card must be returned for warranty validation.

A completed board may be returned for service. The service charge is \$20.00, which will be waived if the problem is one that could not have been solved by reasonable effort on the part of the owner.

Our address: Solid State Music/ 2102A Walsh Ave./ Santa Clara, CA 95050



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