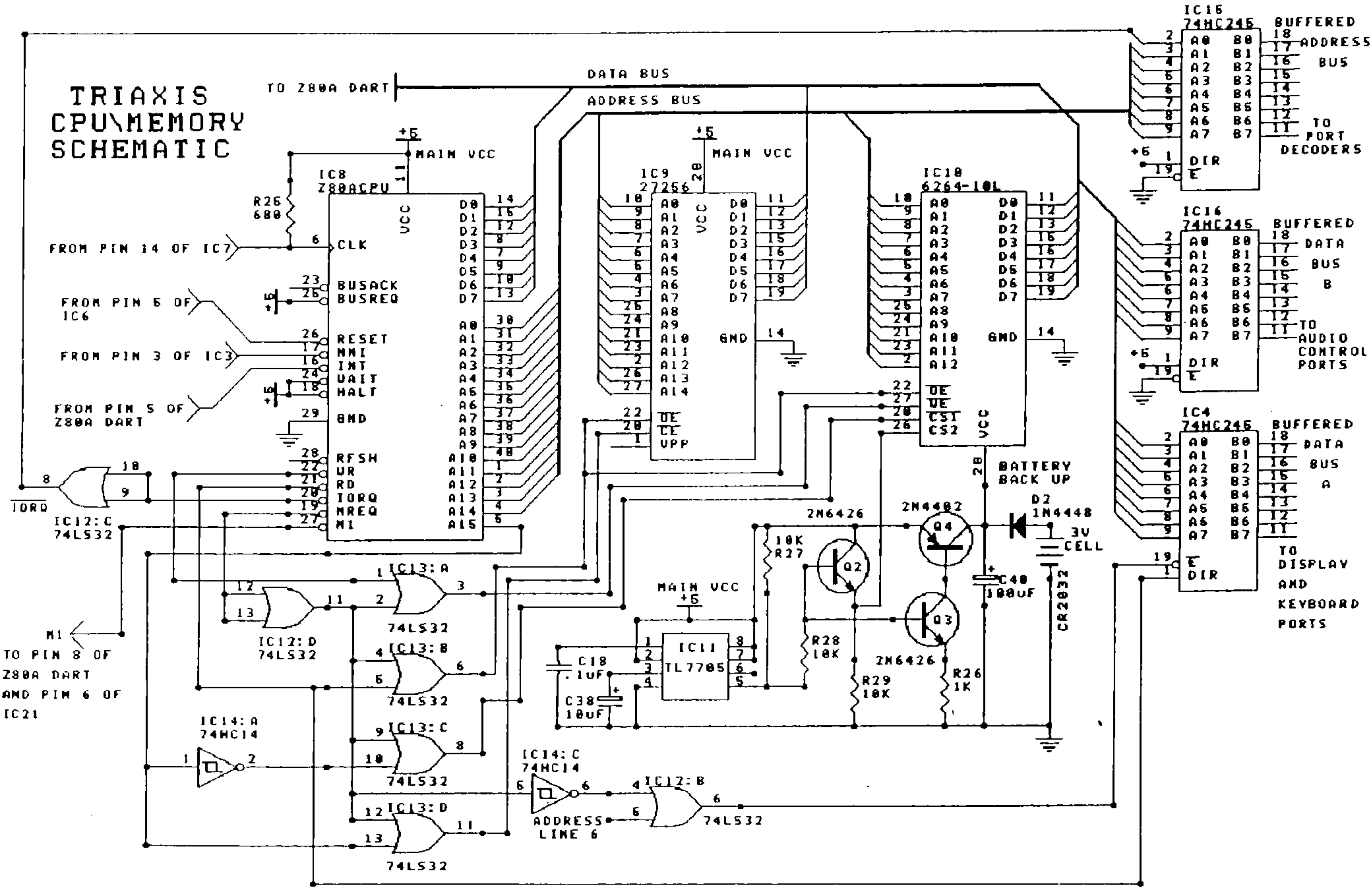
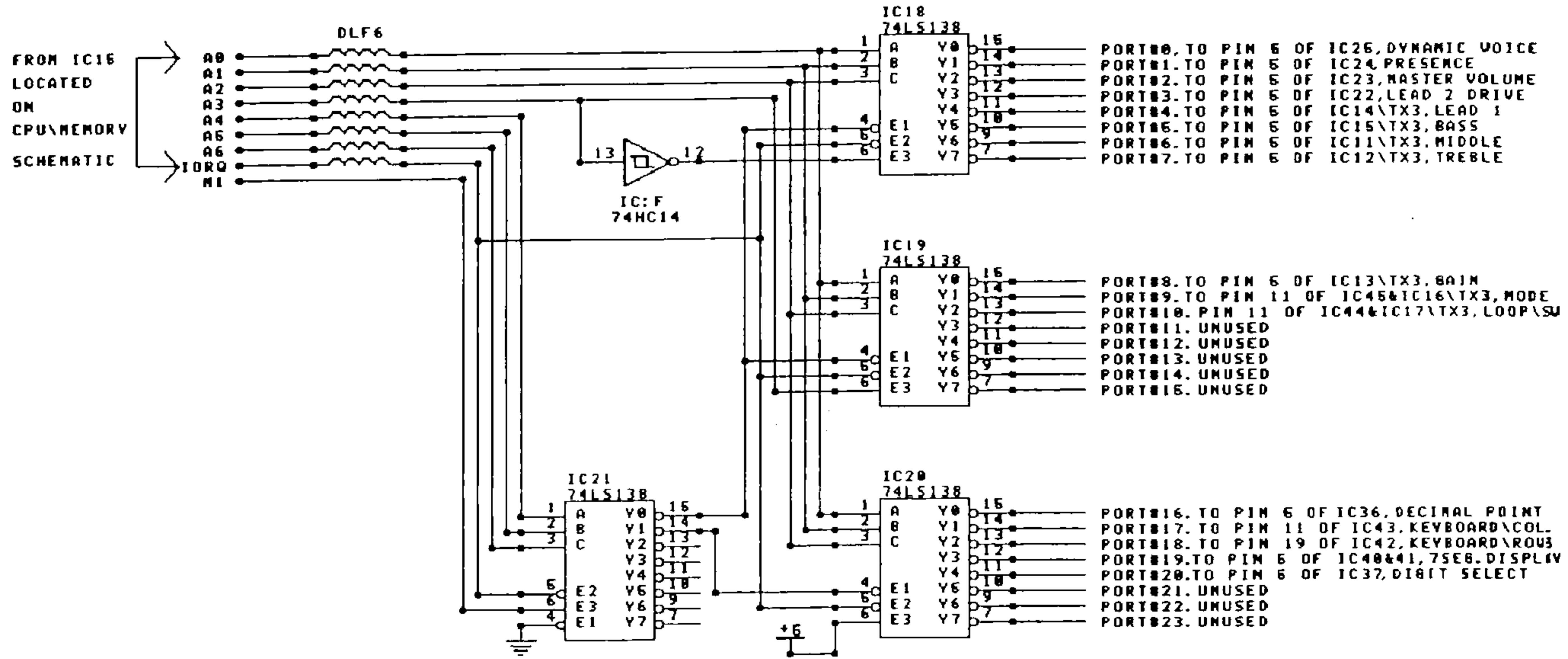


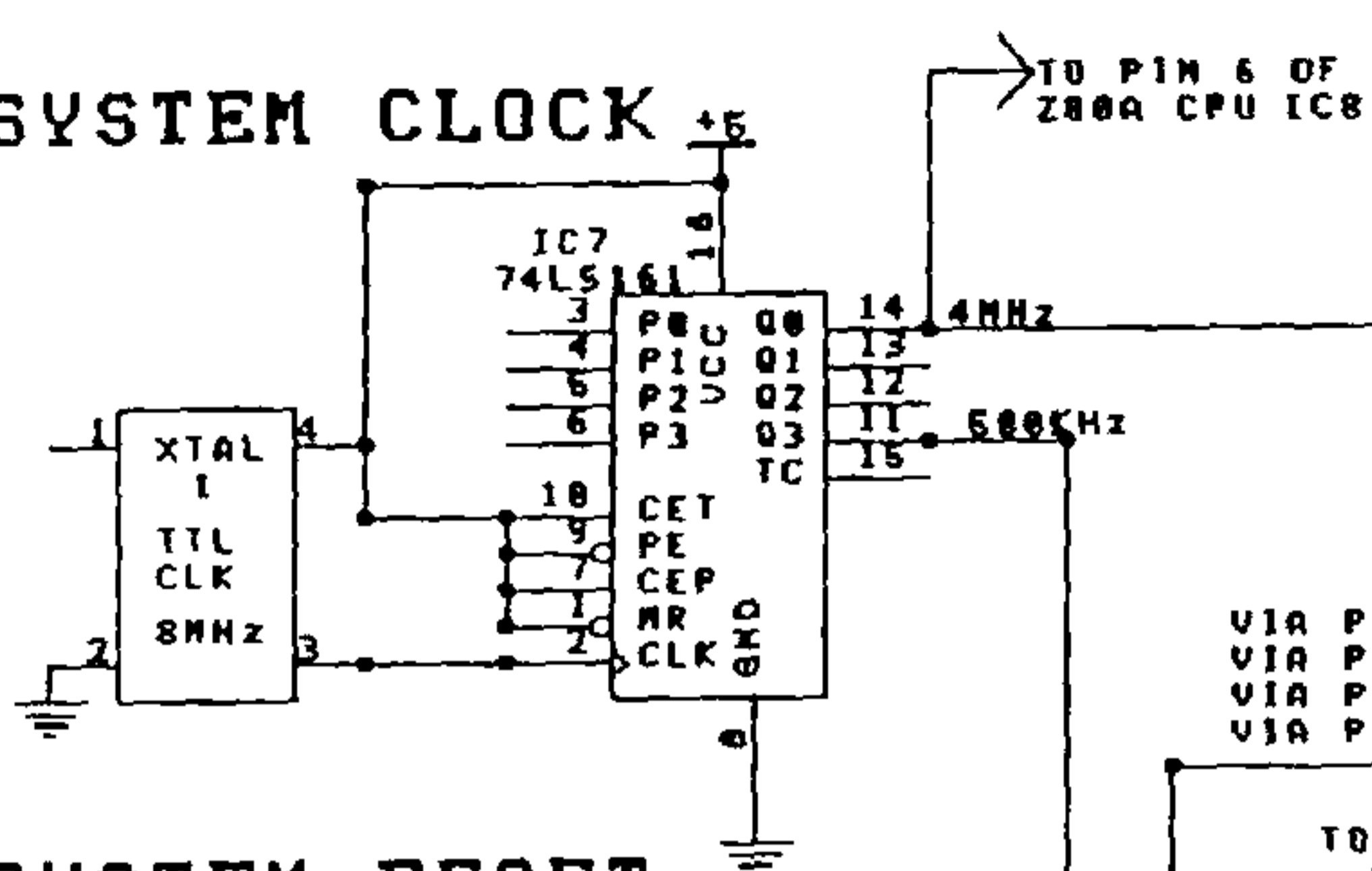
TRIAxis CPU/MEMORY SCHEMATIC



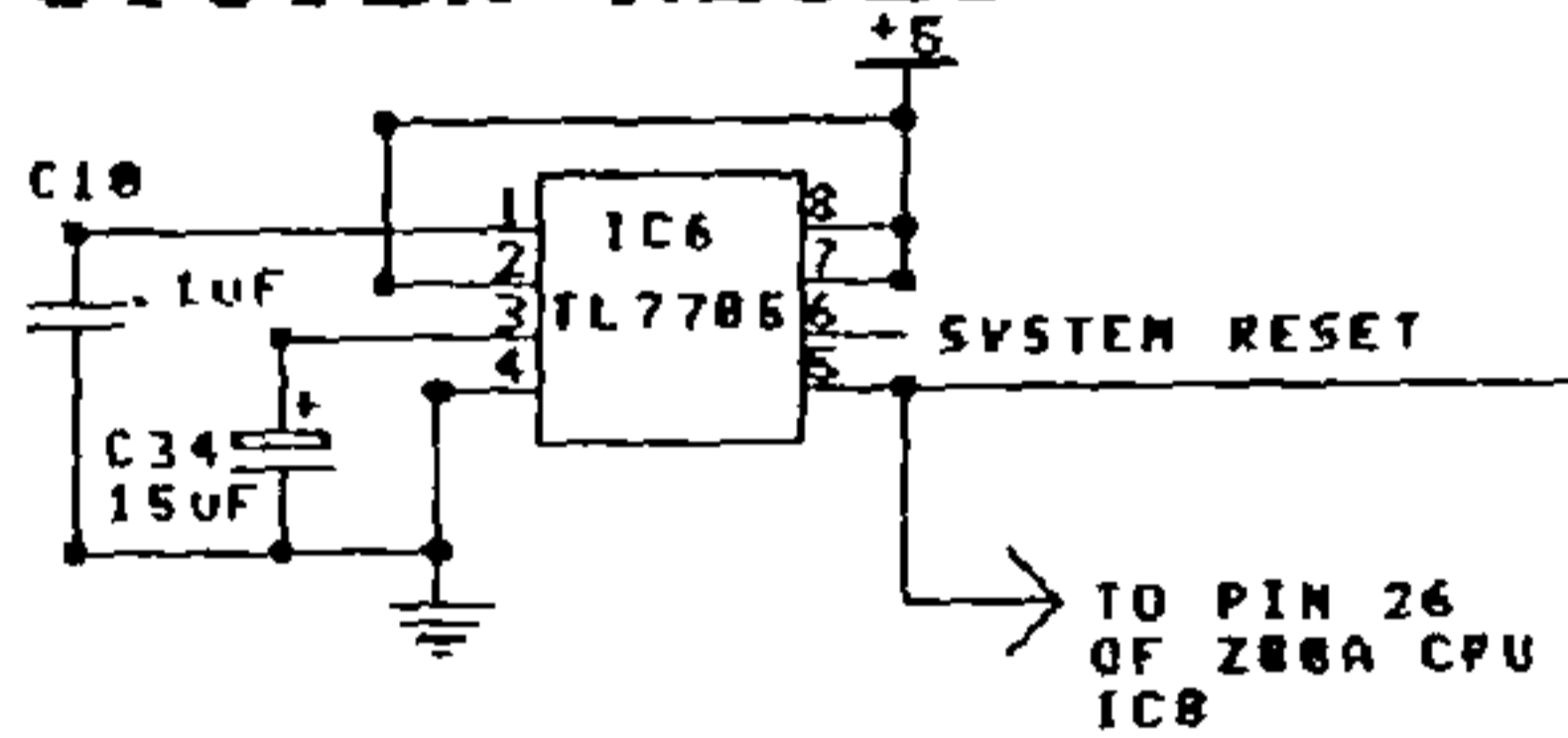
TRIAxis PORT DECODER SCHEMATIC



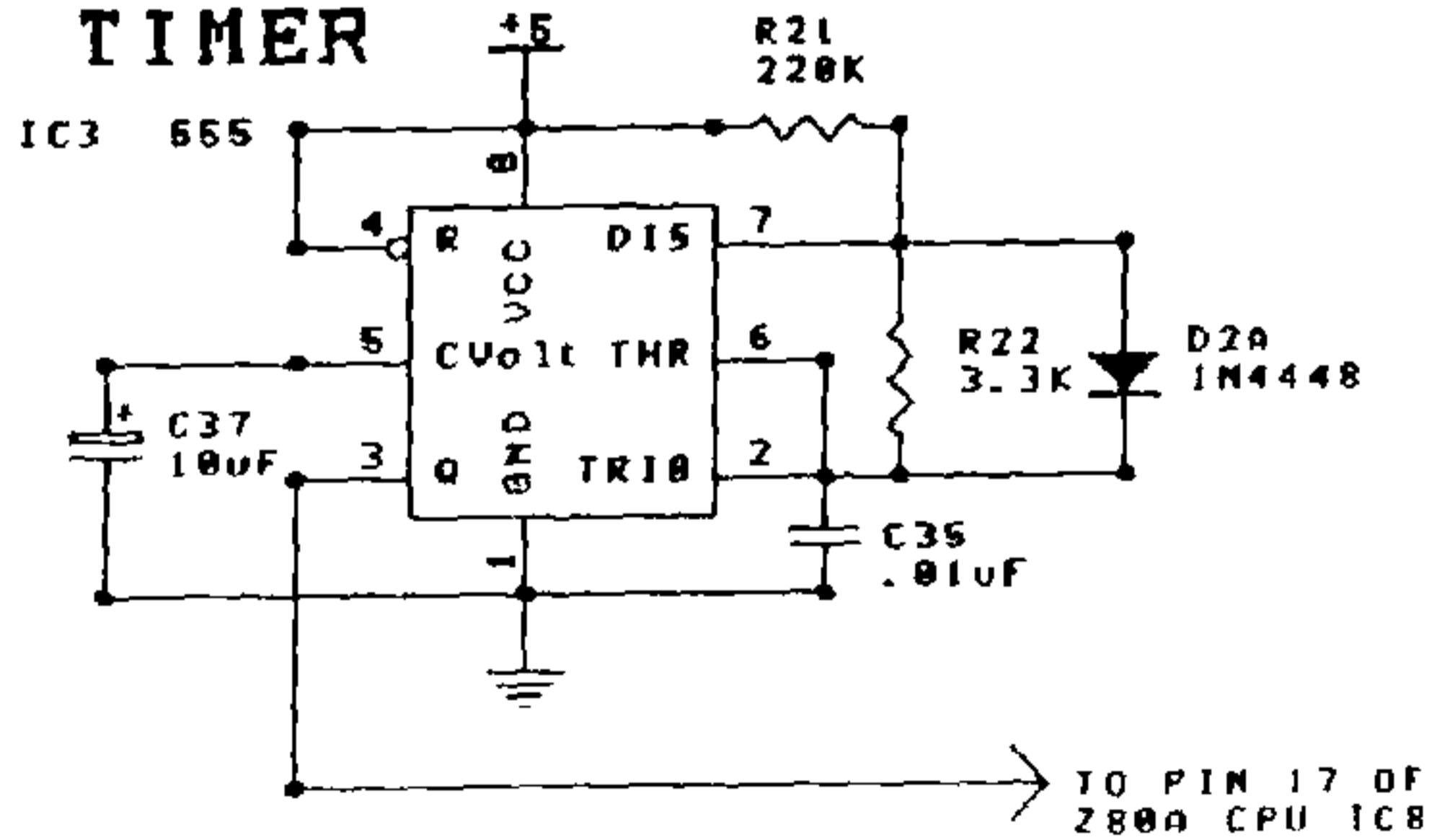
SYSTEM CLOCK



SYSTEM RESET



DISPLAY REFRESH TIMER



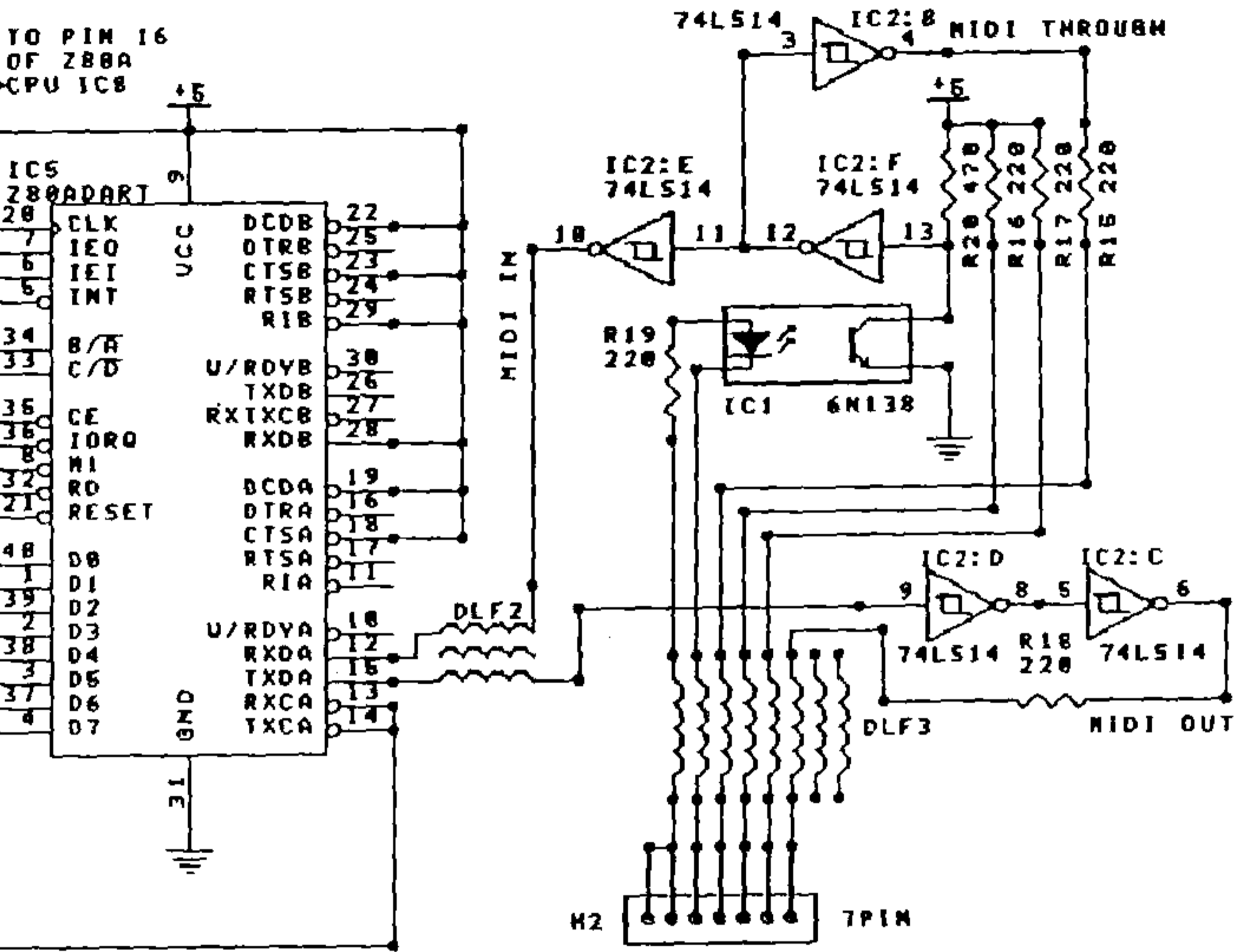
TO PIN 16 OF Z80A CPU IC8

TO PIN 16 OF Z80A CPU IC8

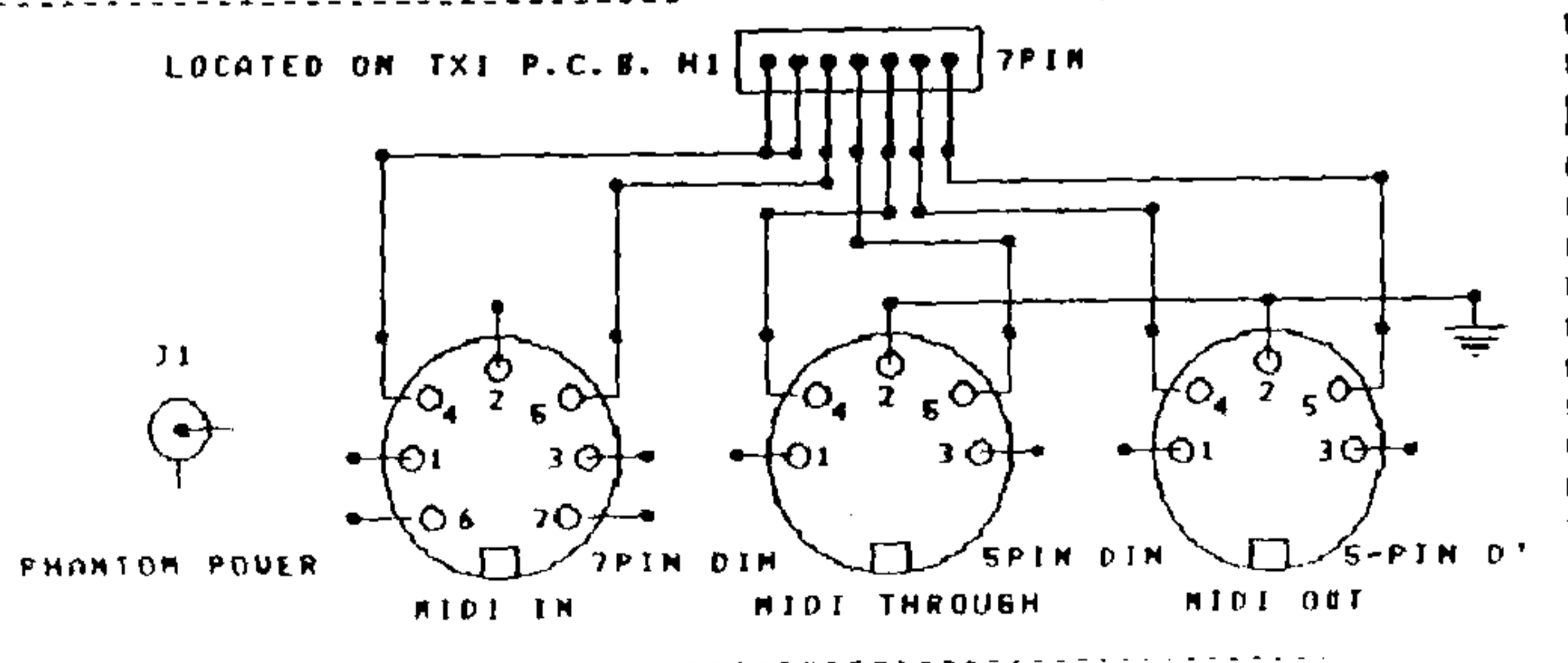
VIA PIN 12/IC14
VIA PIN 8/IC12
VIA PIN 27/IC8
VIA PIN 21/IC8

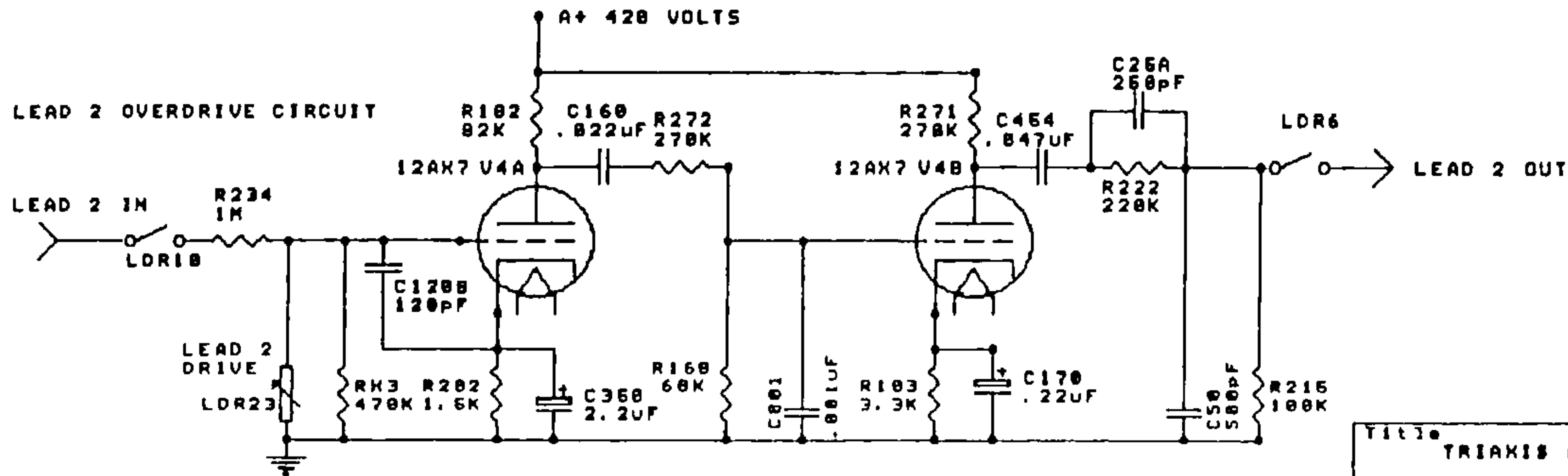
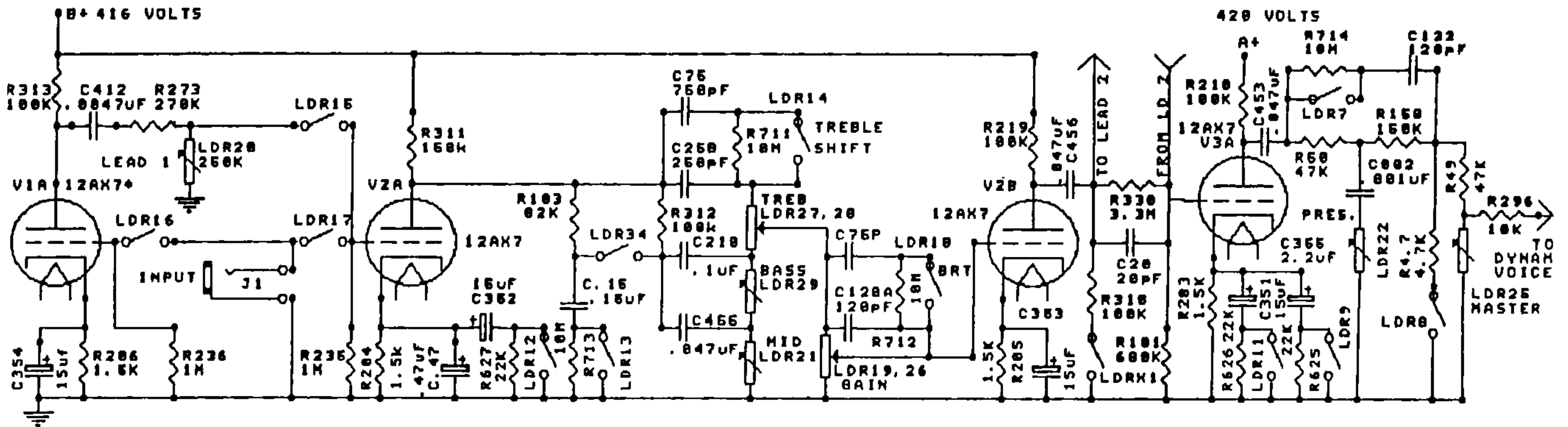
TO CPU/MEM. SYSTEM DATA BUS

MIDI INTERFACE

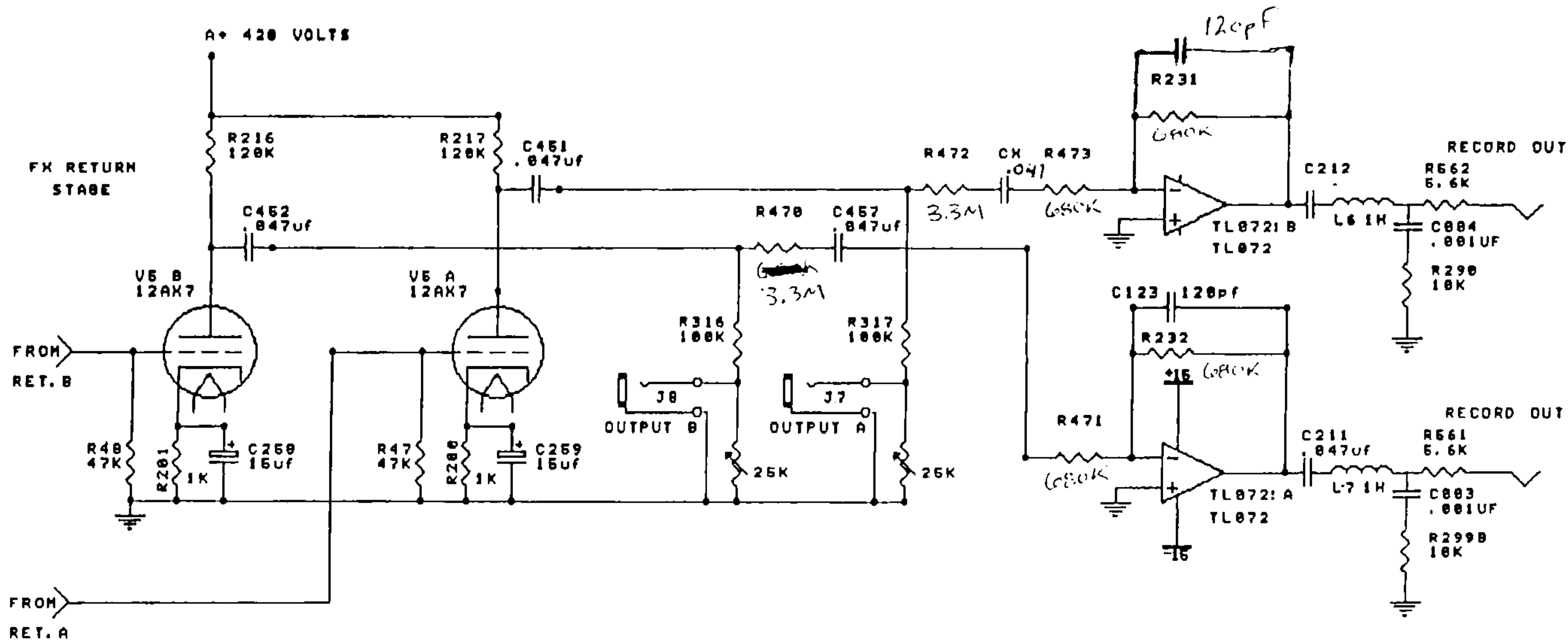


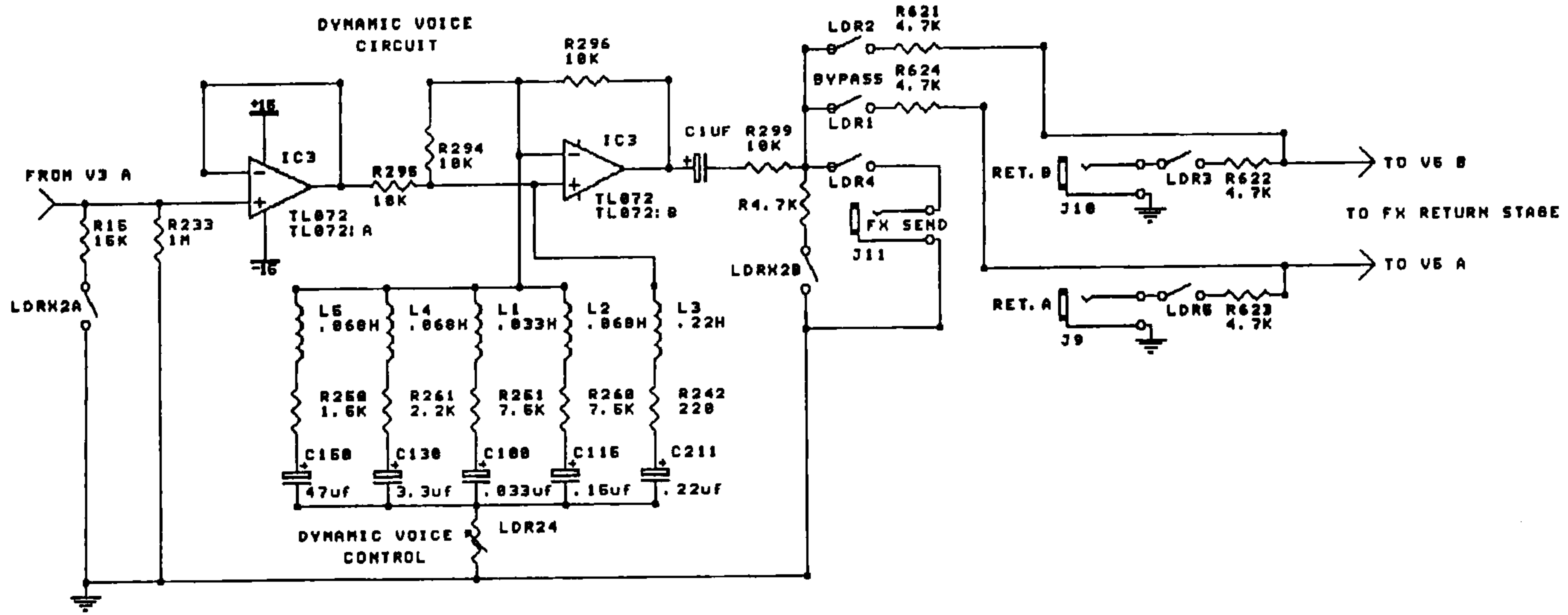
LOCATED ON TX1 P.C.B. H1

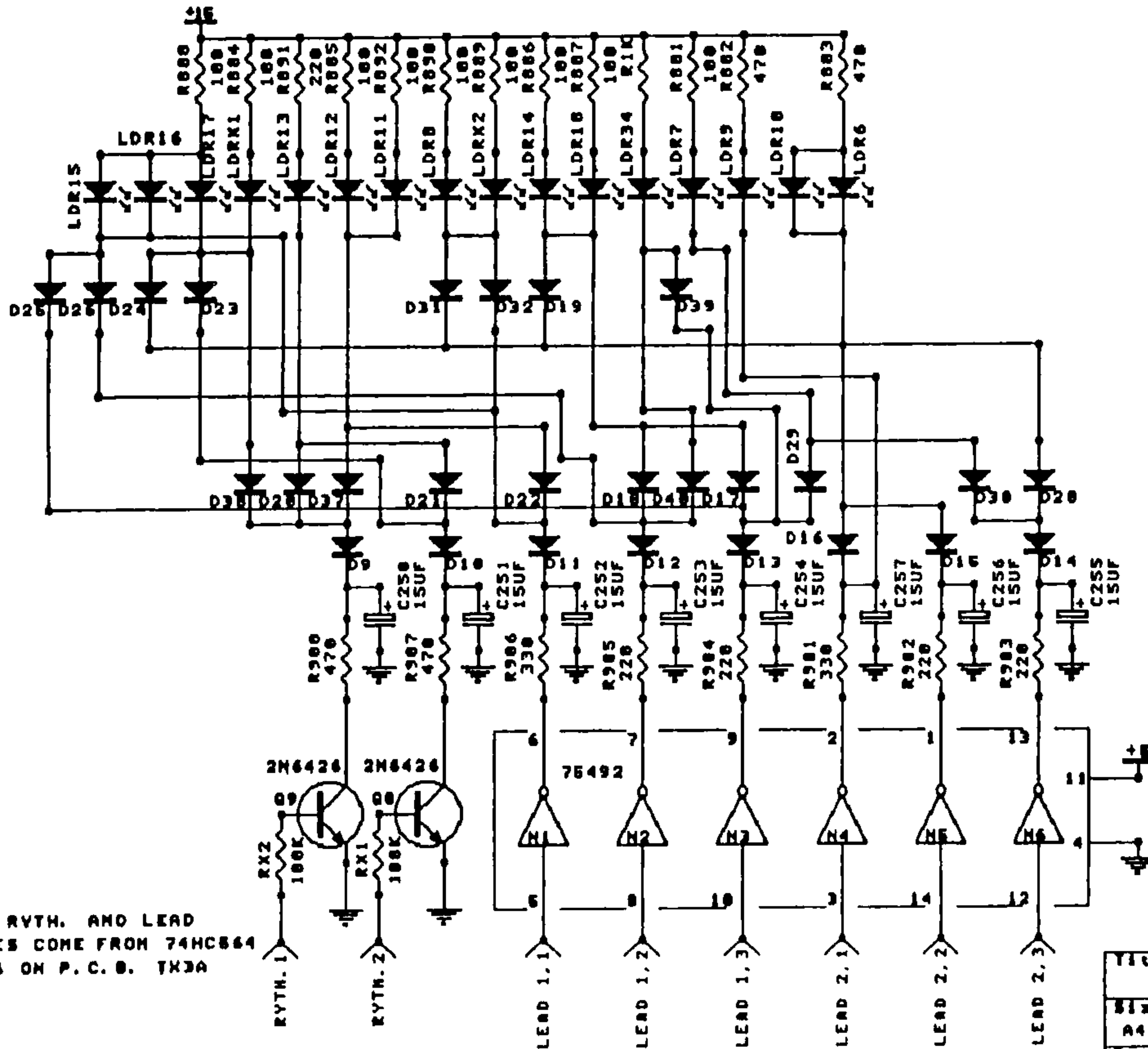




Title		
TRIAXIS AUDIO		
Size	Number	Revision
A4	1.00	1.00
Date: 18-FEB-1992	Sheet:	of 2



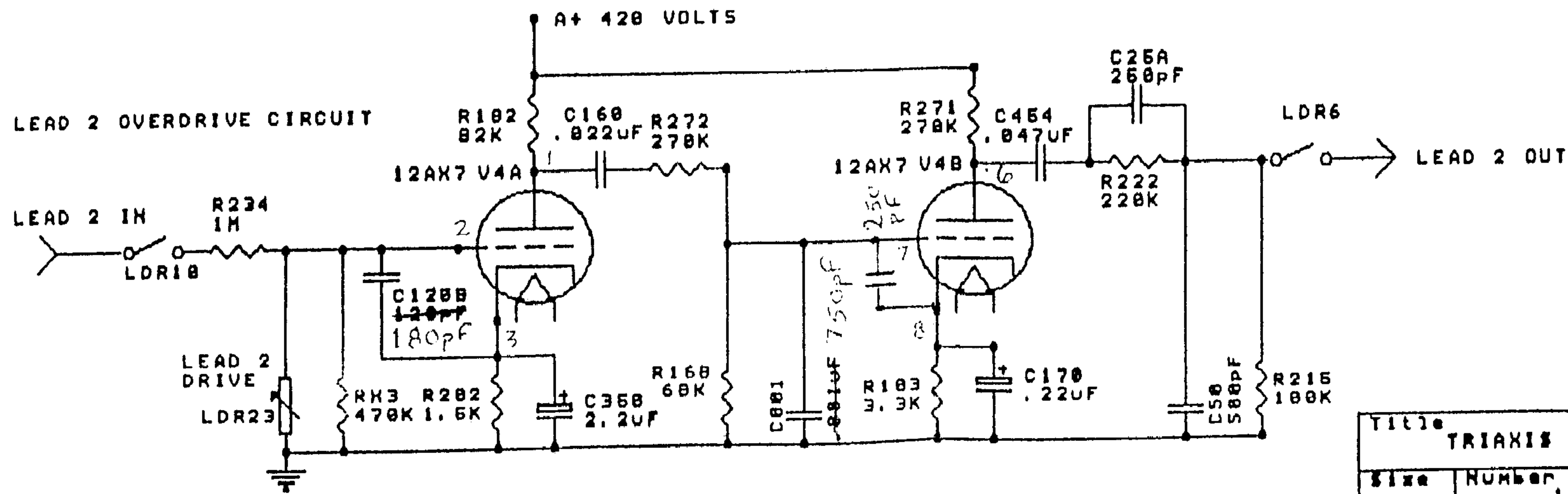
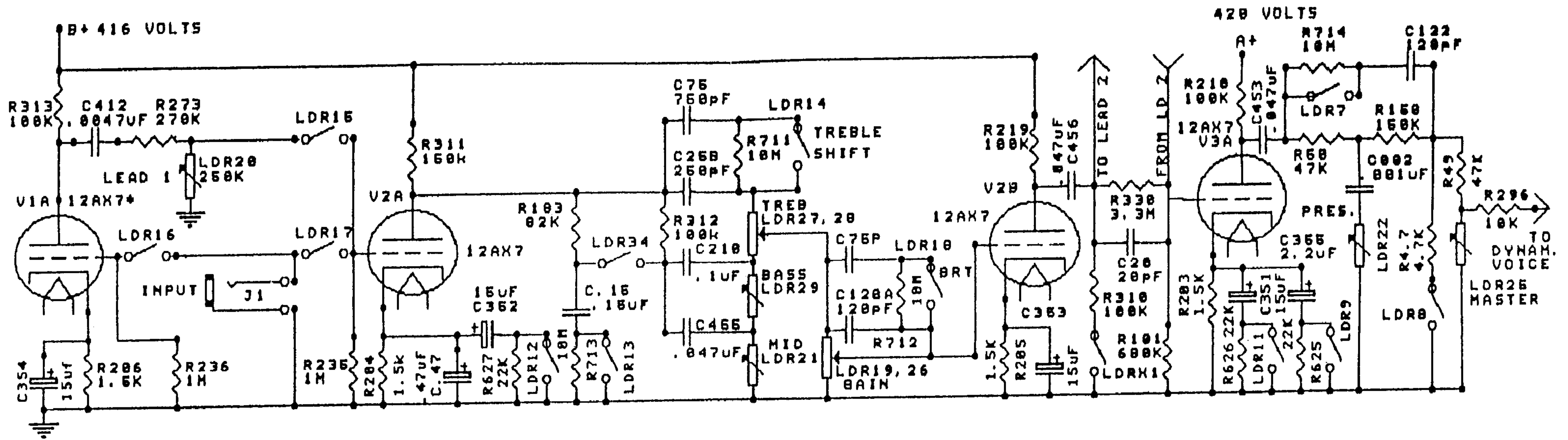




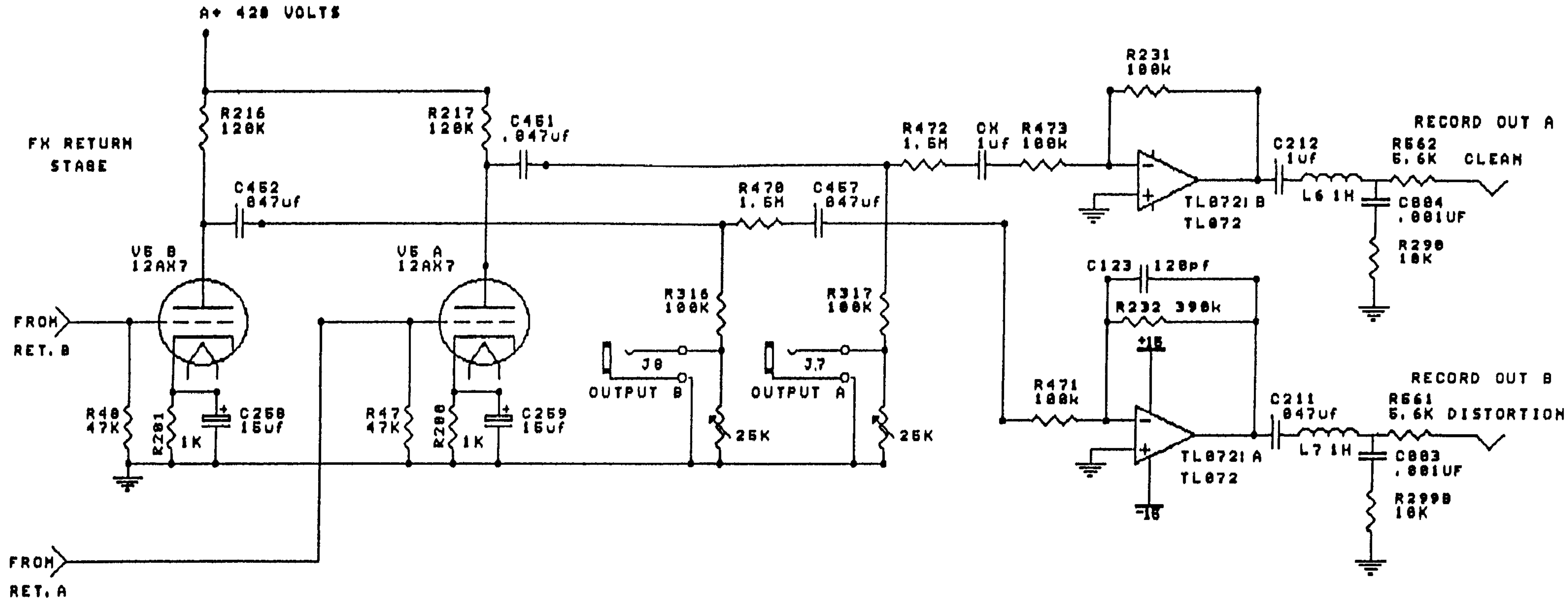
ALL RYTH. AND LEAD MODES COME FROM 74HC864 IC16 ON P.C.B. TX3A

LDR#	MODE\FUNCTION
LDRK1	RYTH. 1, 2, AND LEAD2 PAD
LDRK2	LEAD1, LEAD2 PAD
LDR6	LEAD2 OVERDRIVE OUTPUT
LDR7	LEAD1, LEAD2 VOICING #3 SHRED
LDR8	LEAD1, LEAD2 PAD
LDR9	LEAD2, VOICING#1 MID GAIN
LDR10	LEAD2 OVERDRIVE INPUT
LDR11	RYTH. 1, LEAD1 V3 BASS BOOST
LDR12	RYTH. 1, LEAD1 V2 BASS BOOST
LDR13	RYTH. 1, RYTH. 2 TONE PAD
LDR14	LEAD1 VOICING#2, #3 AND LEAD2
LDR15	LEAD1 OVERDRIVE OUTPUT
LDR16	LEAD1 OVERDRIVE INPUT
LDR17	RYTH. 1, RYTH. 2 AND LEAD2 INPUT
LDR18	LEAD1 VOICING#2, #3, LEAD2 BRIGH
LDR34	LEAD1 VOICING#2, #3 BASS SHIFT

Title TRIAXIS DIODE/LDR SWITCHING MATRIX		
Size A4	Number 1	Rev 1
Date: 28-MAR 1989		



Title		
TRIAXIS AUDIO		
Size	Number	Revision
A4	1.00	1.00
Date: 18-FEB 1992	Sheet: 1	of 2



MESA/BOOGIE

The Spirit of Art in Technology

5/21/92

TRIAxis MODIFICATION UPDATE

Dear TriAxis Customer/Dealer,

Enclosed you will find 3 sheets detailing 4 possible modifications to the TriAxis, and a cover sheet explaining the disassembly. Please note the following:

1. The Presence Modification need only be considered if the user feels their preamp is too bright for them.
2. The "Regulators" modification is preventive in nature, but should be done if the TriAxis is for any reason disassembled on your bench.
3. The other two mods have to do strictly with units exhibiting specific symptoms, and those are:
 - A) All modes or loop/SW lights randomly come on during front panel key entry.
 - B) After power up, unit will not receive Midi program change information.

Based on customer feedback on a significant number of units, we believe these mods take care of any glitches that anyone has encountered. Any questions? Please refer them to Dan Van Riezen at MESA/Boogie, 707-778-6565.

We appreciate your cooperation in advance, and we value your assistance. Thanks.

Sincerely,

MESA/Boogie, Ltd.

DISASSEMBLING THE TRIAXIS PREAMP

STATIC CAUTION: When unit is apart take CMOS precautions.

1. Remove the Top of unit by unscrewing the 14 screws holding top on.
2. With the Top off you will see a small metal box mounted to the circuit board closest to the front of unit.
 - a) If you have a unit that has a copper colored piece of tape covering a small hole on this metal box then peel off this tape. Then remove the screw directly visible through this hole that is mounted to the circuit board.
 - b) If you have a unit that does not have copper tape covering hole on small metal box then just remove the two #6-32 screws mounting this box to the circuit board.
3. Carefully lift the small circuit board that is mounted on top of the large circuit board closest to the front of unit. To do this you need to take a pair of needlenose pliers and carefully squeeze plastic stand offs while lifting the circuit board.
4. Now that the small circuit board is lifted, remove the last 6-32 screw that is mounting the small metal box to the circuit board.
5. There are 4 more #6 screws that need to be removed before the bottom of unit can be taken off. These screws are located on the large circuit board that is closest to the back panel. The first screw is located directly behind Midi Out jack, the second screw is located at the center back edge of this circuit board just behind V5. The third screw is located at the center front edge of this same circuit board, just to the right of the 18 conductor ribbon cable when facing the front of unit. The fourth and last screw is located in the right corner of this circuit board adjacent to the header and plug from the toroidal Transformer. With these screws out, the bottom can be removed by unscrewing the fourteen screws on the bottom.

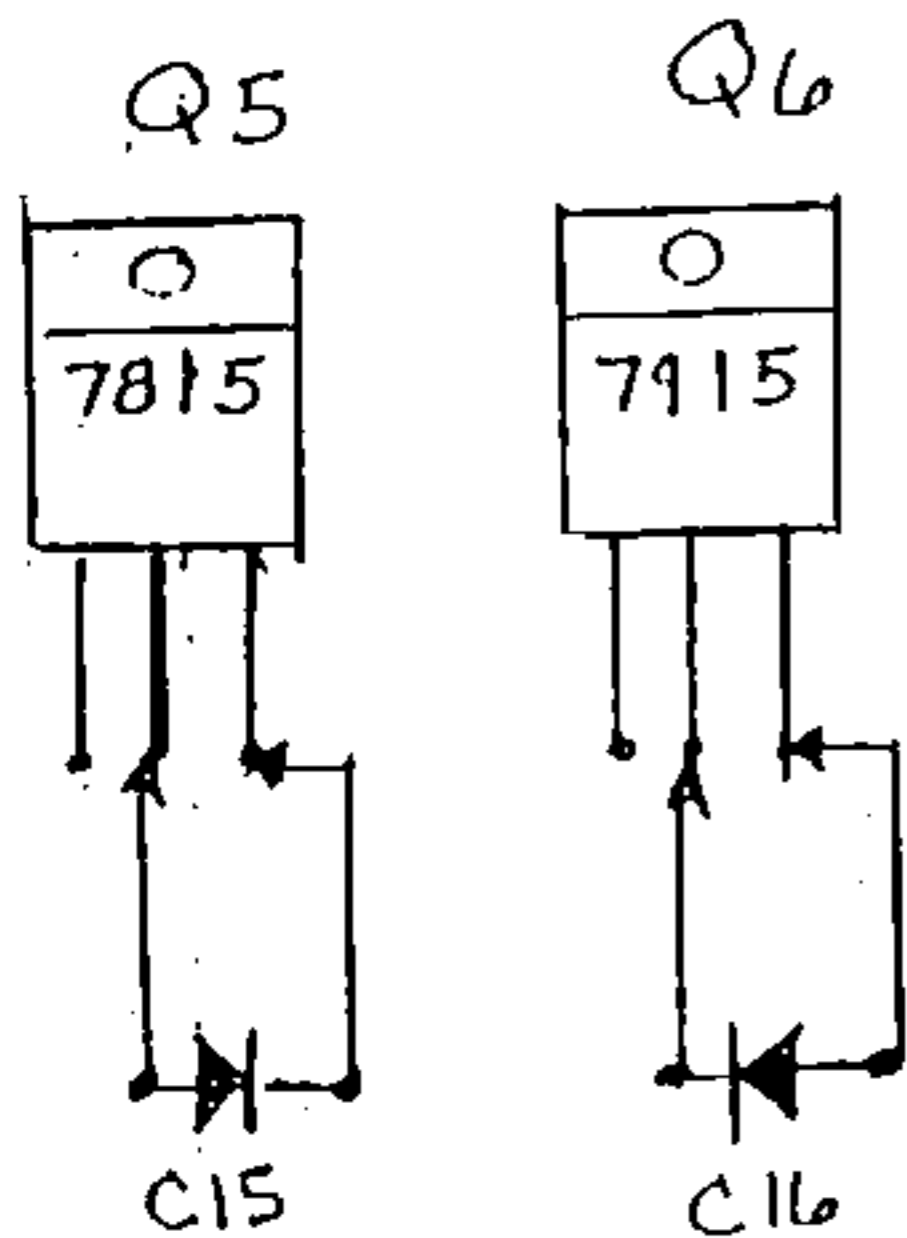
May 5, 1992

TRIAxis PRESENCE MODIFICATION
(To Trim Brightness)

- Step 1.) Remove the top of the unit (¹⁴~~18~~ screws).
- 2.) With top off and Front Panel facing you, locate the large circuit board is closest to the back panel.
- 3.) In approximately the center of this circuit board locate IC 4, a TL072 OP amp.
- 4.) Adjacent to IC 4 is a 10uf capacitor identified as C6. This capacitor should be replaced by a .1uf monolithic or small ceramic disc type capacitor.
- 5.) Now locate the Blue trimpot that is just below C6 - it's the one with the "P" silk screened next to it on the circuit board. You will need to adjust this trimpot in Step #9 with a small screwdriver.
- 6.) Just above and to the right of C6 locate C002, a .001uf capacitor.
- 7.) With C002 located you now need an OHM meter. Connect OHM meter to the lead on C002 that is closest to C6 (when facing the unit this would be to your left). Now connect the other lead of the Ohm meter to a ground point on this circuit board. (For instance, the shield wire in any of the shielded cables that run from the small tube circuit board.)
- 8.) Now power up the TriAxis and the Ohm meter, and set the Presence Control on the Front Panel of the TriAxis to 5.0.
- 9.) With the TriAxis Presence now set to 5.0 adjust the Blue Trimpot that you located in step #5 by turning the small brass screw on the top of this trimpot clockwise until your ohm meter reads $86K \Omega$. This now completes the modification to the Presence Control, so turn the power off and put the top back on!

"TRIAXIS Modification" — Regulators —

5-11-92



THESE Two Regulators Q5 & Q6 are Located ON the Far right hand corner of the circuit BOARD that is closest to the toroidal Transformer.

The modification requires replacing C15 and C16 with 1N4007 or 1N4006 power Diodes.

This will prevent any possible Latch up in the ± 15 Volt regulators!

* If you have any questions call MESA and ask For Dan Van Rietzen 707-778-7282