

GROUP CENTRE INC.

P.O. Box No. 1444, Reseda, California 91335

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U.S.A. SERVICE NOTES:

SERVICE NOTES --- SDS V MODULE REPLACEMENT

20/02/82

When removing or replacing modules make sure that the black locating key is still in position in the centre of the connecting block. The keys can sometimes fall out when a module is removed. Failure to locate the module properly will mean the module will not work and may prevent the rest of the unit from functioning.

Factory sounds can be changed by adjusting the following pre-set controls:-

Noise pitch = R18
Tone pitch = R17
Bend = R1
Decay = R5
Click bal = R13
Noise-tone bal = R9
Left/Right bal = R28

It is advisable to remove the screws from the adjacent modules to facilitate easy removal of modules.

It is unnecessary to remove the two slotted screws in the front panel only the four corner posi-drive screws. The Mix module on the right hand side cannot be removed until the 26 fingers are de-soldered from the Buss board running along the back of the rack.

Do not fit cymbal or hi hat in Channel 1 position as the 5v regulator on the piggyback board could short on the left hand cheek of the chassis.

It is not recommended that more than five cymbals or hi hats are fitted in any one rack. Contact the factory for a higher powered rack if seven cymbals are required in a rack.

OTHER SERVICE ADJUSTABLE PRE-SETS

R27 Filter Q (resonance)
R25 Filter (Dynamic Sweep)

PLEASE NOTE
Our New Telephone No.
213-884-2653

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OTHER SERVICE ADJUSTABLE PRE-SETS:/CONT....

- R71 Noise generator gain
- R26 Oscillator modulation depth (Snare only)
- R28 Stereo Left/Right balance

PRE-SET ADJUSTMENTS FOR DIFFERENT MODULES:

The noise, tone, bend, decay, noise tone, click drum, (factory pre-sets numbers R18, 17, 1, 5, 9 and 13) are set for a pleasing factory sound. Other pre-sets are set according to the module type as follows:-

All pre-set positions viewed from top

BASS

- R25 3/4 clockwise
- R28 1/2 way
- R27 (if fitted) Fully anti-clockwise
- R26 (if fitted) Fully anti-clockwise
- R71 Set for equal noise and tone volume

SNARE

- R25 Fully anti-clockwise
- R28 1/2 way
- R27 2/3 clockwise
- R71 Set for slightly more noise than tone
- R26 1/2 way

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PRE-SET ADJUSTMENTS FOR DIFFERENT MODULES:/CONT...

HIGH TOM TOM

- R25 3/4 clockwise
- R28 7/8 clockwise
- R27 (if fitted) Fully anti-clockwise
- R71 Slightly less noise than tone
- R26 (if fitted) Fully anti-clockwise

MED.TOM TOM

Same as high tom tom except

- R28 1/2 way

LOW TOM TOM

Same as high tom except

- R28 7/8 anti-clockwise

Note: Extra tom toms can be incorporated into the rack. The stereo image of each tom should be adjusted by R28 accordingly.

HI HAT (DIGITAL)

- R28 7/8 clockwise
- R71 Set for equal noise and tone

CYMBAL

- R28 1/2 way or where desired if two or more cymbals in a rack.
- R71 Equal noise and tone

If two or more cymbals are fitted to a rack it may be desirable to have different bell pitches. This can be achieved by raising or lowering the value of the 820 ohms resistor soldered on the rear of the module i.e. 470 ohms, 1K.

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REPLACEMENT OF KNOBS:

Knobs are of the collet type fixing and can be removed with a special screwdriver which has a slot cut out of the centre of the plate. First remove the plastic cover of the knob and then turn the collet anti-clockwise to release the knob.

OUTPUT MIS-MATCH:

The outputs of the SDS 5 are wired as follows:-

- Pins 1 and 2 . . . Ground
- Pin 3 Hot

This can cause problems on some desks and can usually be re-wired as necessary. See ACCESS TO BUSS AND BACK PANEL:

If the unit appears to be dead but the trigger lights are flashing when the pads are struck, but none of the outputs work, output wiring mis-match is the most likely cause of the problem.

The separate outputs Channel 1 to 7 are low impedance, low level microphone outputs, whereas the mix right and left outputs are at line level.

The individual outputs can be converted to line level if required by removing the 68 ohm resistor on the back of the channel output sockets. See ACCESS TO BUSS AND BACK PANEL:

The volume controls on the right hand mix channel affect only the mix output. They have no effect on the individual channel outputs or the right and left outputs. Thus a drummer can mix his own monitor level on stage leaving the main channel outputs to the P.A. unaffected by level changes he may make on stage.

ACCESS TO BUSS AND BACK PANEL:

To remove the top cover, remove the two black screws on either side of the case. Lever off the chrome handle covers and remove the handle retaining screws. Remove the rear three rubber feet and the six posidrive screws on the back panel.

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FAULTS LIST:

SELF TRIGGERING:

If a module is triggering continuously, the most likely cause is bad connection between the buss board and the module or the fixing bolts holding the module front panel to the front panel p.c.b. are loose.

Cure - clean and re-tin module connector fingers and tighten 6BA front panel retaining nuts.

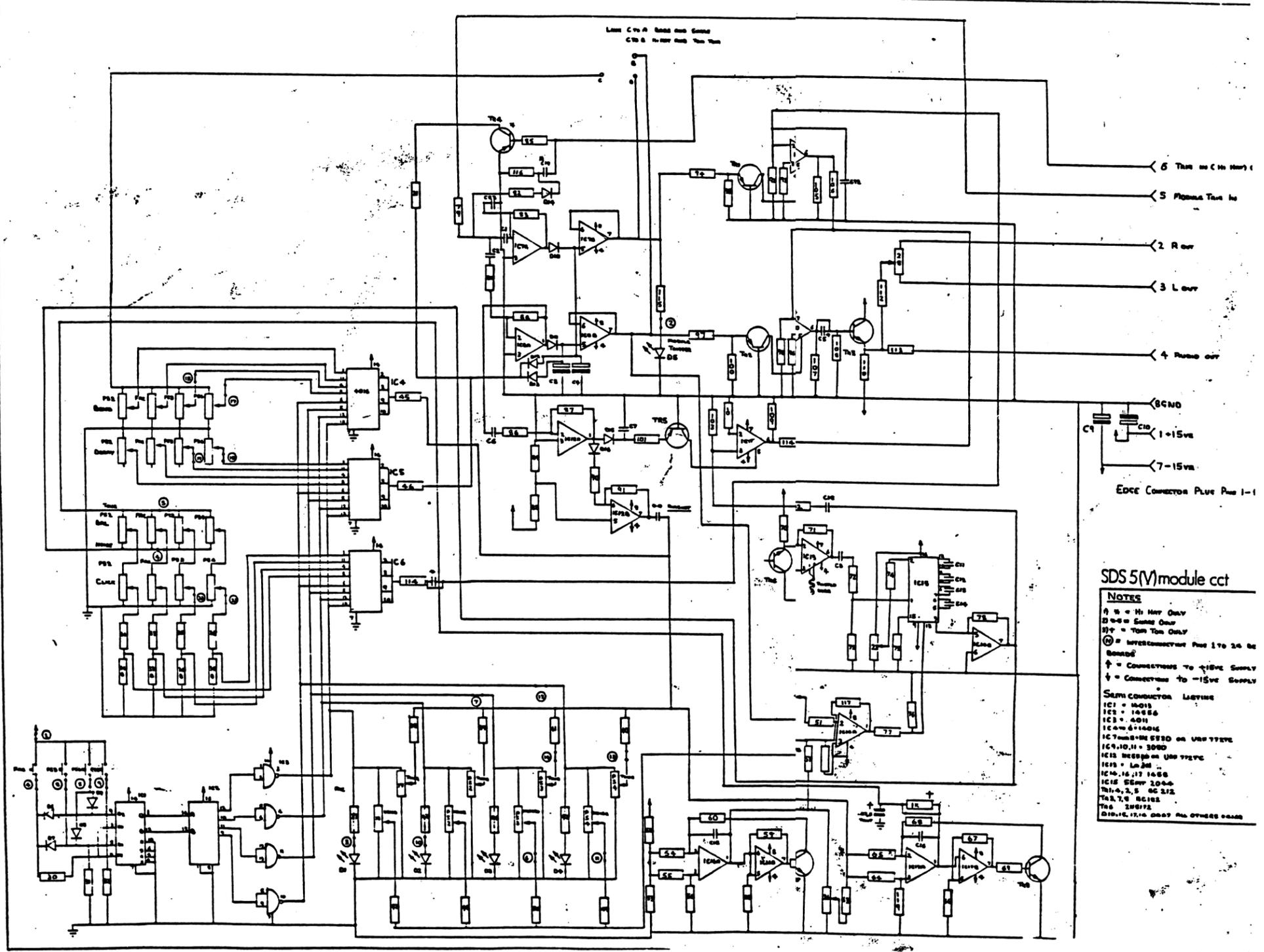
MODULE FAILURE:

Module appears to trigger when pad is struck but no sound comes from mix output.

Check to see if there is output from the module via its individual output and the stereo outputs. If there is no output here either, the module is at fault. If there is output then the relevant mix volume control is faulty. Cure: Repair module or replace mix volume pot.

TRIGGERING FROM INDUCTIVE LOAD SWITCHING:

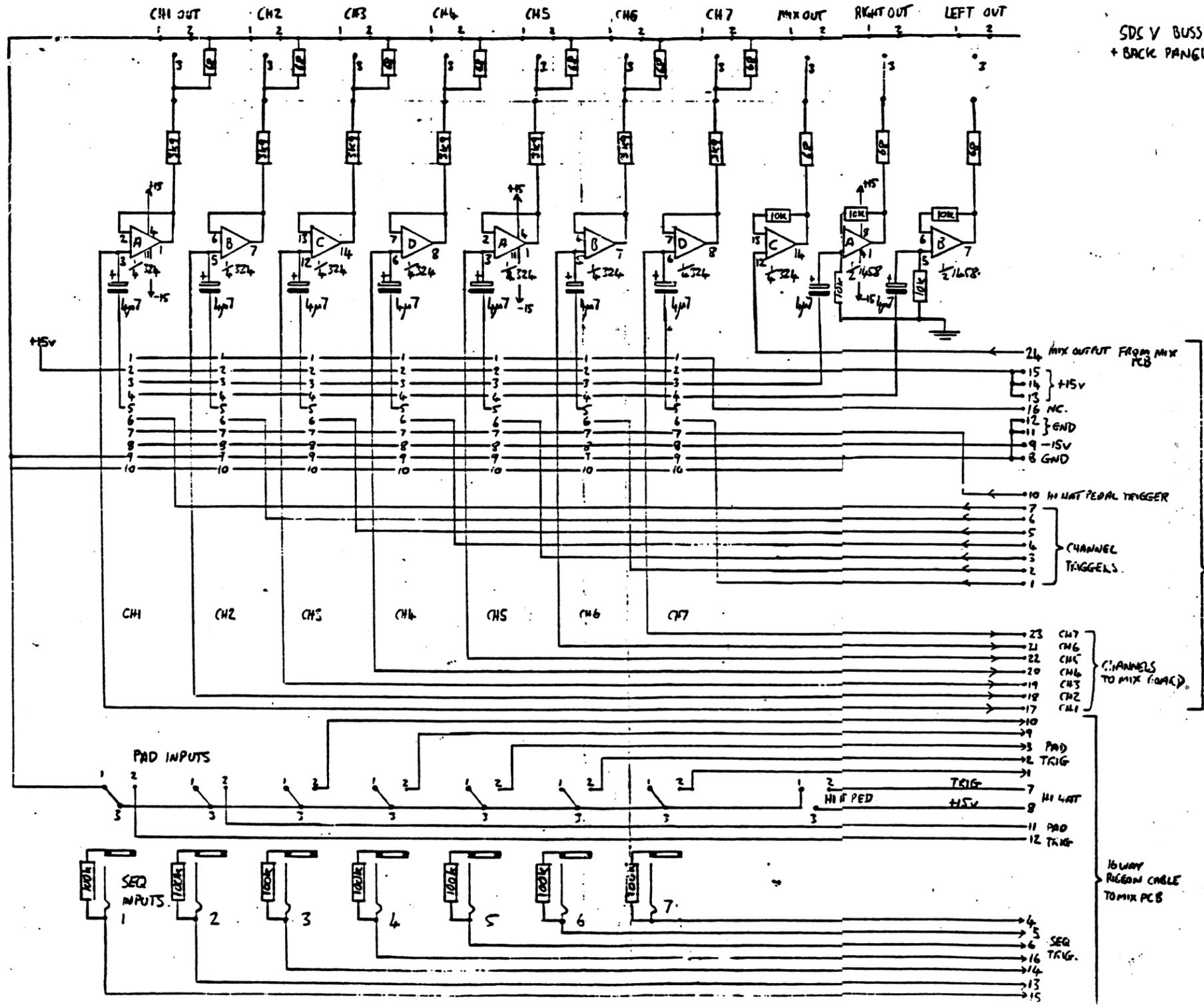
Occasionally, relays, electric motors and other heavy current switching can cause the SDS 5 to trigger. This normally can be overcome by suppressing the interference at source.



SDS 5(V) module cct

- NOTES**
- ⊕ = Hi Imp Only
 - ⊖ = Low Imp Only
 - ⊗ = Tot Tot Only
 - ⊙ = Interconnect Pin 1 to 24 to Board
 - ⋆ = Connections to +15V Supply
 - ⋇ = Connections to -15V Supply
- Semi Conductor Listing**
- IC1 = 7401
 - IC2 = 7404
 - IC3 = 7401
 - IC4 = 7404
 - IC7 = 7401
 - IC9,10,11 = 7404
 - IC12 = 7404
 - IC13 = 7404
 - IC14 = 7404
 - IC15 = 7404
 - IC16 = 7404
 - IC17 = 7404
 - IC18 = 7404
 - IC19 = 7404
 - IC20 = 7404
 - IC21 = 7404
 - IC22 = 7404
 - IC23 = 7404
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 - IC99 = 7404
 - IC100 = 7404

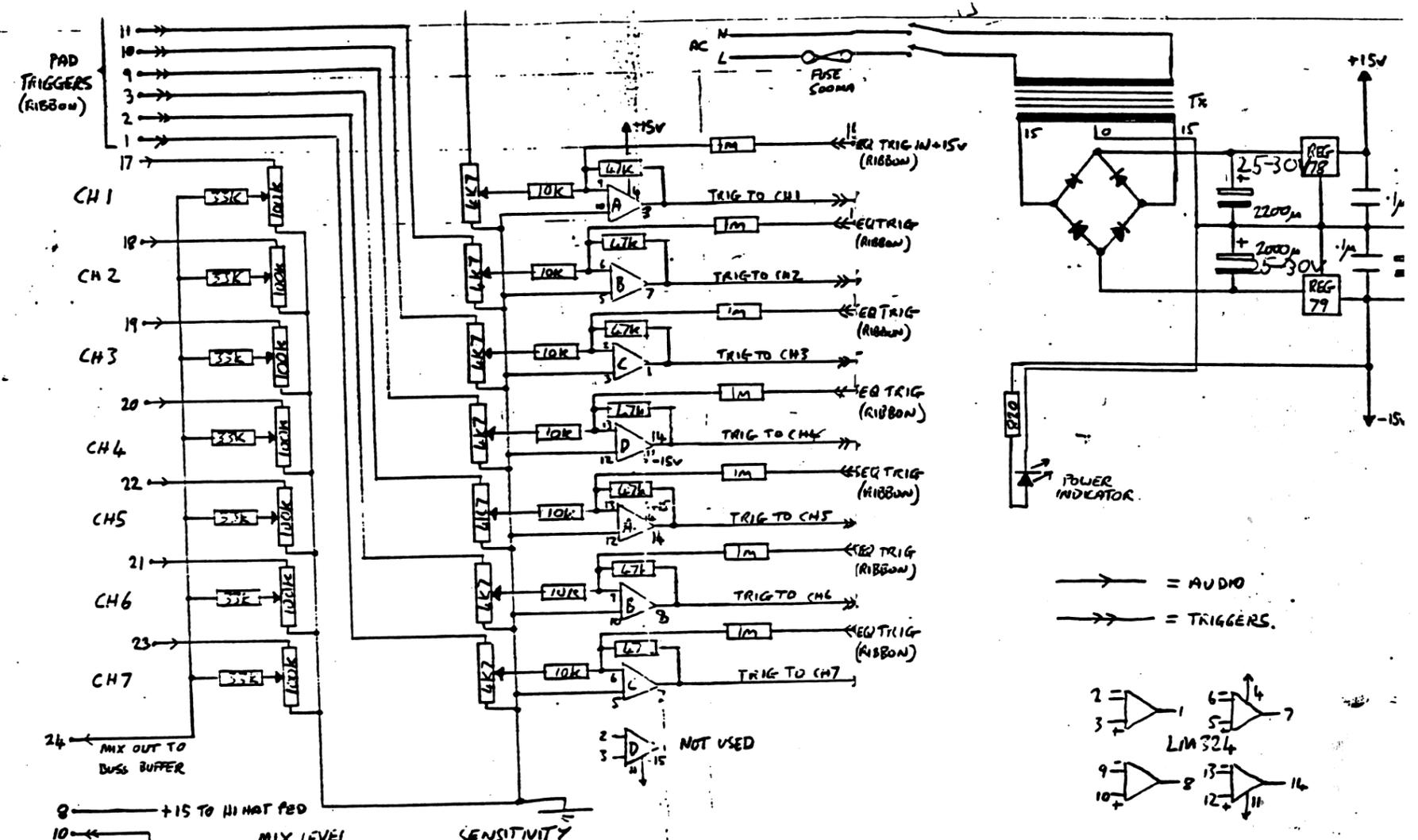
SDS V BUSS PCB
+ BACK PANEL WIRING



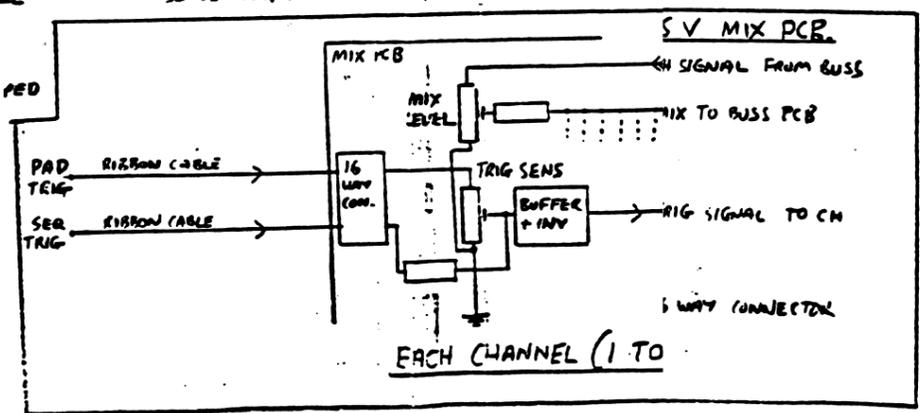
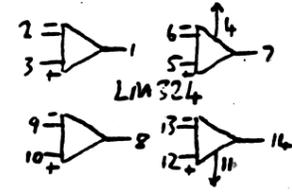
26 WAY
RIBBON
TERMINAL

CHANNELS
TO MIX (CABLE)

16 WAY
RIBBON CABLE
TO MIX PCB



→ = AUDIO
 →→ = TRIGGERS.

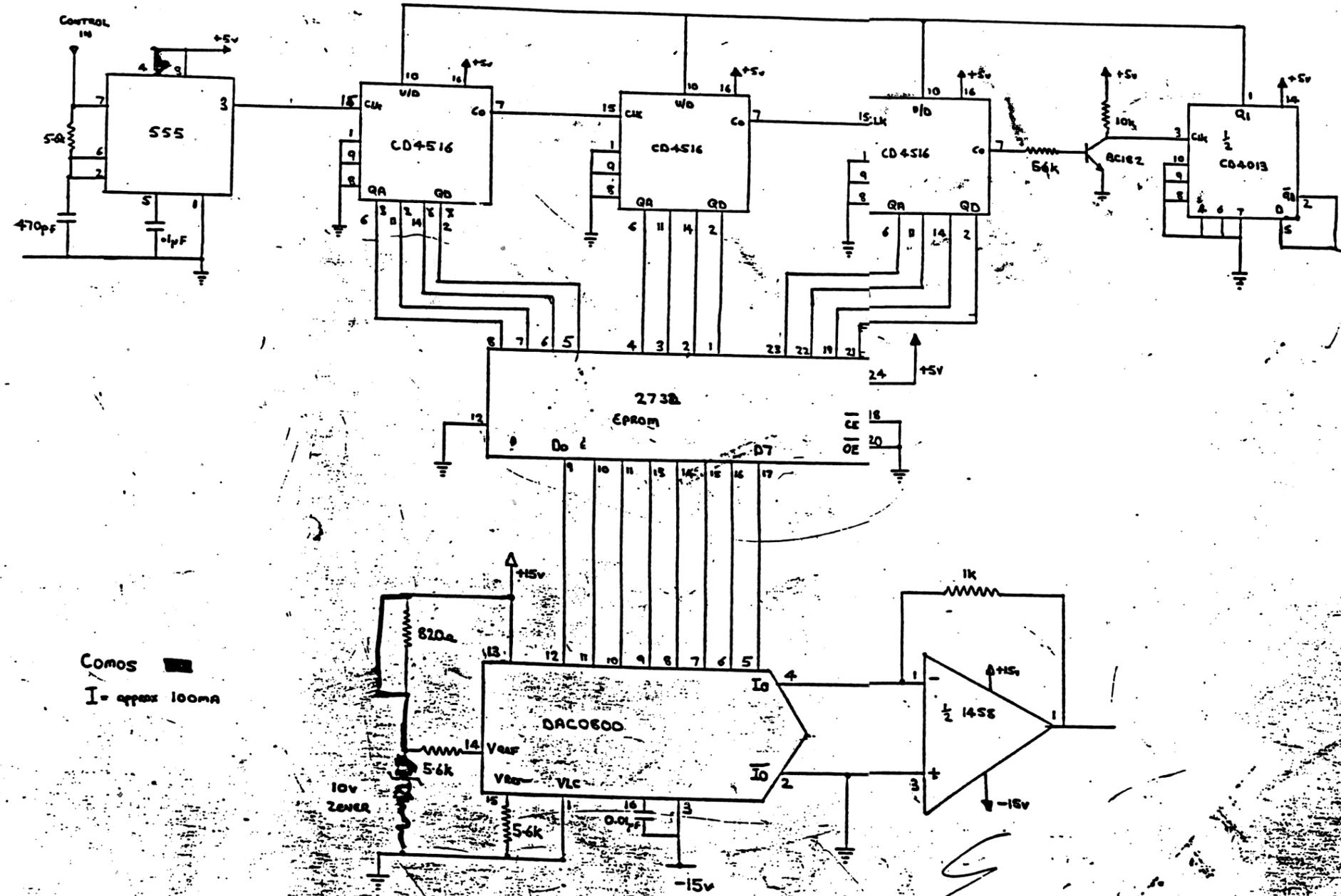


8 → +15 TO HI HAT PED
 10 ← MIX LEVEL
 7 HI HAT OPEN/CLOSE/TRIGGER PED RIBBON CABLE

SENSITIVITY

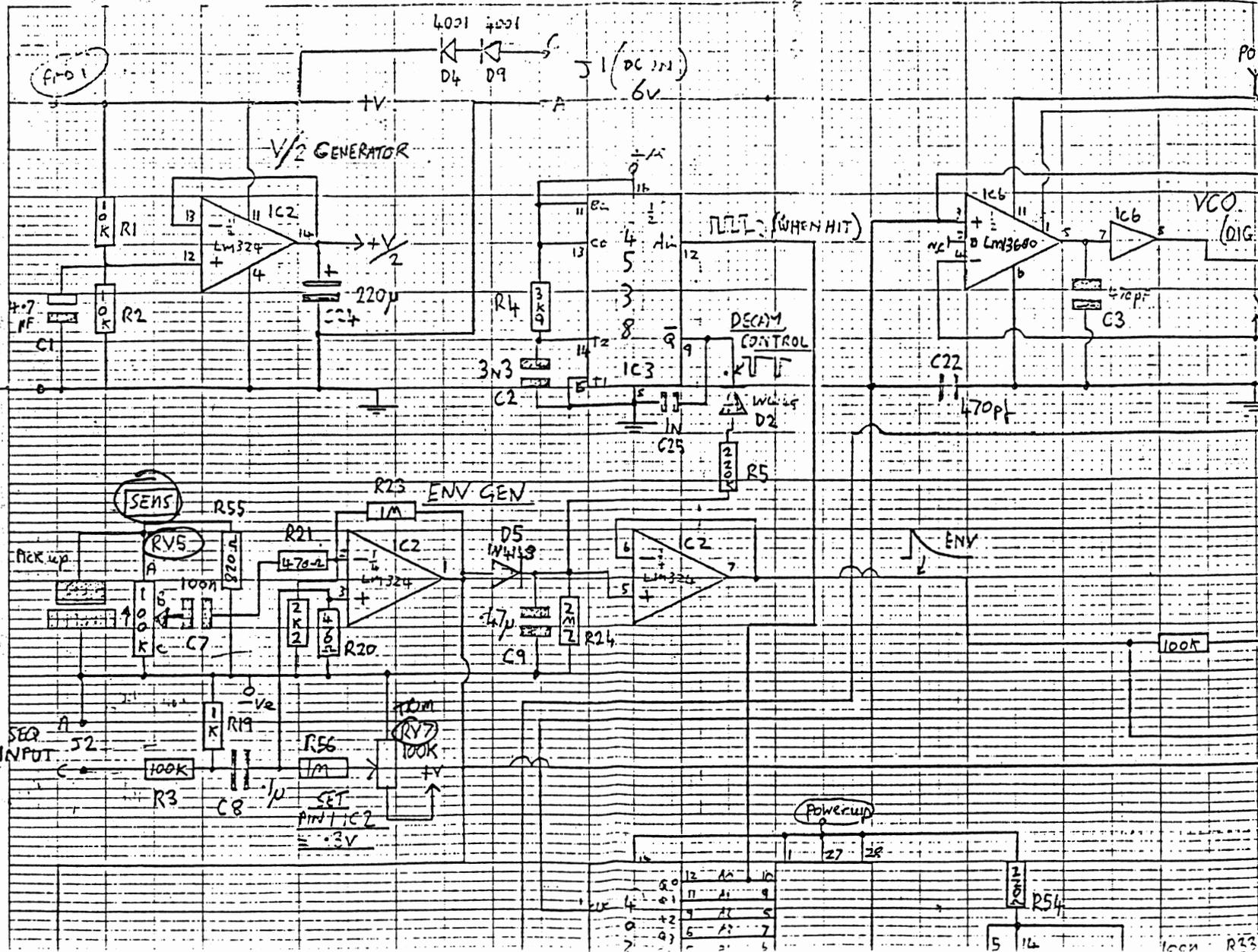
5V MIX PCB

EACH CHANNEL (1 TO 7)

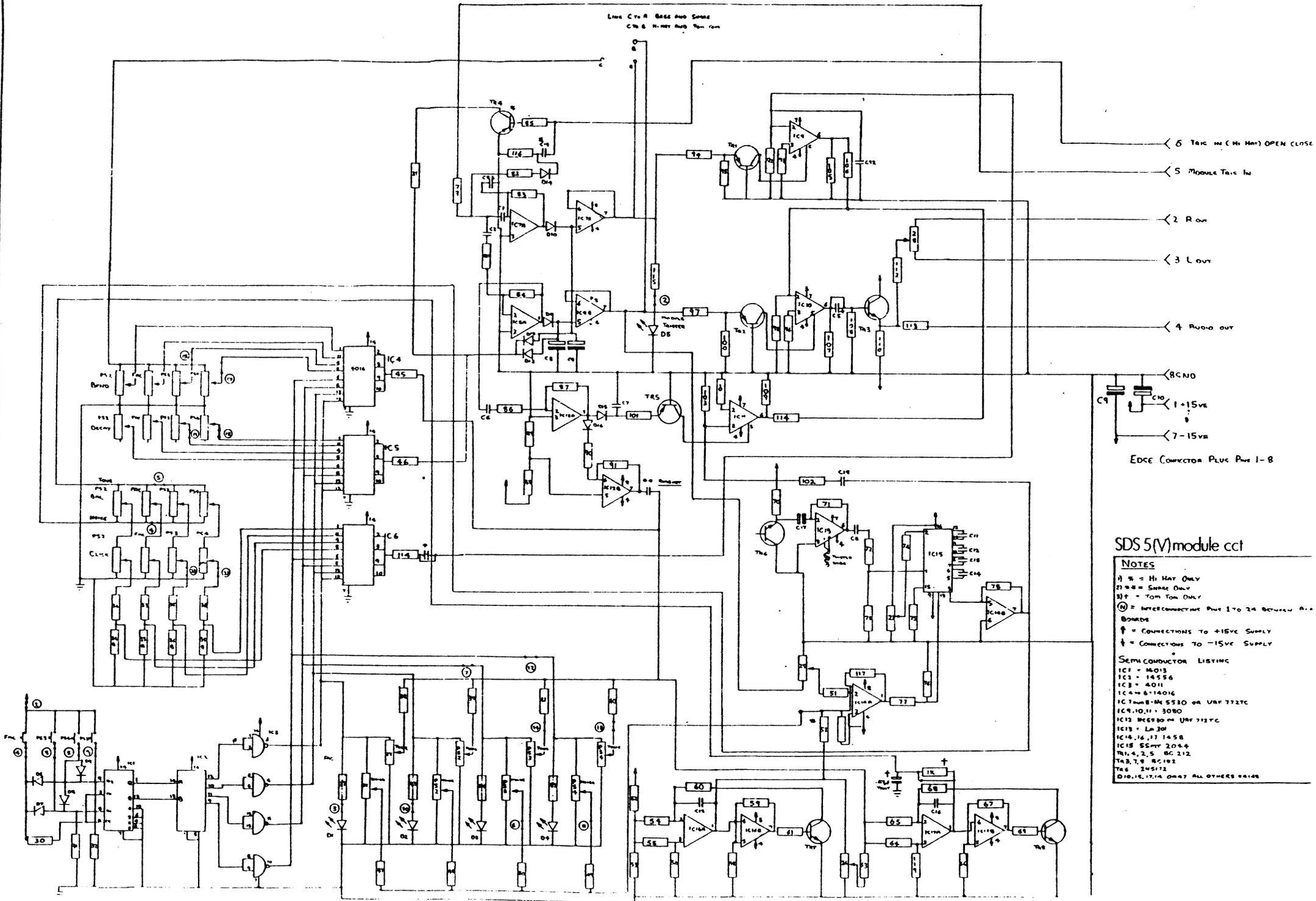


COMOS
 I = approx 100mA

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Line C to A Base and Speed
C to B Hi-Hat Aug Tom Tom



- < 6 TRK IN (Hi Hat) OPEN CLOSE
 - < 5 MODULE TRK IN
 - < 2 R ON
 - < 3 L OUT
 - < 4 AUDIO OUT
 - < 8CND
 - < 7-15V
- EDGE CONNECTOR PLUG Pins 1-8

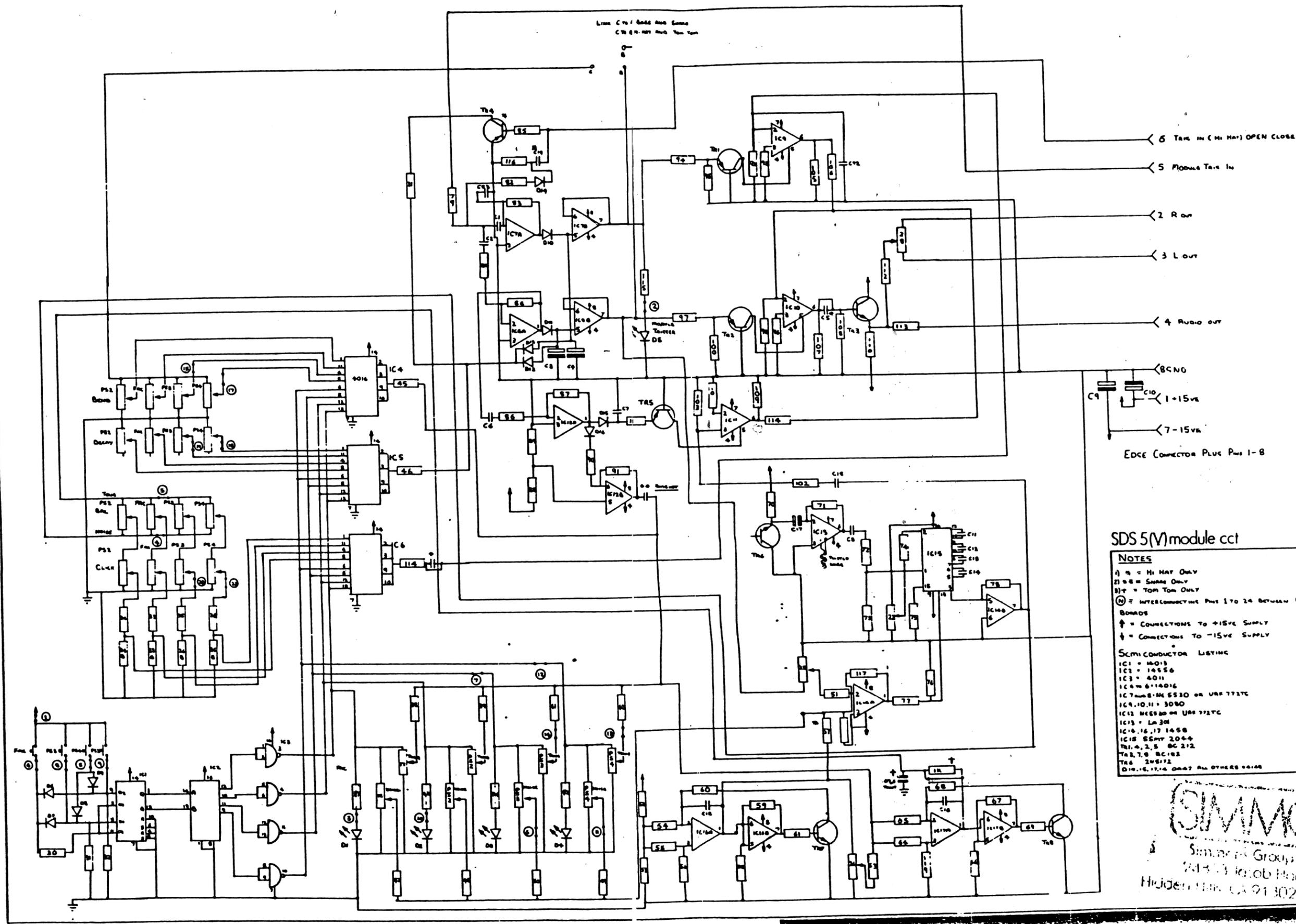
SDS 5(V) module cct

NOTES

- Ⓜ = Hi Hat Only
- Ⓝ = Snare Only
- Ⓟ = Tom Tom Only
- Ⓢ = INTERCONNECTING PINS 1 TO 24 BETWEEN ALL BOARDS
- ↑ = CONNECTIONS TO +15V SUPPLY
- ↓ = CONNECTIONS TO -15V SUPPLY

SEMICONDUCTOR LISTING

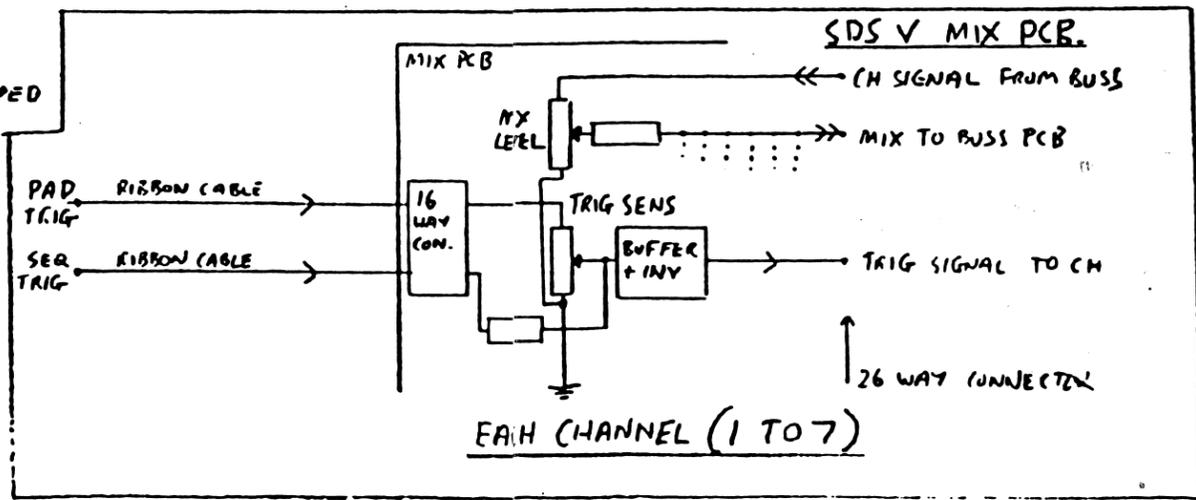
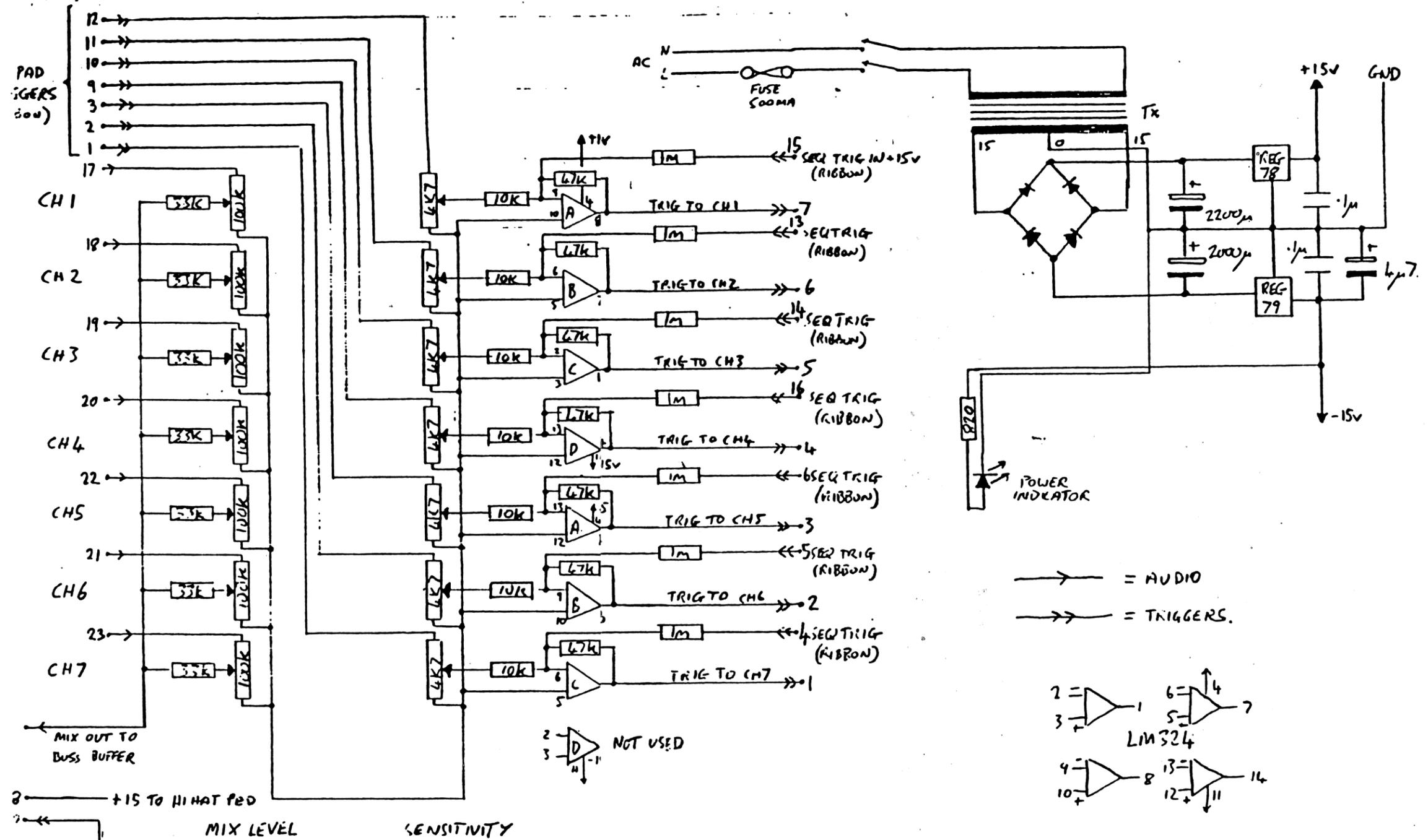
- IC1 = 4013
- IC2 = 14556
- IC3 = 4011
- IC4 & 14016
- IC10 & 5550 OR UAF 771C
- IC9, 10, 11 = 3080
- IC12 5550 OR UAF 771C
- IC13 = LM 301
- IC14, 16, 17 1458
- IC15 5557 2044
- TR1, 2, 3 BC 212
- TR4, 5 BC 102
- TR6 2N5172
- TR7, 8 BC 102
- TR9 2N5172
- TR10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



SDS 5(M) module cct

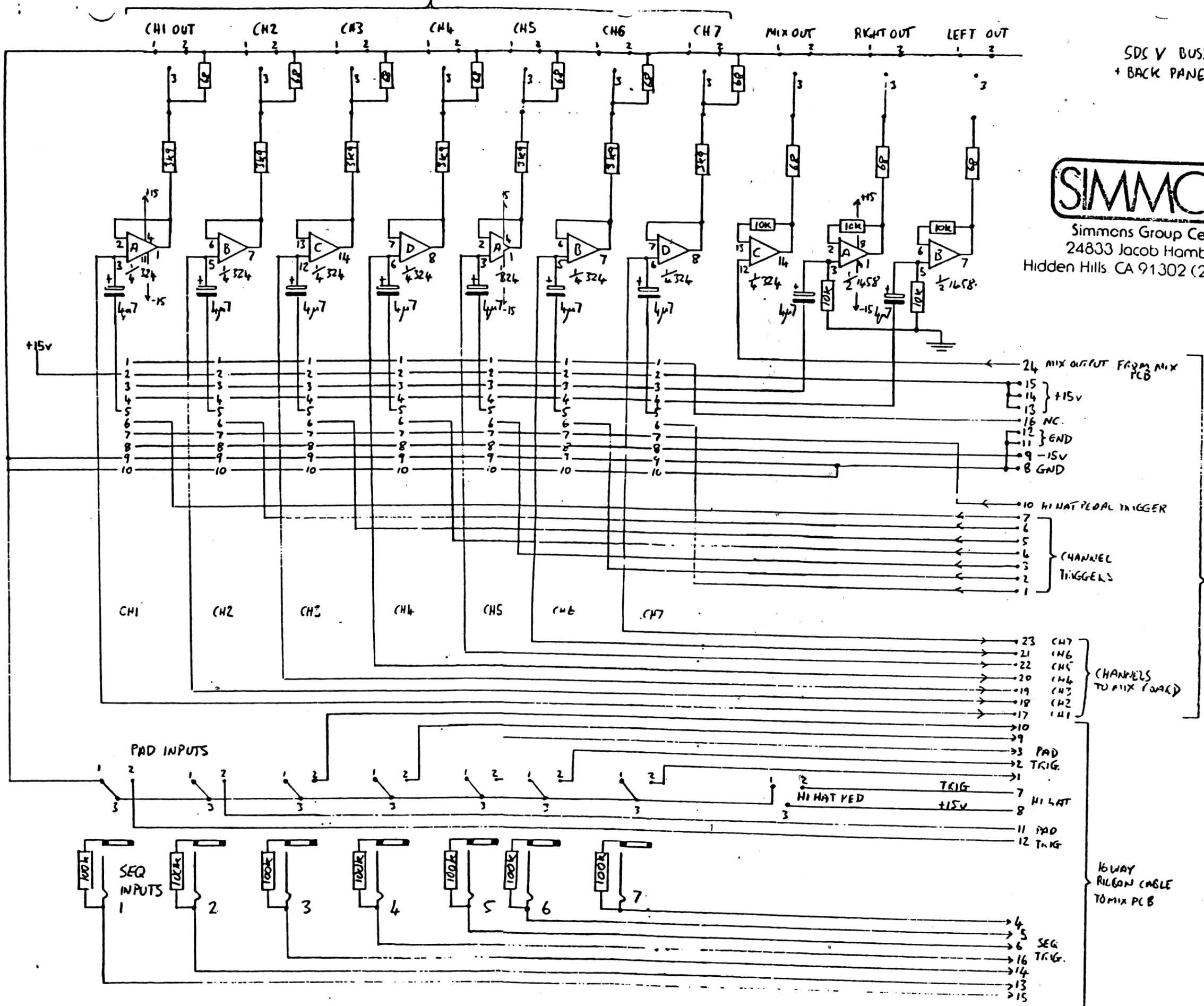
- NOTES**
- 1) H = Hi MAT ONLY
 - 2) S = SHARE ONLY
 - 3) T = TOM TOM ONLY
 - ⊕ = INTERCONNECTING Pins 1 TO 24 BETWEEN A AND A2 BOARDS
 - ↑ = CONNECTIONS TO +15V SUPPLY
 - ↓ = CONNECTIONS TO -15V SUPPLY
- SEMICONDUCTOR LISTING**
- IC1 = 4013
 - IC2 = 14556
 - IC3 = 4011
 - IC4 = 614016
 - IC5 = 5616 5530 OR UAF 772TC
 - IC6, 10, 11 = 3090
 - IC7 = 5616 OR UAF 772TC
 - IC8 = LA 301
 - IC9, 16, 17 = 1458
 - IC18 = 55MP 2044
 - T1, 4, 2, 5 = BC 212
 - T10, 7, 8 = BC108
 - T11 = 2N3172
 - C9, 10, 11, 12, 13, 14, 15 = OTHERS AS SHOWN

SIMMONS
 Simmons Group Centre Inc.
 7415 Jacob Hamilton Road
 Hidden Hills, CA 91302 (213) 834-1234



EAH CHANNEL (1 TO 7)

MULTI CHANNEL OUTPUTS



SDS V BUSS PCB
+ BACK PANEL WIRING

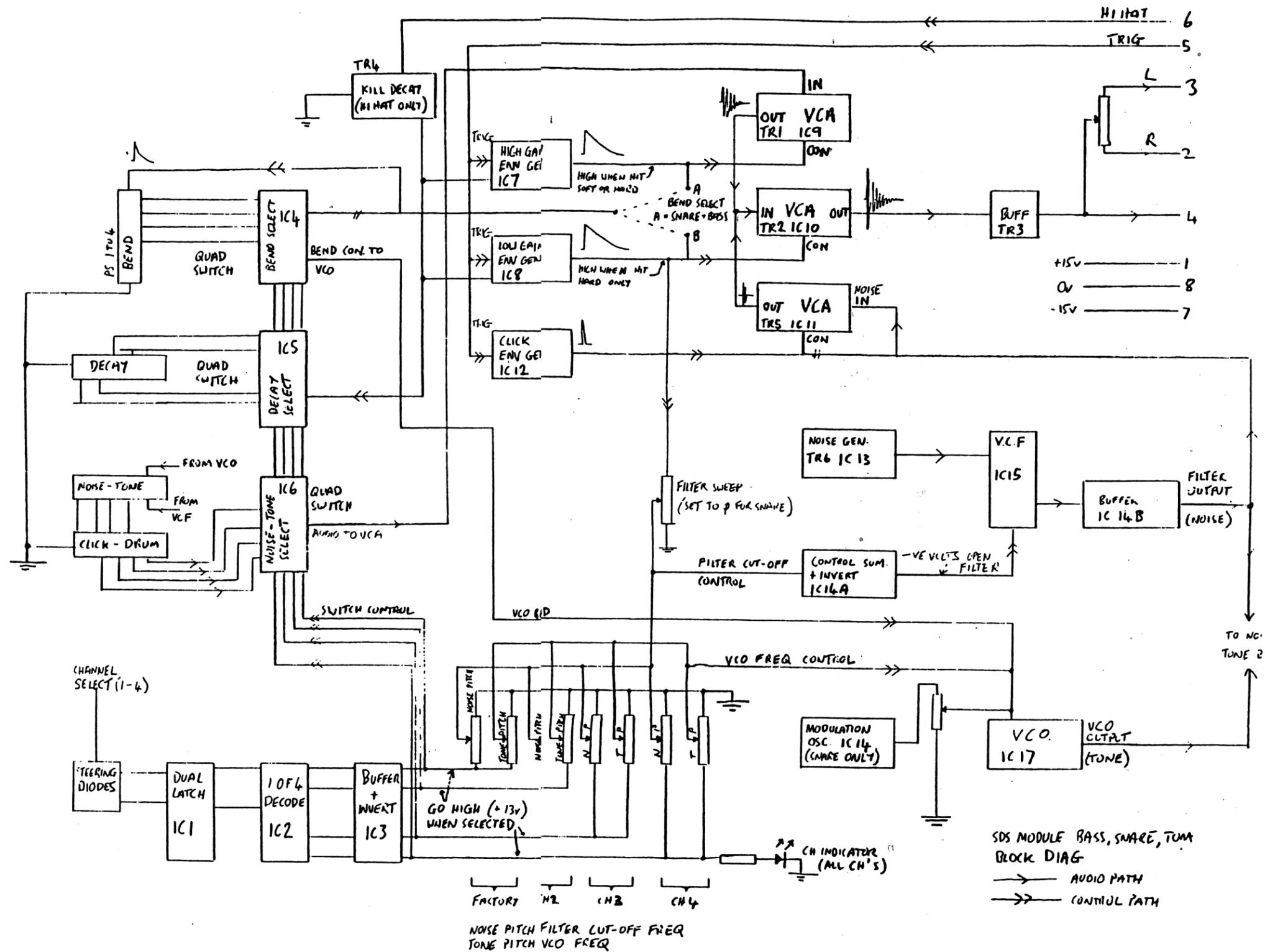


Simmons Group Centre Inc.
24833 Jacob Hamblin Road
Hidden Hills, CA 91302 (213) 884-2653

26 WAY
SWITCH
TERMINAL

CHANNELS
TO MIX (WALD)

16WAY
RIBBON CABLE
TO MIX PCB



Simmons Group Centre Inc.
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