

CHEETAH MS6 SCHEMATICS

While building an external power supply for a Cheetah MS6, I found some schematics that had been scanned at reasonably good resolution. Unfortunately, they had not been stitched together.

In my humble attempts to keep vintage gear alive, I have edited the document and provided pages to make reading the schematics a little easier for anyone who may need them.

MS6 Power Supply

MS6 D/A

MS6 Auto Correct and Noise

MS6 Voice 1

MS6 Voice 2

MS6 Voice 3

MS6 Voice 4

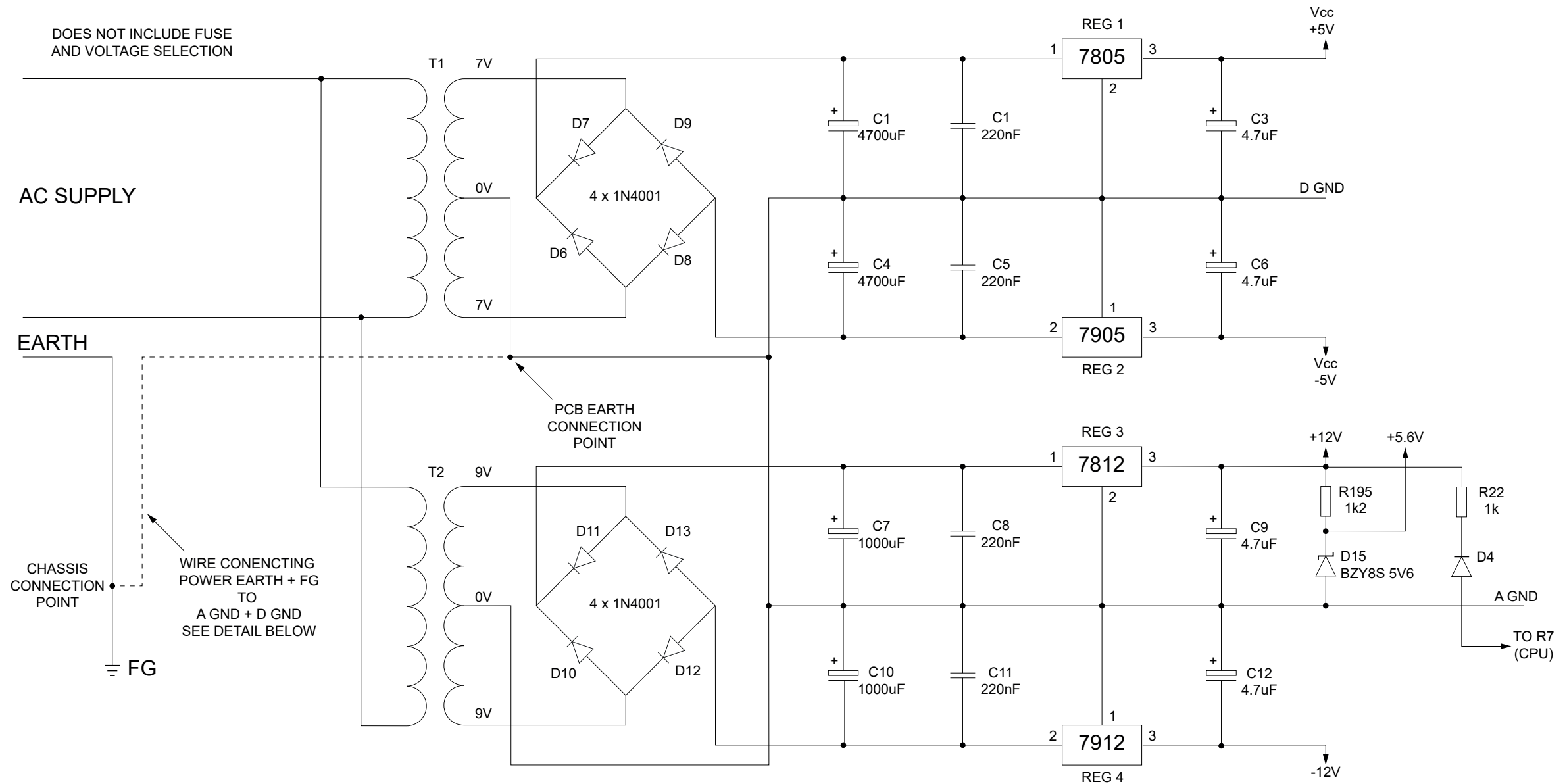
MS6 Voice 5

MS6 Voice 6

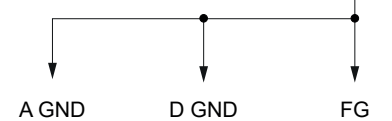
MS6 Sample & Hold and Decoupling

MS6 CPU Part A (MIDI, display and buttons)

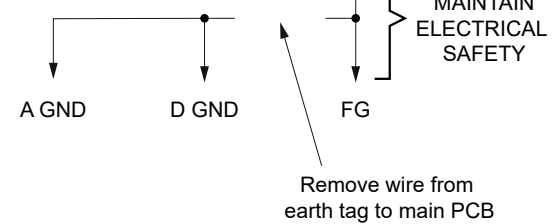
MS6 CPU Part B (DCOs, SRAM, processor, battery back-up)



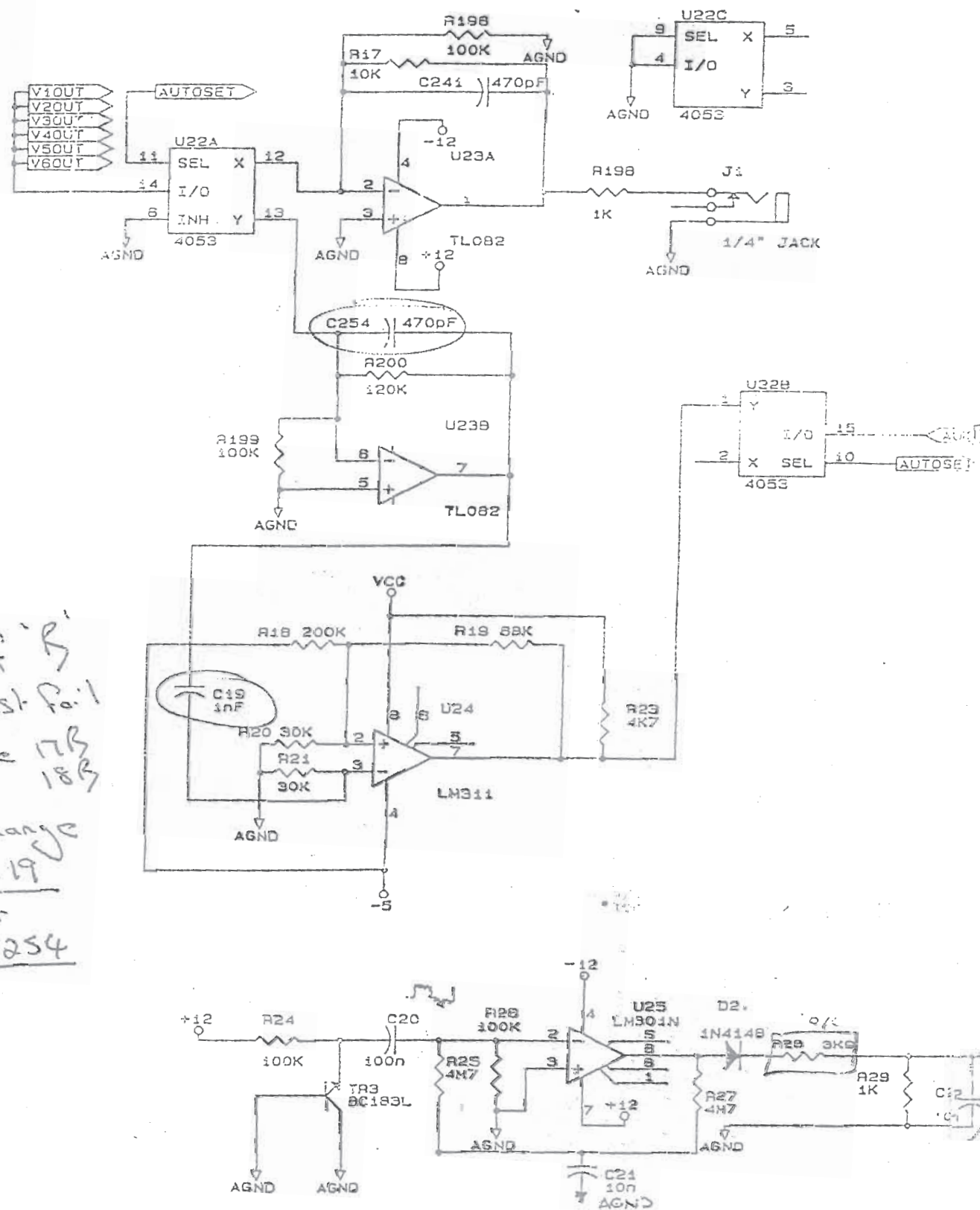
EARLY GROUND WIRING
EARTH + D GND + A GND + FG
JOINED AT PSU ONLY



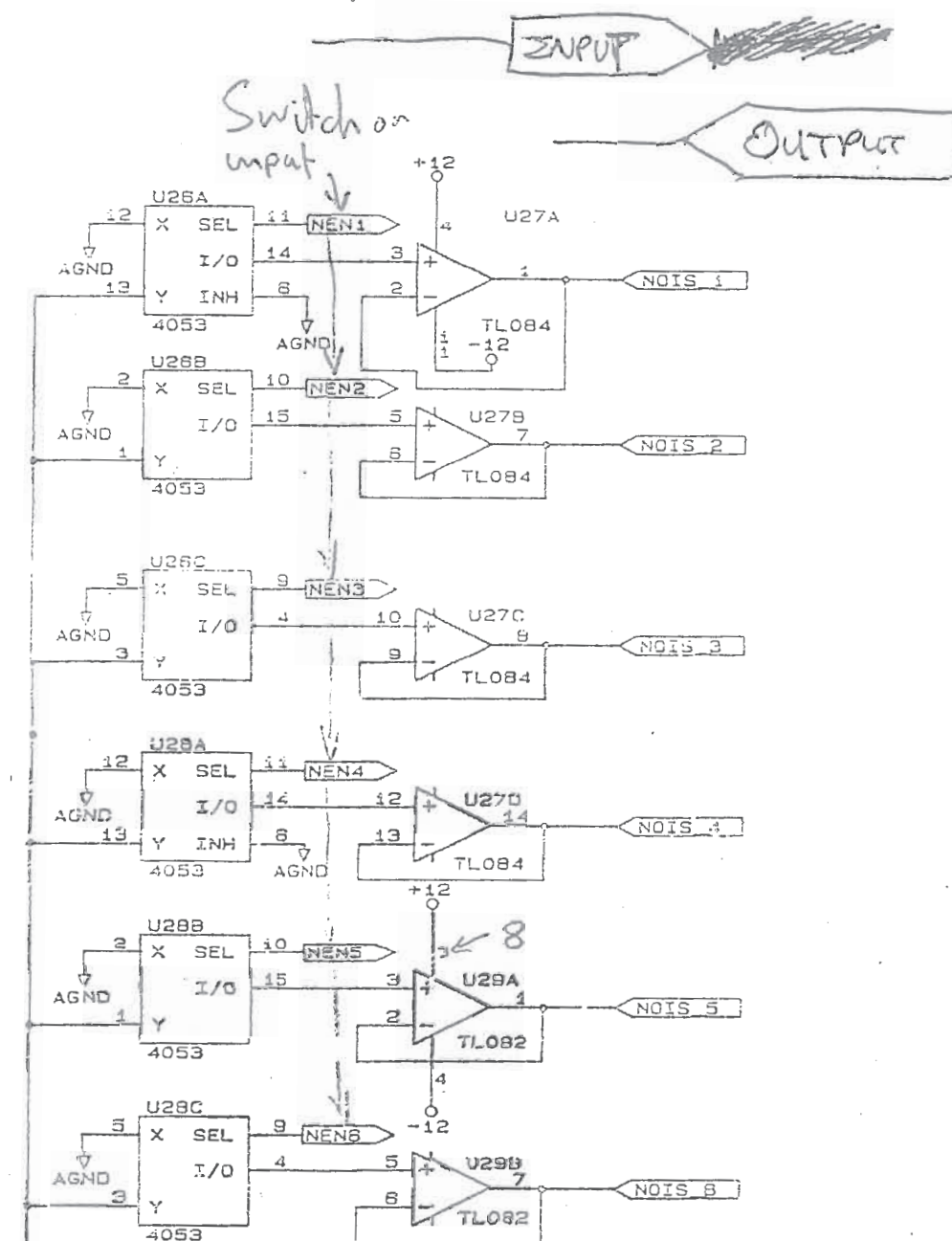
HUM REMOVAL WIRING
D GND + A GND JOINED AT PSU ONLY.
POWER EARTH JOINED TO FG ONLY.



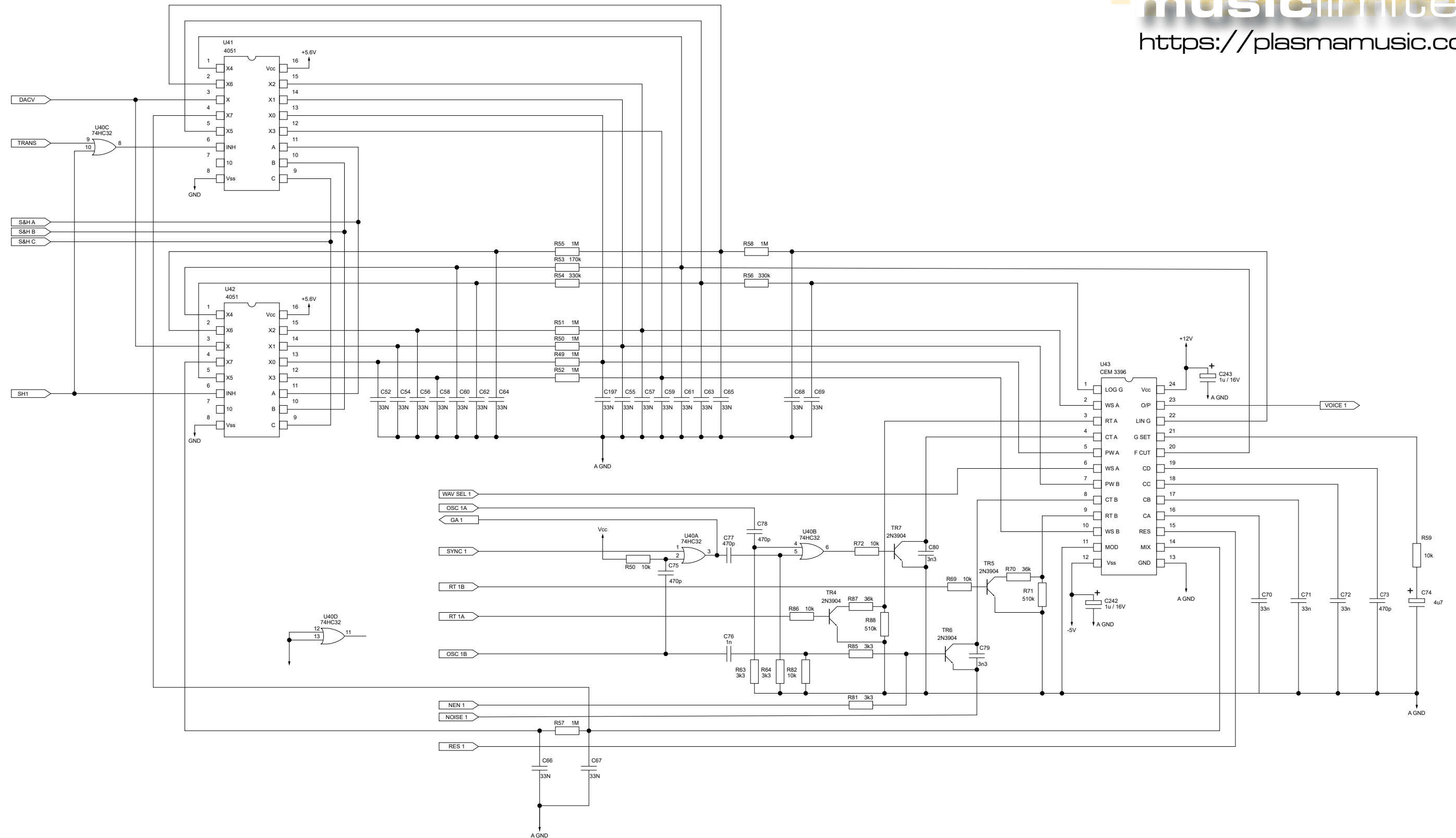
SUBJECT: CHEEATH MS6 POWER SUPPLY
DRAWN BY: ALEXANDER BHINDER
PLASMA MUSIC LIMITED
DATE: 4th FEBRUARY 2025



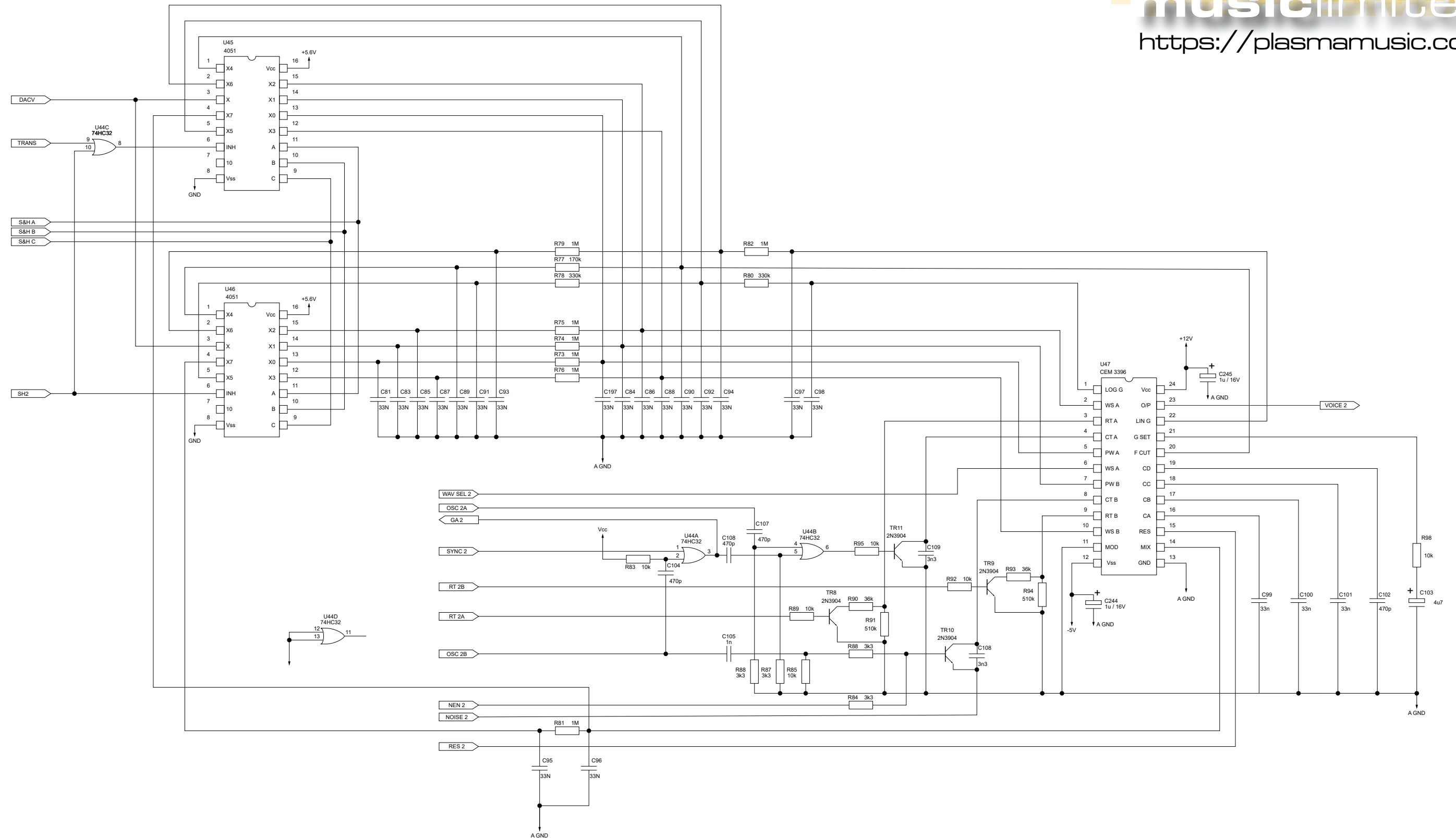
if 'R'
test fail
i.e. 17B
18B
change
C19
or
C254



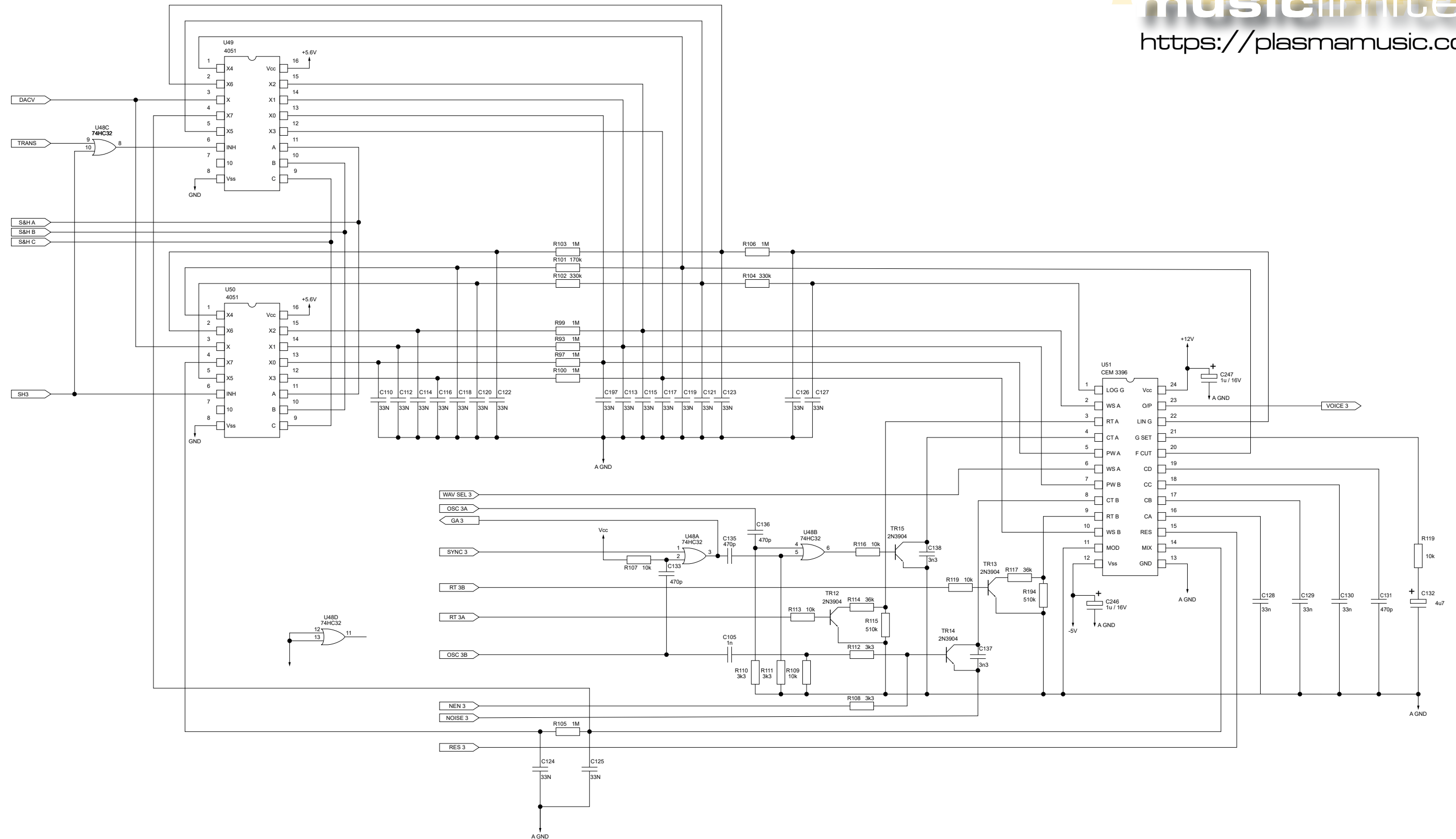
Title		
MSB AUTO CORRECT + NOISE CCT DIAGRAM		
Size	Document Number	REV
B	MSB1011	B
Date:	March 13, 1990	Sheet 3 of 12



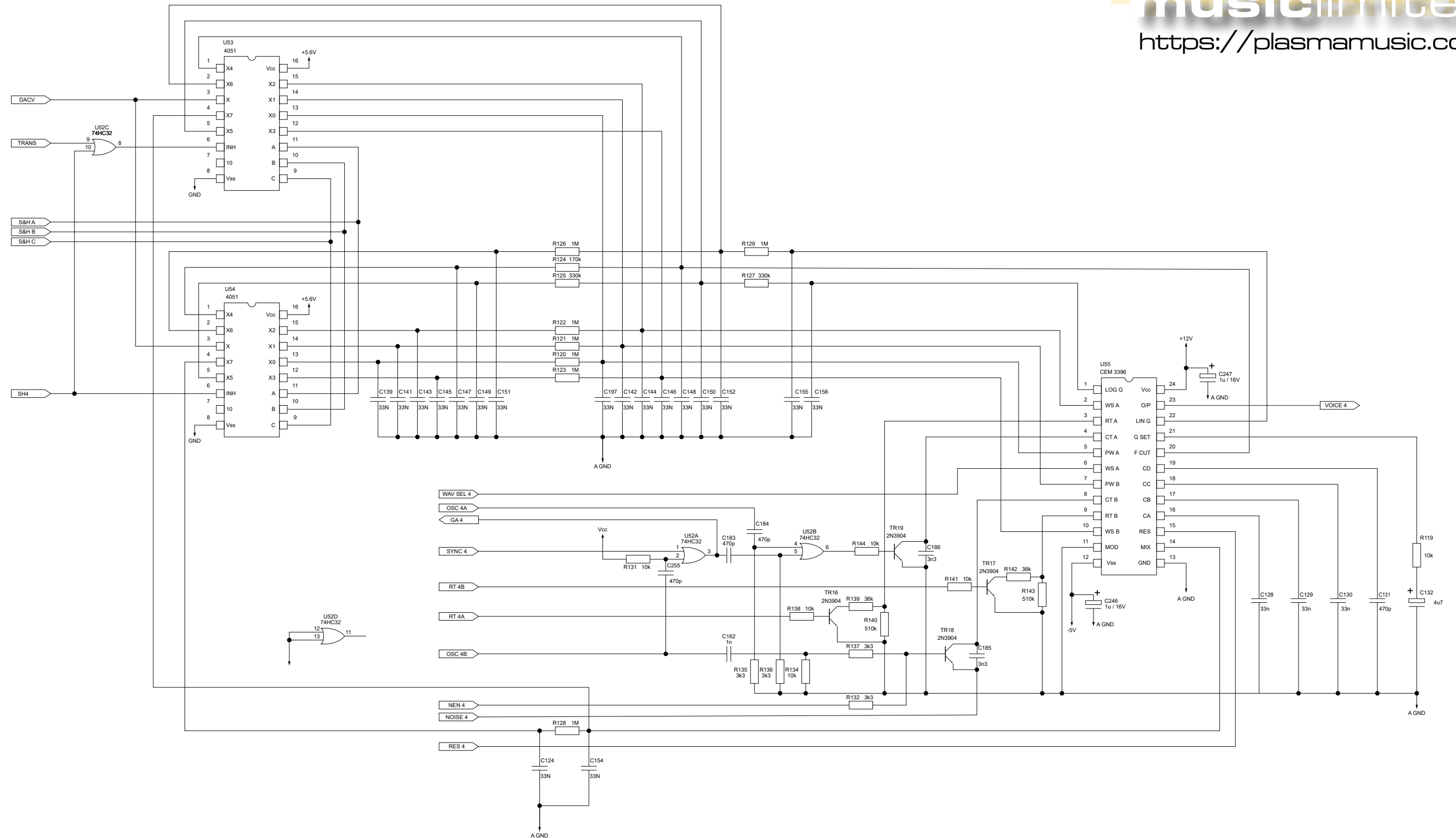
SUBJECT: CHEETAH MS6 VOICE 1 OF 6
DRAWN BY: ALEXANDER BHINDER
PLASMA MUSIC LIMITED
DATE: 4th FEBRUARY 2025



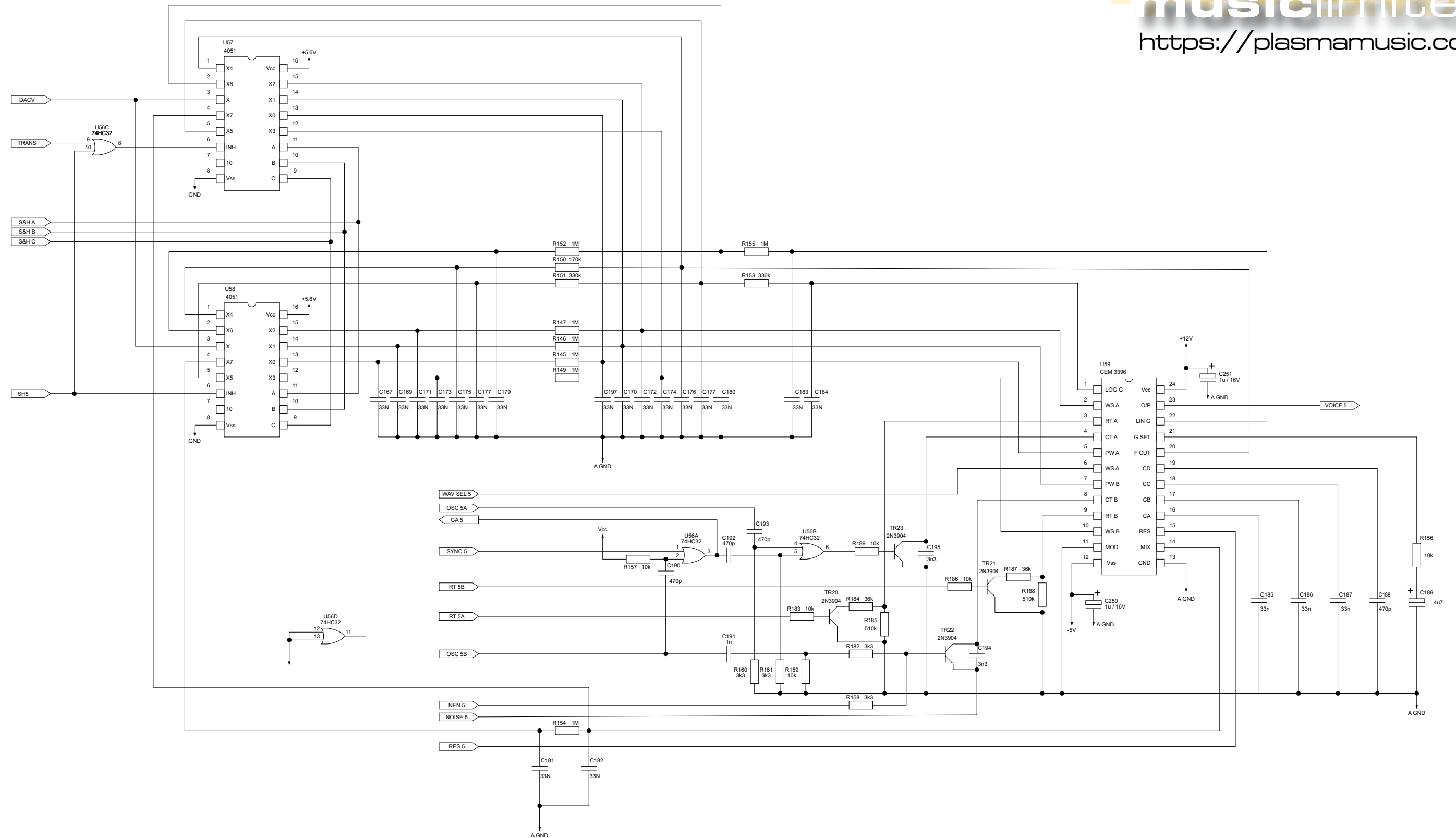
SUBJECT: CHEETAH MS6 VOICE 2 OF 6
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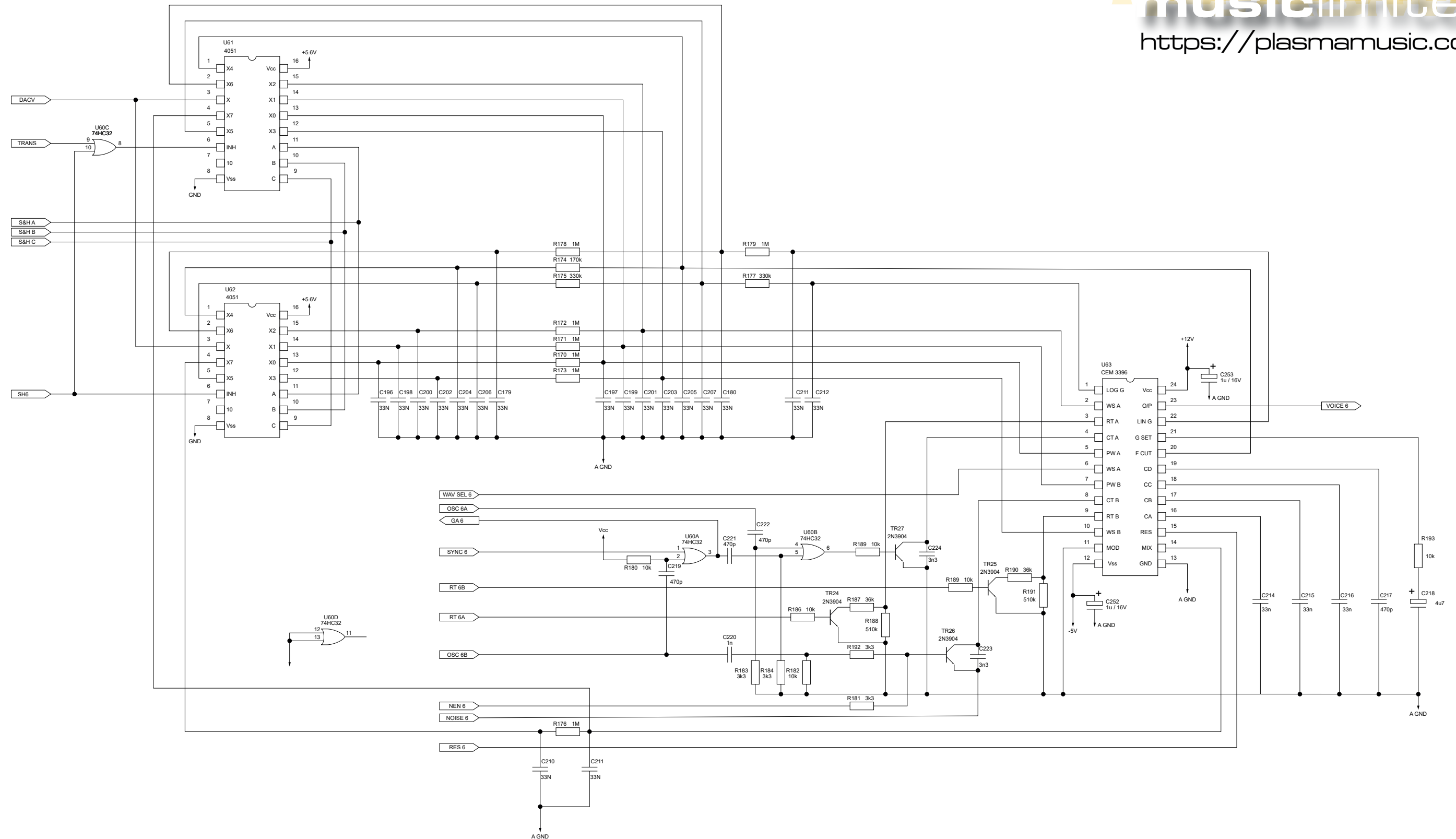
SUBJECT: CHEETAH MS6 VOICE 3 OF 6
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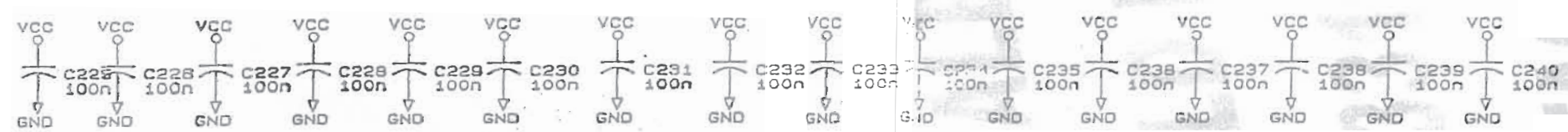
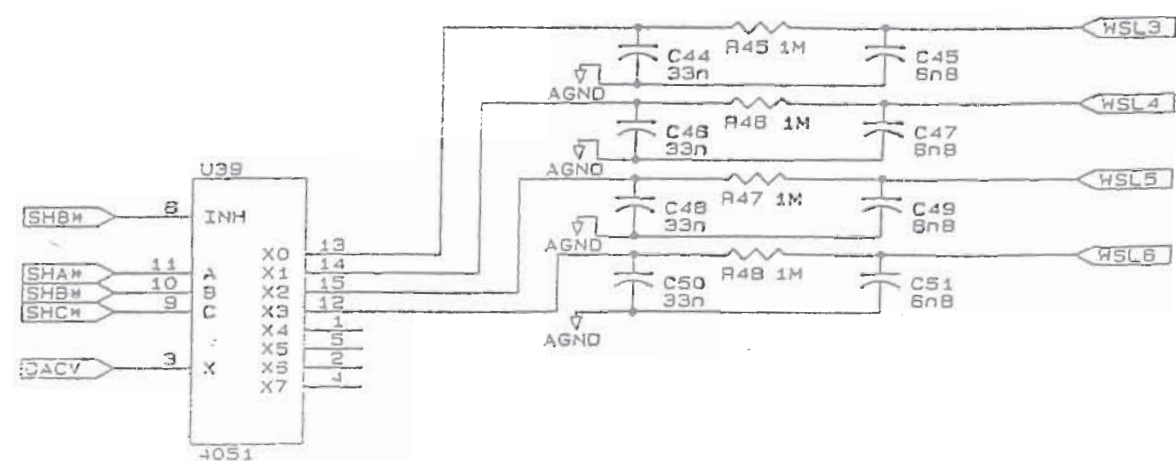
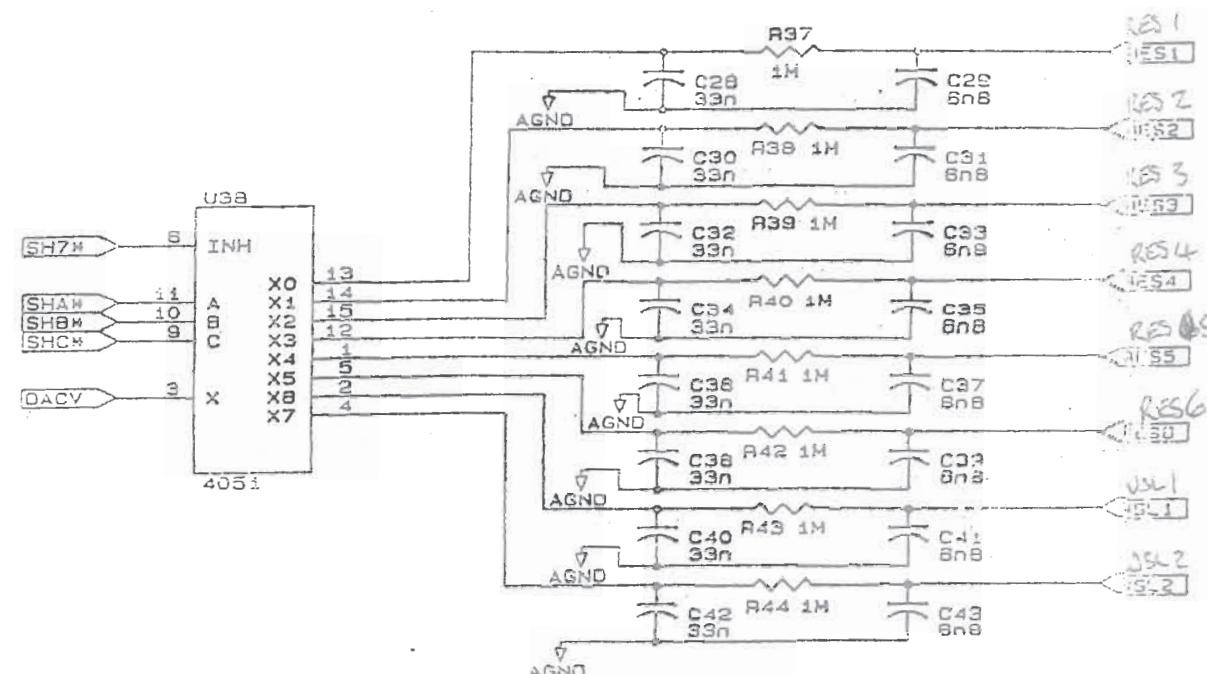
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1 VSS
11 P23
21 VCC
31 AD6

1 VSS
11 P23
21 VCC
31 AD6

2 XTAL
12 P24
22 A15
32 AD5

2 XTAL
12 P24
22 A15
32 AD5

3 EXTAL
13 P10
23 A14
33 AD4

3 EXTAL
13 P10
23 A14
33 AD4

4 NMI\
14 P11
24 A13
34 AD3

4 NMI\
14 P11
24 A13
34 AD3

5 IRQ1\
15 P12
25 A12
35 AD2

5 IRQ1\
15 P12
25 A12
35 AD2

6 RES\
16 P13
26 A11
36 AD1

6 RES\
16 P13
26 A11
36 AD1

7 STBY\

17 P14

27 A10

37 AD0

7 STBY\

17 P14

27 A10

37 AD0

8 P20
18 P15
28 A9
38 R/W

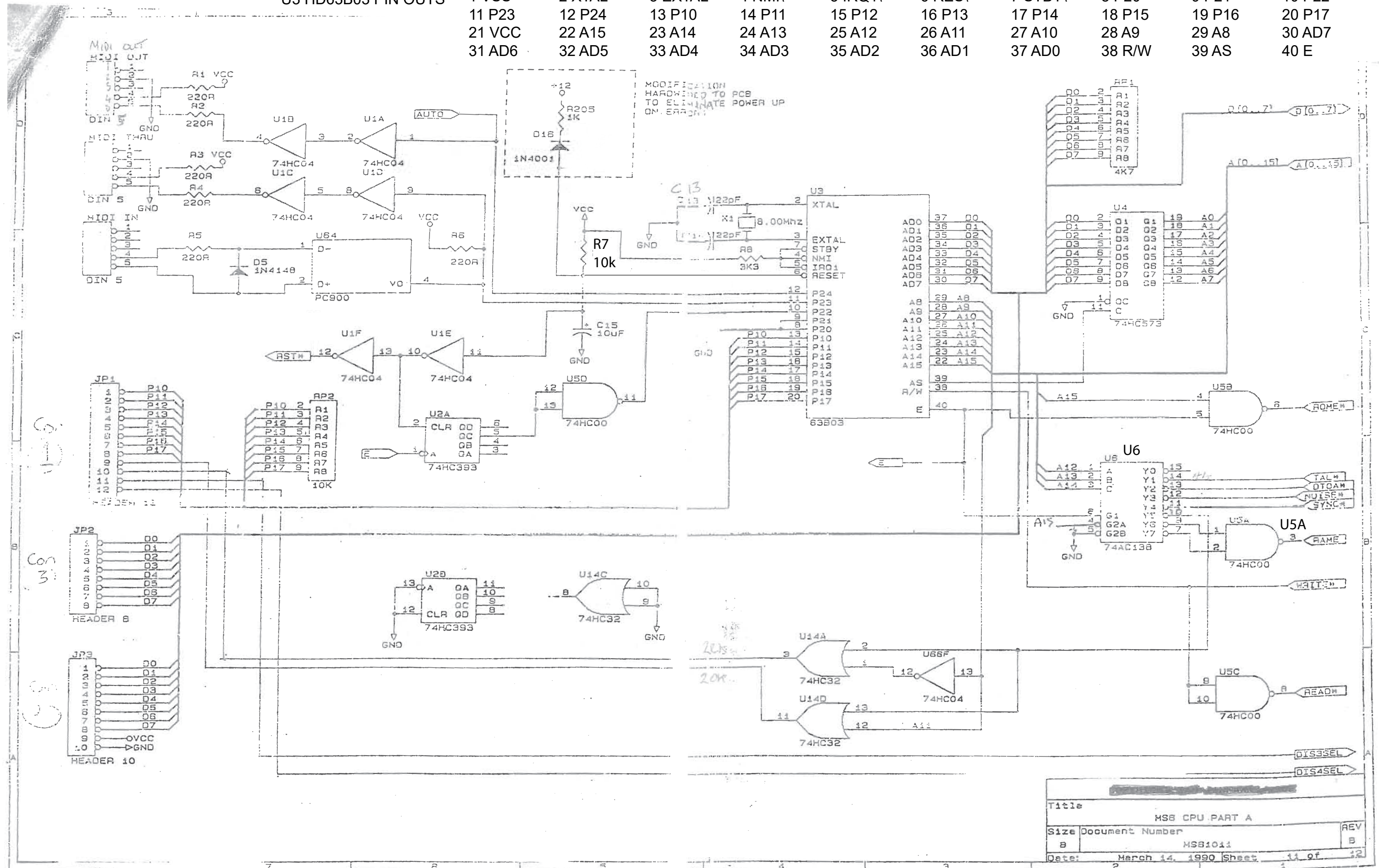
8 P20
18 P15
28 A9
38 R/W

9 P21
19 P16
29 A8
39 AS

9 P21
19 P16
29 A8
39 AS

10 P22
20 P17
30 AD7
40 E

10 P22
20 P17
30 AD7
40 E



U3 HD63B03 PIN OUTS

1 VSS	2 XTAL	3 EXTAL	4 NMI\	5 IRQ1\	6 RES\	7 STBY\	8 P20	9 P21	10 P22
11 P23	12 P24	13 P10	14 P11	15 P12	16 P13	17 P14	18 P15	19 P16	20 P17
21 VCC	22 A15	23 A14	24 A13	25 A12	26 A11	27 A10	28 A9	29 A8	30 AD7
31 AD6	32 AD5	33 AD4	34 AD3	35 AD2	36 AD1	37 AD0	38 R/W	39 AS	40 E

