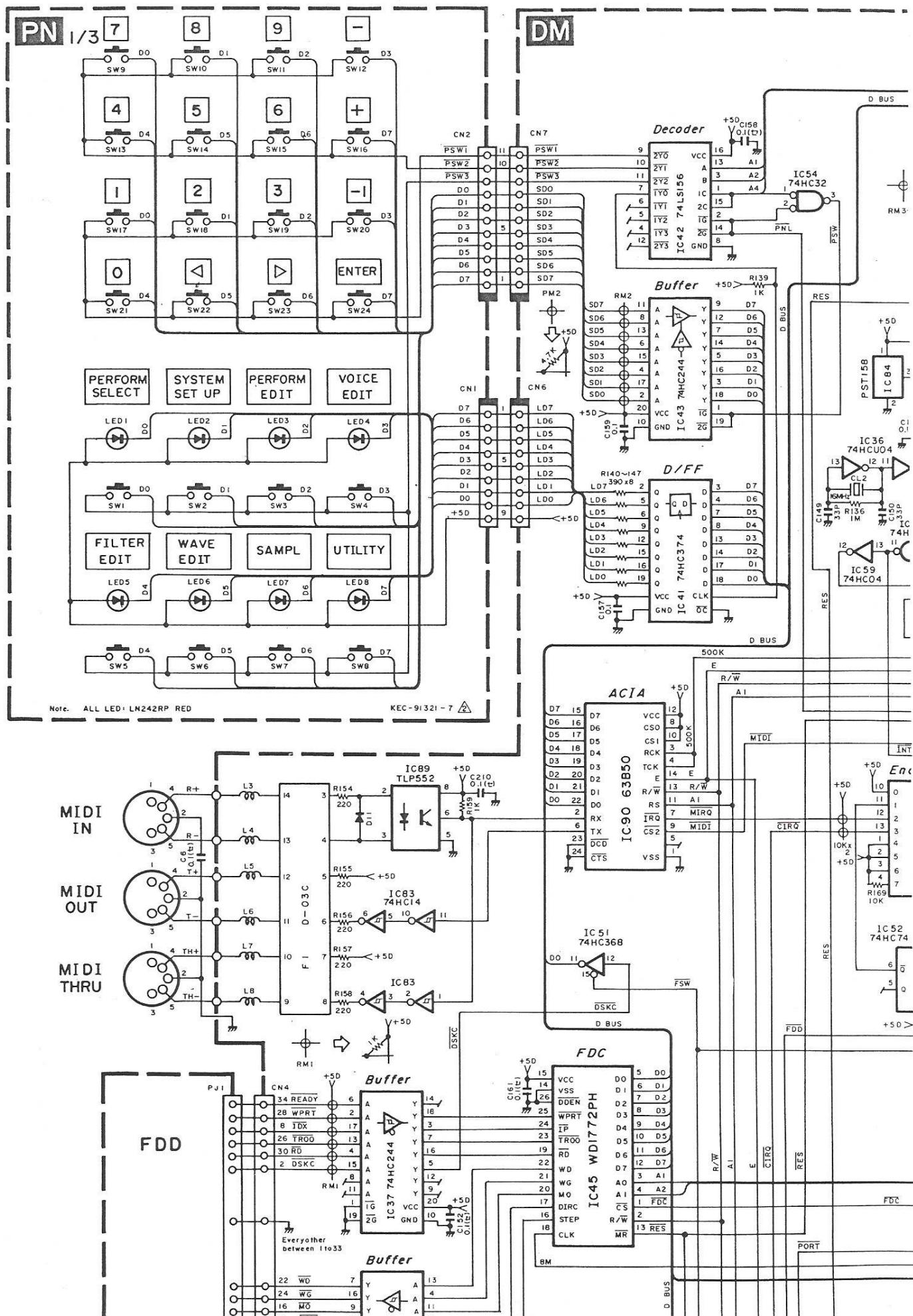
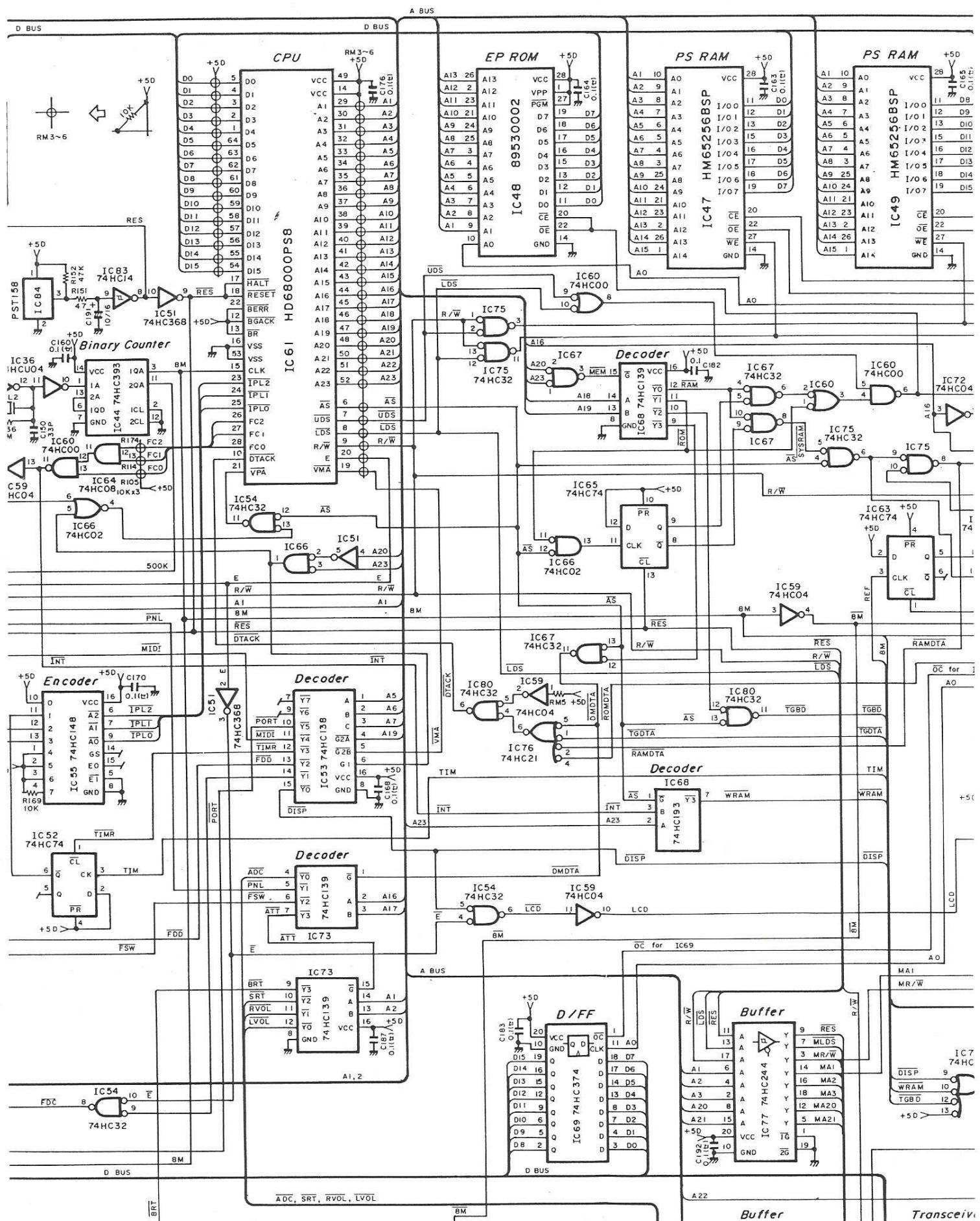
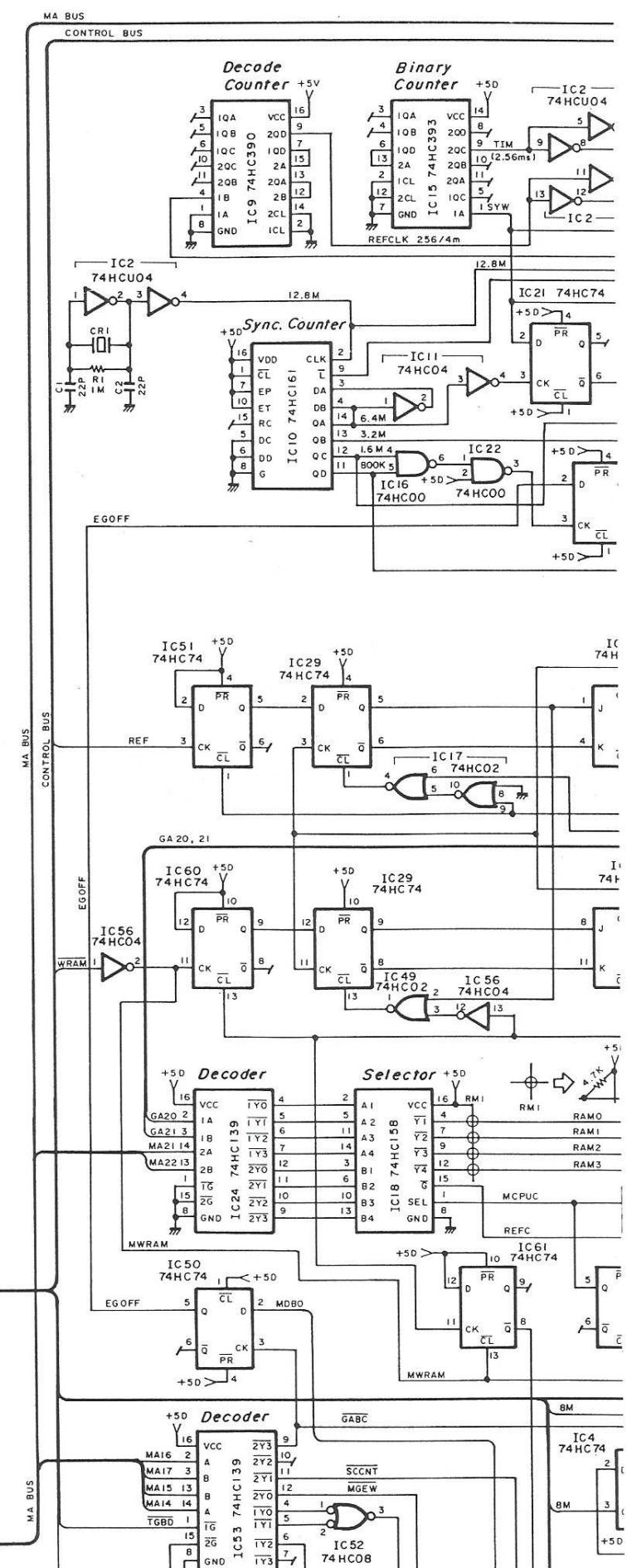
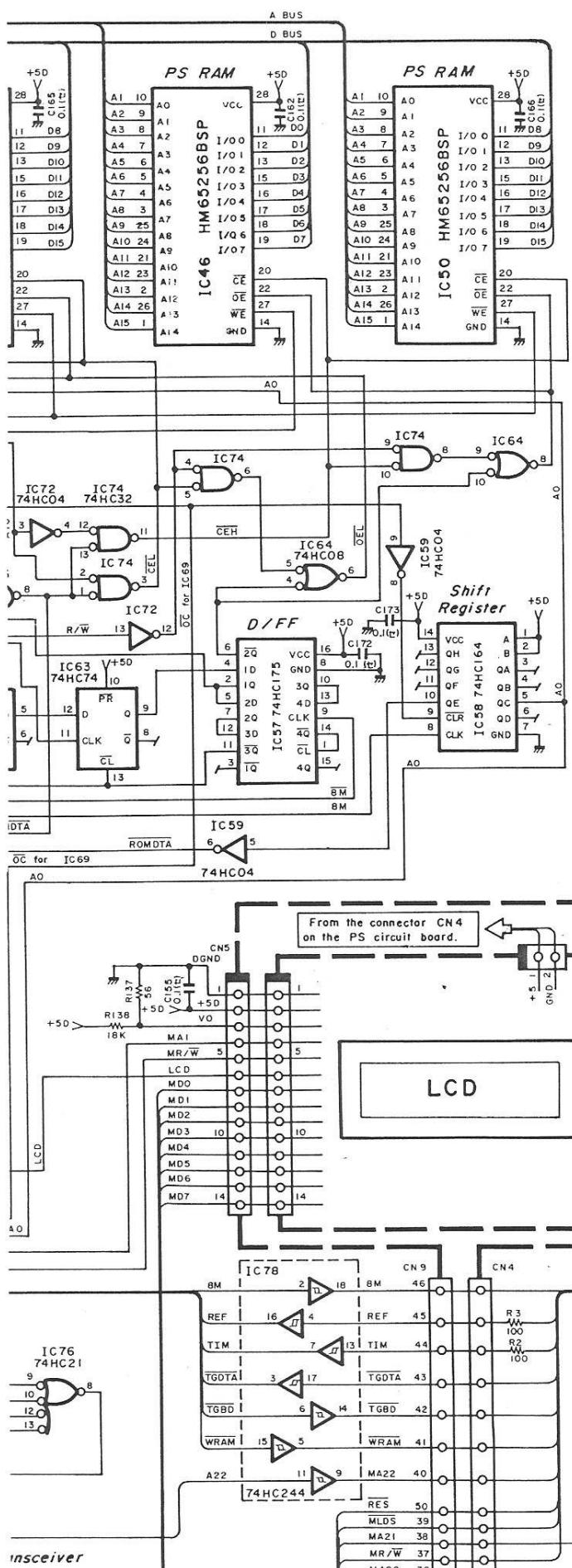


## ■ TX16W OVERALL CIRCUIT DIAGRAM





TG

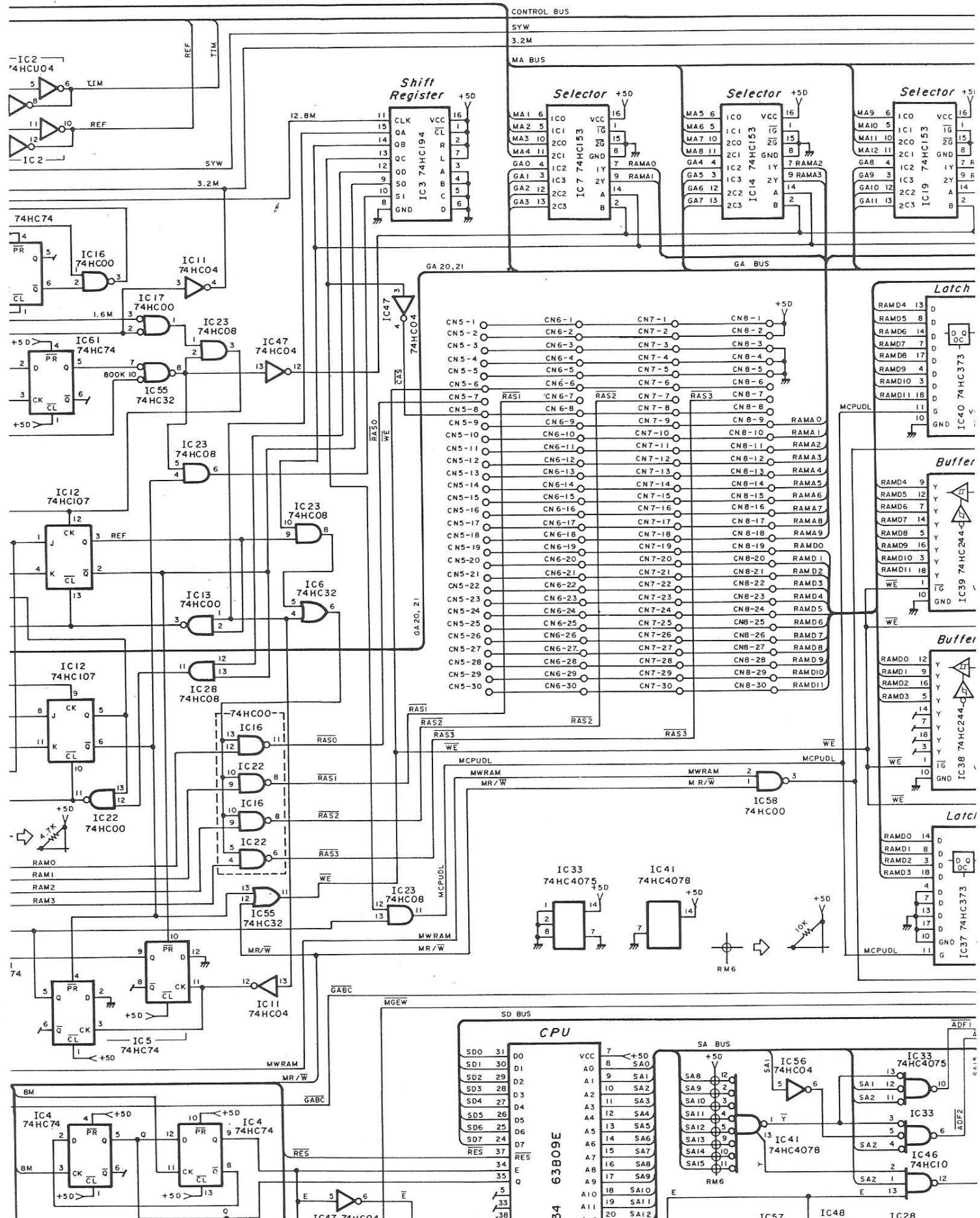


N

L

0

P

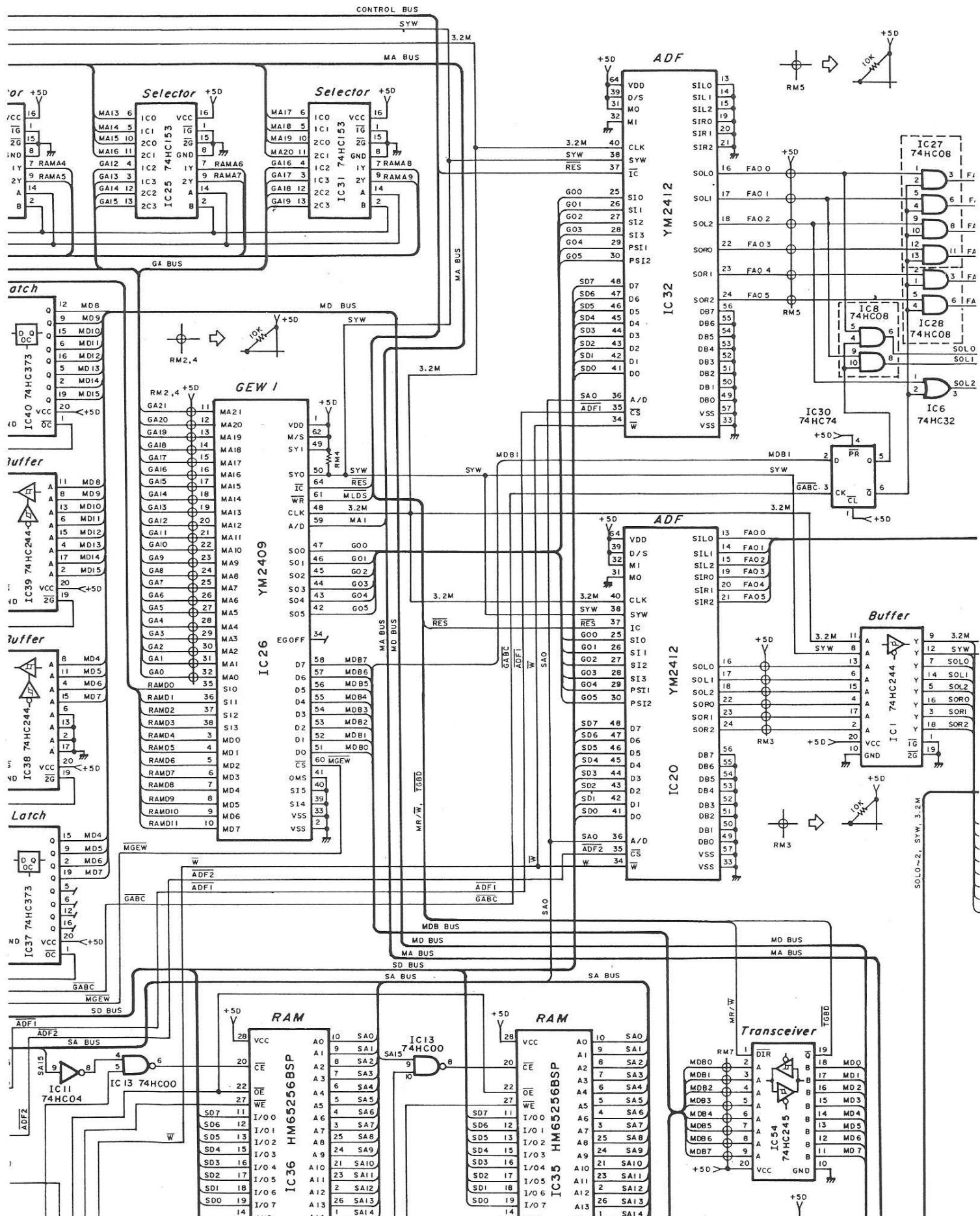


Q

R

8

T



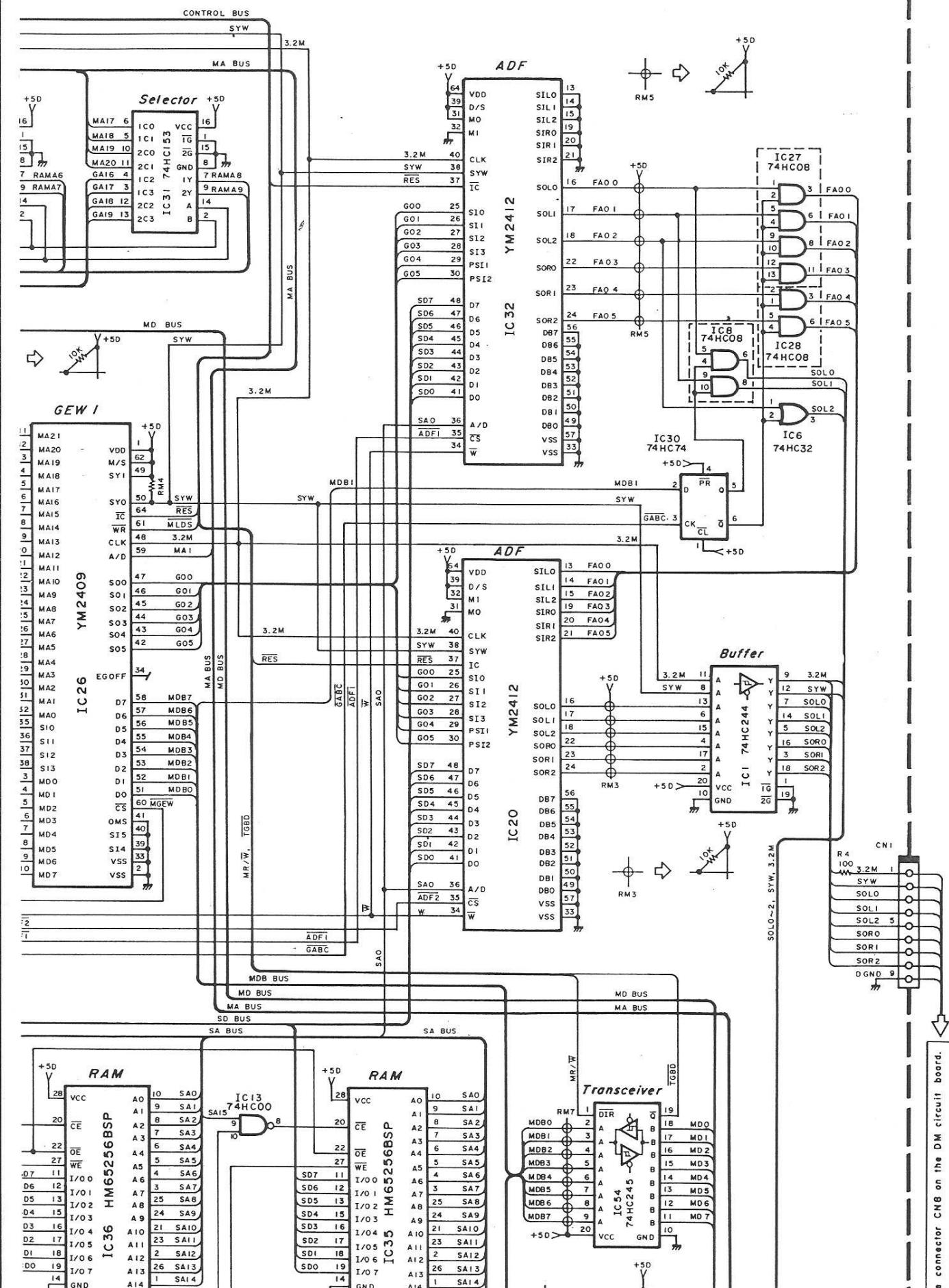
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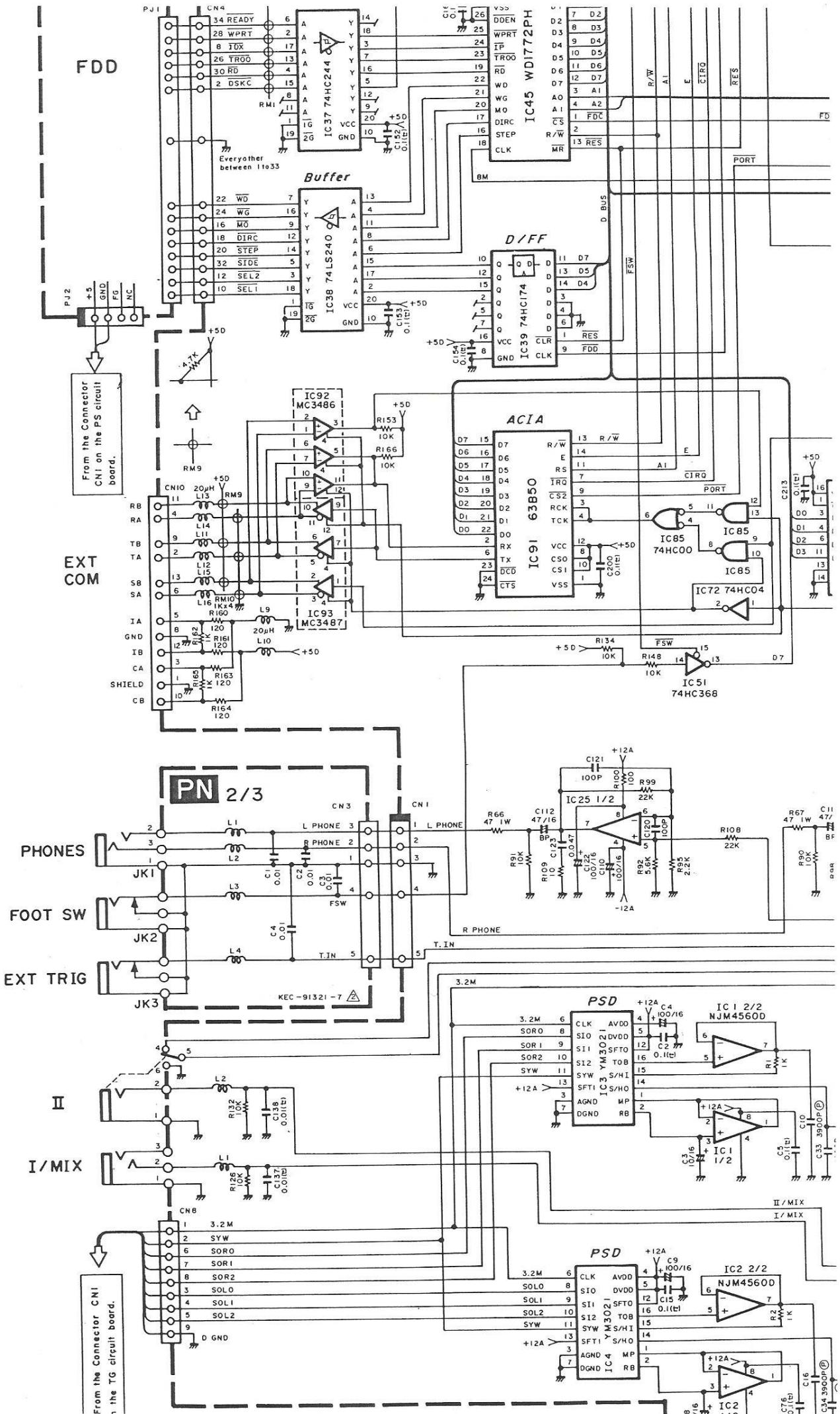
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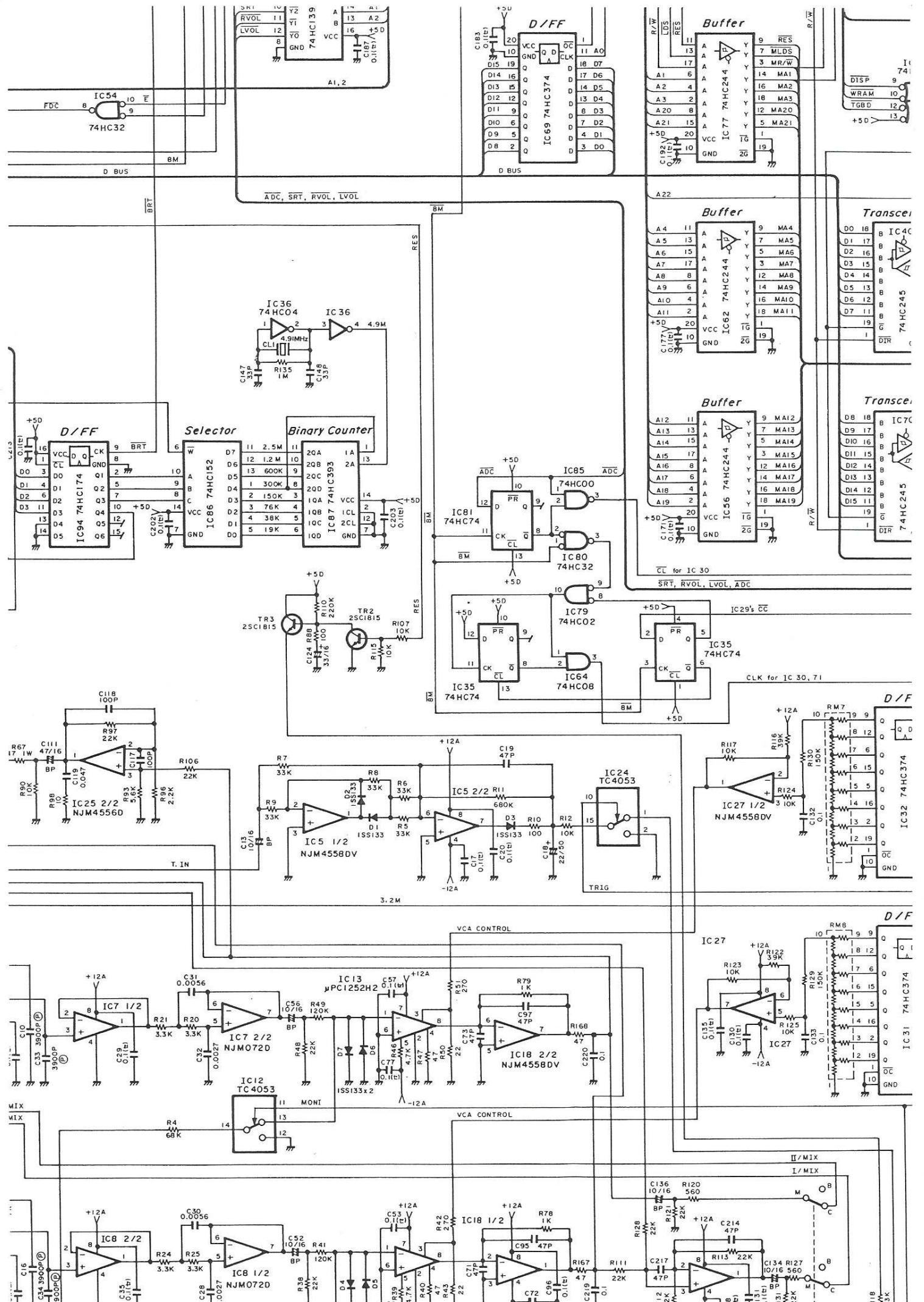
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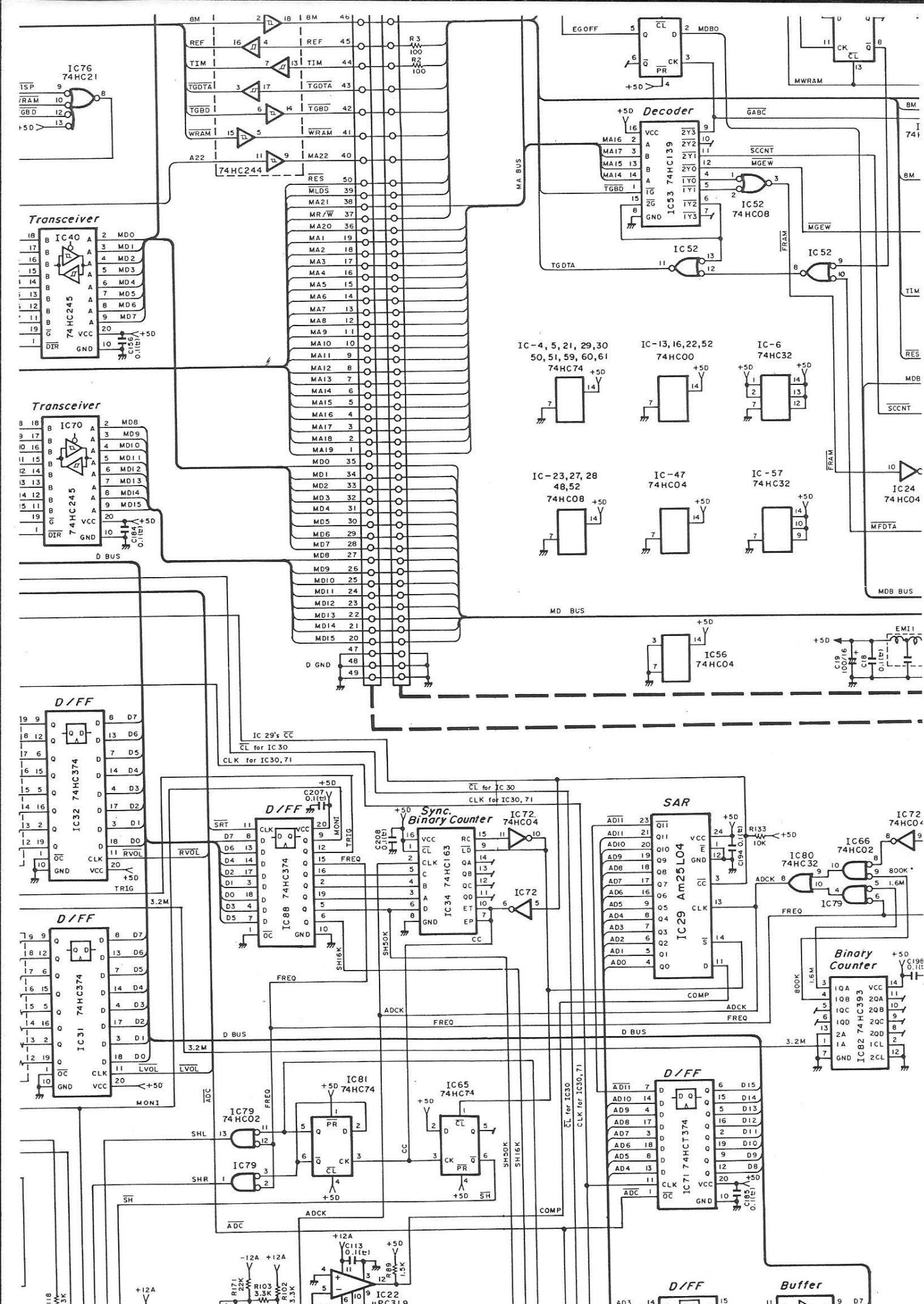
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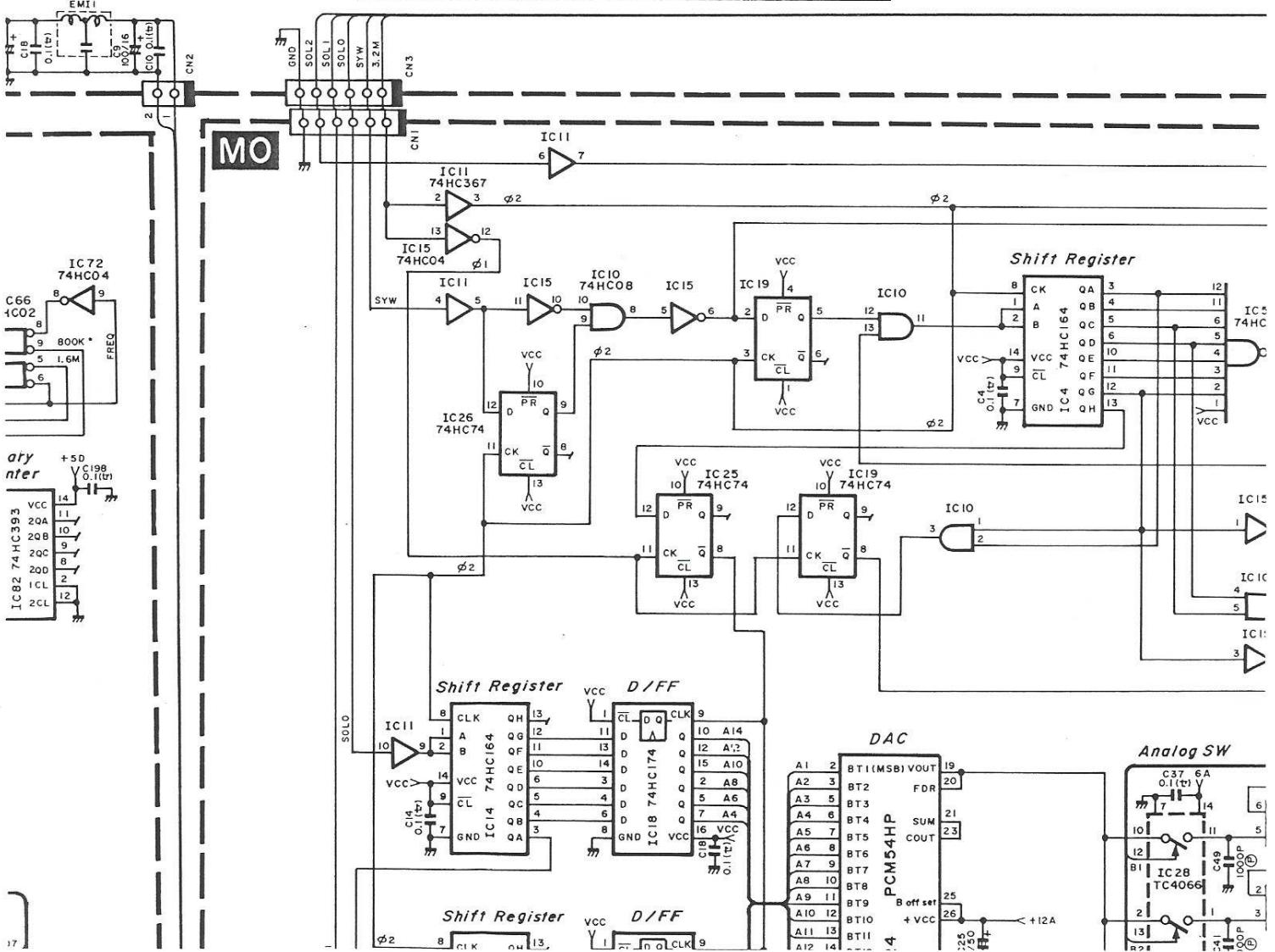
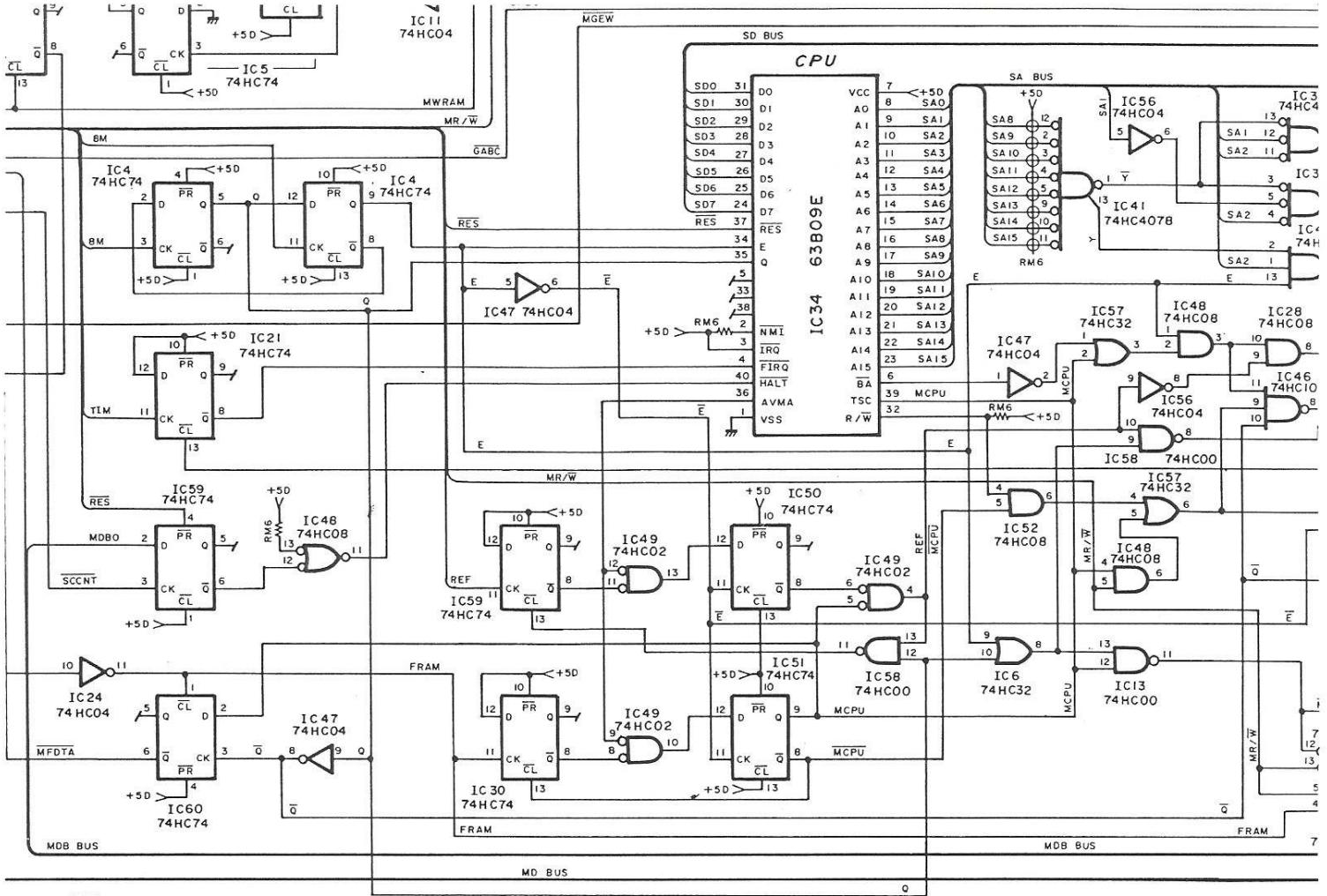
TX16W

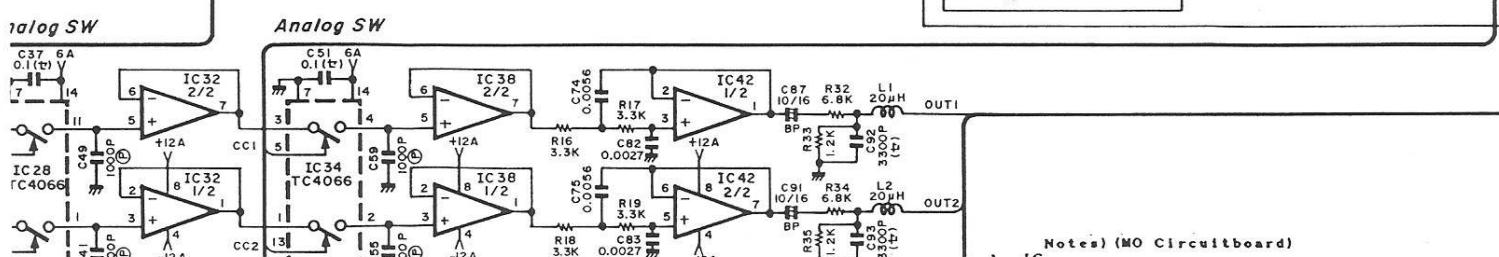
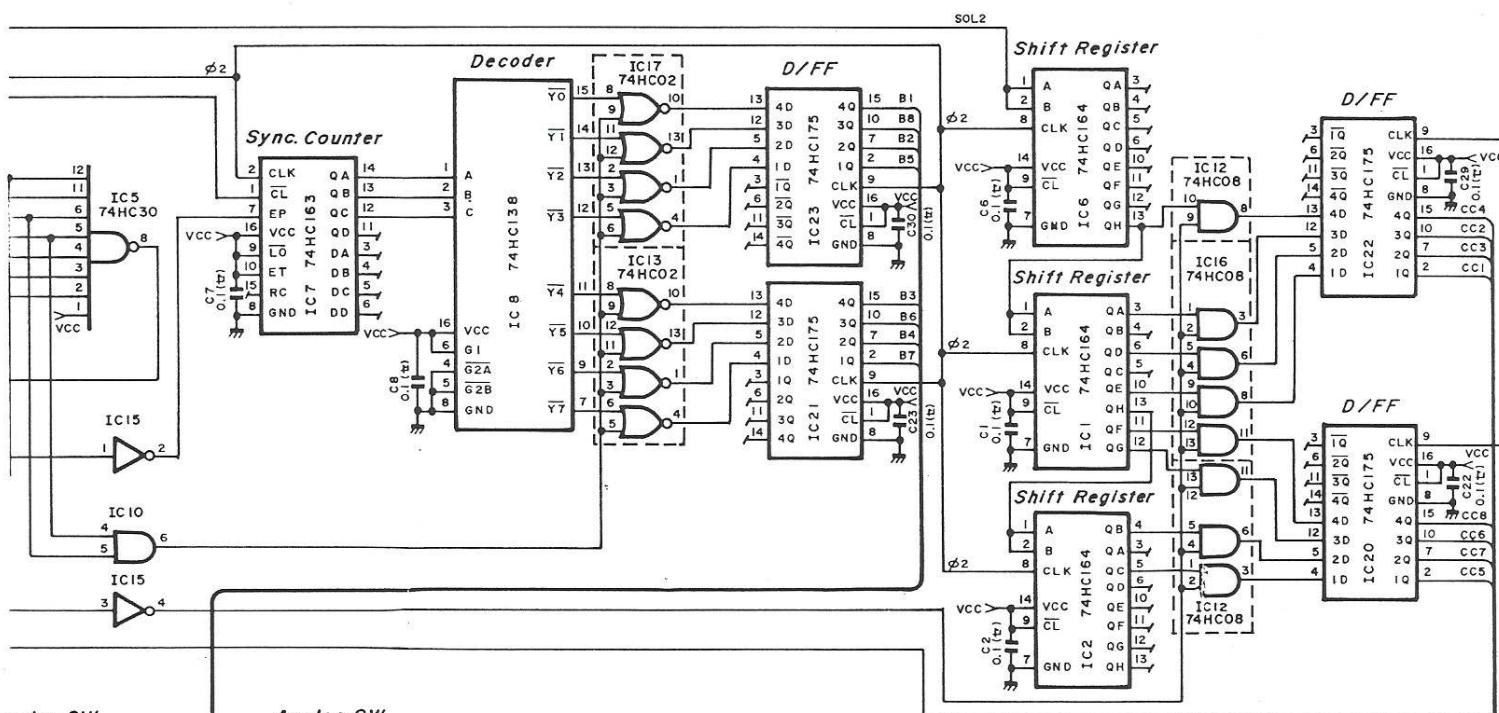
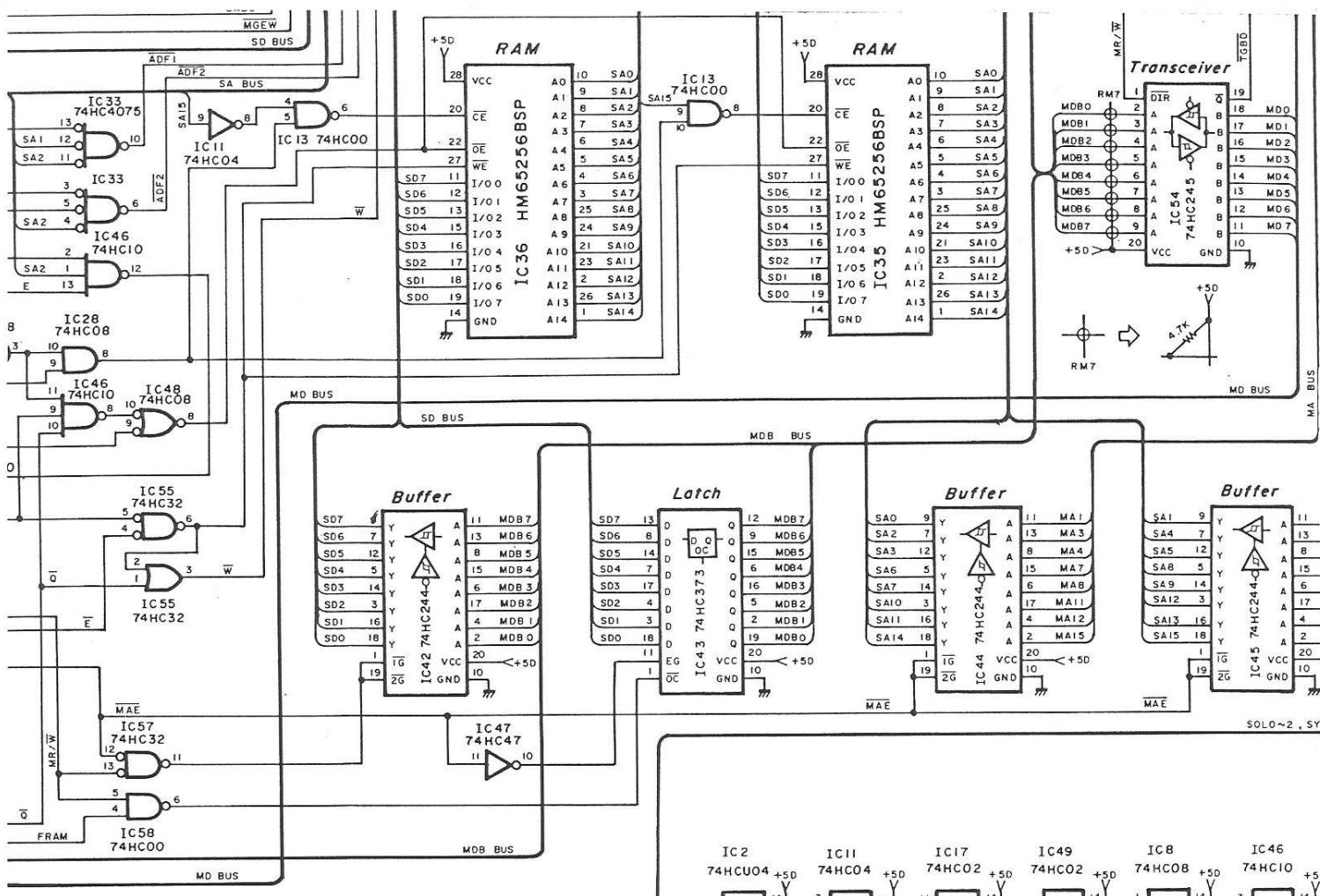




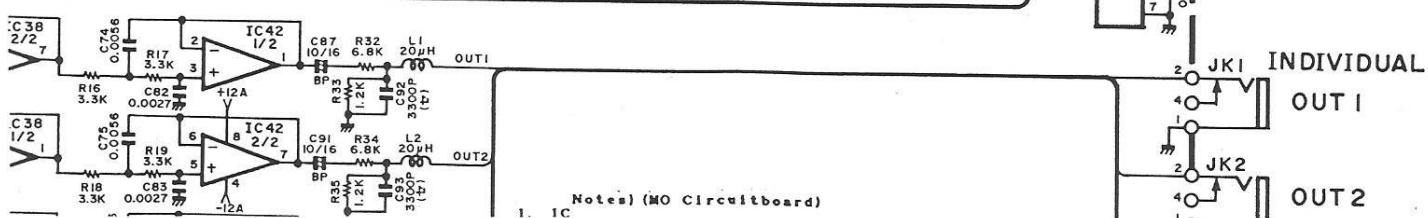
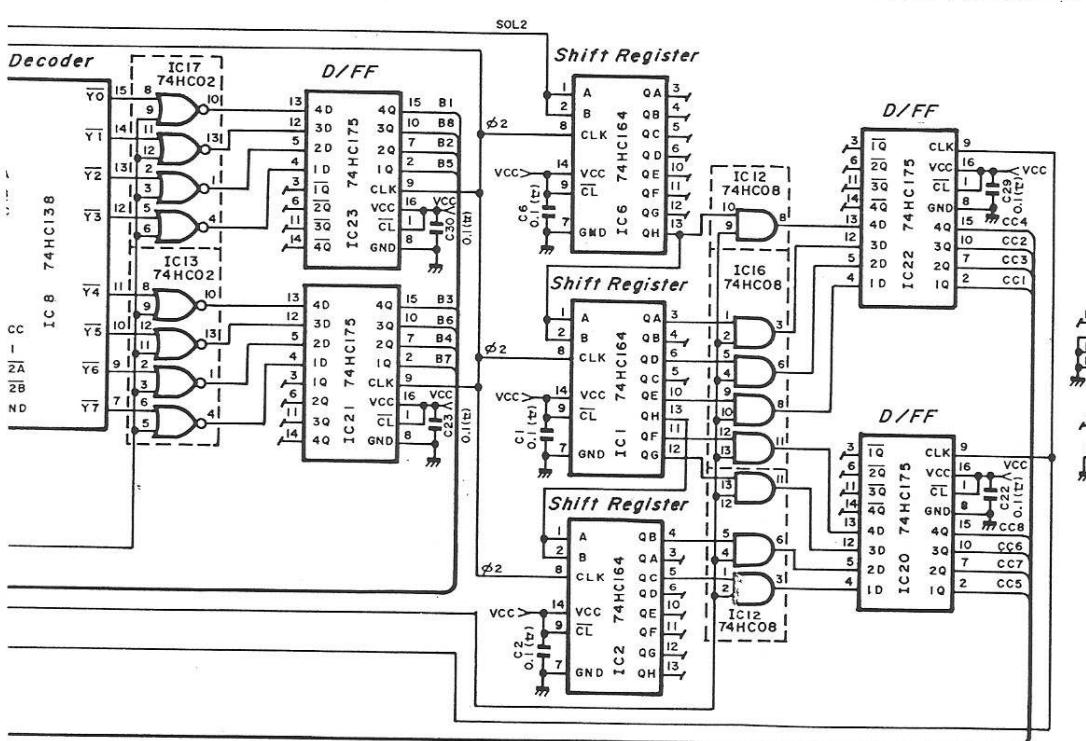
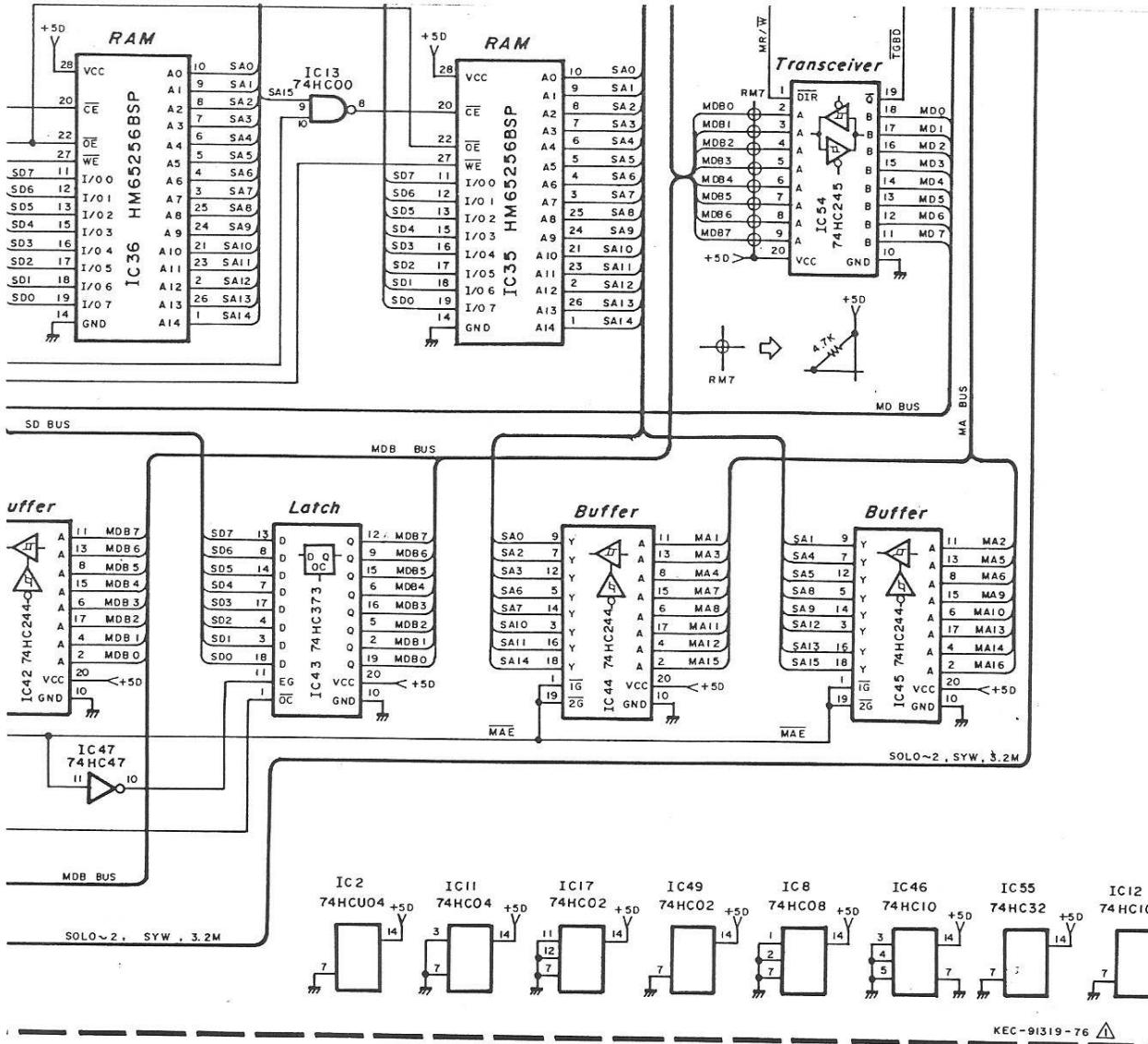


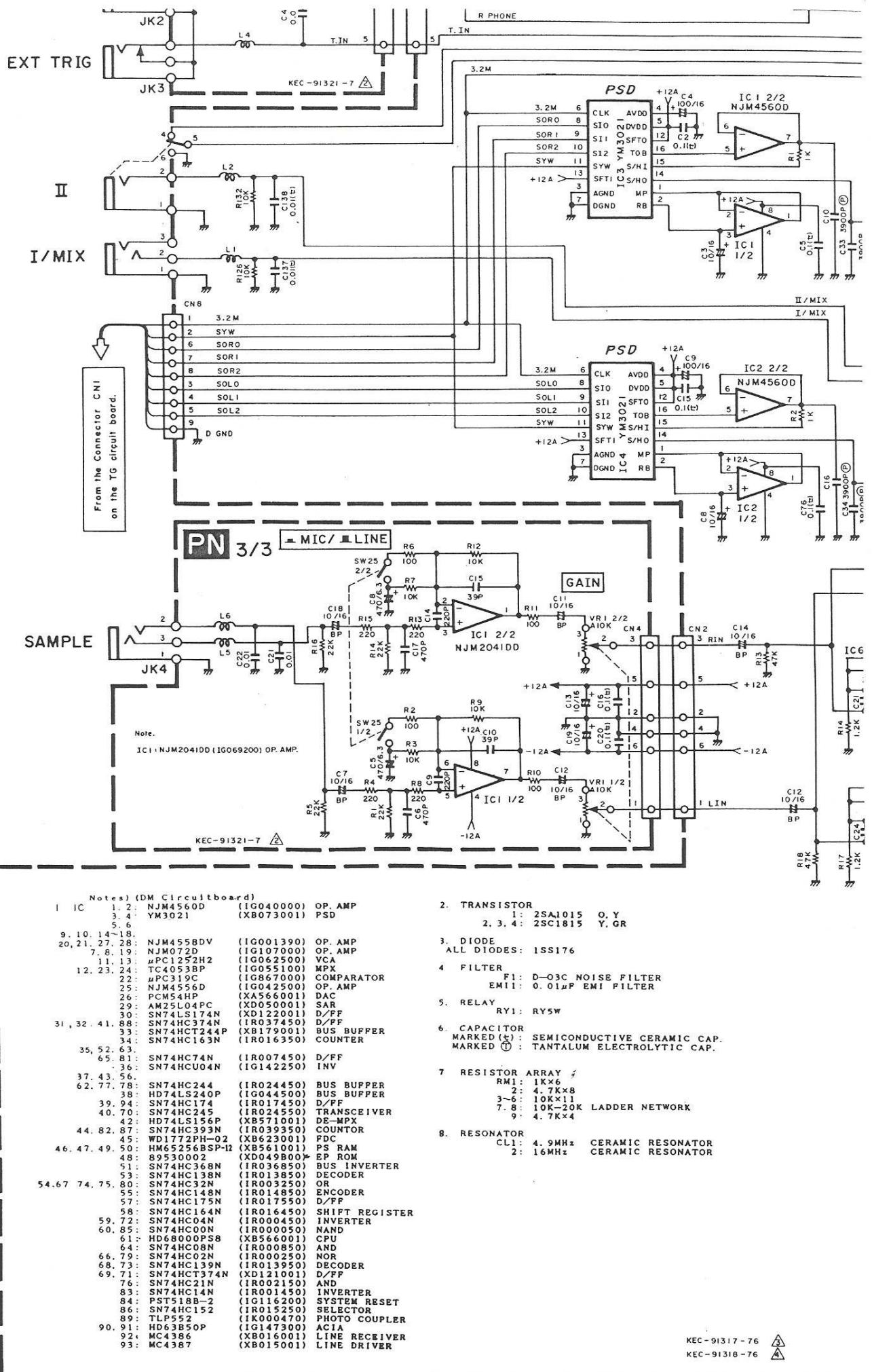




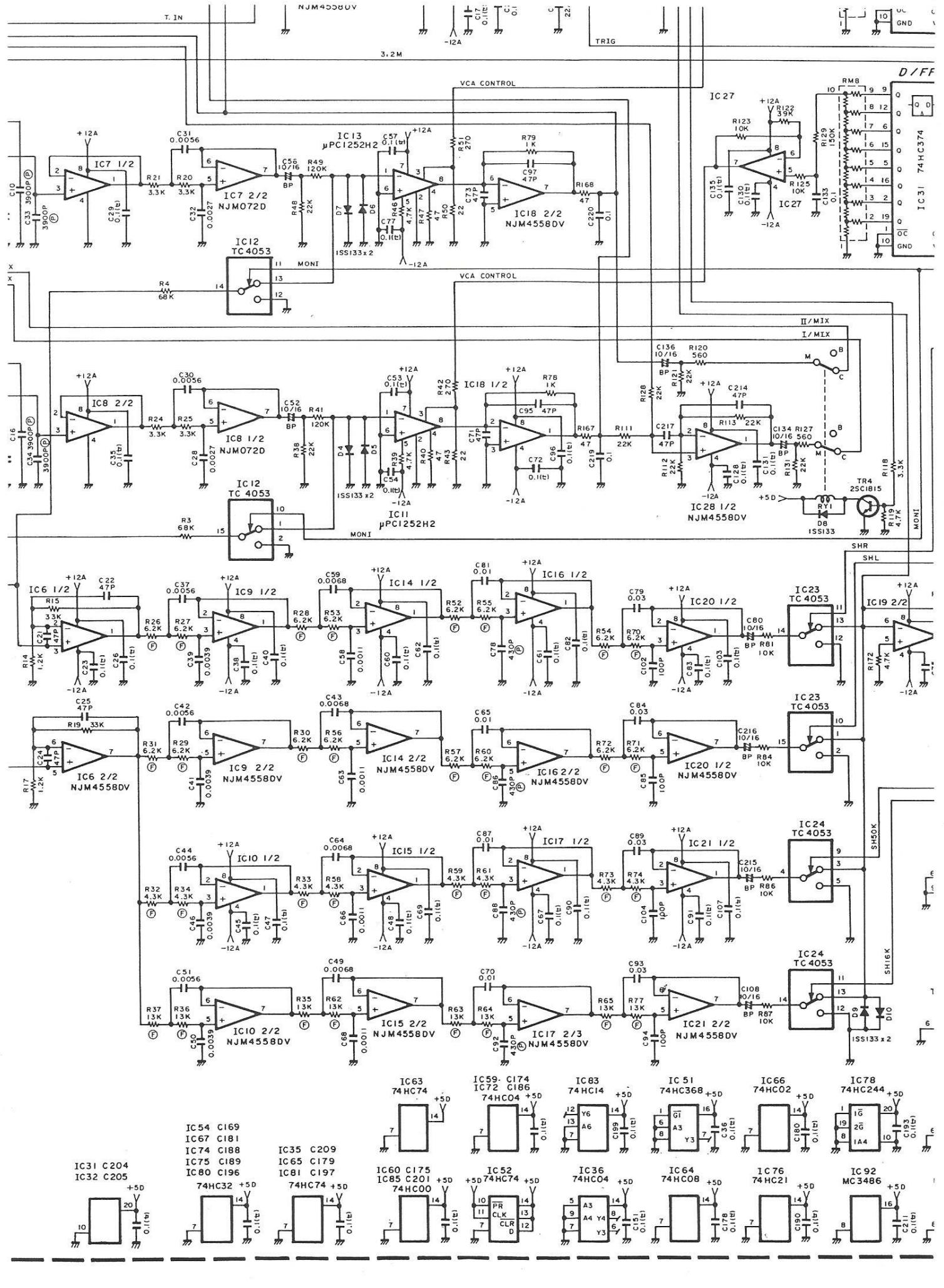


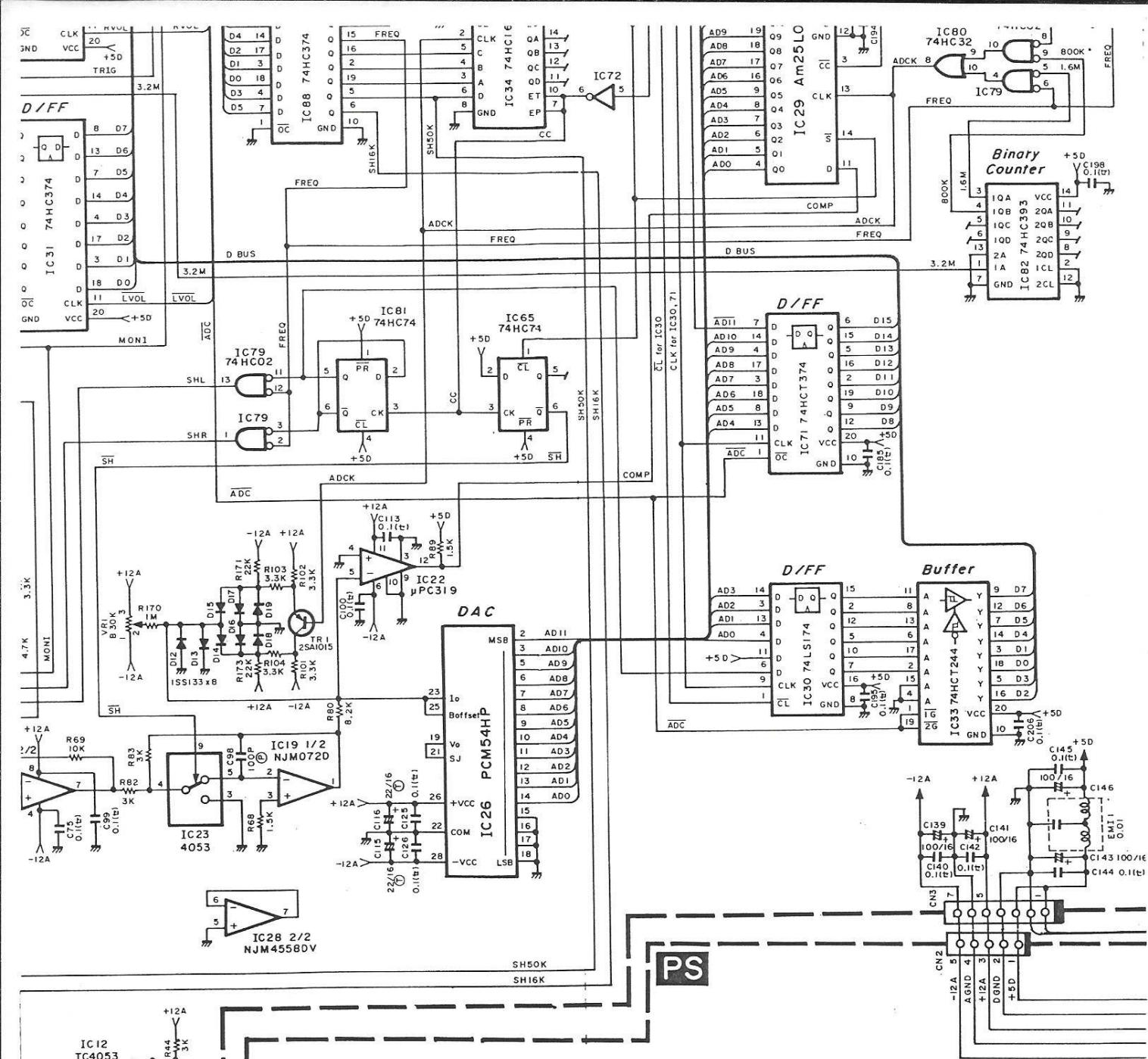
To the connector CN8 on the DM circuit board.



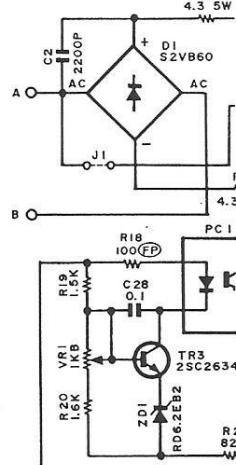
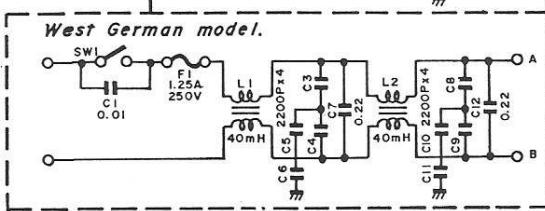
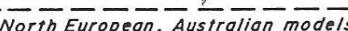
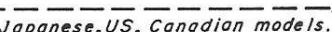


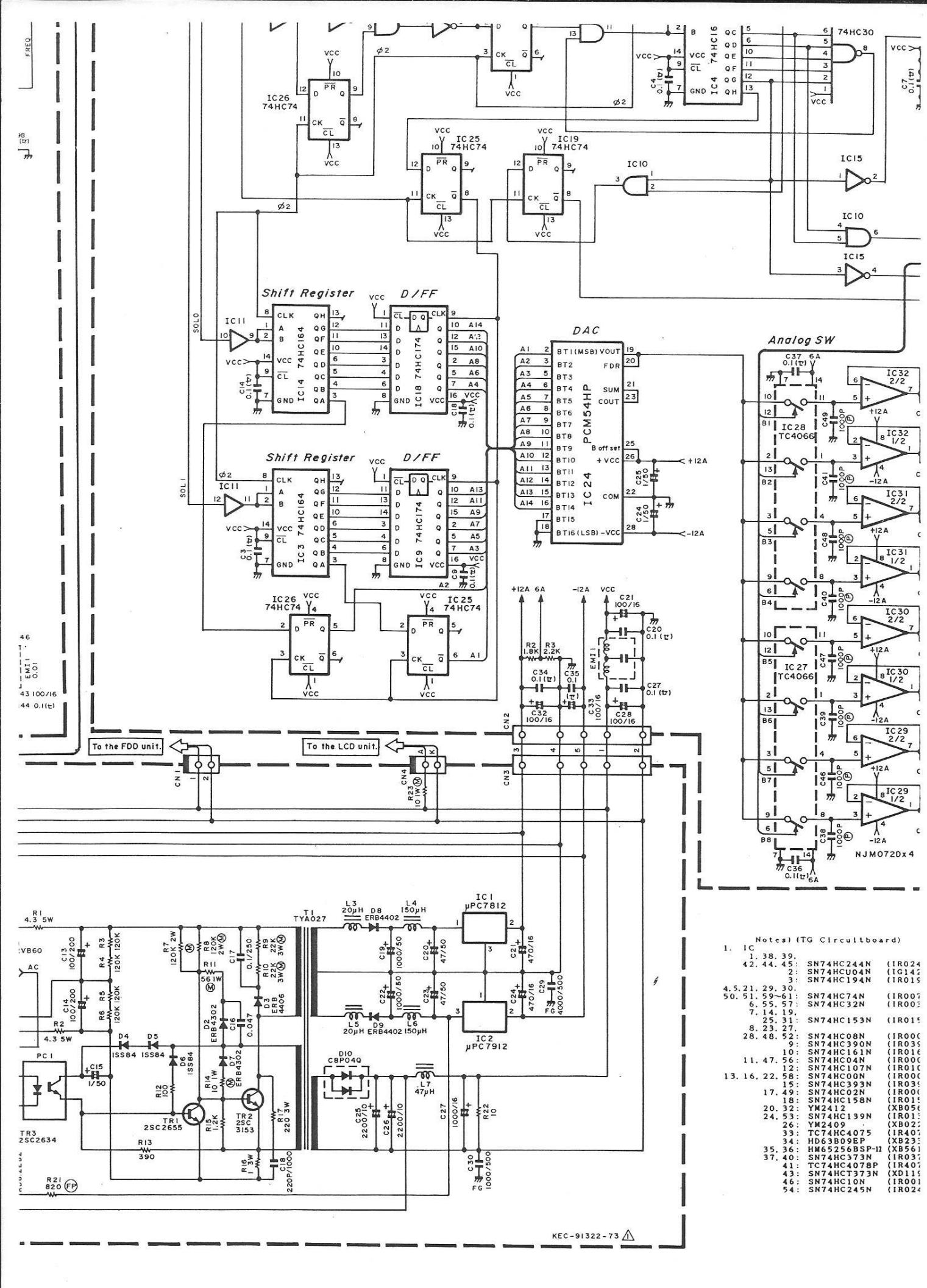
TX16W

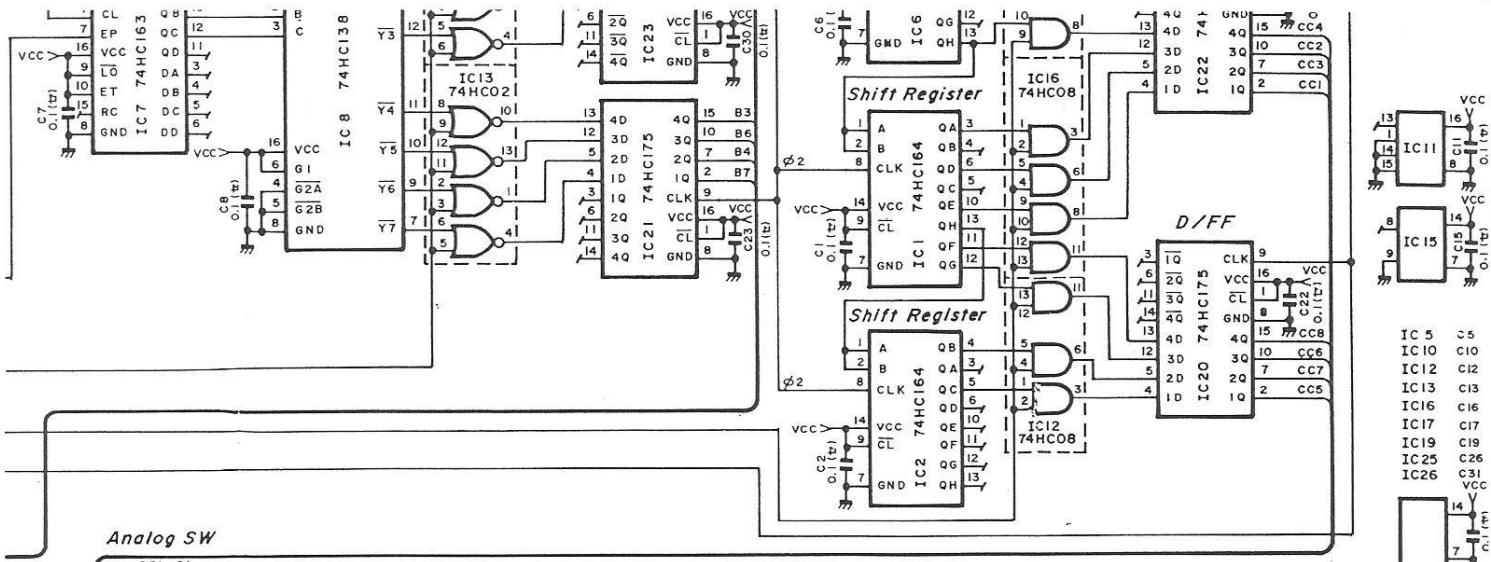




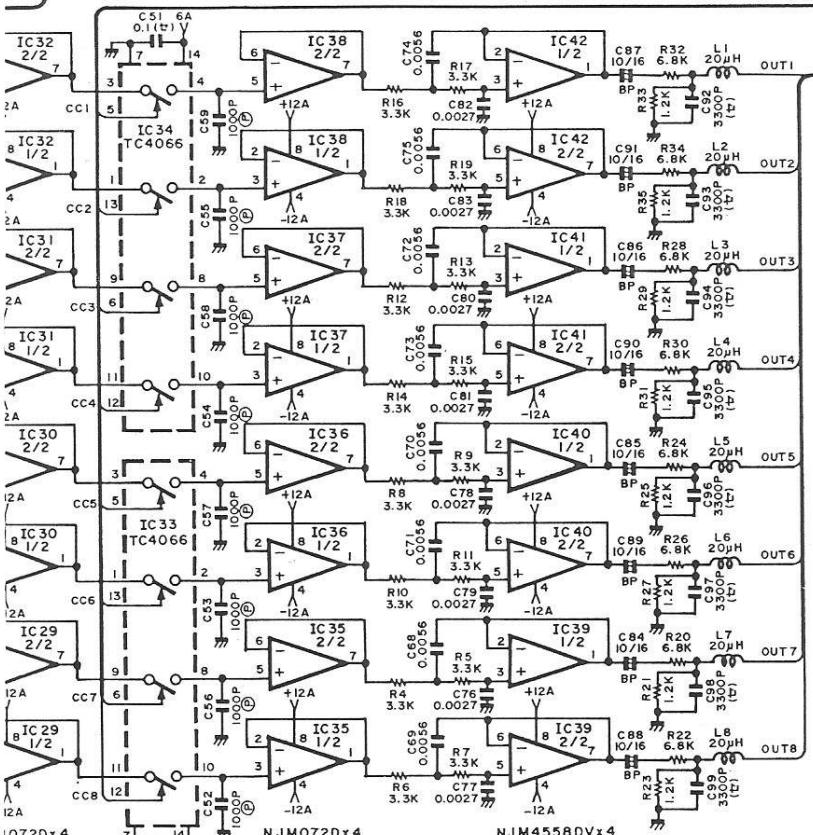
Notes) (PS Circuitboard)  
 IC  
   1: μPC7812H      (IG033250) REGULATOR +12V1A  
   2: μ7912H        (IG038050) REGULATOR +12VA  
 PHOTO COUPLER  
   PCI: PCB17    (IK000480) (Japanese, U.S. Canadian  
                     Models)  
   PC511    (IK000490) (North European,  
                     West German Models)  
 TRANSISTOR  
   'TR1: 2SC2655 O, Y  
   2: 2SC3153  
   3: 2SC2634 R,S,T  
 DIODE  
   D1: S2VB60  
   2: ERB4302  
   3: ERB4406  
   4-5:  
   8,9: ERB4404  
   10: CSD440Q  
   ZD1: RD6. 2EB2  
 RESISTOR  
   MARKED : METAL OXIDE FILM RESISTOR  
   MARKED : FLAME PROOF CARBON RESISTOR  
 JUMPER WIRE





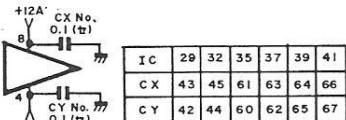


Analog SW



Notes) (MO Circuitboard)

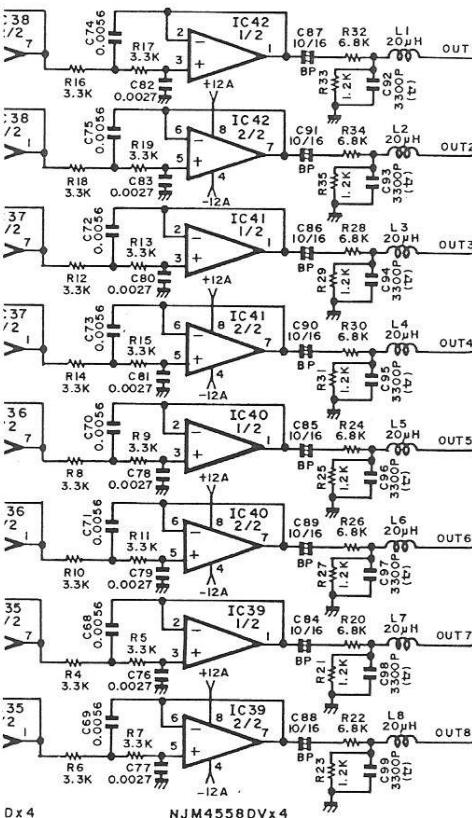
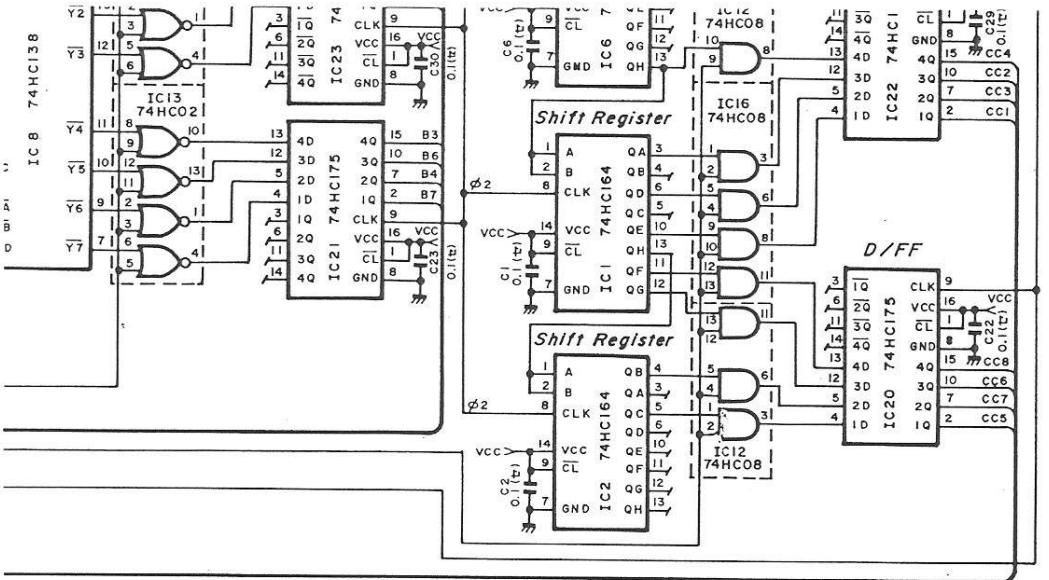
1. IC  
1~4, 6, 14: SN74HC164N (IR016450) SHIFT REGISTER  
5: SN74HC30N (IR003050)  
7: SN74HC163N (IR016350)  
8: SN74HC138N (IR013850)  
9, 18: SN74HC174N (IR017450)  
10, 12, 16: SN74HC08N (IR000850)  
11: SN74HC367N (IR036750)  
13, 17: SN74HC02N (IR000250)  
15: SN74HC04N (IR000450)  
19, 25, 26: SN74HC74N (IR007450)  
20~23: SN74HC175N (IR017550)  
24: PCM54HP (XAS66001)  
27, 28, 33, 34: TC4066BP (IG001270)  
29~35, 35~38: NJM072D (IG107000)  
39~42: NJM4558DV (IG001390) OP. AMP  
OP. AMP
2. FILTER  
EMI: 0.01 EMI FILTER
3. CAPACITOR  
MARKED (t): SEMICONDUCTIVE CERAMIC CAP.



IC	29	32	35	37	39	41
CX	43	45	61	63	64	66
CY	42	44	60	62	65	67

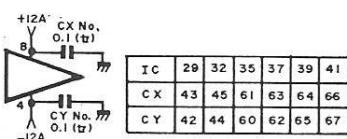
KEC-91320-73

- xard)
- (IR024450) BUS BUFFER  
(IG142250) INVERTER  
(IR019450) SHIFT REGISTER
  2. RESONATOR  
CR1: QUARTZ CRYSTAL UNIT 12.8MHz
  3. CAPACITOR  
MARKED (t): SEMICONDUCTIVE CERAMIC CAP.
  4. RESISTOR ARRAY  
R11: 4.7Kx4  
2, 4: 10Kx12  
3, 5: 10Kx6  
6: 10Kx12  
7: 4.7Kx8
  5. PASS CON  
+50 V  
C3~8  
11~17  
20~43
- (IR000850) AND  
(IR009020) DECODE COUNTER  
(IR016150) SYNC COUNTER  
(IR000450) INVERTER  
(IR010750) JK FF  
(IR000050) NAND  
(IR039350) BINARY COUNTER  
(IR000250) NOR  
(IR015850) SELECTOR  
(XB056001) ADF  
(IR013950) DECODER  
(XB022001) GEW1  
(IR0407500) OR  
(XB233001) CPU  
(XB561001) PS RAM  
(IR037350) D-LATCH  
P (IR407800) OR/NOR  
N (XD119001) D-LATCH  
(IR001050) NAND  
(IR024550) TRANSCIEVER



**Notes (NO Circuitboard)**

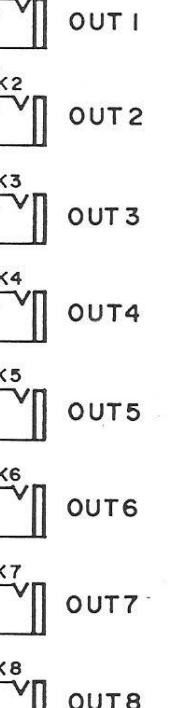
1. IC  
1~4, 6, 14: SN74HC164N (IR016450) SHIFT REGISTER  
5: SN74HC30N (IR003050) NAND  
7: SN74HC163N (IR016350) COUNTER  
8: SN74HC138N (IR013850) DECODER  
9, 18: SN74HC174N (IR017450) D/FF  
10, 12, 16: SN74HC08N (IR000850) AND  
11: SN74HC367N (IR036750) BUS DRIVER  
13, 17: SN74HC02N (IR000250) NOR  
15: SN74HC04N (IR000450) INVERTER  
19, 25, 26: SN74HC74N (IR007450) D/FF  
20~23: SN74HC175N (IR017550) D/FF  
24: PCM54HP (XA566001) DAC  
27, 28, 33, 34: TC4066BP (IG001270) ANALOG SW  
29~35, 35~38: NJM072D (IG107000) OP. AMP  
39~42: NJM4558DV (IG001390) OP. AMP
2. FILTER  
EMI1: 0.01 EMI FILTER
3. CAPACITOR  
MARKED (t): SEMICONDUCTIVE CERAMIC CAP.



IC	29	32	35	37	39	41
CX	43	45	61	63	64	66
CY	42	44	60	62	65	67

KEC-91320-73

### INDIVIDUAL



2. RESONATOR  
CR1: QUARTZ CRYSTAL UNIT 12.8MHz

3. CAPACITOR  
MARKED (t): SEMICONDUCTIVE CERAMIC CAP.

4. RESISTOR ARRAY  
RM1: 4.7Kx4  
2: 10Kx12  
3, 5: 10Kx6  
6: 10Kx12  
7: 4.7Kx8

5. PASS CON  
+50 C3-8  
11-17  
20-43

TX16W