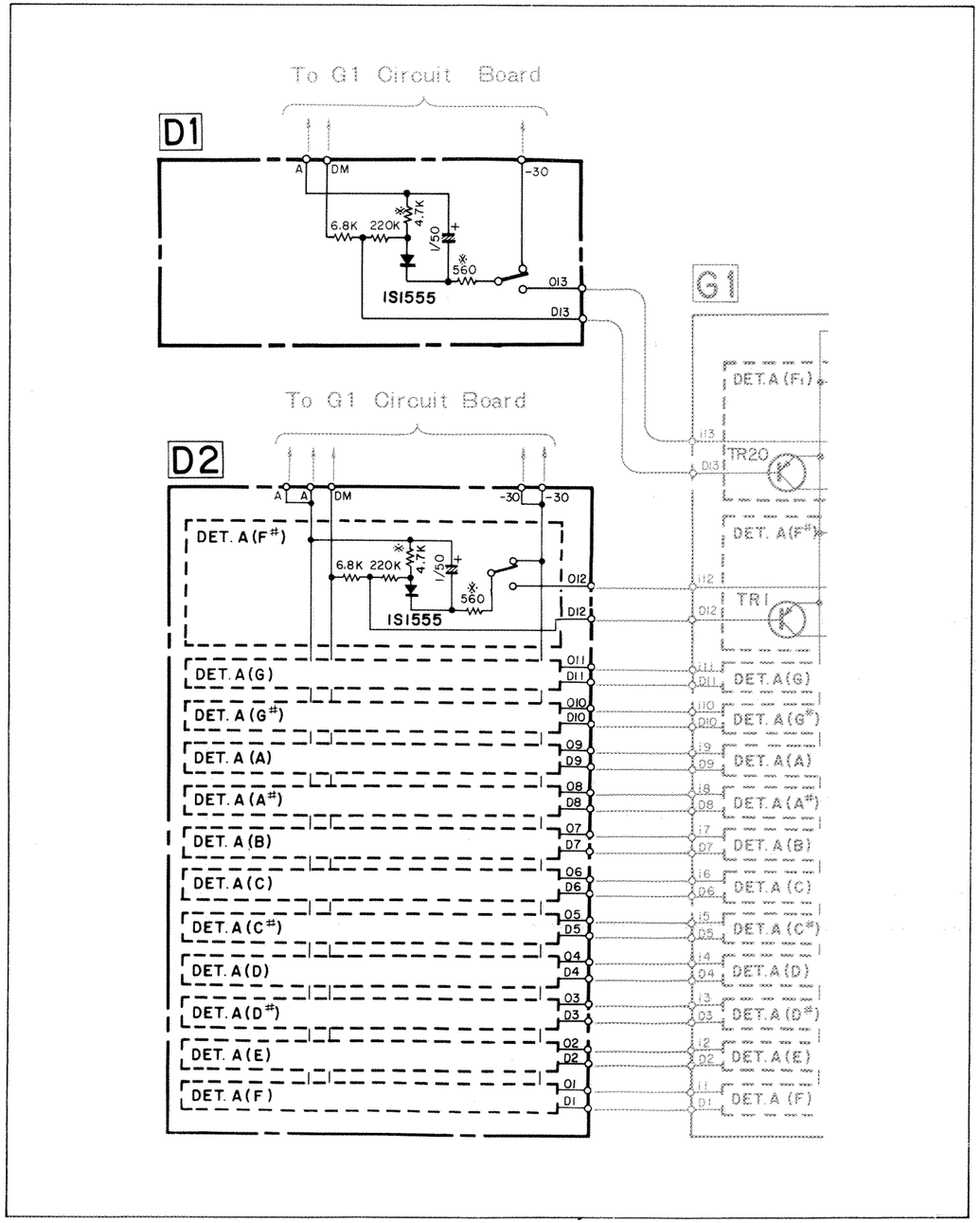
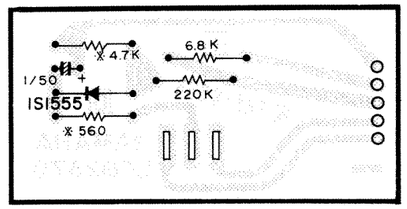
1. D1、D2 CIRCUIT BOARD

● D1・D2 Circuit



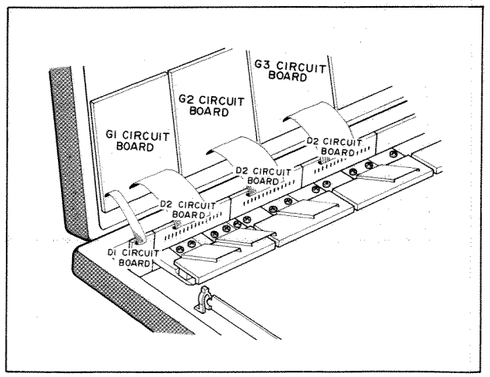
● D1 Circuit Board

NA80316



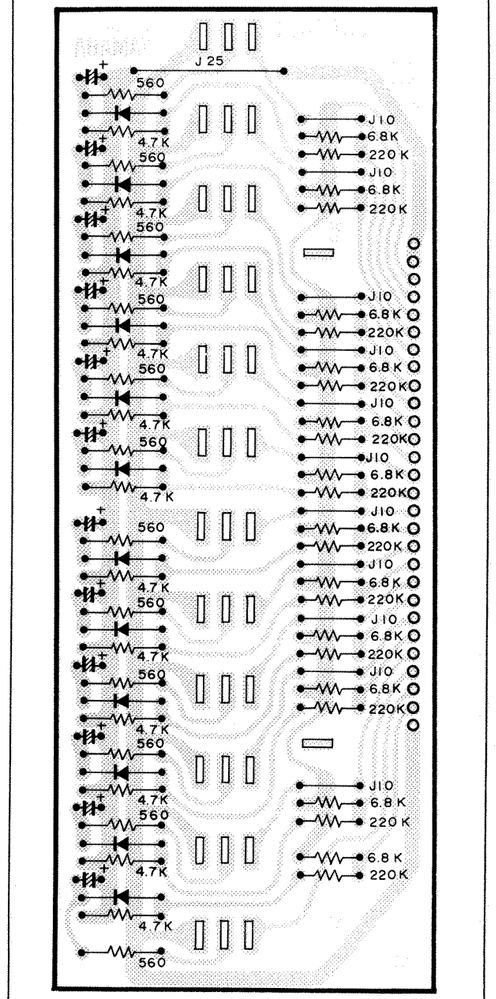
- D1, D2 Circuit Board
  1. Diode
     1S1555
  2. Electrolytic capacitor
     1/50 (±10%)
  3. Resistor
     Resistors, marked (*): 1/4W

- **NOTE:** The D circuit board and the G circuit board should be wired with jumper wires.
  Then fix them up with two-sided sticky tape from above.



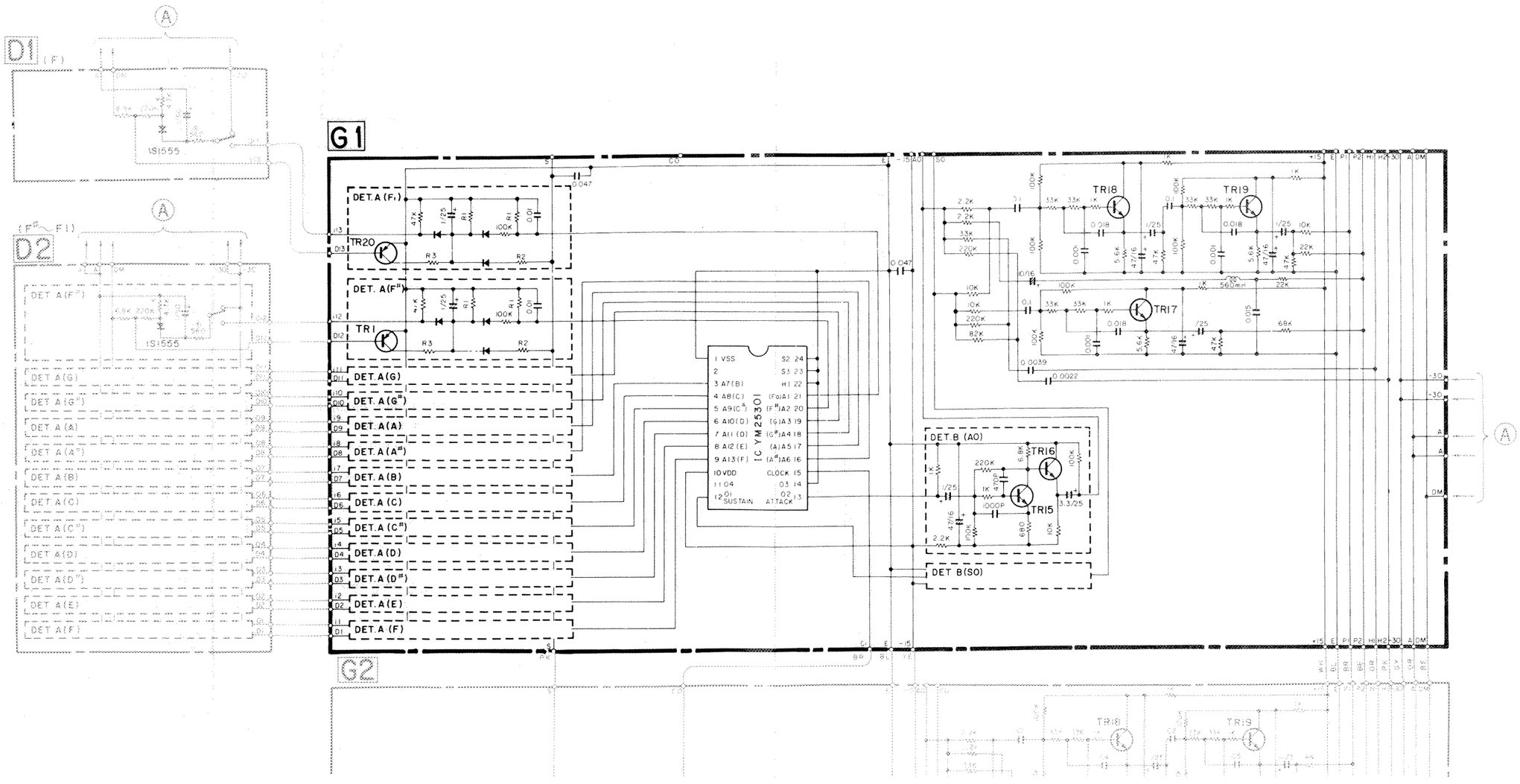
● D2 Circuit Board

NA80220



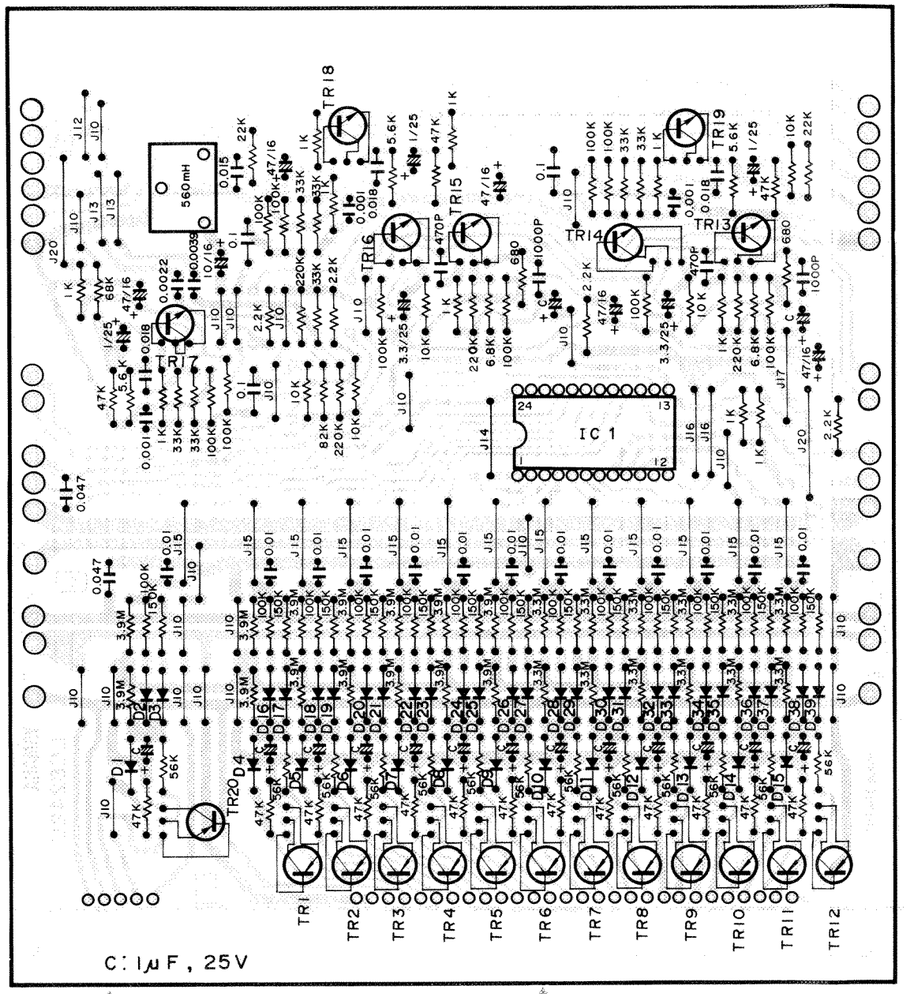
2 G1 CIRCUIT BOARD T

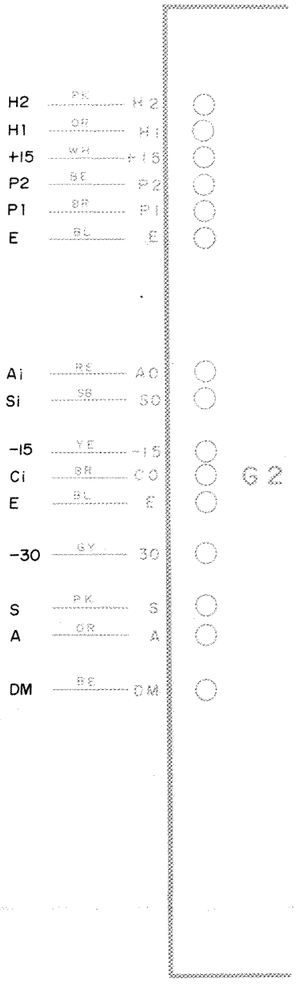
● G1 Circuit



● G1 Circuit Board

NA80308





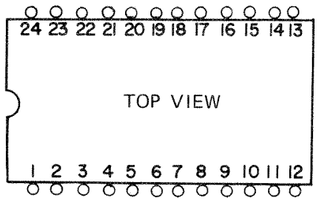
▼ **Semiconductors, to be used.**

1. iC1 : YM25301
2. Transistor
   Tr1～12, 20 : 2SA844 (D or E)
   Tr13～19 : 2SC458LG, (C)
3. Diode
   D1～39 : 1S1555

▼ **Applied Sections**

1. Drive Circuit (13 circuits)
2. Divider/Keying Circuit (iC YM25301)
3. AMP Circuit (2 circuits, Tr13, 14/15, 16)
4. RC Filter Circuit (2 circuits)
5. Active Filter Circuit (3 circuits, Tr17/18/19)
6. LC Filter Circuit

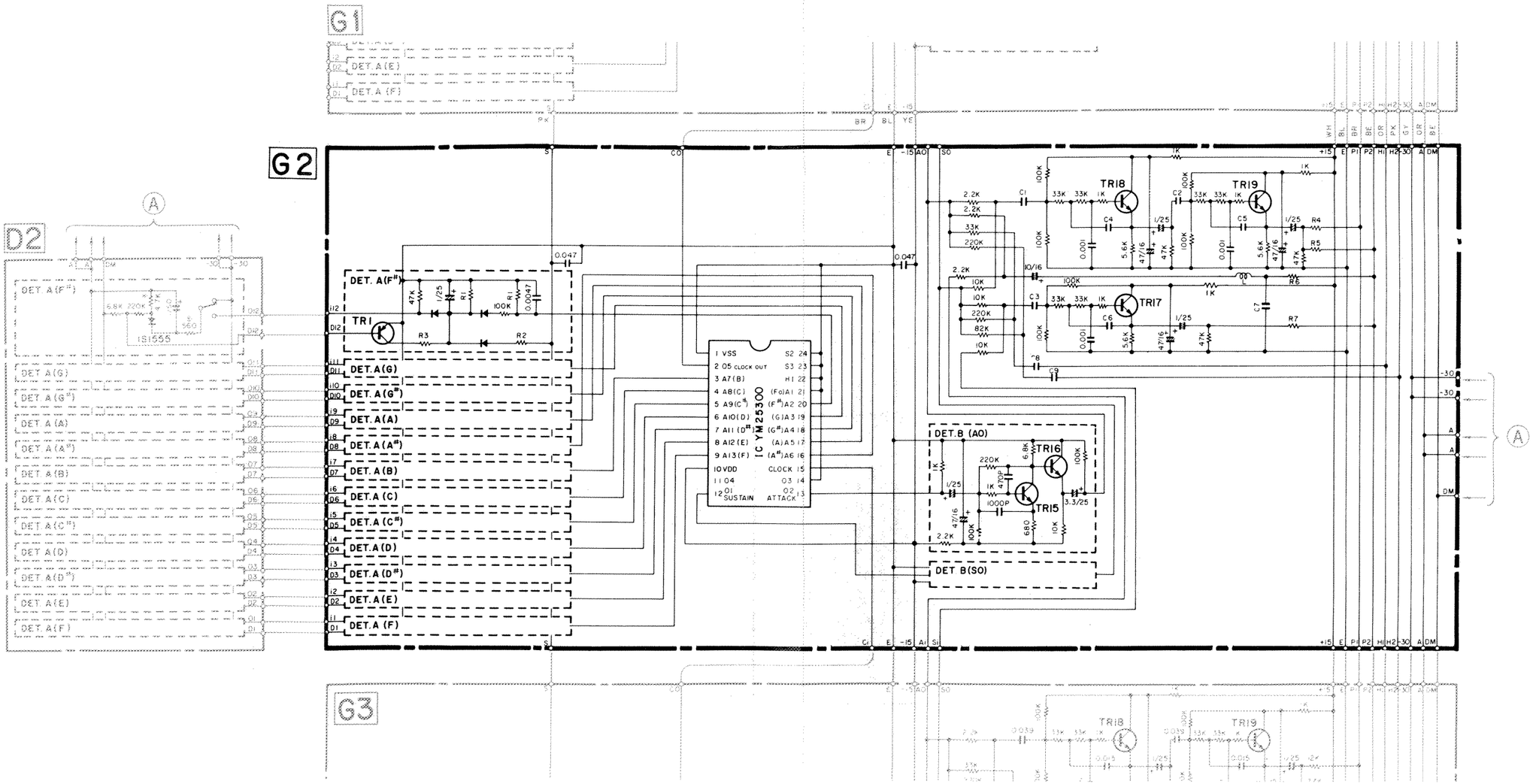
▼ **(iC Terminal Description) YM253**



Terminal No.	Terminal Name	Description
1	VSS	
2	05 CLOCK OUT	Clock output terminal YM25300
3	A7 (B)	input
4	A8 (C)	
5	A9 (C#)	
6	A10 (D)	
7	A11 (D#)	
8	A12 (E)	
9	A13 (F)	
10	VDD	−15V
11	04	
12	01 SUSTAIN	Sustain output
13	02 ATTACK	Attack output
14	03	
15	CLOCK	Clock input terminal
16	A6 (A#)	input
17	A5 (A)	
18	A4 (G#)	
19	A3 (G)	
20	A2 (F#)	
21	A1 (F)	
22	H1	
23	S3	
24	S2	

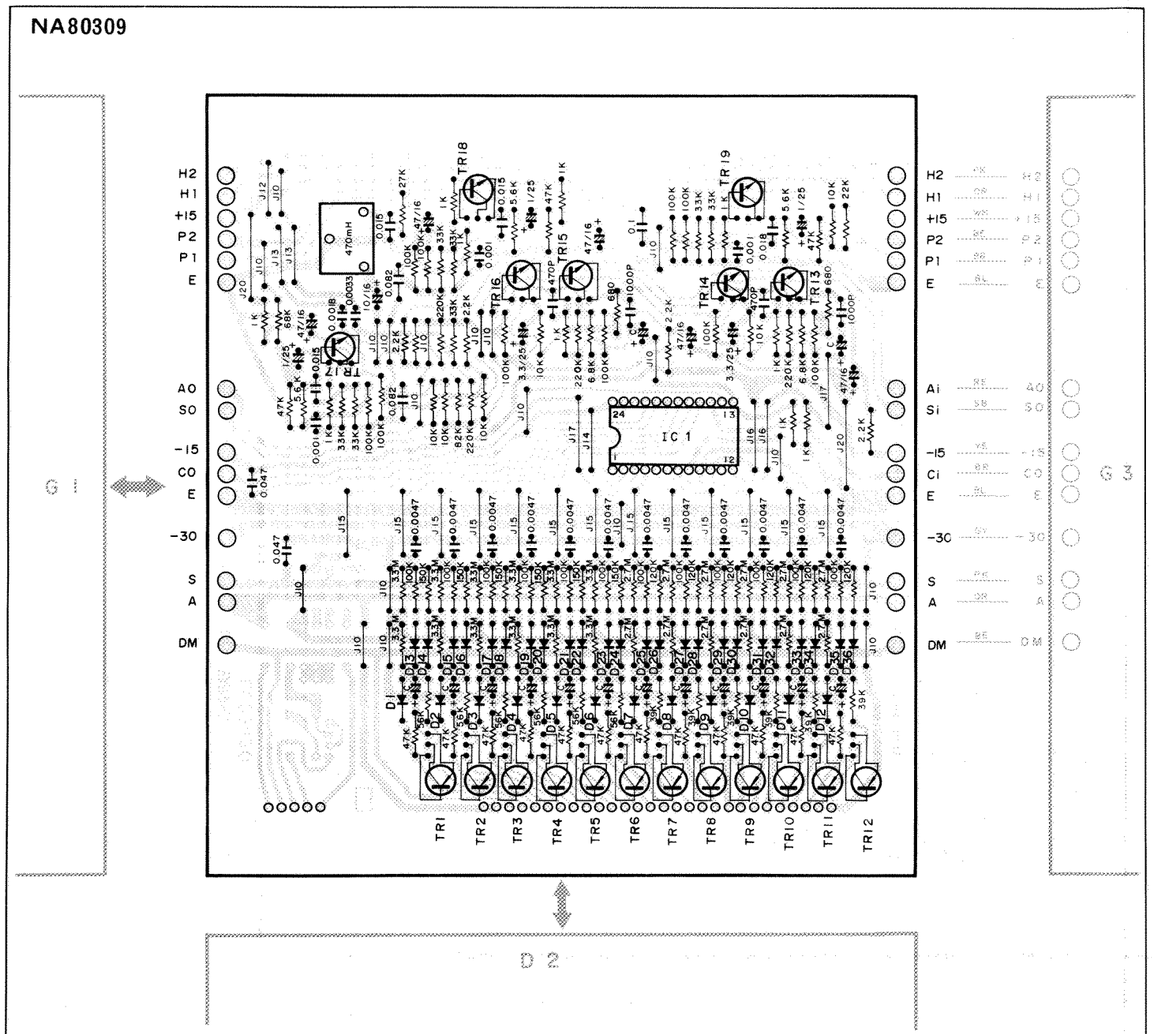
3. G2 · G4 CIRCUIT BOARD

● G2 · G4 Circuit



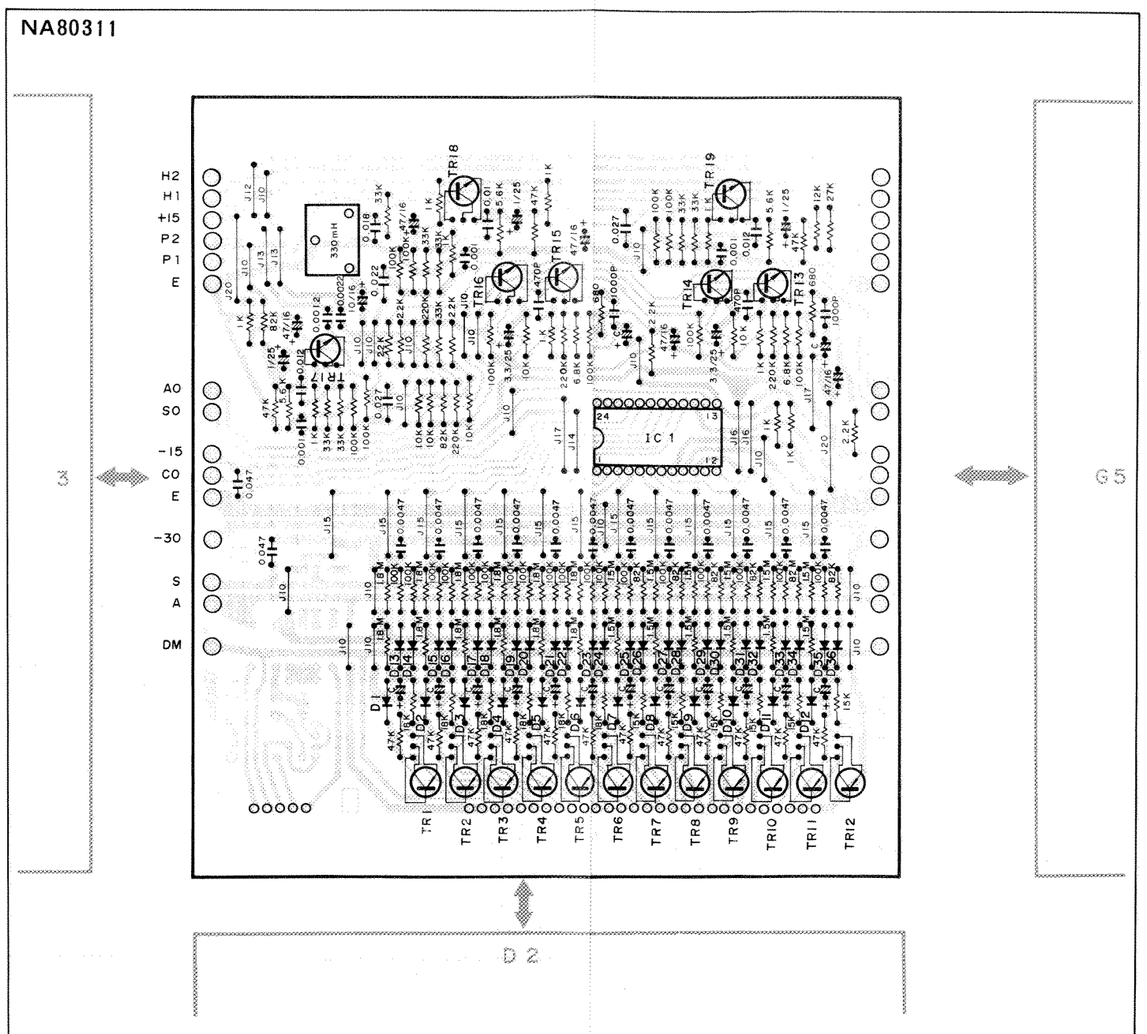
● G2 Circuit Board

NA80309



● G4 Circuit Board

NA80311



▼ **Semiconductors, to be used.**

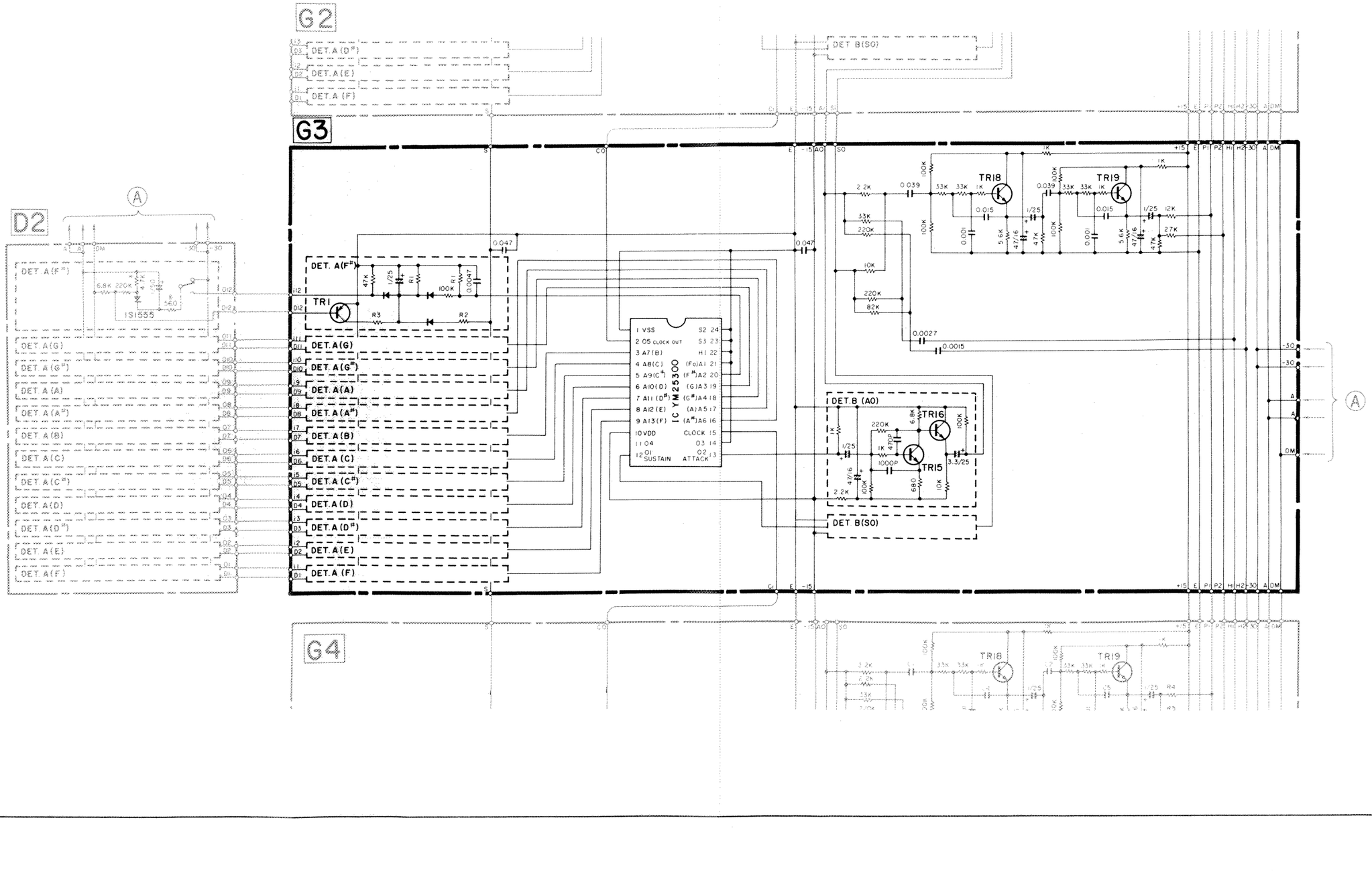
1. iC
   iC1 : YM25300
2. Transistor
   Tr1～12 : 2SA844 (D or E)
   Tr13～19 : 2SC458LG (C)

▼ **Applied Sections**

1. Drive Circuit (12 circuits)
2. Divider/Keying Circuit (iC YM25300)
3. AMP Circuit (2 circuits, Tr13, 14/15, 16)
4. RC Filter Circuit (2 circuits)
5. Active Filter Circuit (3 circuits, Tr17/18/19)
6. LC Filter Circuit

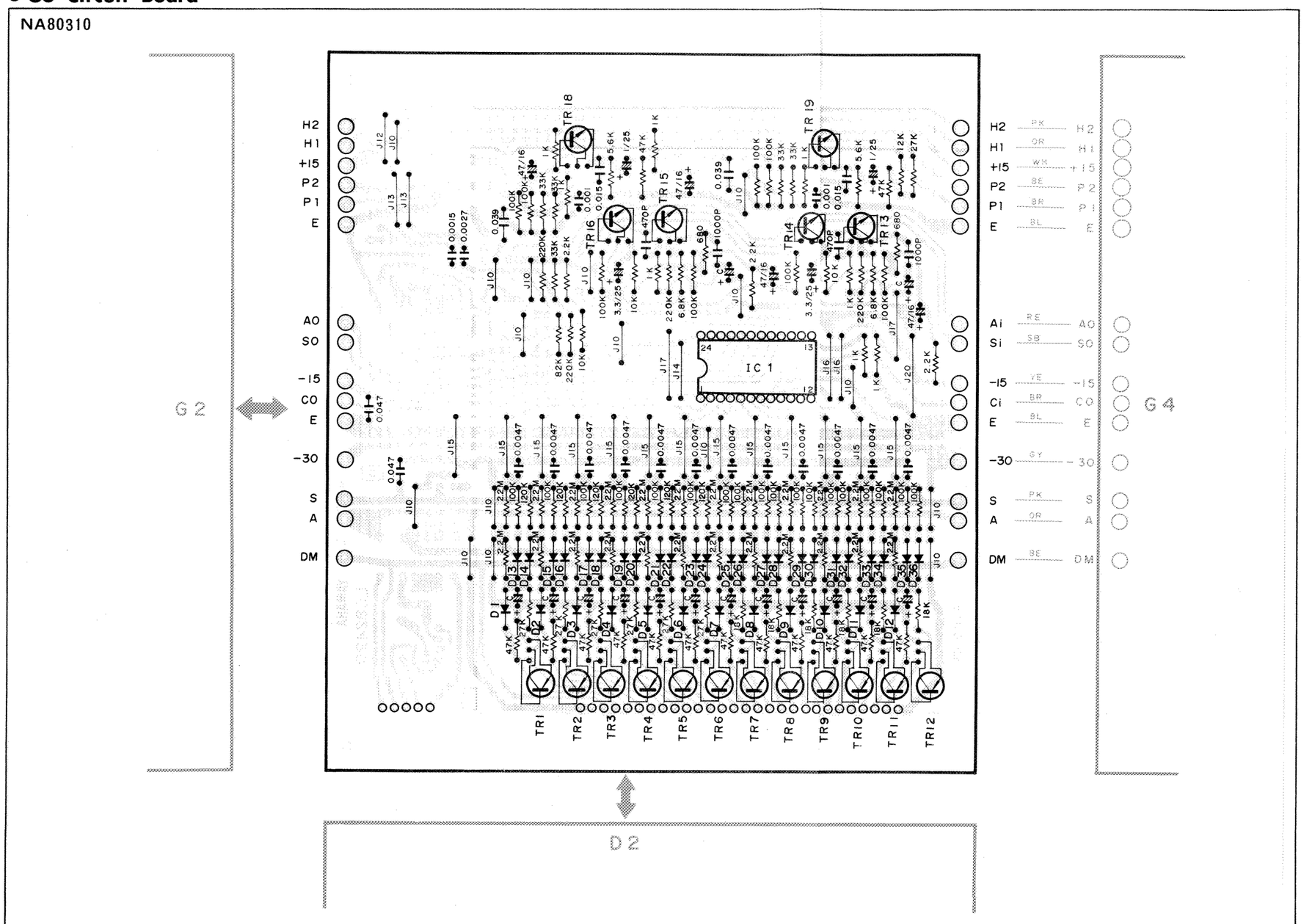
4. G3 CIRCUIT BOARD

● G3 Circuit Board



● G3 Circuit Board

NA80310



▼ **Semiconductors, to be used.**

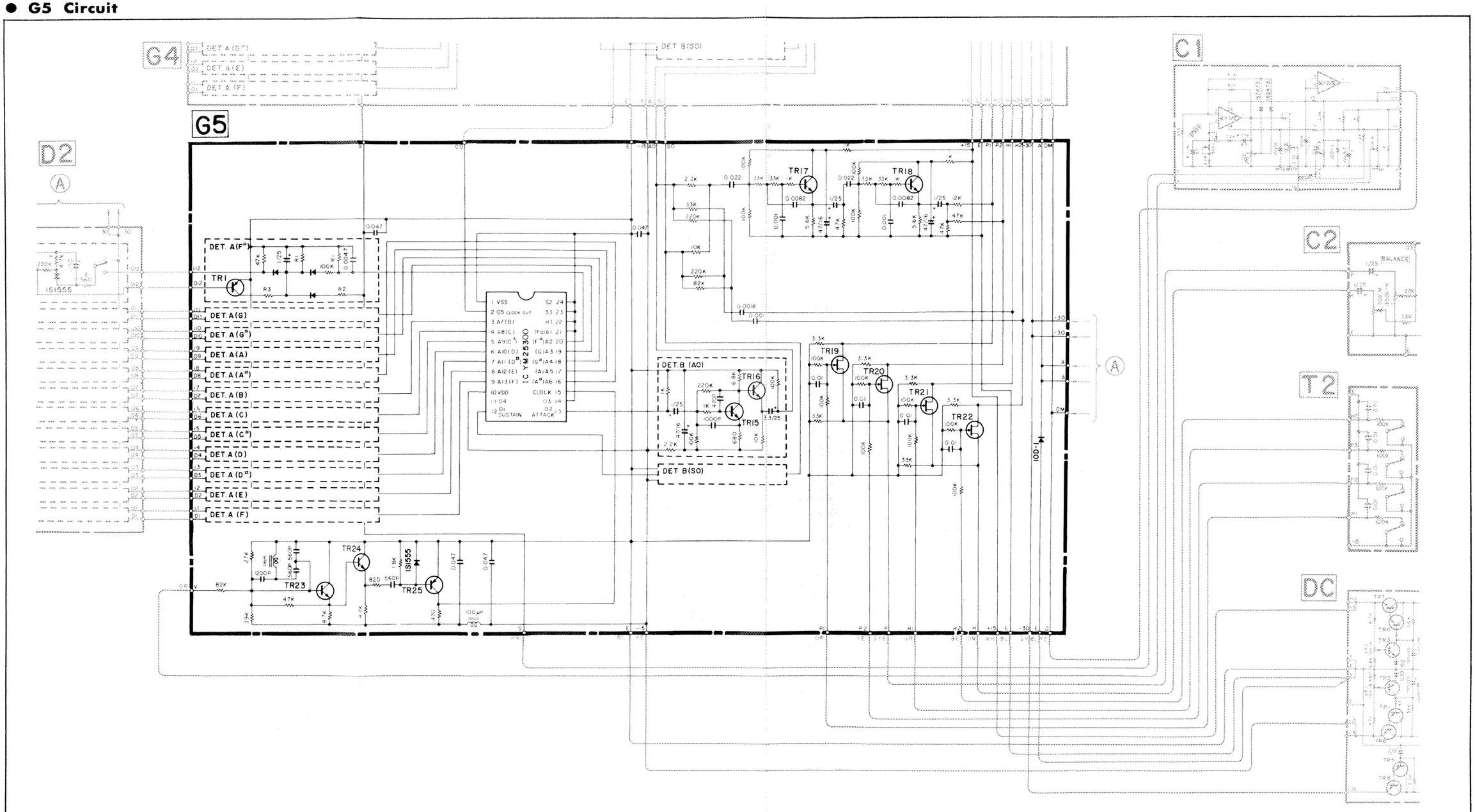
1. iC
   iC : YM25300
2. Transistor
   Tr1～12 : 2SA844 (D or E)
   Tr13, 14, 15, 16, 18, 19: 2SC458LG (C)
3. Diode
   D1～36 : 1S1555

▼ **Applied Sections**

1. Drive Circuit (12 circuits)
2. Divider/Keying Circuit (iC YM25300)
3. AMP Circuit (2 circuits, Tr13, 14/15, 16)
4. RC Filter Circuit (2 circuits)
5. Active Filter Circuit (2 circuits, Tr18/19)

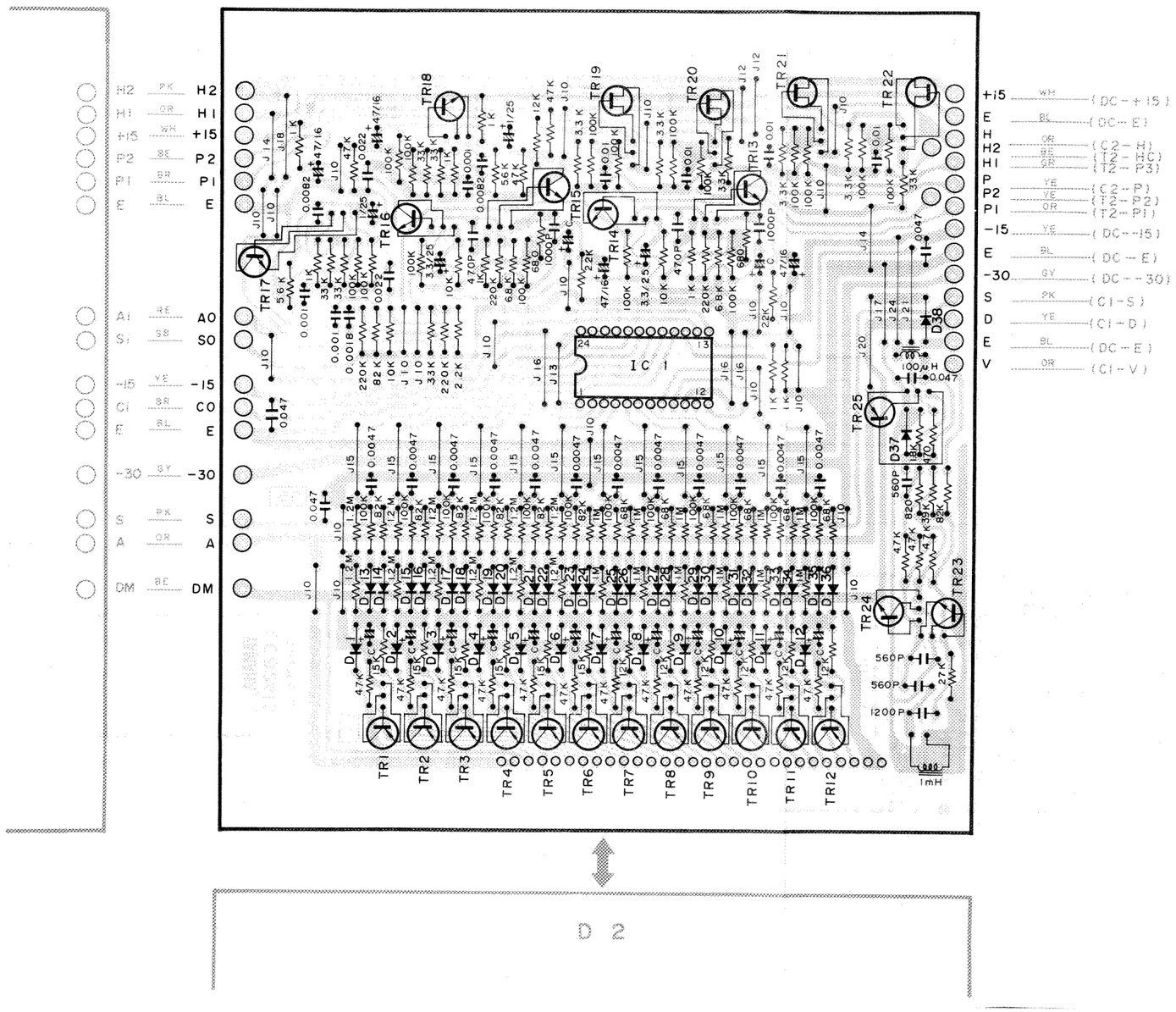
5 . G5 CIRCUIT BOARD

● G5 Circuit



● G5 Circuit Board

NA80312



▼ **Semiconductors, to be used.**

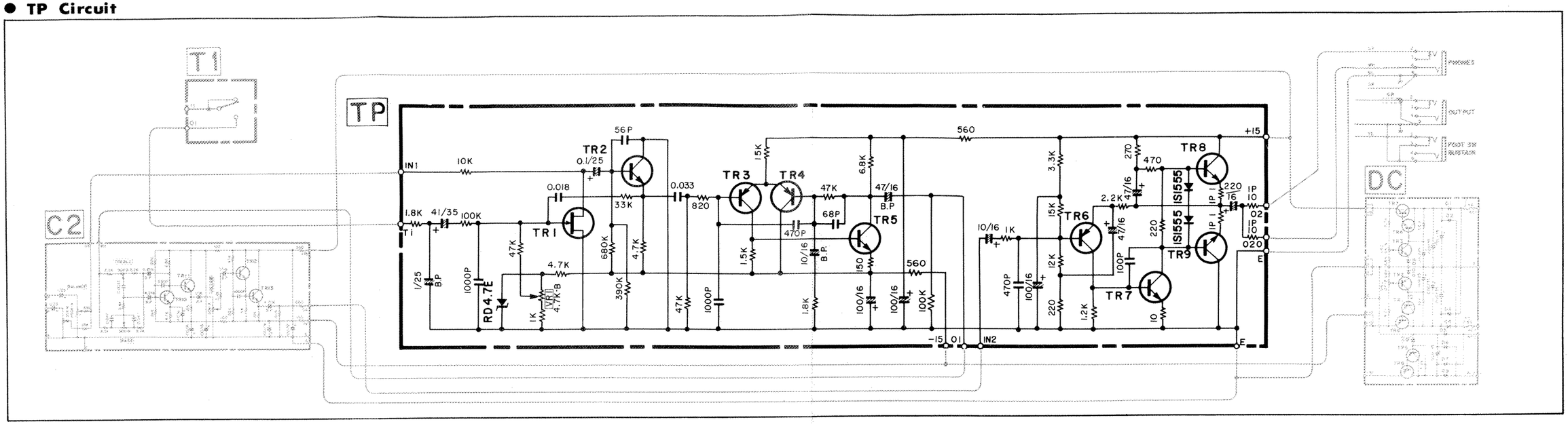
1. iC
   - iC1 : YM25300
2. Transistor
   - Tr1～12 : 2SA844 (D or E)
   - Tr13～18 : 2SC458LG (C)
   - Tr19～22 : 2SK30A (Y)
   - Tr23 : 2SC752 (O or Y)
   - Tr24 : 2SC828 (P)
   - Tr25 : 2SA495 (O or Y)
3. Diode
   - D1～37 : 1S1555
   - D38 : 10D－1

▼ **Applied Sections**

1. MASTER OSC Circuit (Tr23～25)
2. Drive Circuit (12 circuits)
3. Divider/Keying Circuit (iC YM25300)
4. AMP Circuit (2 circuits, Tr13, 14/15, 16)
5. RC Filter Circuit (2 circuits)
6. Active Filter Circuit (2 circuits, Tr17/18)
7. FET SWITCHING Circuit (4 circuits Tr19/20/21/22)

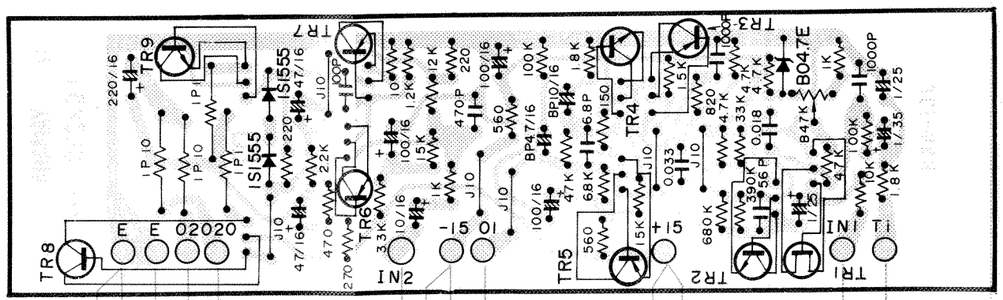
6. TP CIRCUIT BORD

● TP Circuit



● TP Circuit Board

NA80318 2/3



▼ **Semiconductor, to be used.**

2. Transistor

Tr1	: 2SK30A (Y)
Tr2, 5	: 2SC1681 (BC)
Tr3, 4, 6	: 2SA841 (BC)
Tr7	: 2SC1213A (C or D)
Tr8	: 2SC1509 (R)
Tr9	: 2SA777 (R)

▼ **Applied Sections**

1. Tremolo Modulation Circuit
2. Differential AMP Circuit
3. Headphone AMP Circuit

▼ **Adjustment**

- VR－1 (B47K) Tremolo Modulation Adjustment