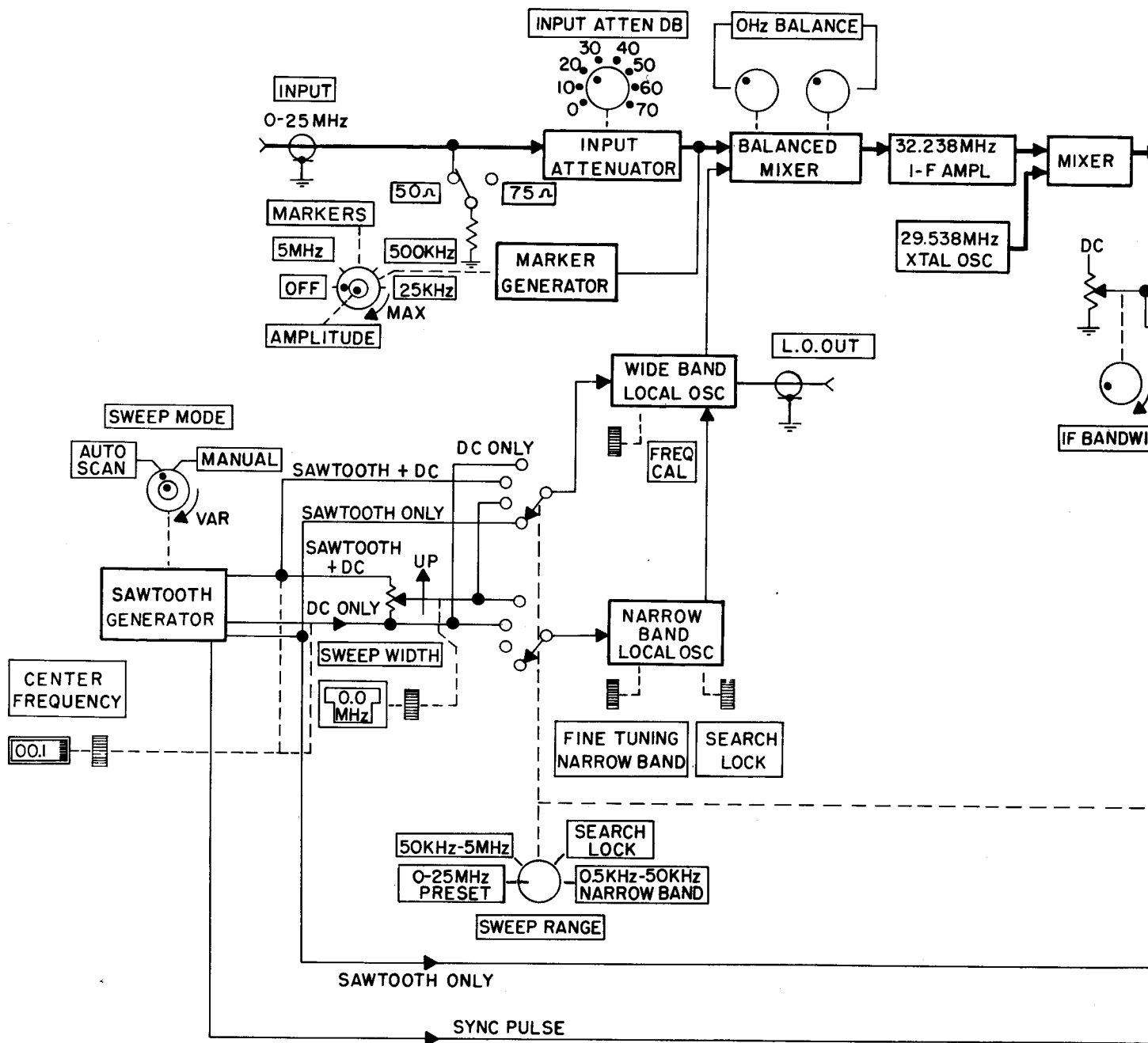


SECTION V

SCHEMATIC DIAGRAMS

Section V
Schematic Diagrams



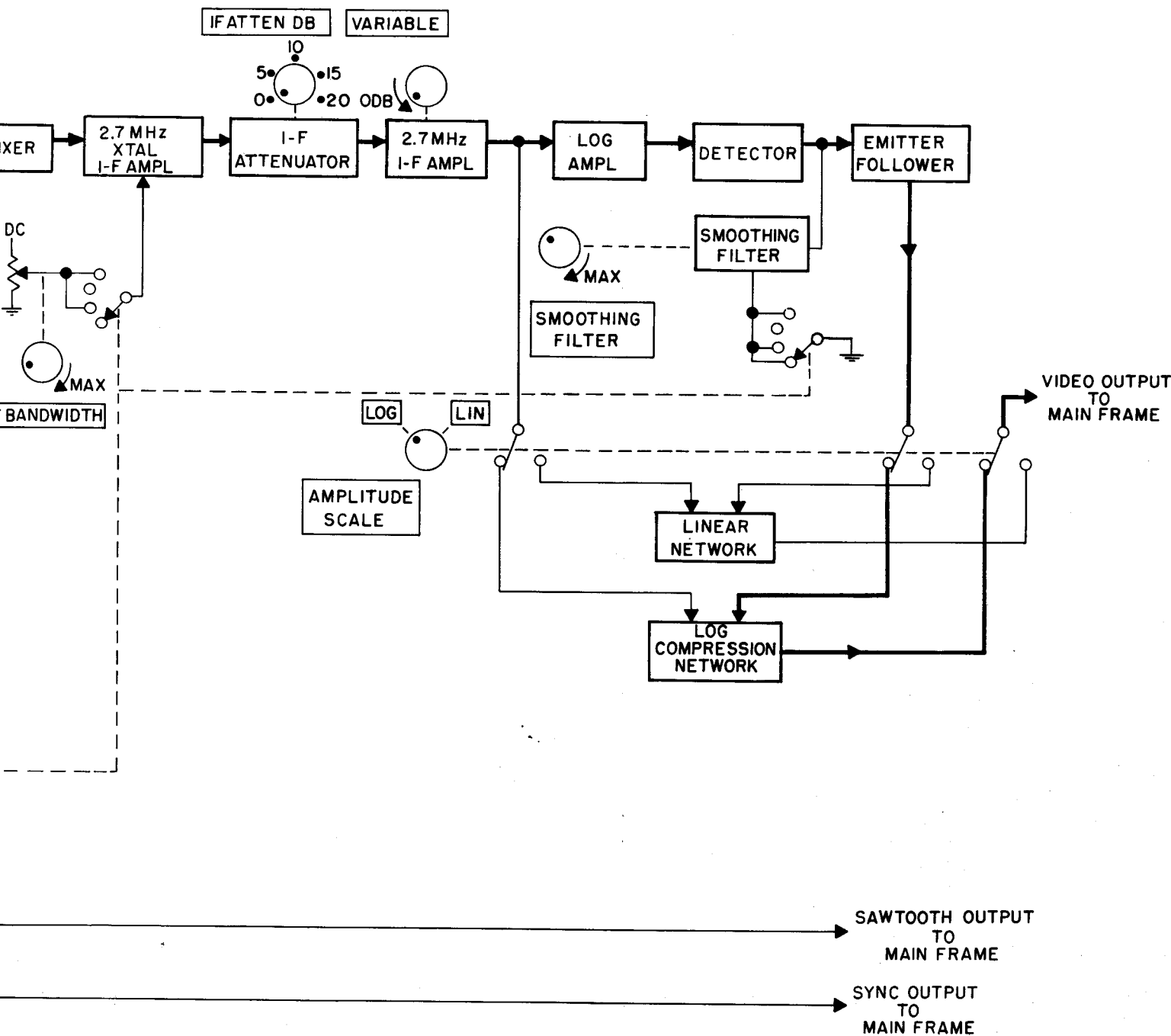
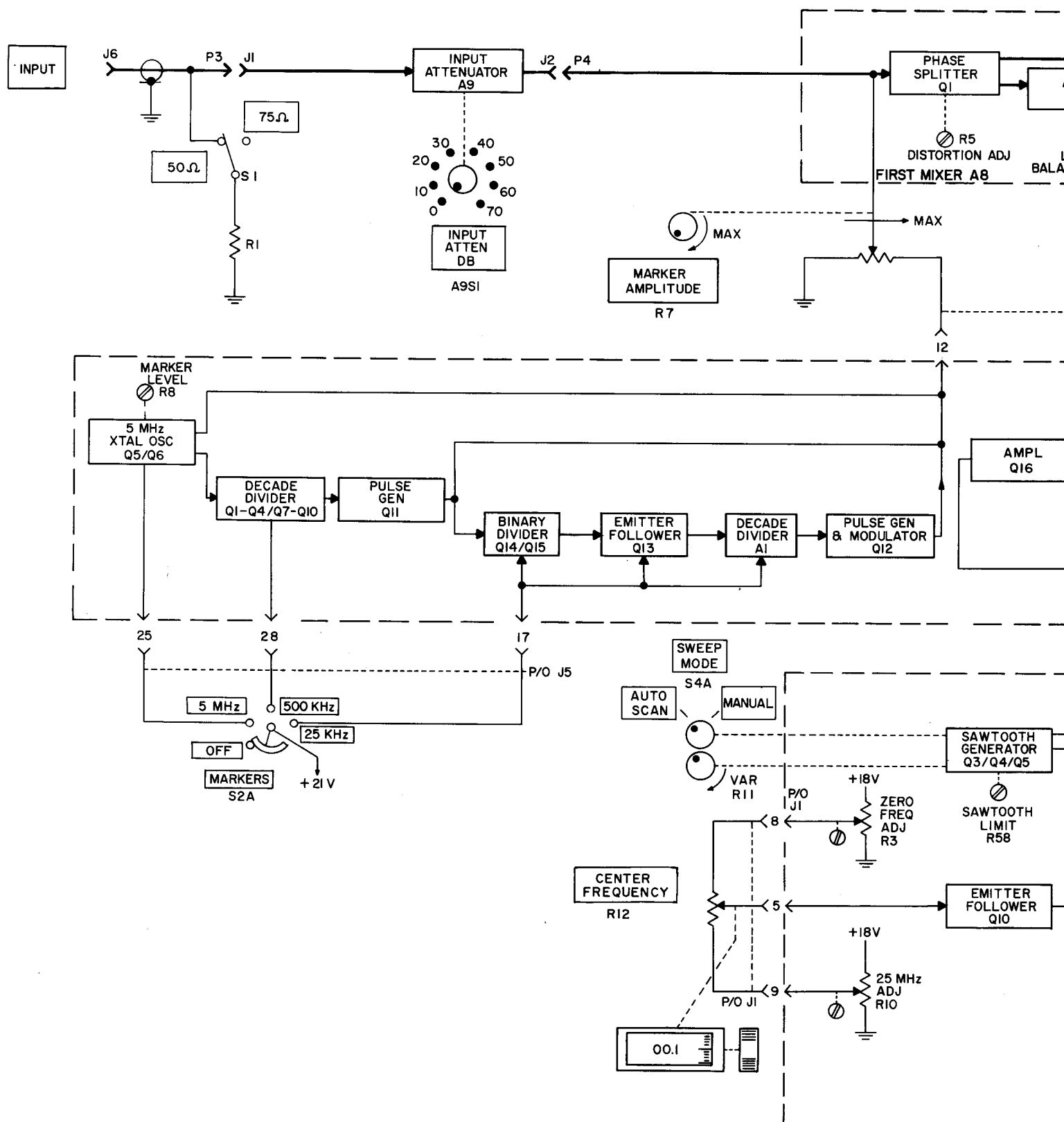
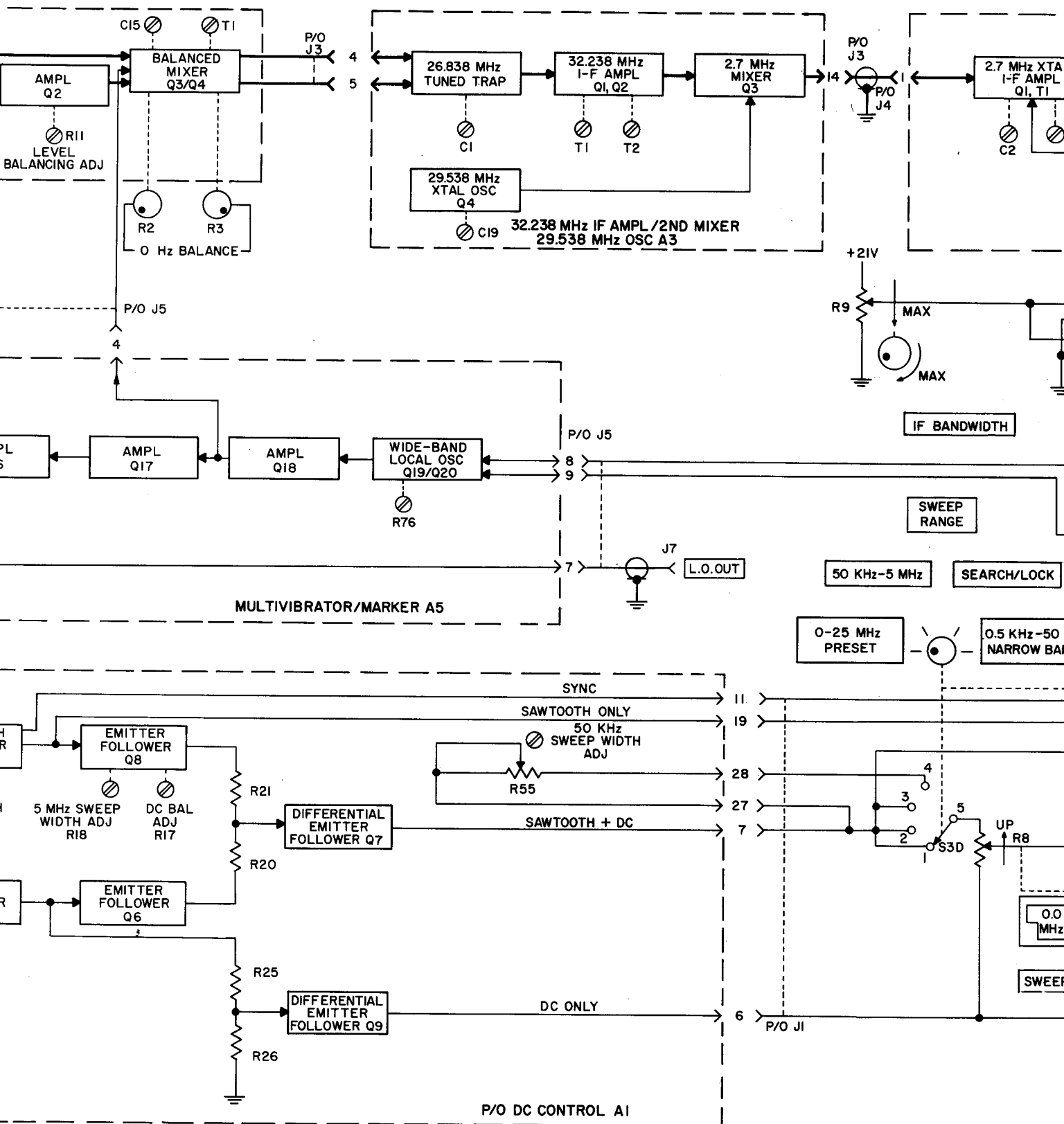
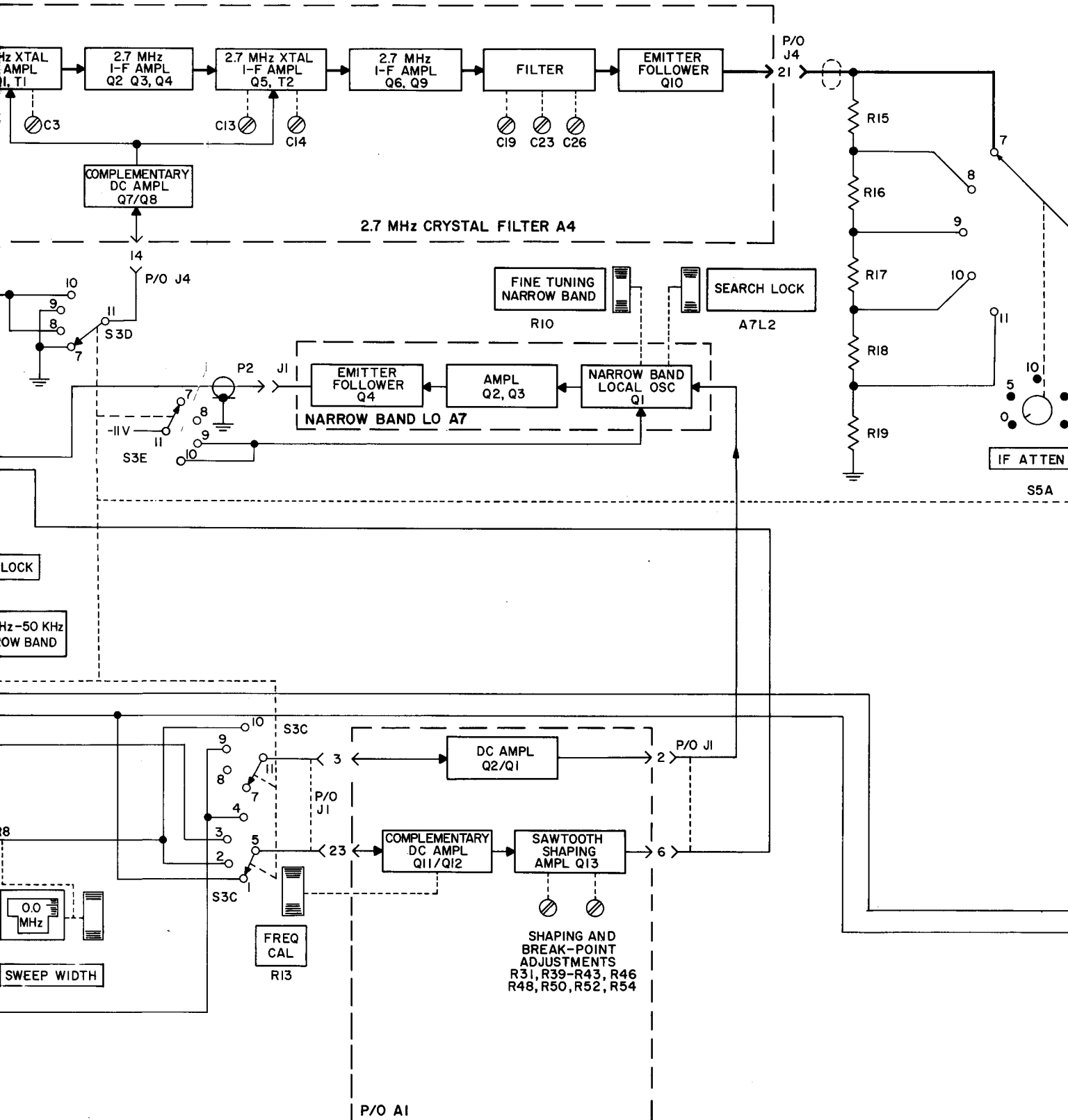
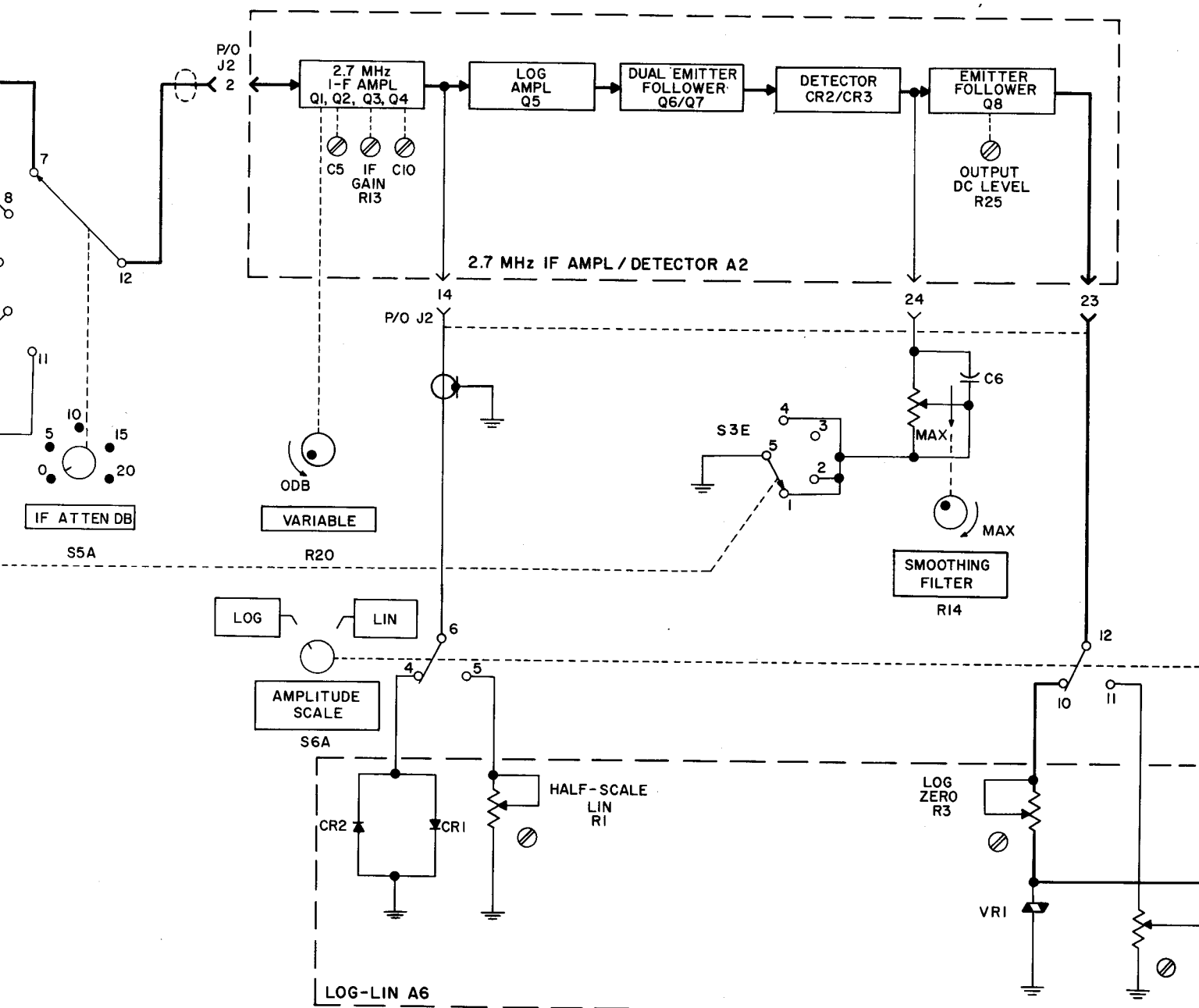


Figure 3-1. Video Module Model VR-4,
Simplified Block Diagram









Figur

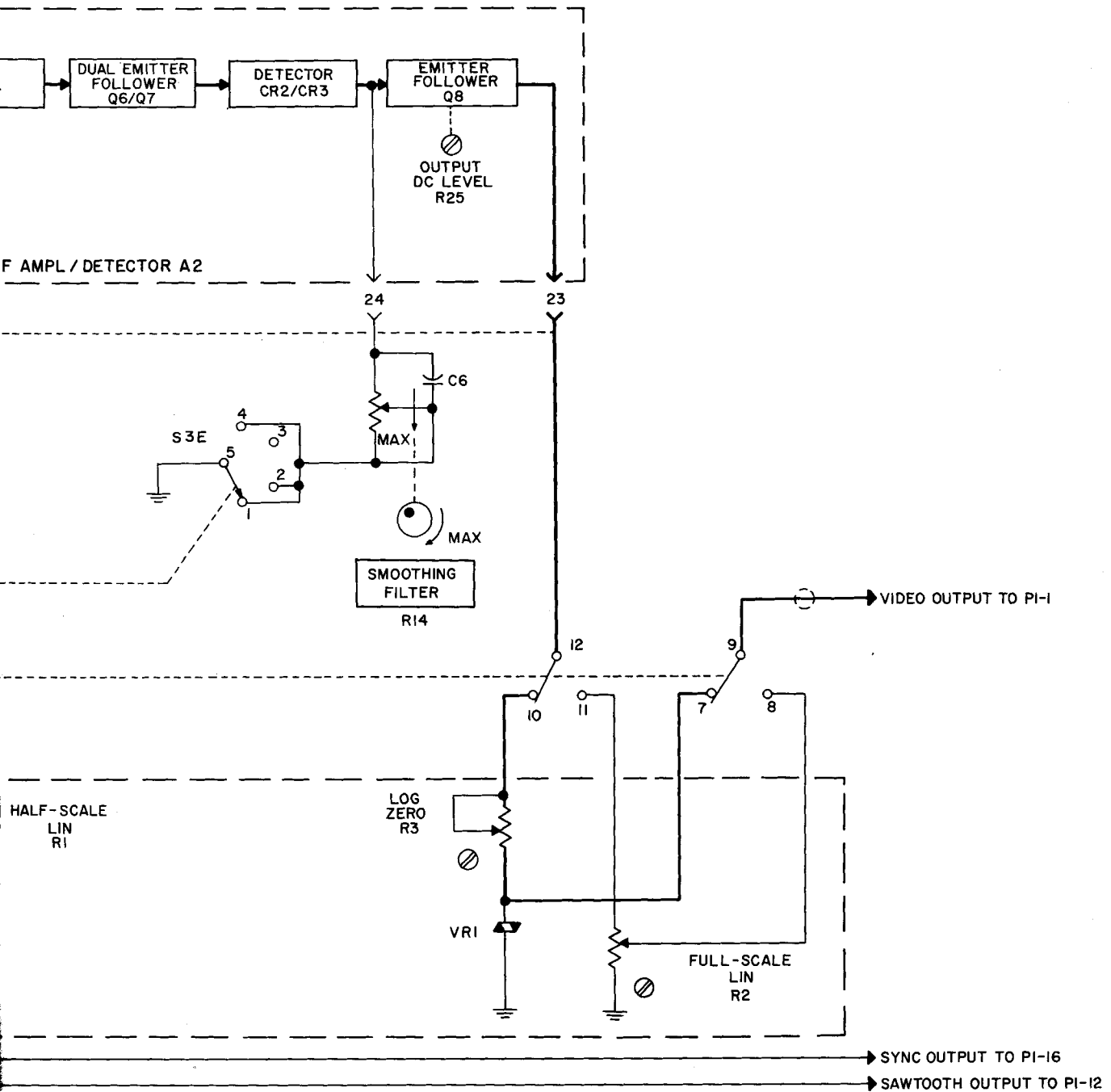
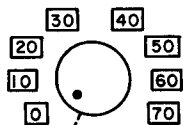


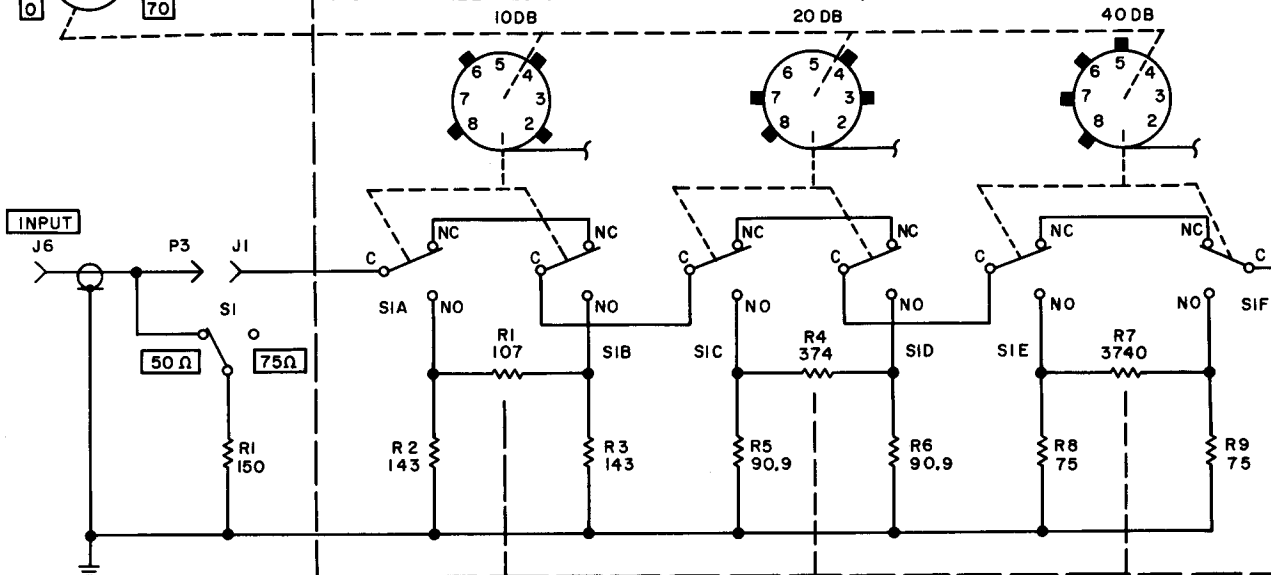
Figure 3-2. Video Module Model VR-4,
Detailed Block Diagram

INPUT ATTN DB



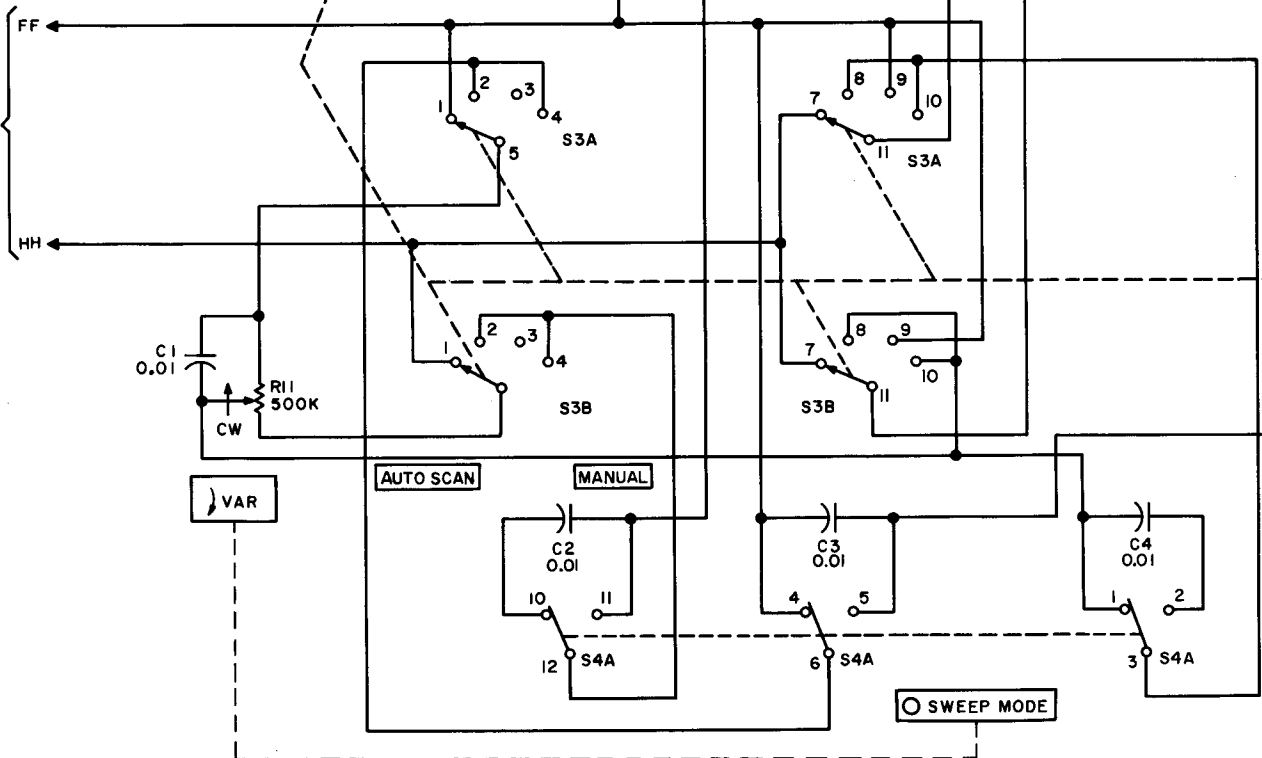
A9

ALL RESISTORS IN THIS ASSY ARE $\pm 1\%$, 1/8W



☐ SWEEP RANGE

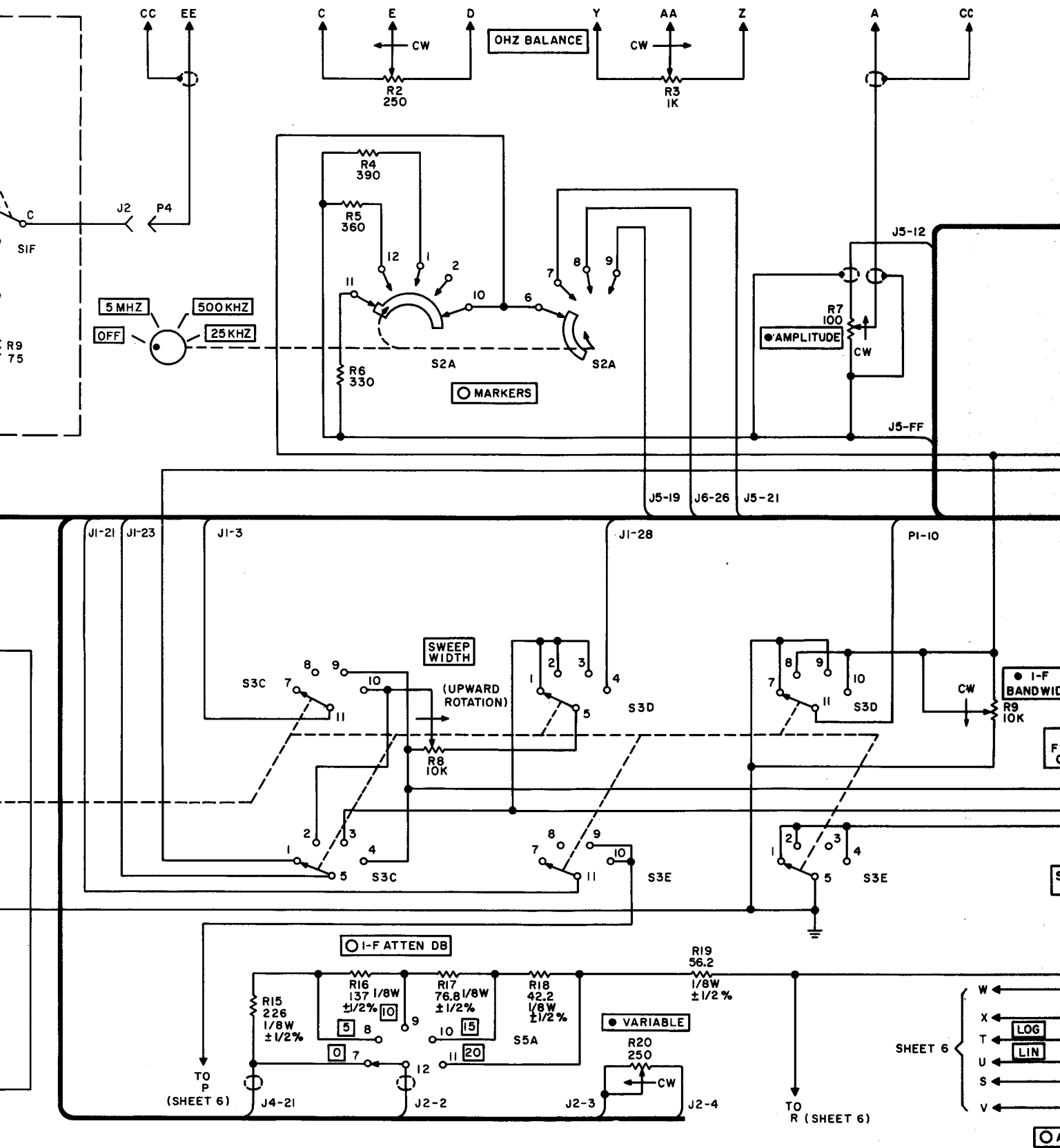
50 KHZ - 5 MHZ
0 - 25 MHZ PRESET
SEARCH/LOCK
0.5 - 50 KHZ NARROW BAND

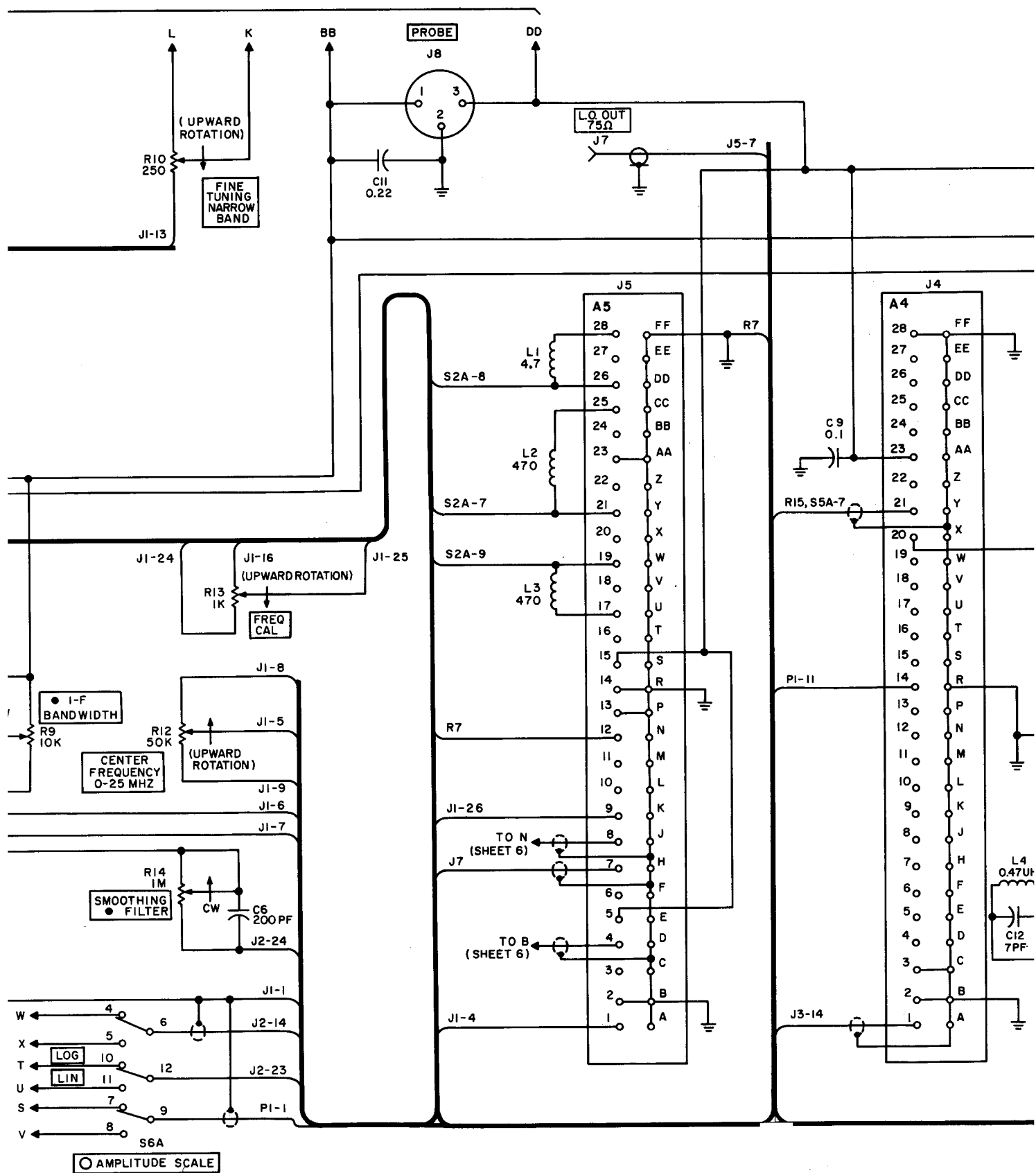


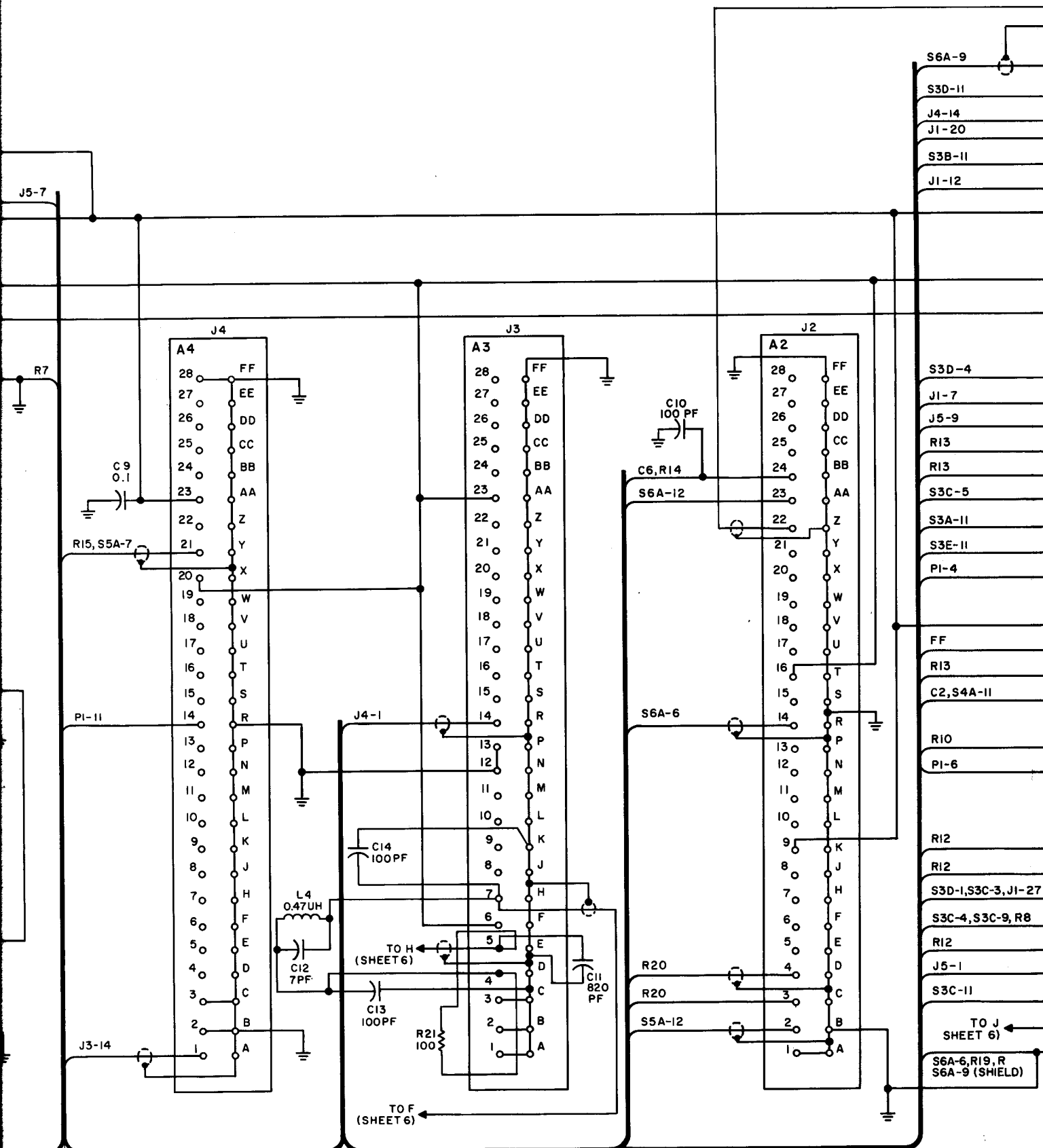
☐ SWEEP MODE

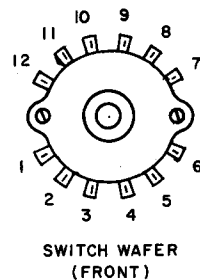
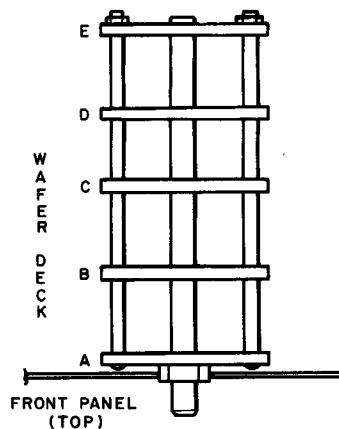
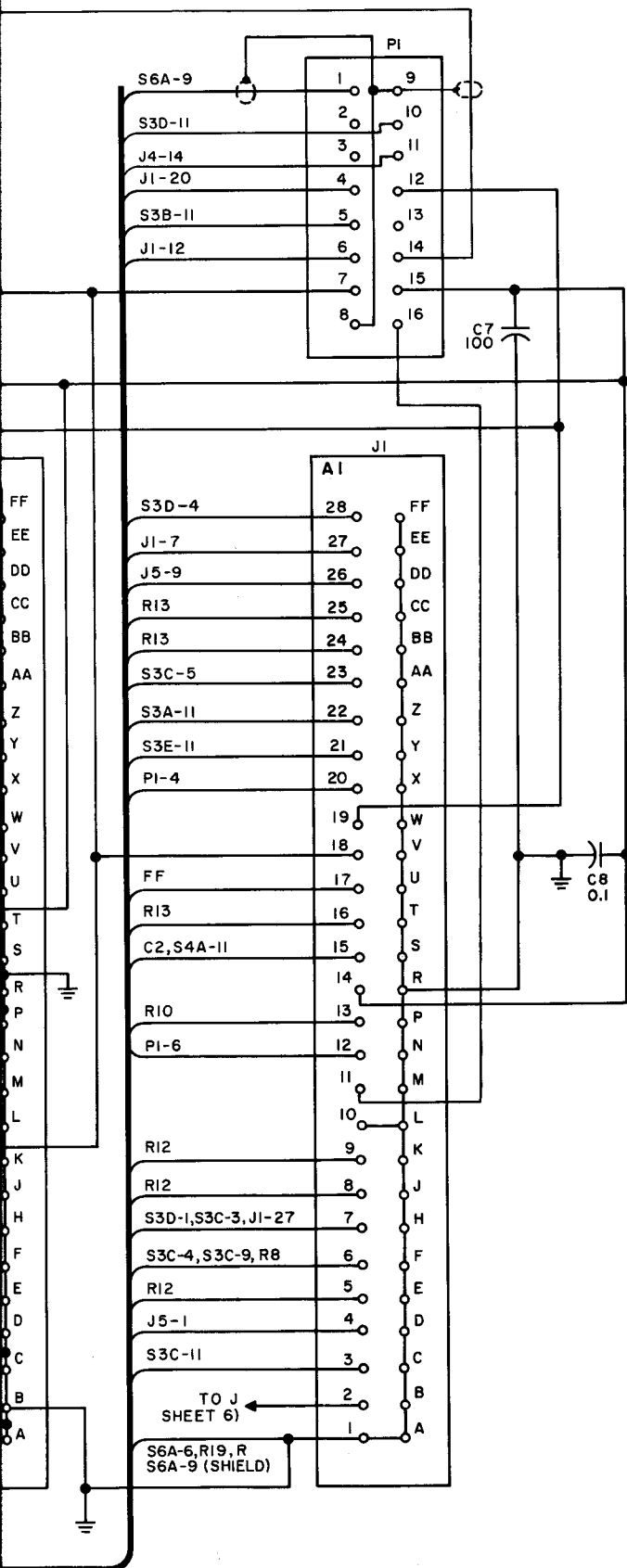
106-0451 09

SHEET 6



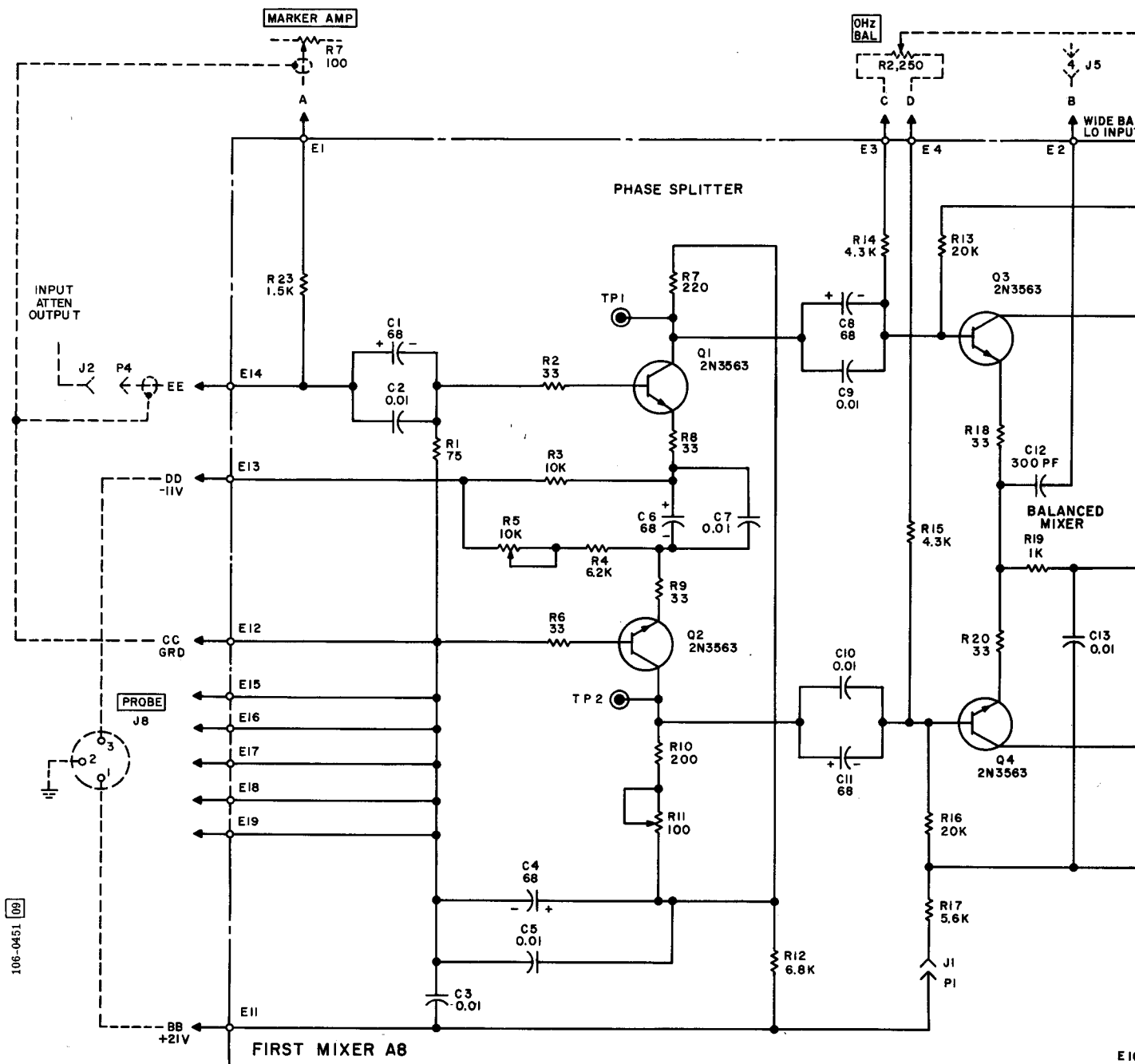




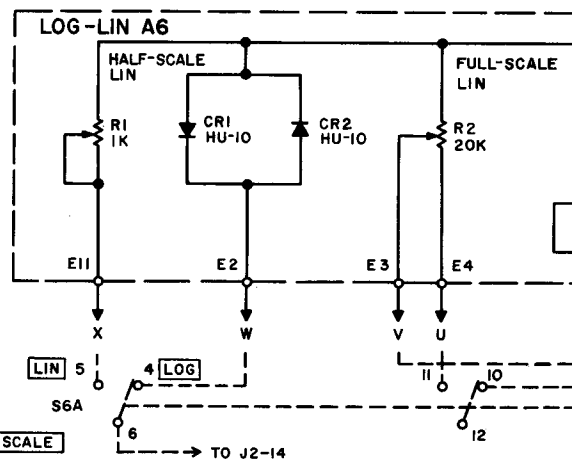
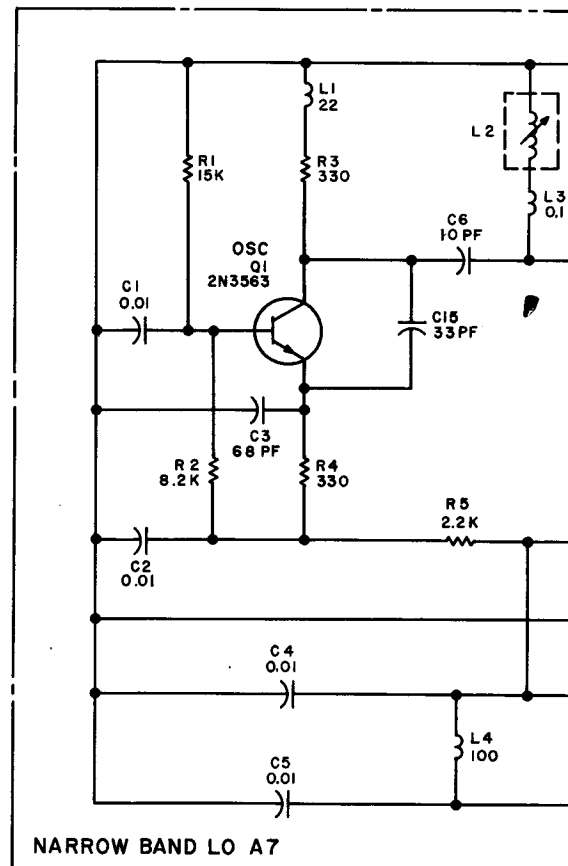
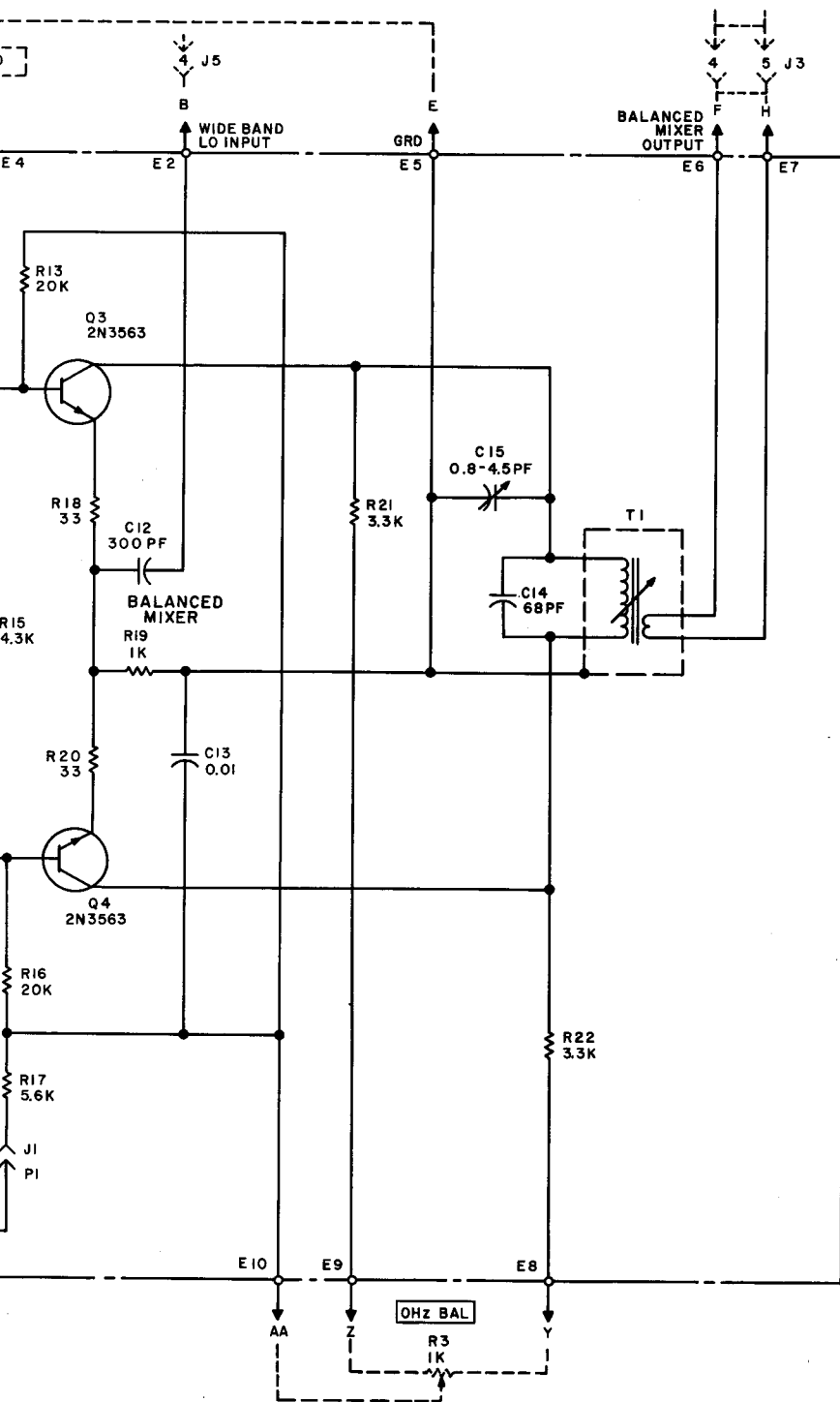


- NOTES:
1. ALL WAFER SWITCHES ARE DESIGNATED AS SHOWN ABOVE.
 2. UNLESS OTHERWISE SPECIFIED; ALL RESISTORS ARE IN OHMS.
 3. ALL CAPACITORS ARE IN MICROFARADS.
 4. ALL INDUCTORS ARE IN MICROHENRIES.
 5. INDICATES FRONT PANEL MARKINGS.

Figure 5-1. Video Module Model VR-4,
Schematic of Interconnection

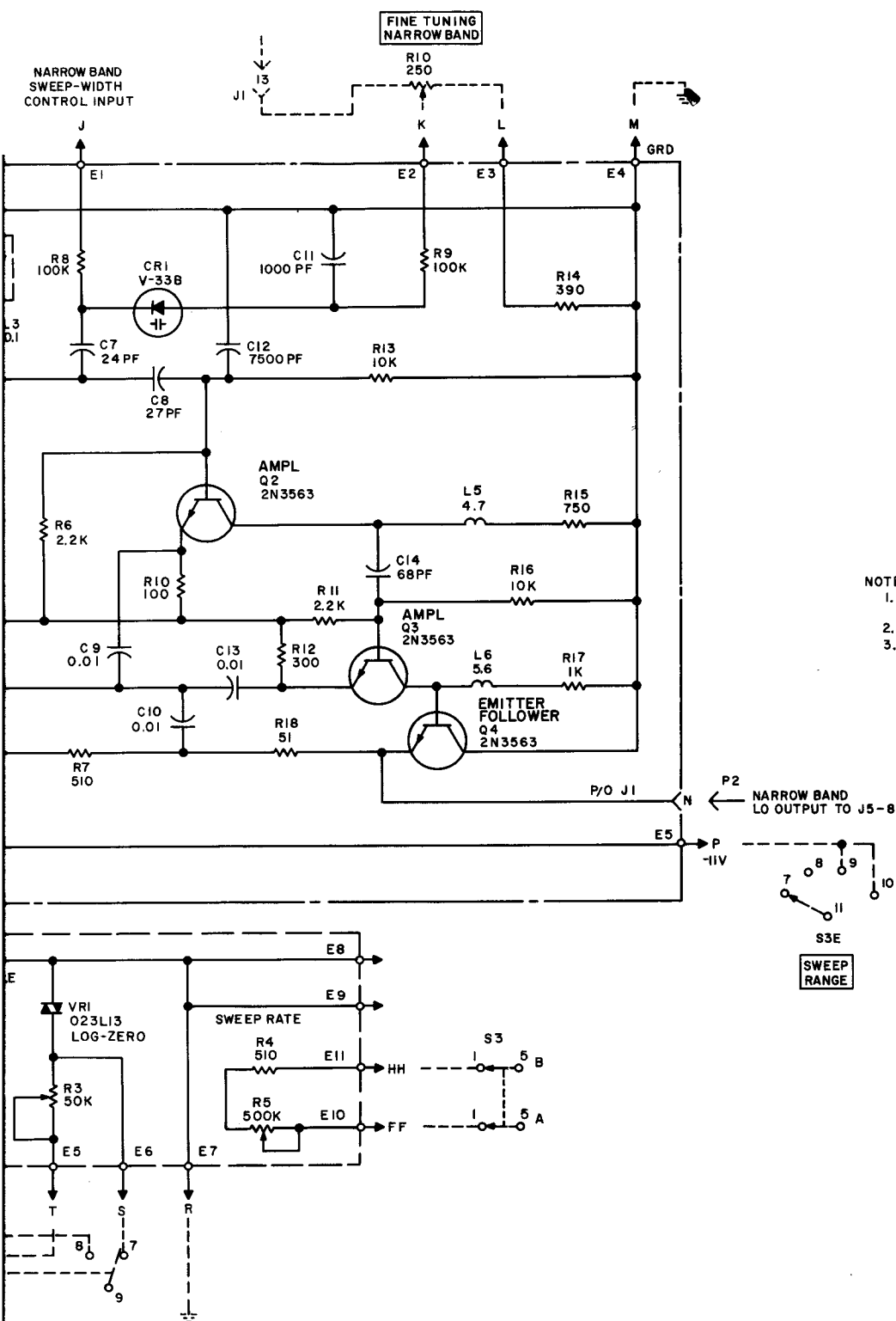


106-0451 [09]



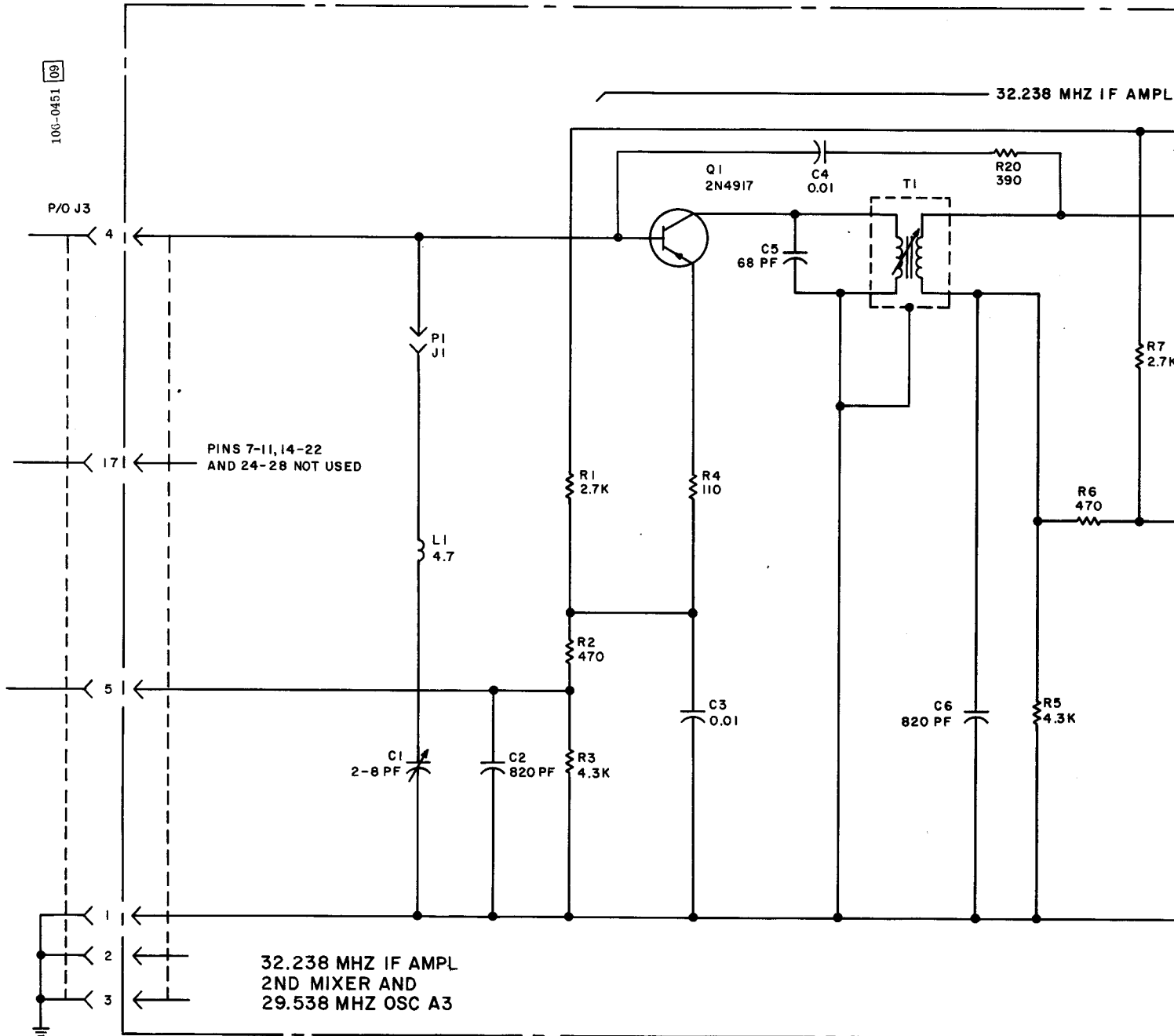
AMPLITUDE SCALE

TO J2-14

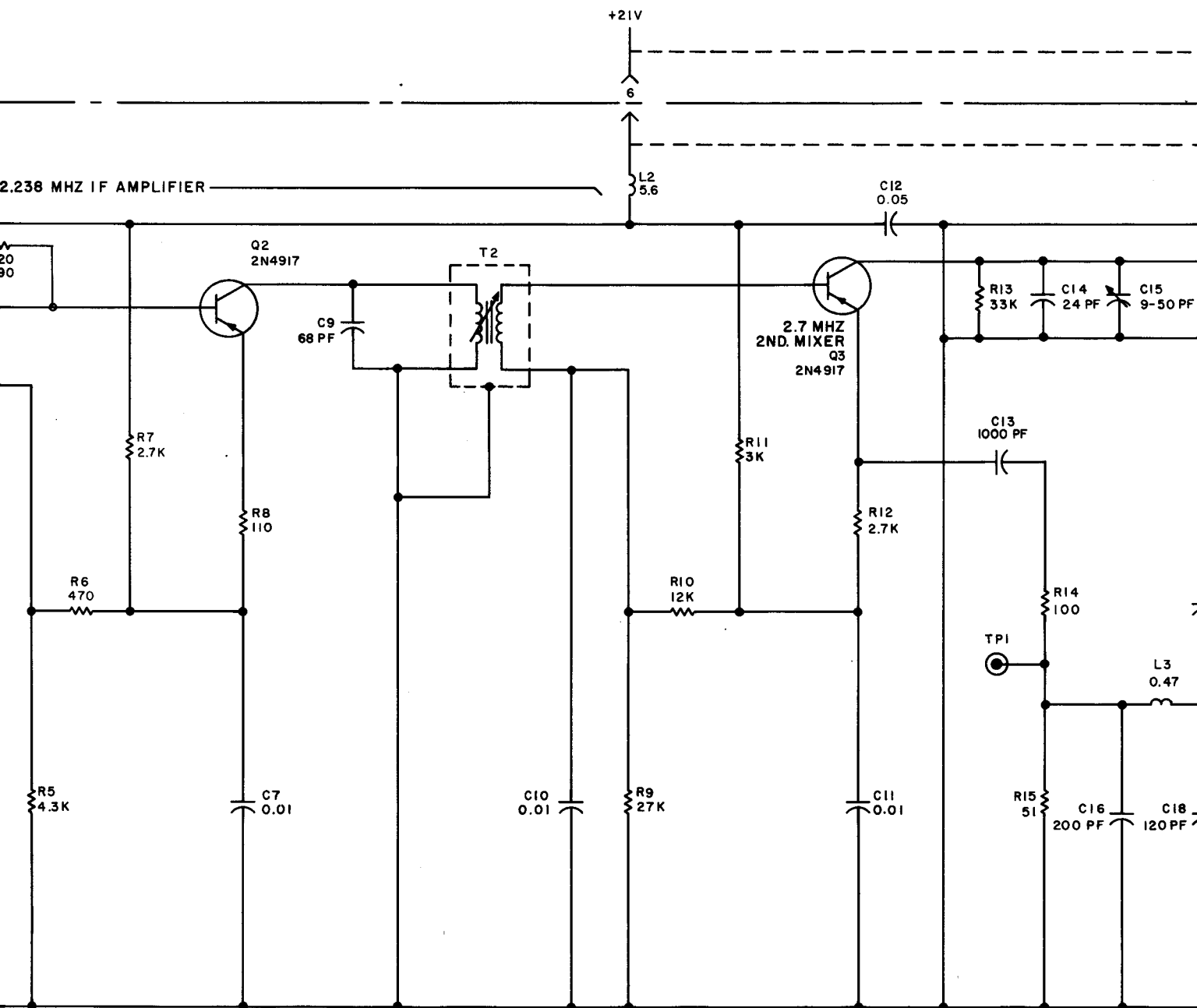


- NOTES:
1. UNLESS OTHERWISE SPECIFIED: ALL RESISTORS ARE IN OHMS, 1/4W, $\pm 5\%$.
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. ALL INDUCTORS ARE IN MICROHENRIES.

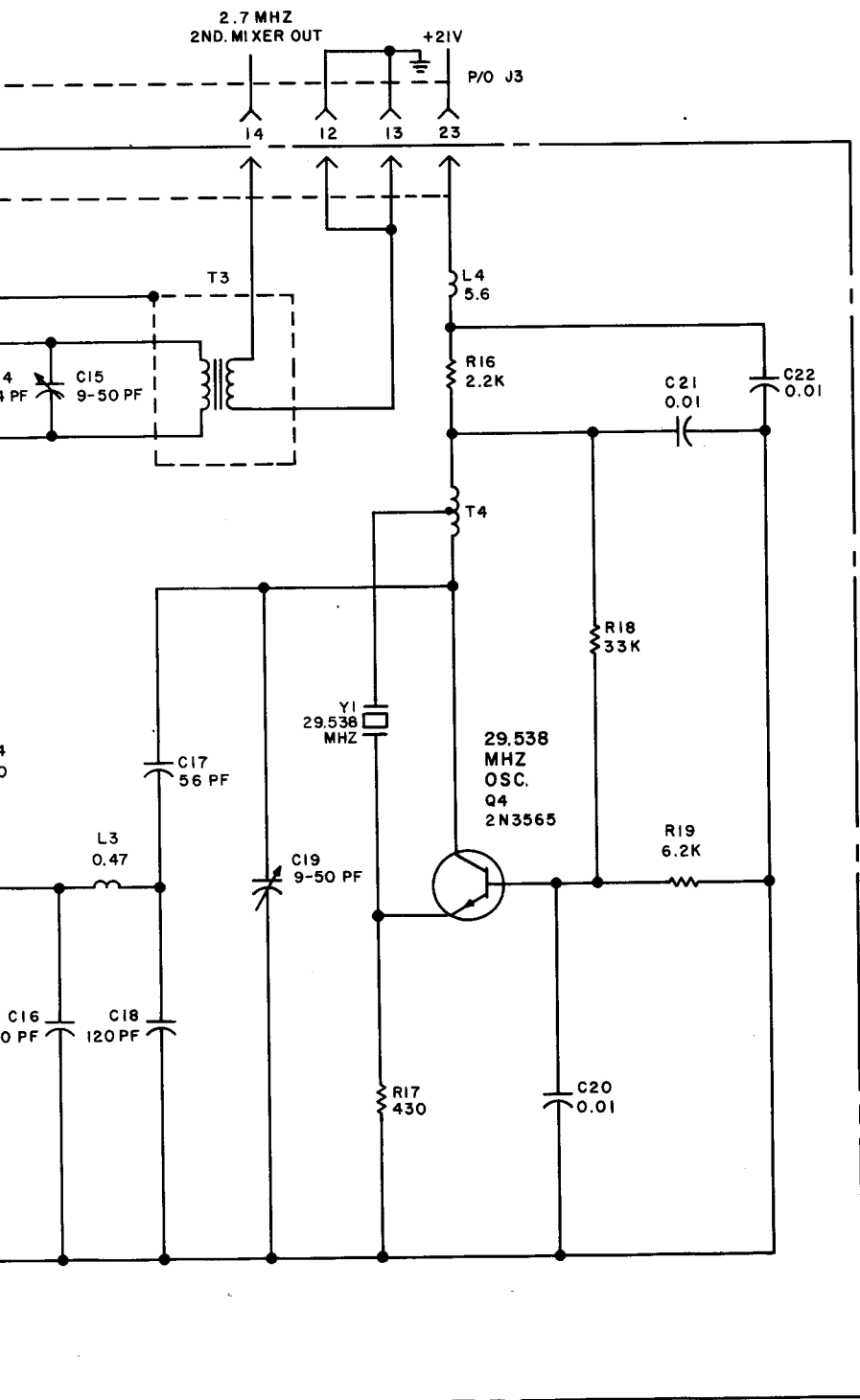
Figure 5-2. Log/Lin Assembly A6, Narrow Band Local Oscillator Assembly A7, and First Mixer Assembly A8, Schematic Diagram



2.238 MHZ IF AMPLIFIER



Section V
Schematic Diagrams



- NOTES:
1. UNLESS OTHERWISE SPECIFIED,
ALL RESISTORS ARE IN OHMS, 1/4 W, $\pm 5\%$.
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. ALL INDUCTORS ARE IN MICROHENRIES.

Figure 5-3. 32.238 MHz I-f Amplifier/Second
Mixer/29.538 MHz Oscillator Assembly A3,

106-0451 09

2.7 MHZ
INPUT

P/O J4

1

PINS 1-2, 4-13,
15-19, 22, AND 24-27
NOT USED

28

3



C1
0.01

R1
22K

R4
240

C4
0.05

R3
200

2.7 MHZ
CRYSTAL
FILTER
Q1
2N3638A

C2
2-8 PF

Y1
2.7 MHZ

R2
4.3K

R5
470

C3
9-50 PF

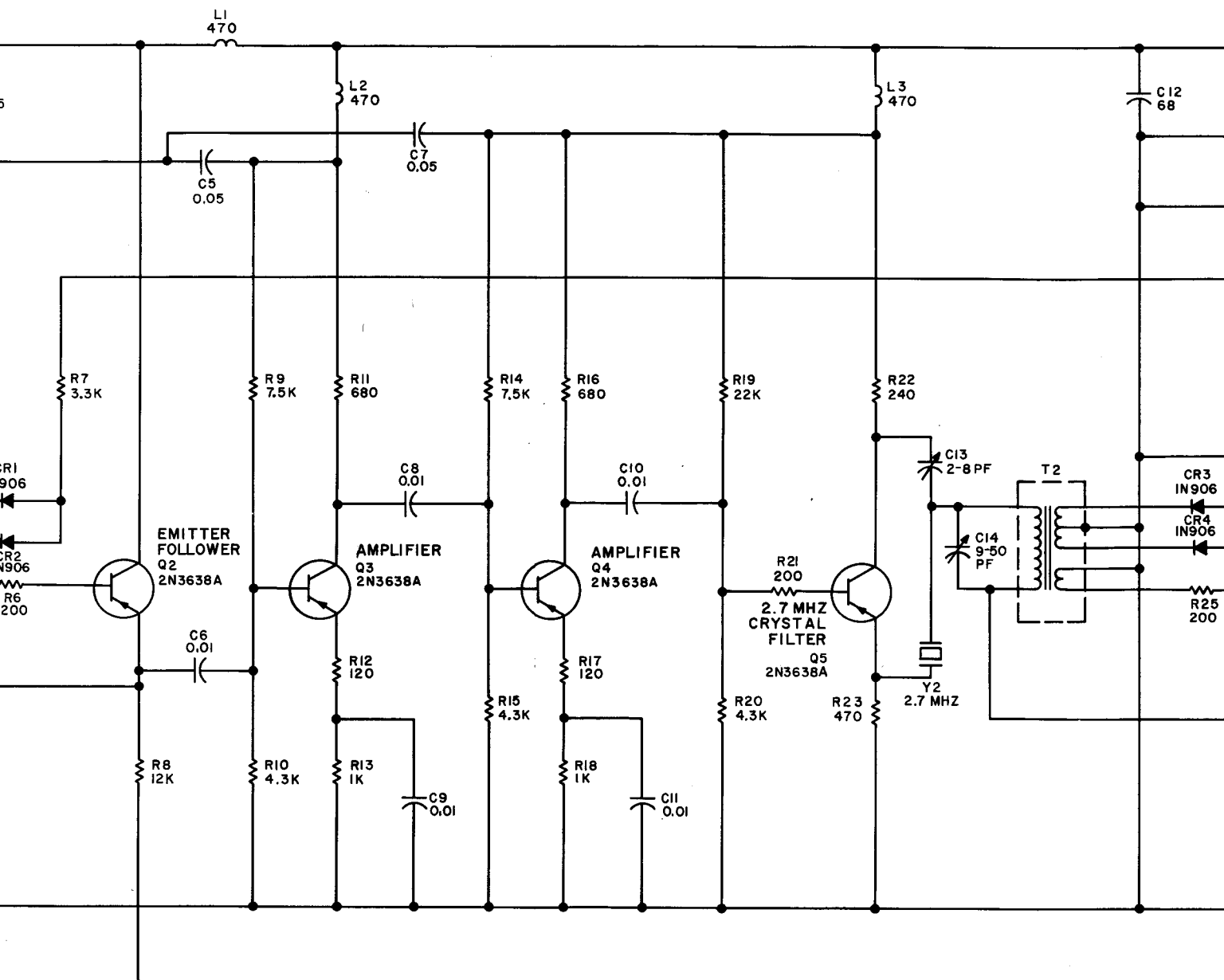
T1

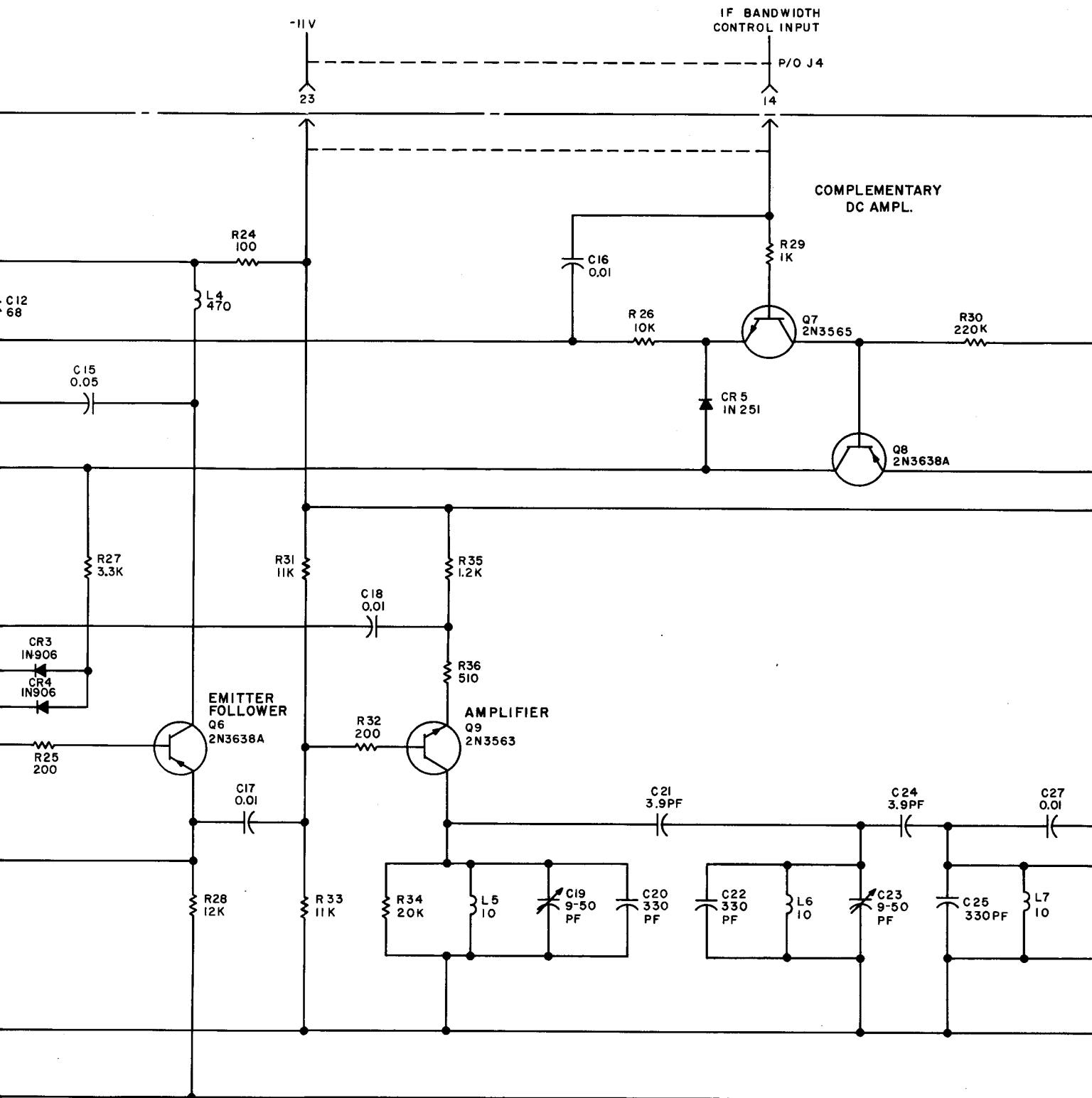
CR1
IN906

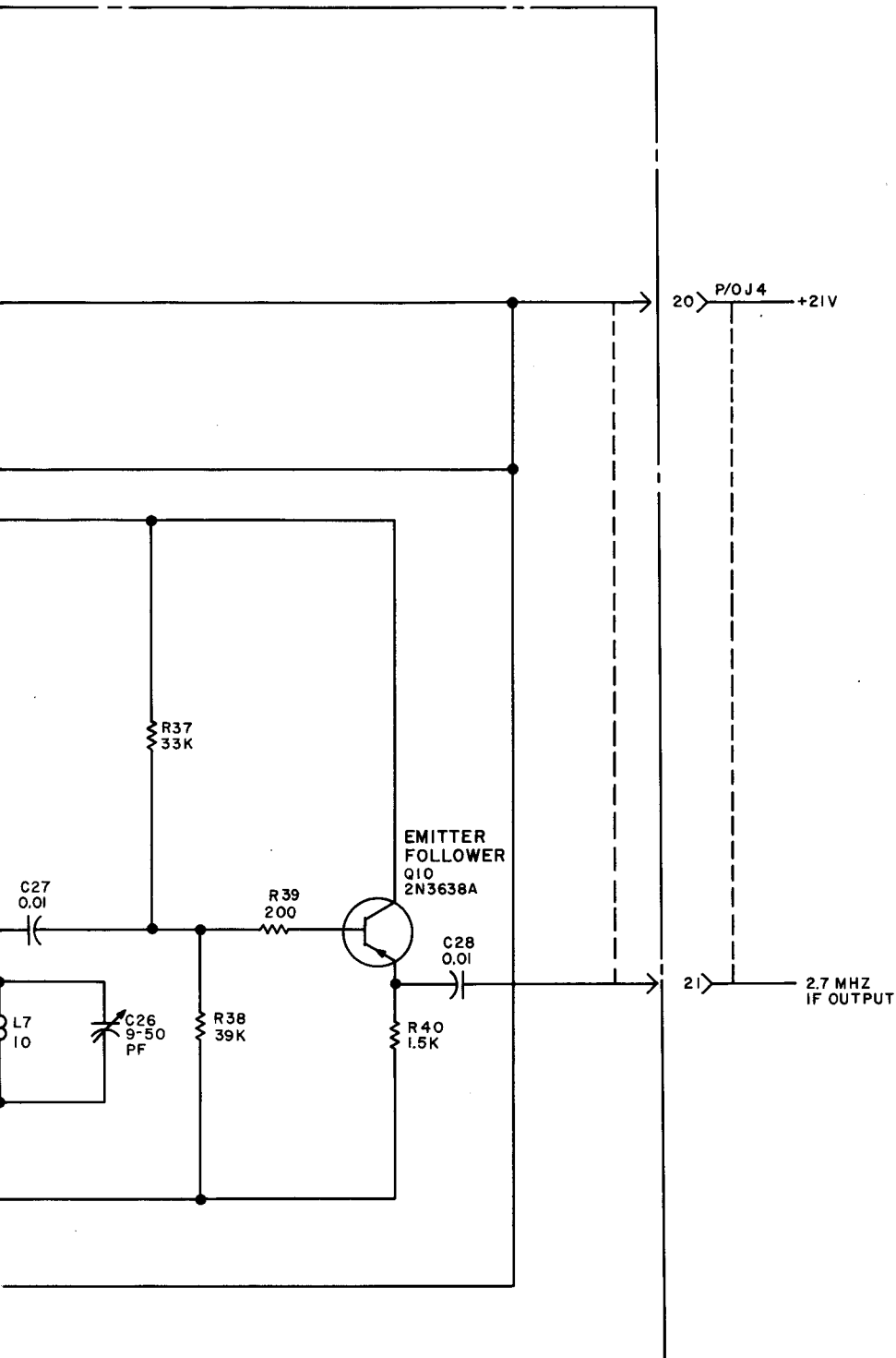
CR2
IN906

R6
200

2.7 MHZ CRYSTAL FILTER A4

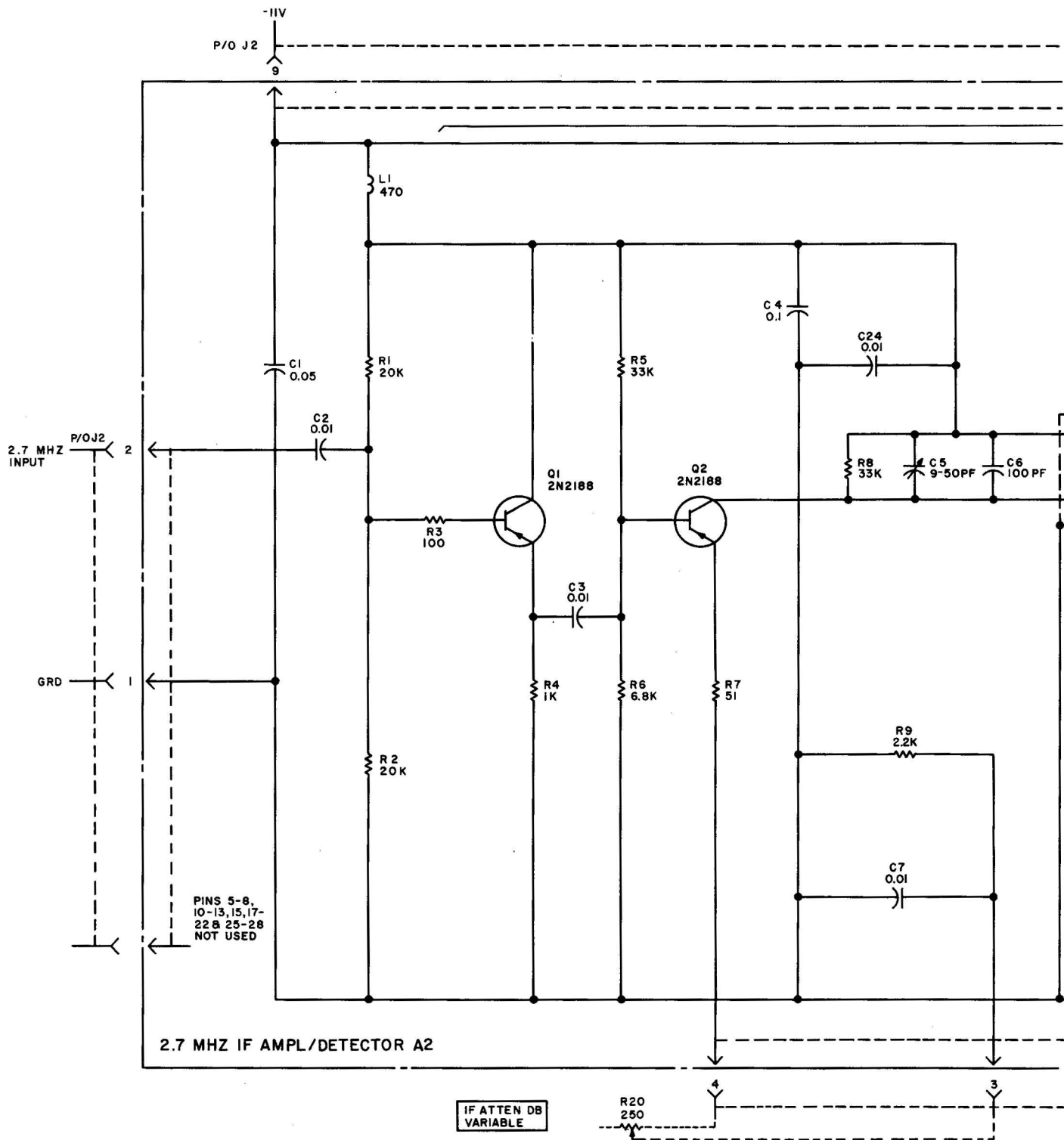






- NOTES:
1. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE IN OHMS, 1/4 W, $\pm 5\%$.
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. ALL INDUCTORS ARE IN MICROHENRIES.

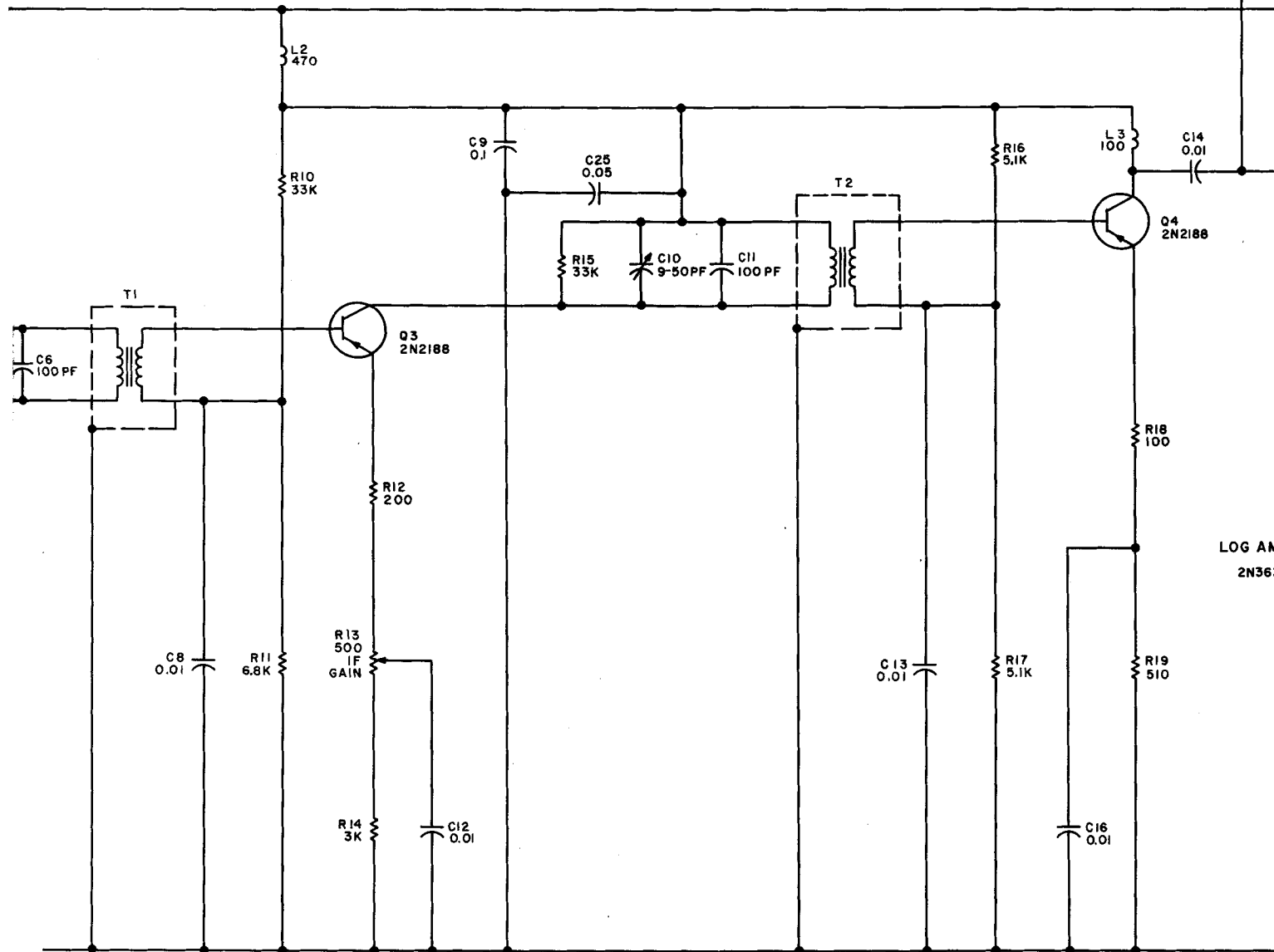
Figure 5-4. 2.7 MHz Crystal Filter Assembly A4,



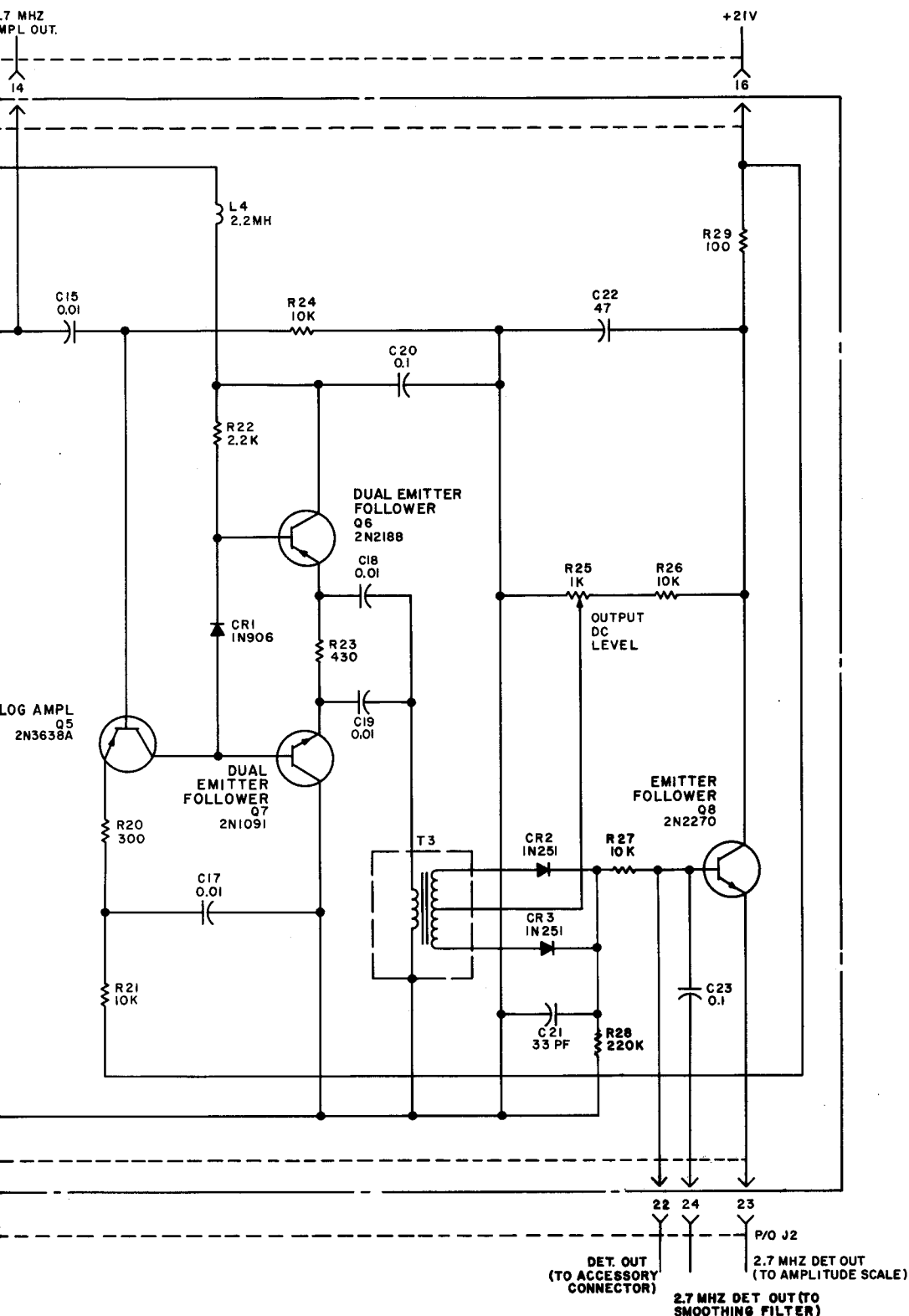
2.7 MHZ
IF AMPL OU

14

2.7 MHZ IF AMPLIFIER



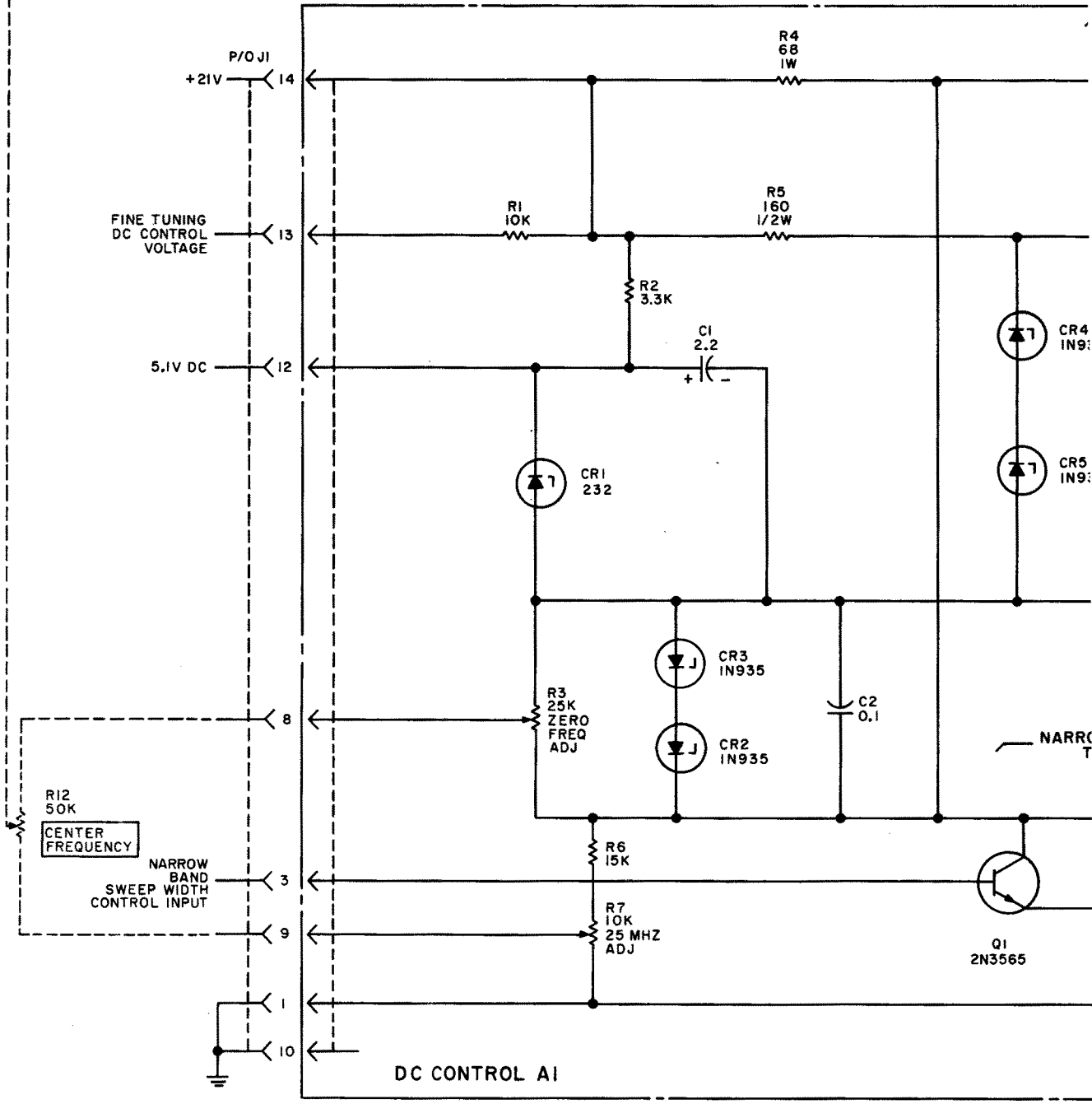
LOG AM
2N363

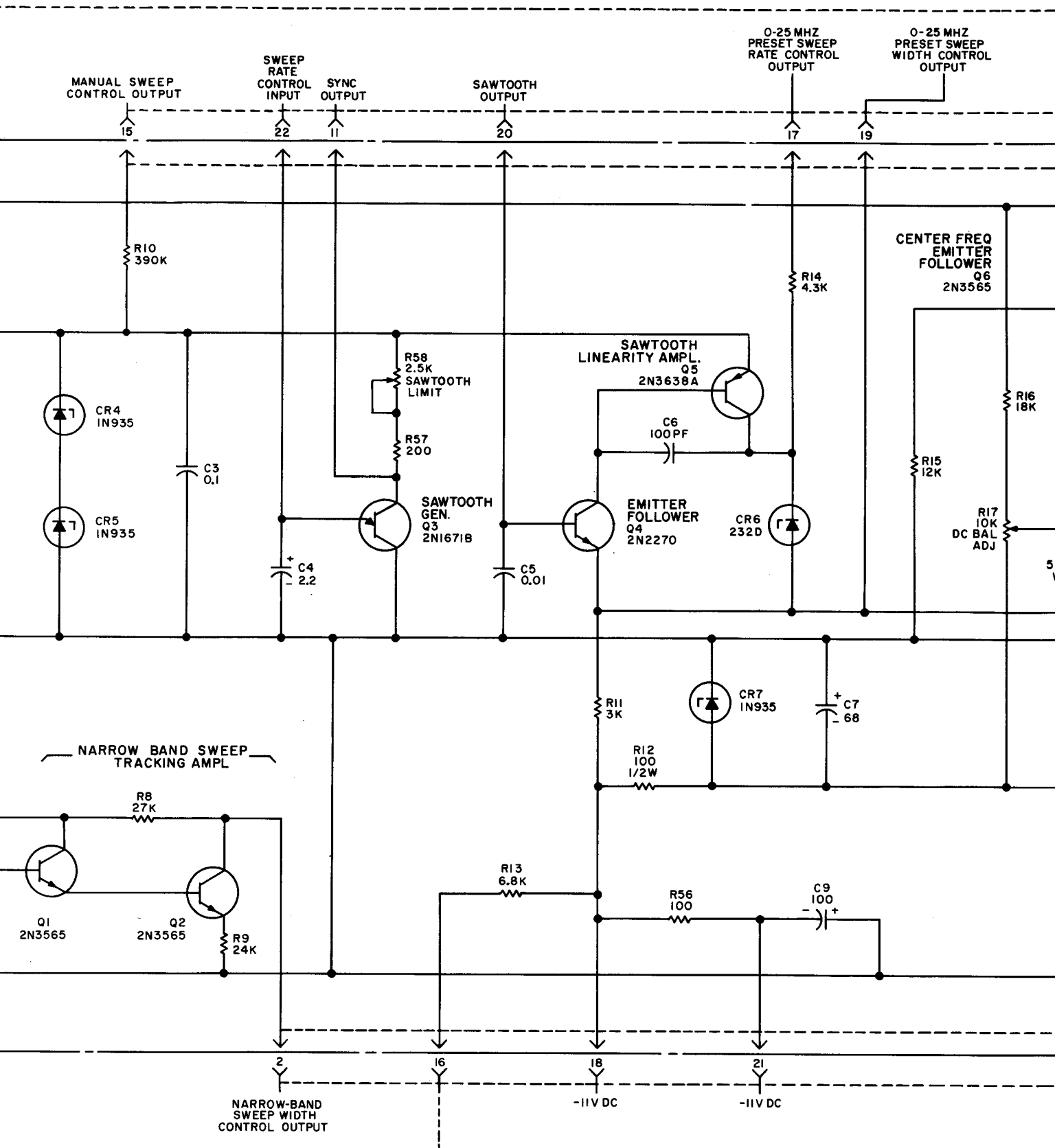


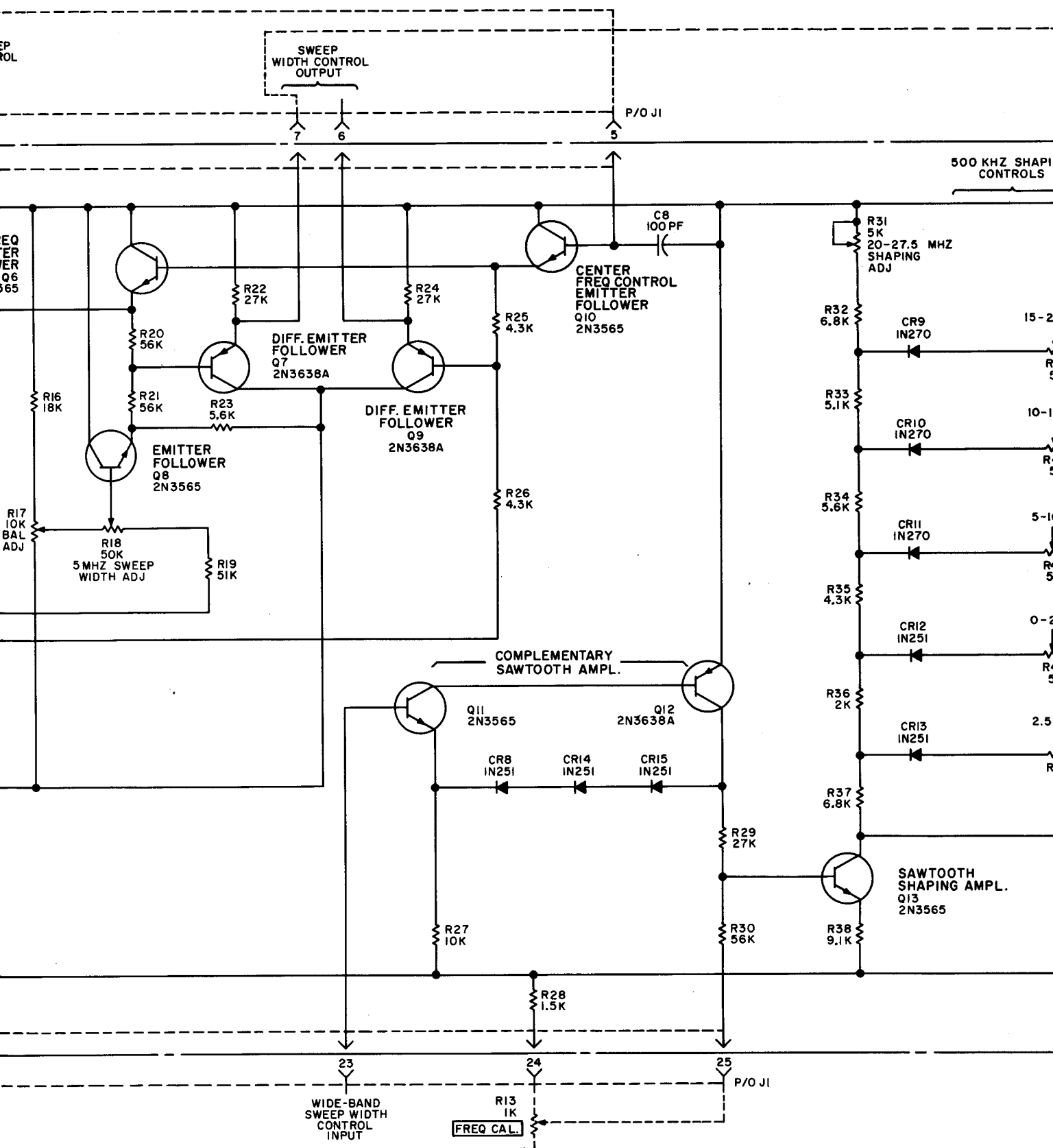
- NOTES:
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE IN OHMS, 1/4 W, ±5%.
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. ALL INDUCTORS ARE IN MICROHENRIES.

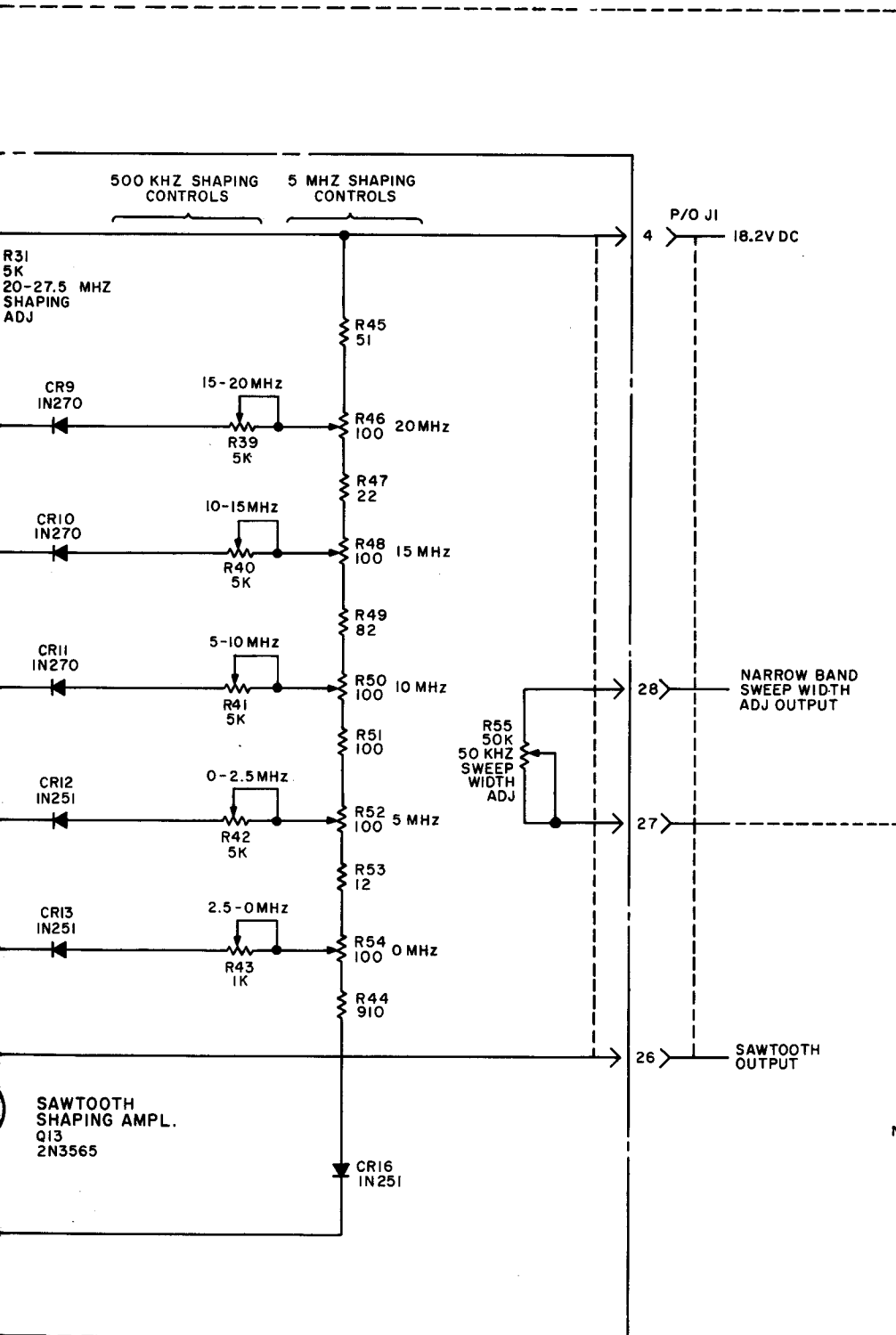
Figure 5-5. I-f Amplifier/Detector Assembly A2,
Schematic Diagram

MANUAL
CONTROL



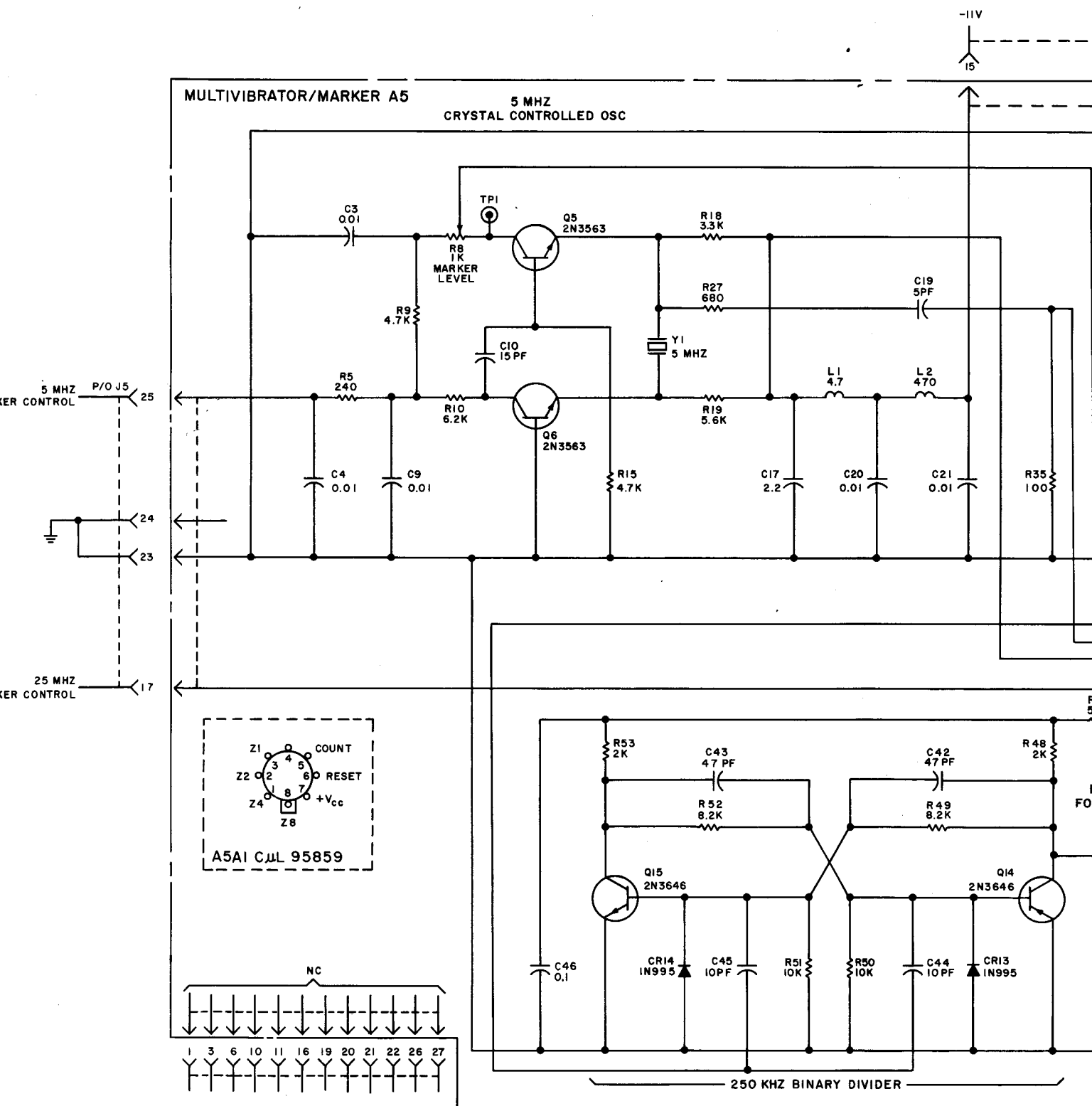


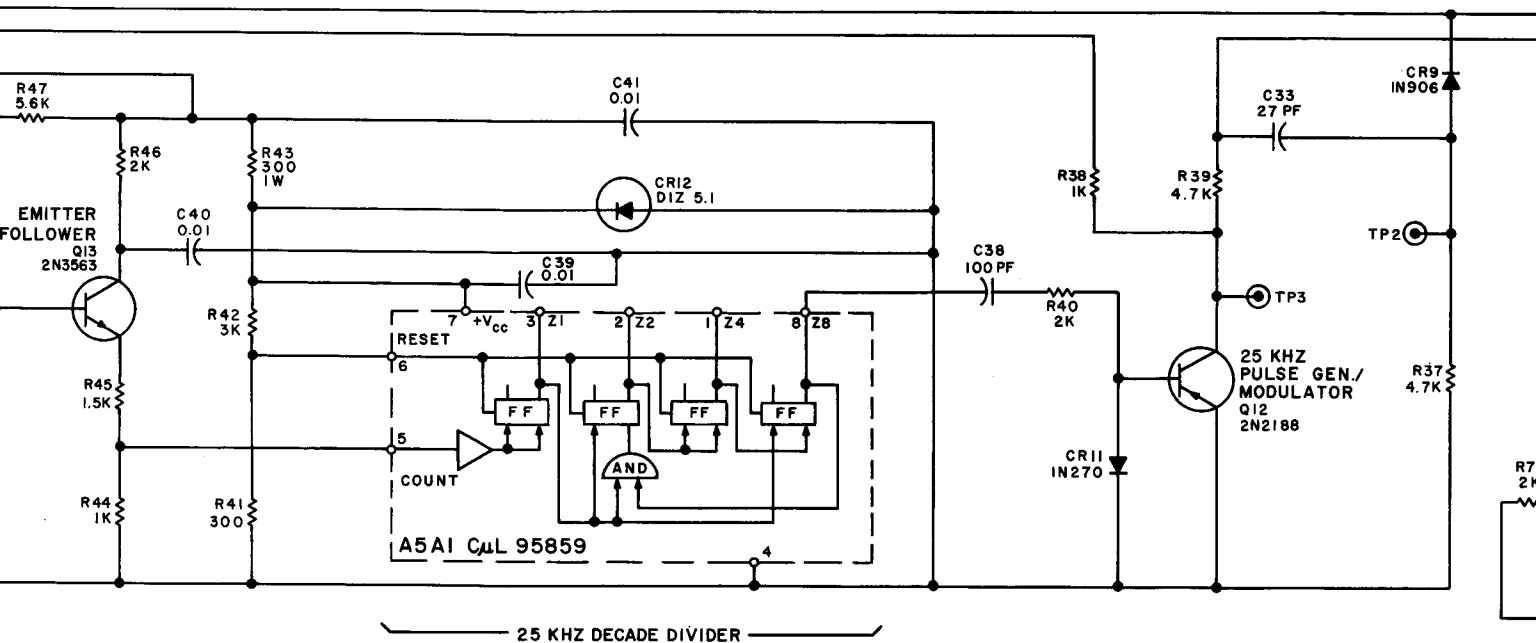
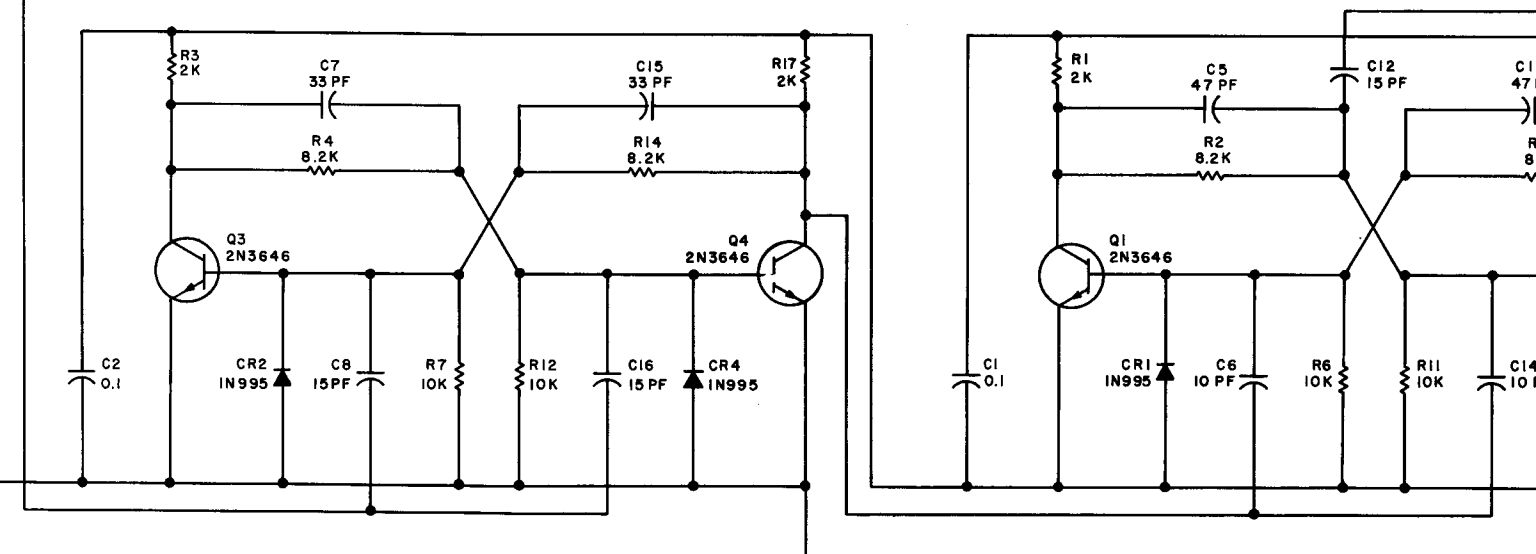
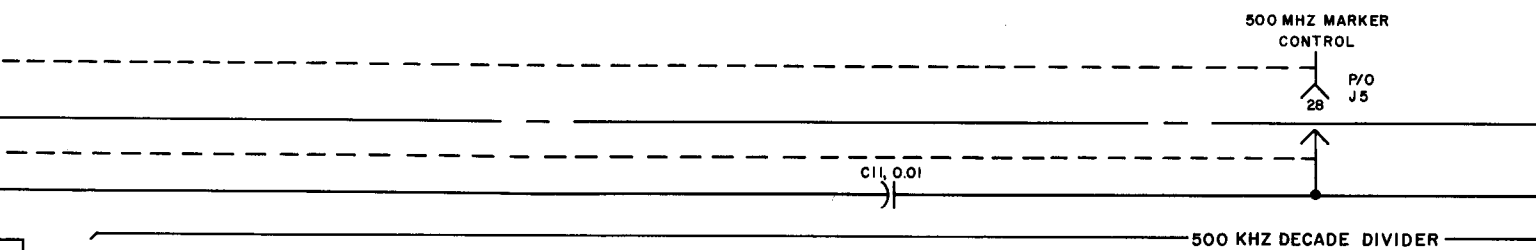


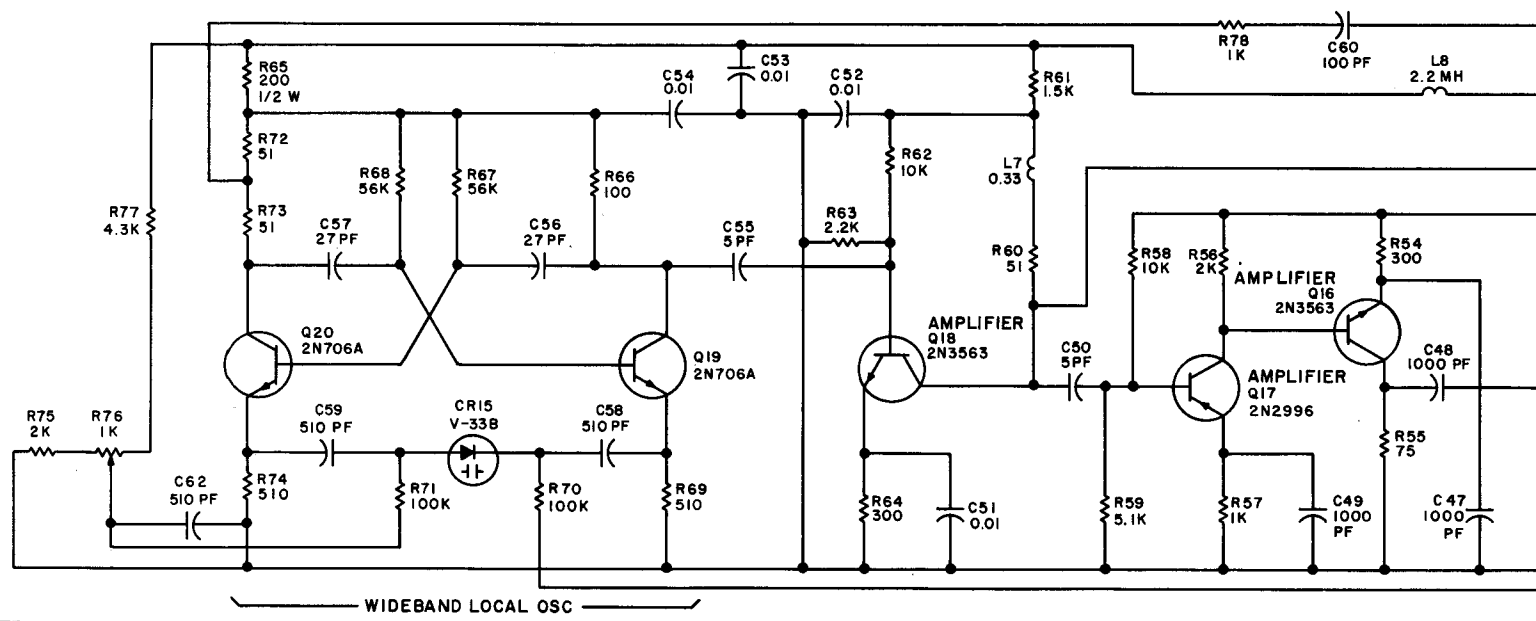
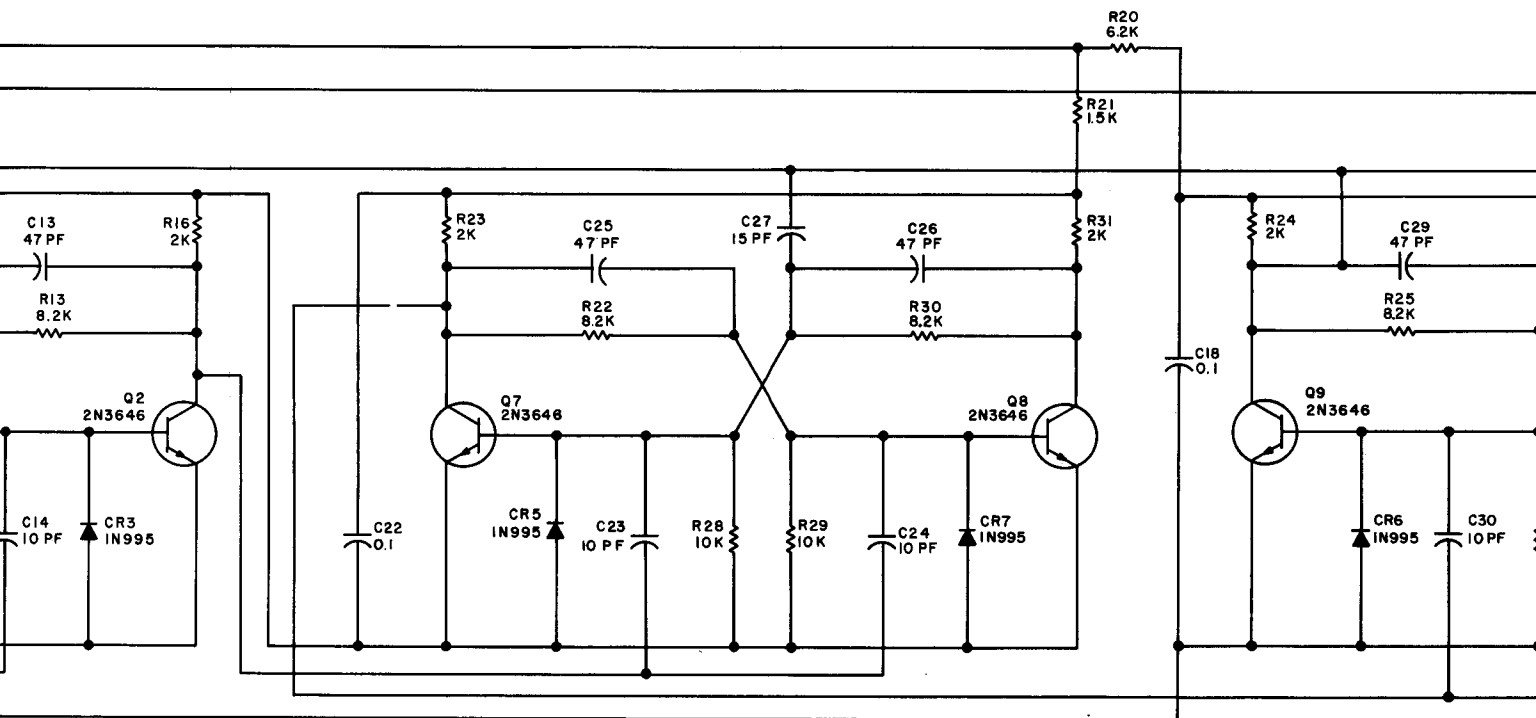


- NOTES:
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE IN OHMS, 1/4W, $\pm 5\%$.
 2. ALL CAPACITORS ARE IN MICROFARADS.

Figure 5-6. DC Control Assembly A1,
Schematic Diagram







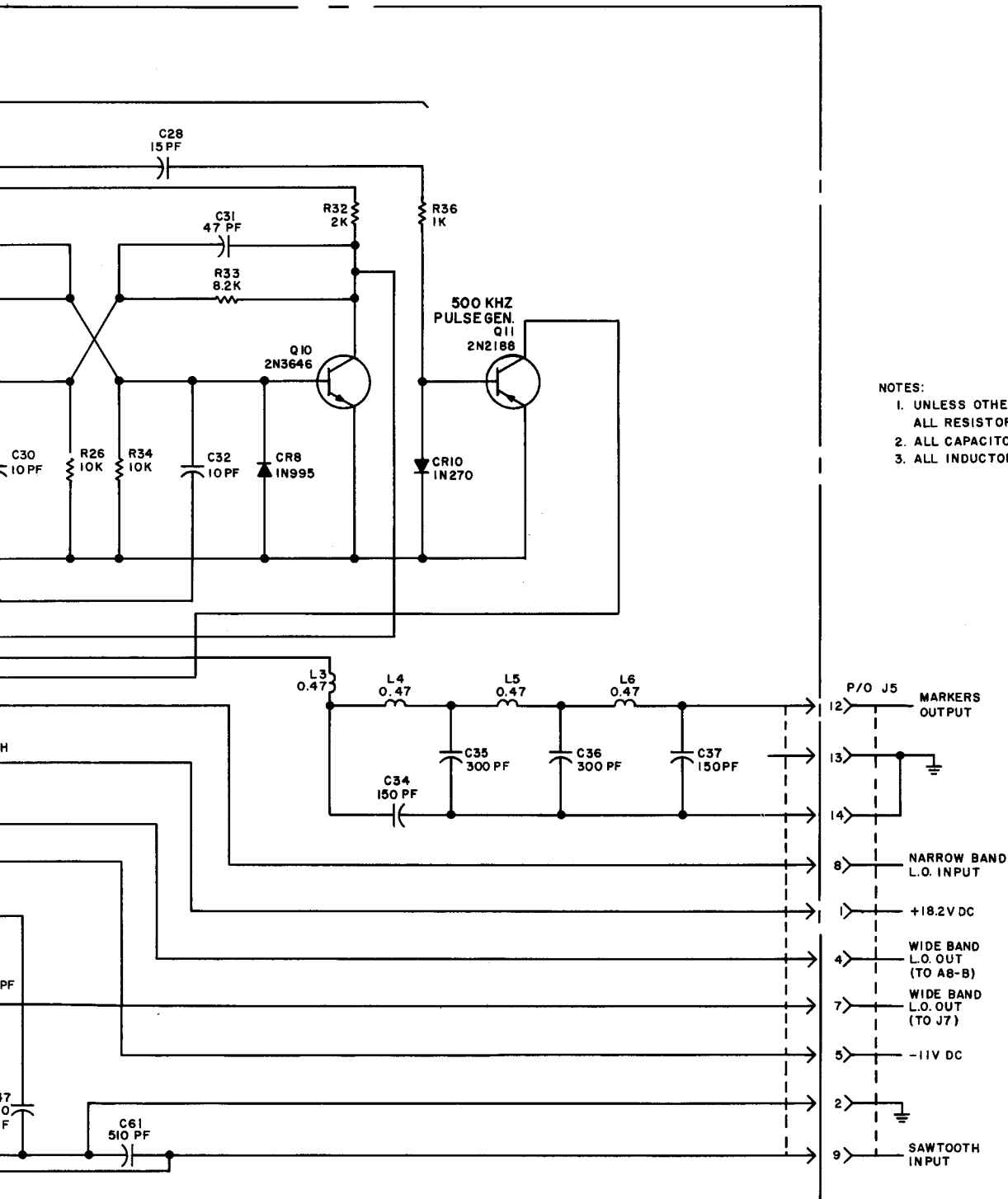


Figure 5-7. Multivibrator/Marker Assembly A5,
Schematic Diagram