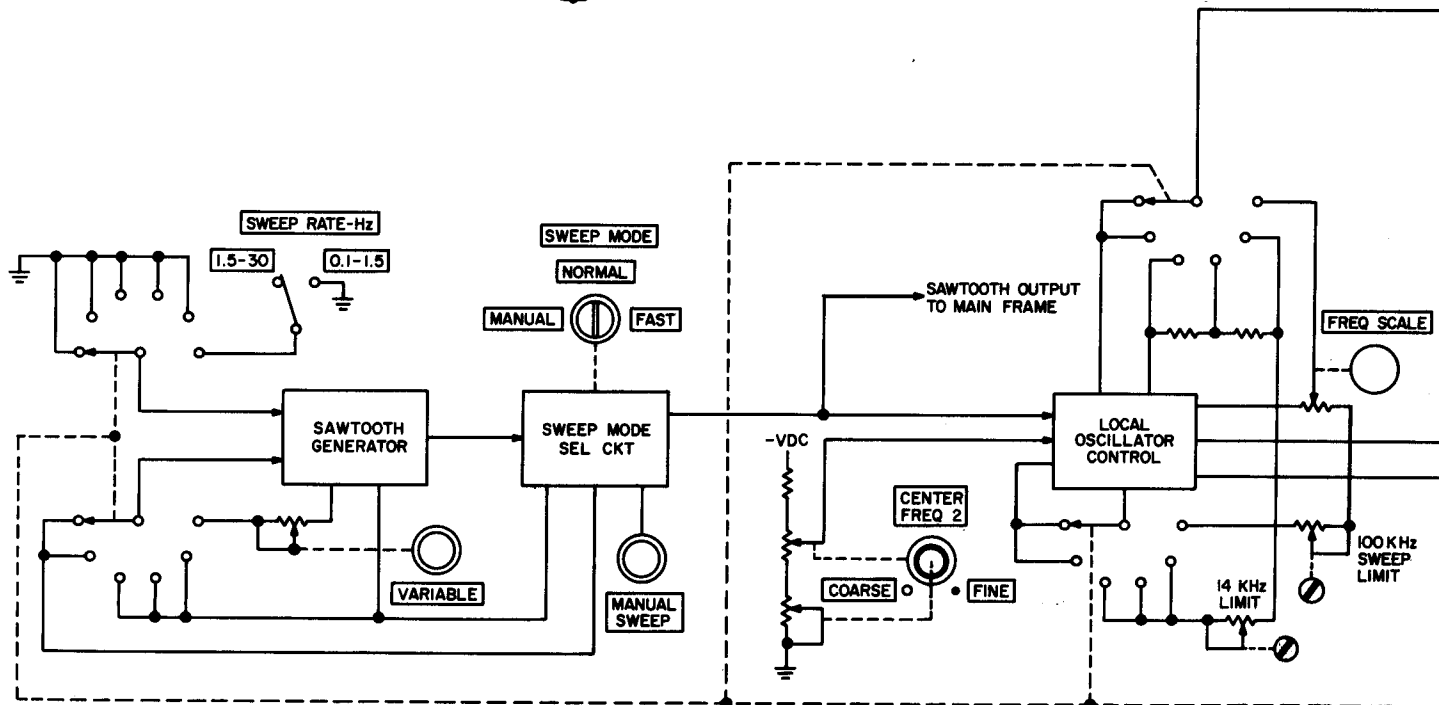
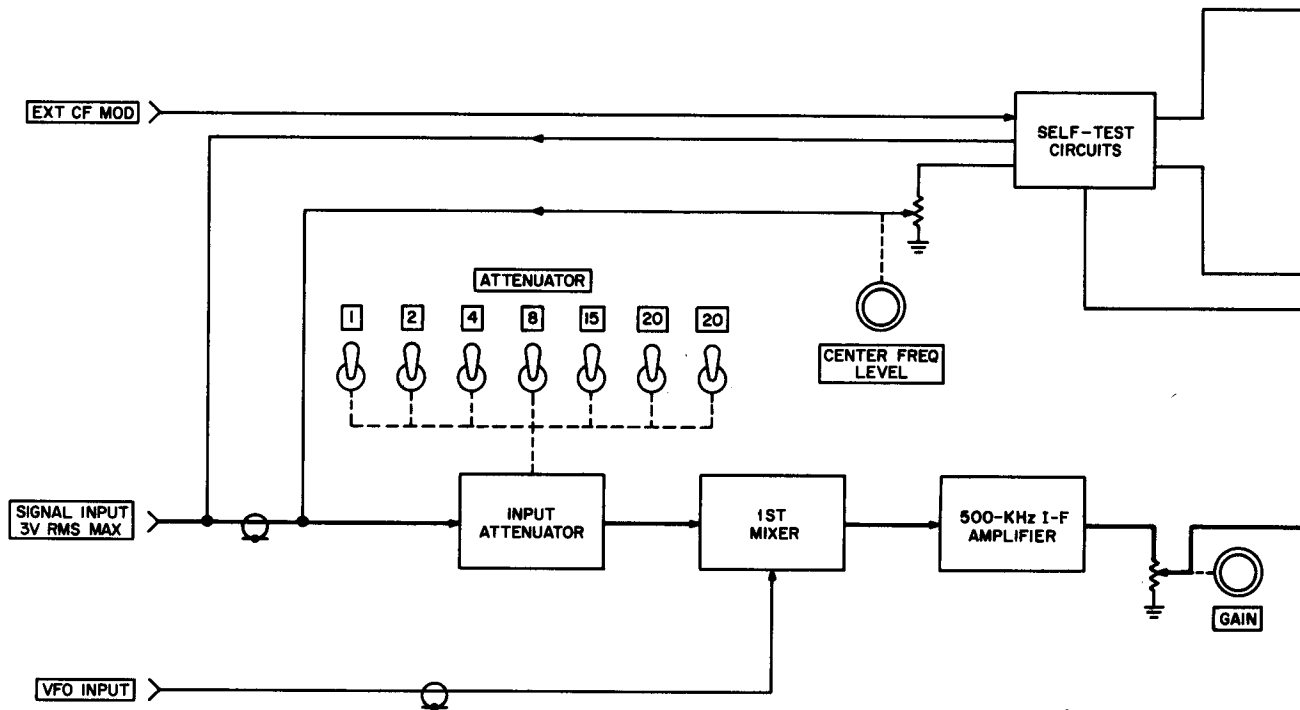


SECTION V

SCHEMATIC DIAGRAMS



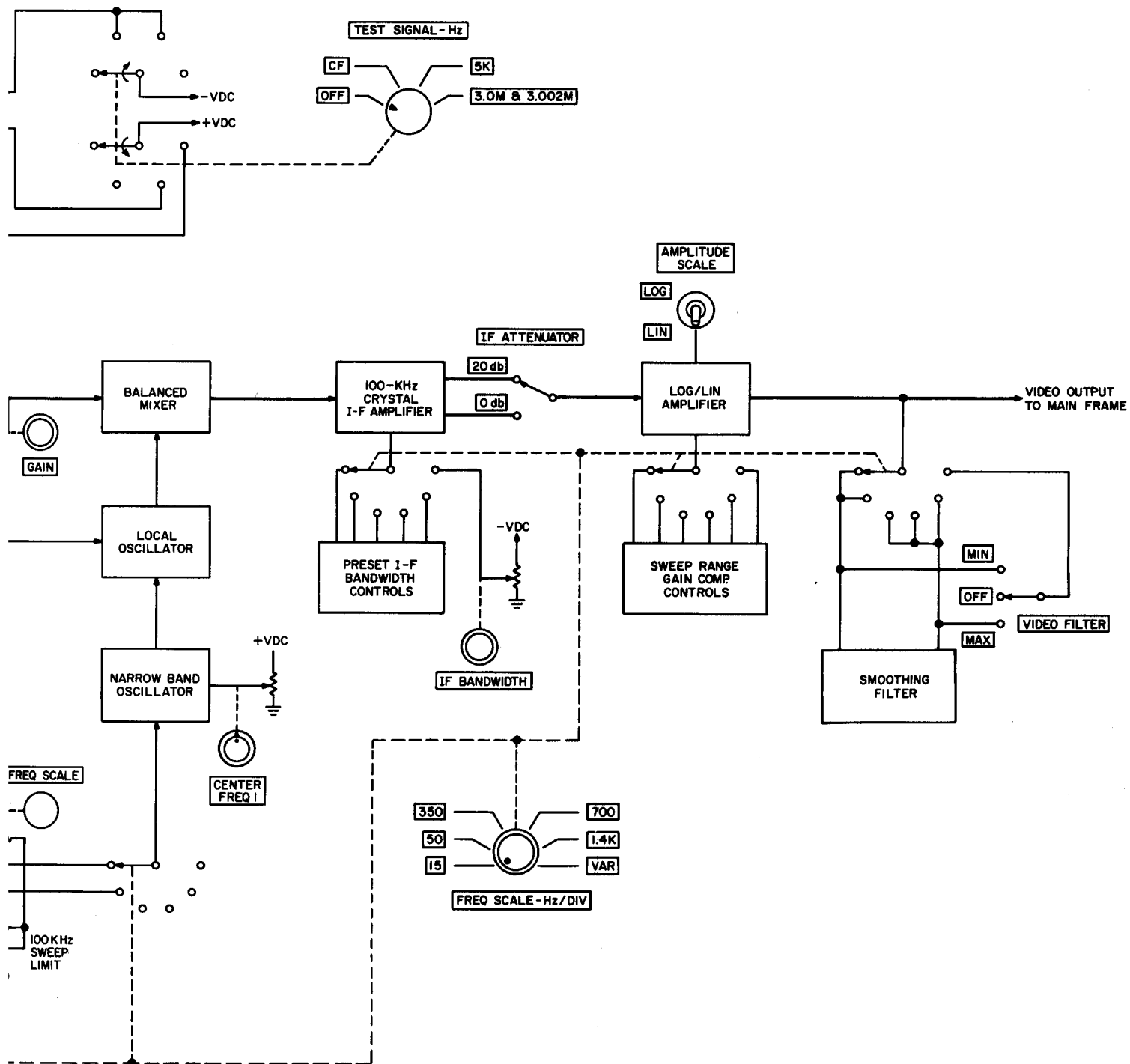
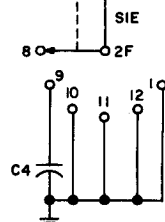
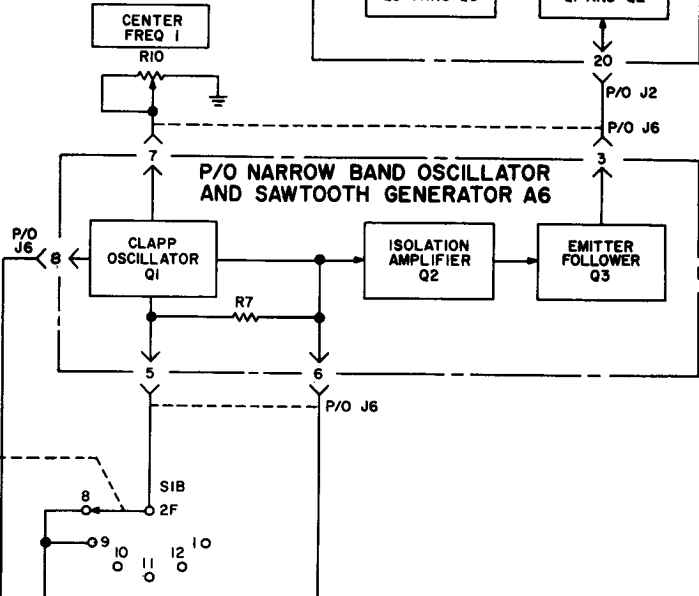
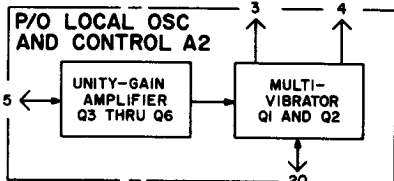
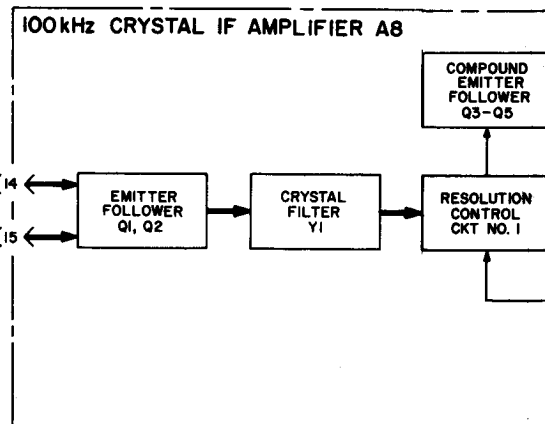
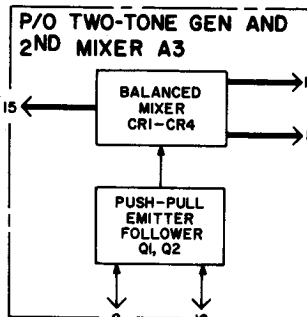
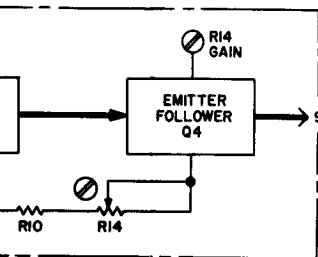
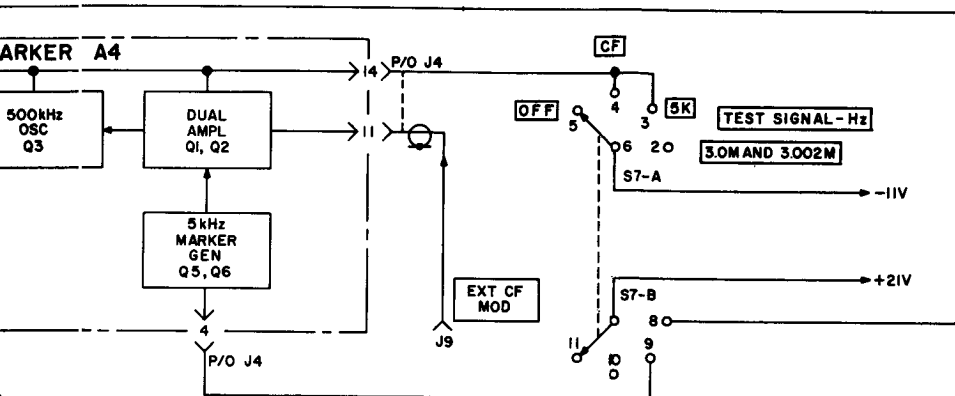


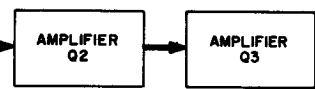
Figure 3-1. Simplified Block Diagram



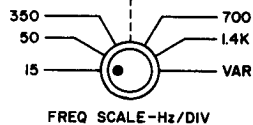
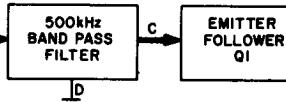
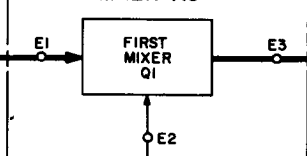
P/O CON



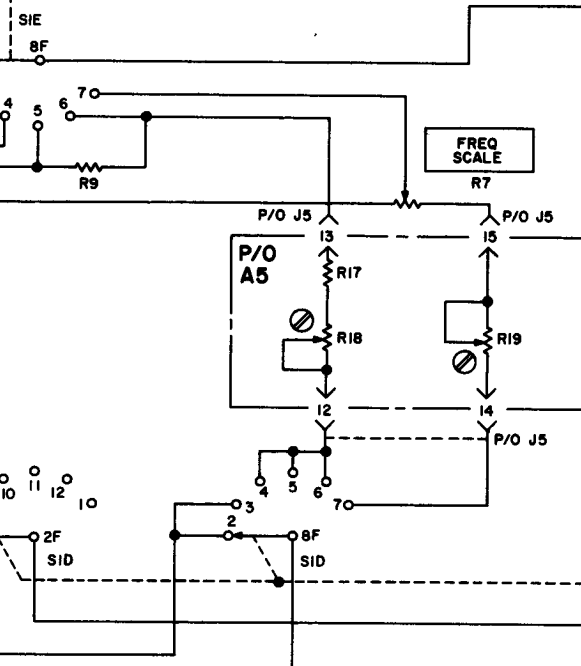
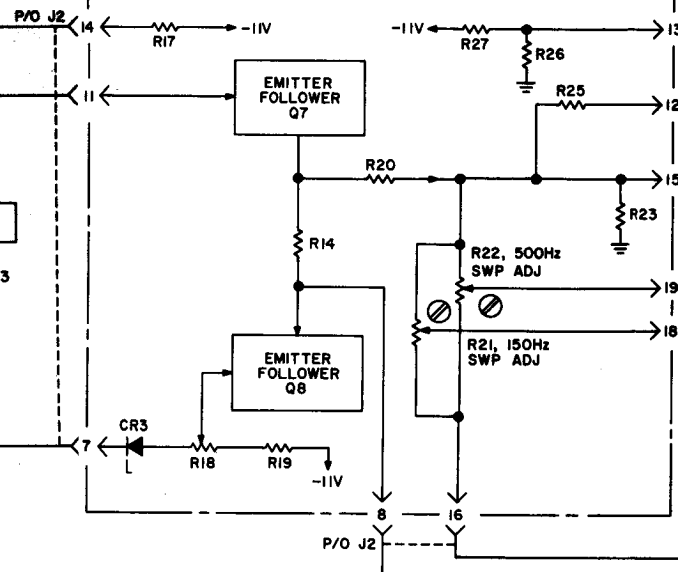
500kHz IF AMPLIFIER A5

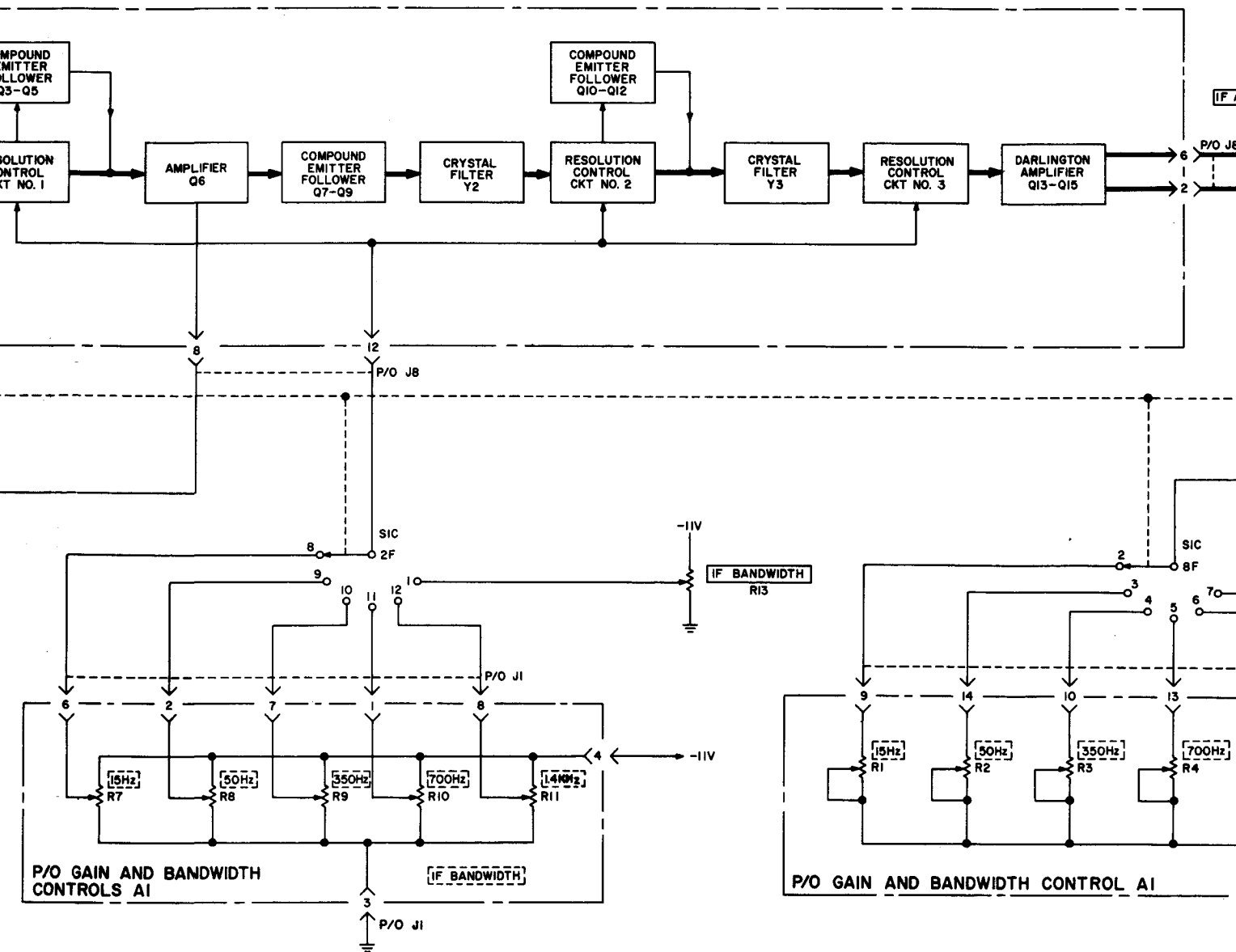


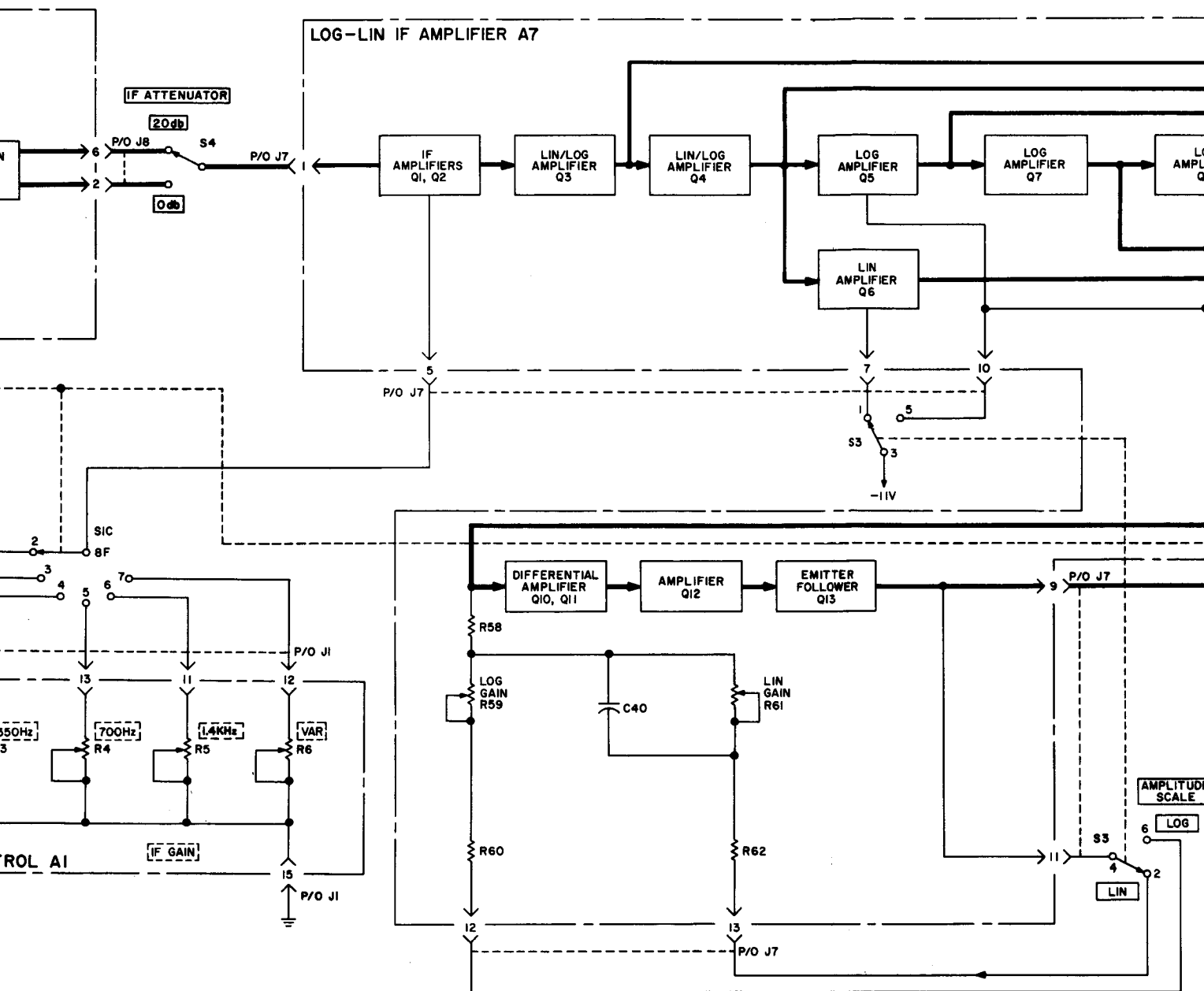
FIRST MIXER A9



P/O LOCAL OSCILLATOR AND CONTROL A2







FIER A7

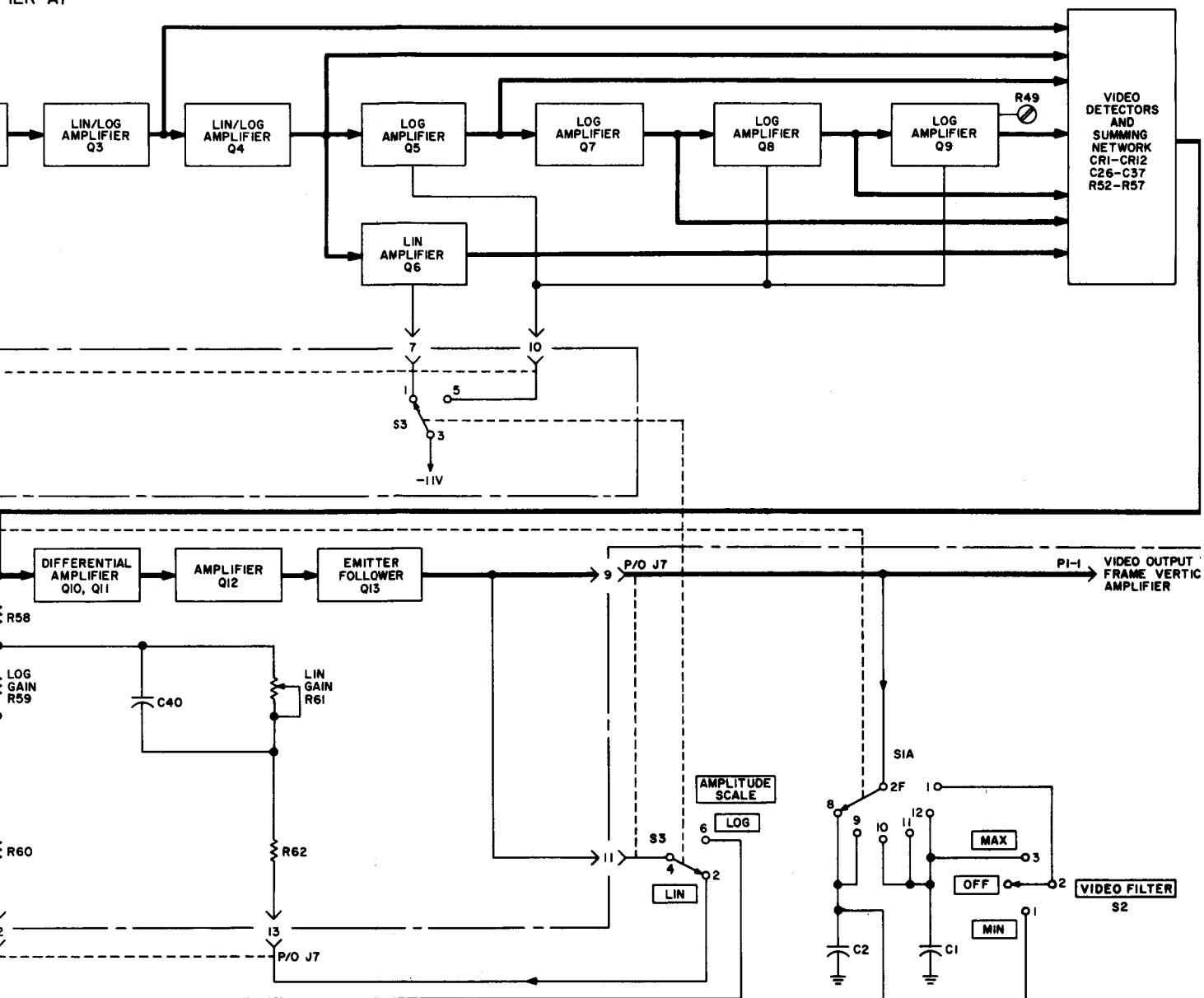
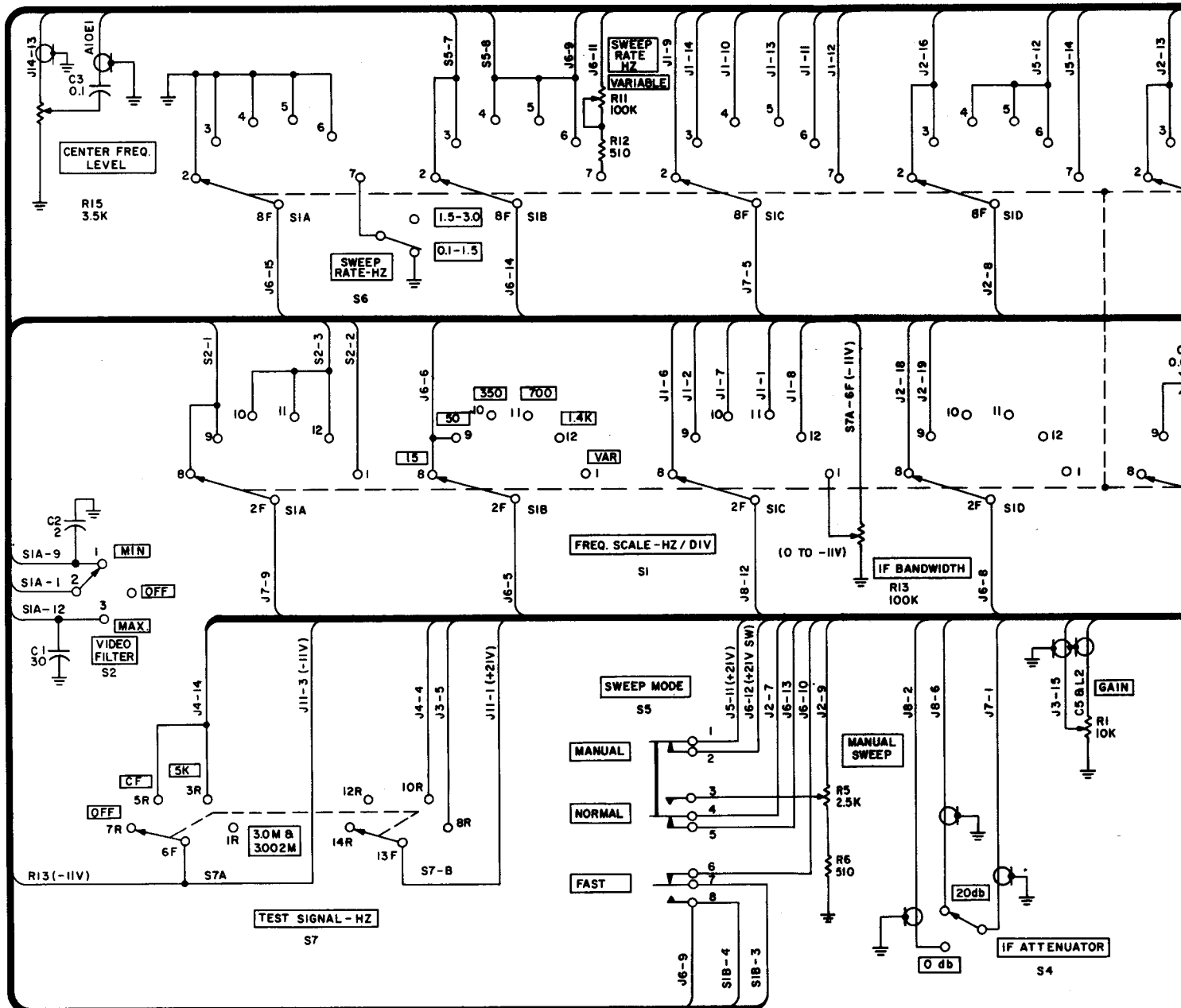


Figure 3-2. Detailed Block Diagram



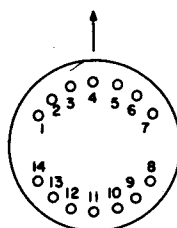
NOTES:

UNLESS OTHERWISE SPECIFIED,

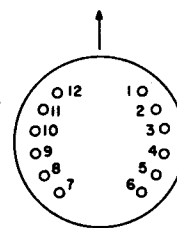
1. ALL RESISTOR VALUES ARE IN OHMS, 1/4 W, $\pm 5\%$.

2. ALL CAPACITORS ARE IN MICROFARADS.

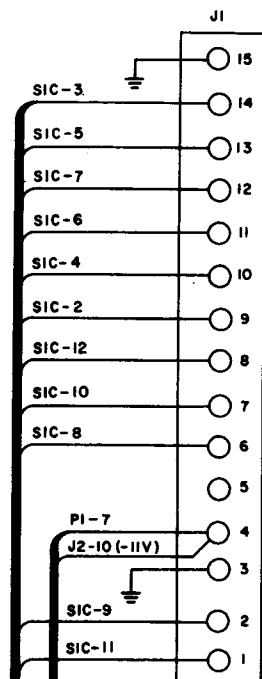
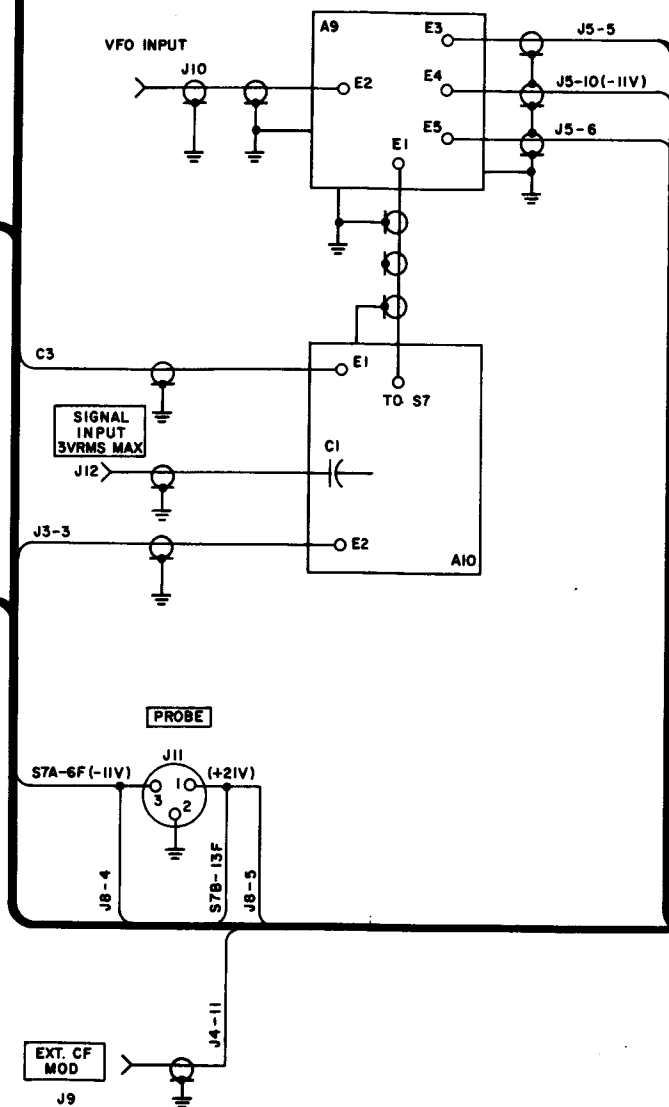
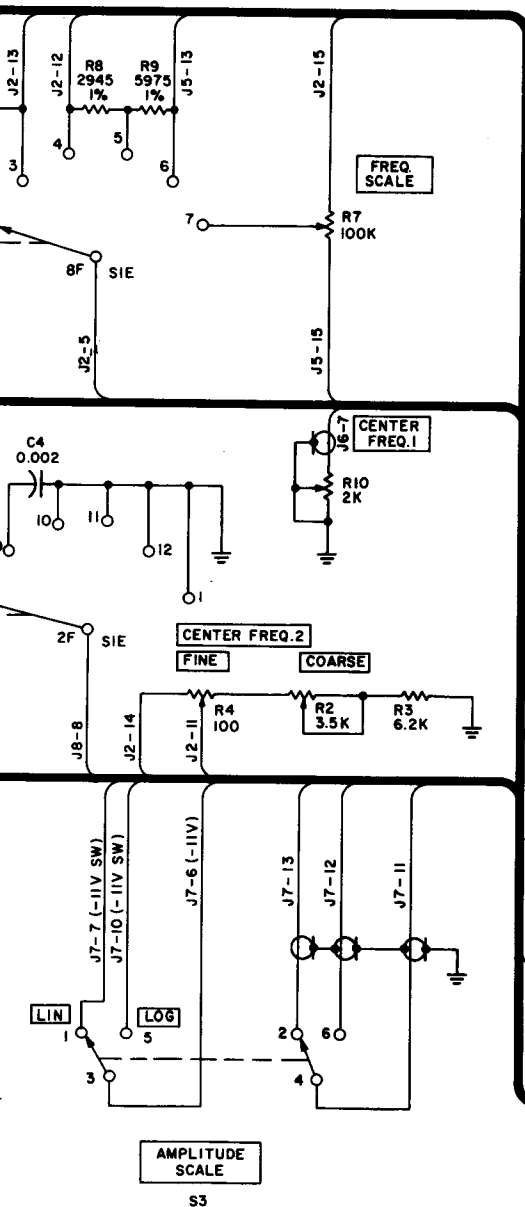
3. ☐ INDICATES FRONT PANEL MARKING

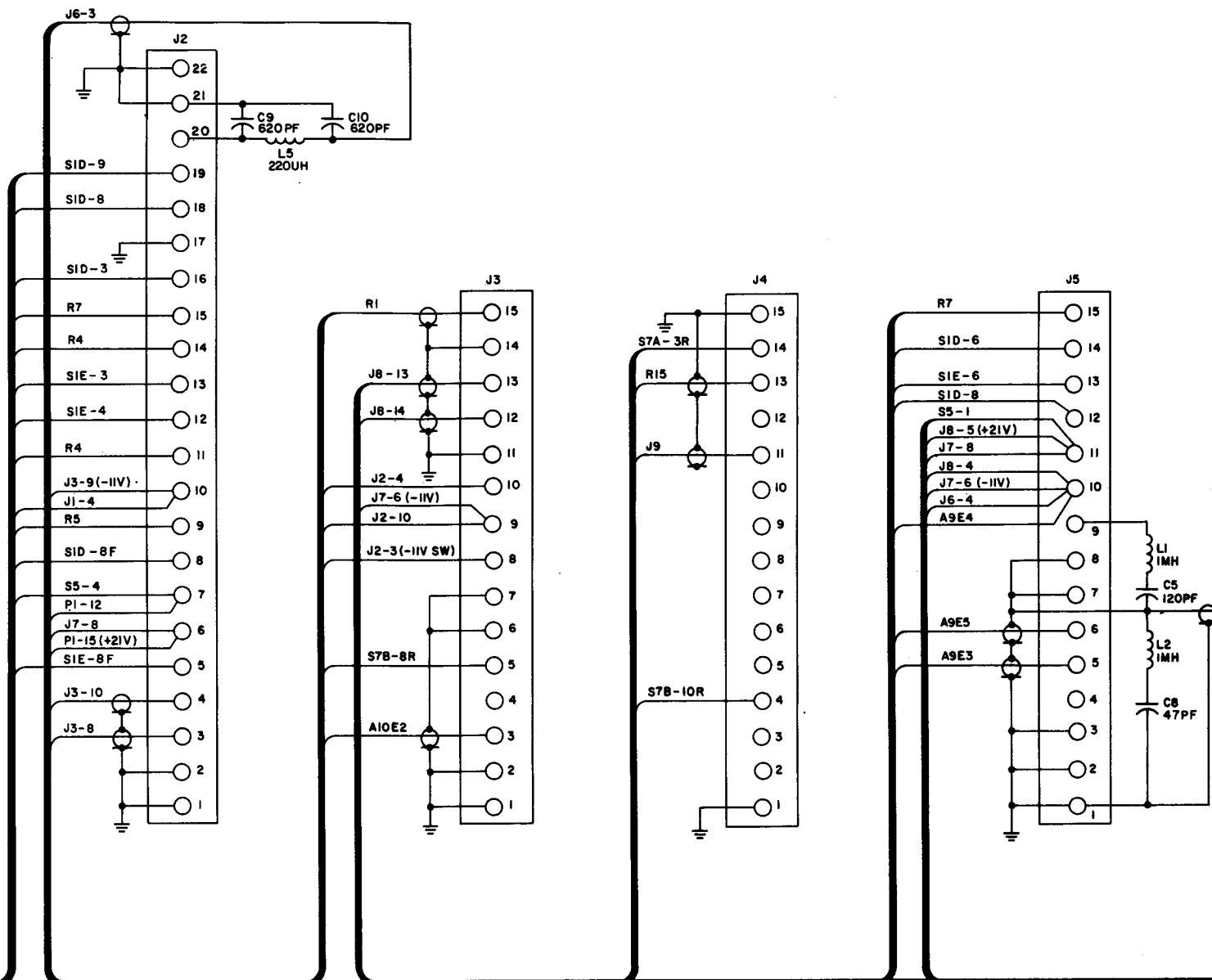


WAFFER OF S6 & S7 AS
VIEWED FROM
KNOB END OF
SHAFT



WAFFER OF SI
VIEWED FROM
KNOB END OF
SHAFT





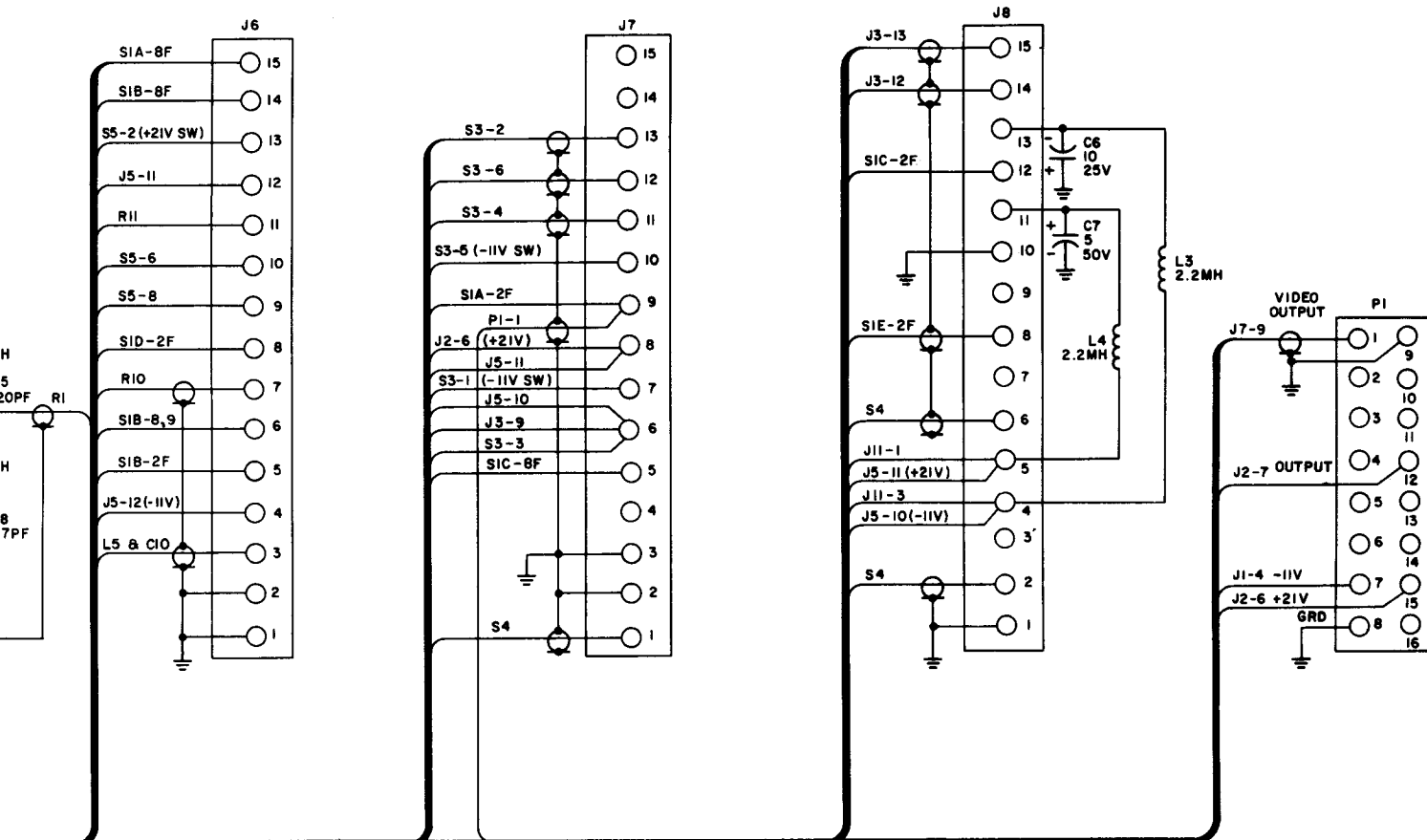
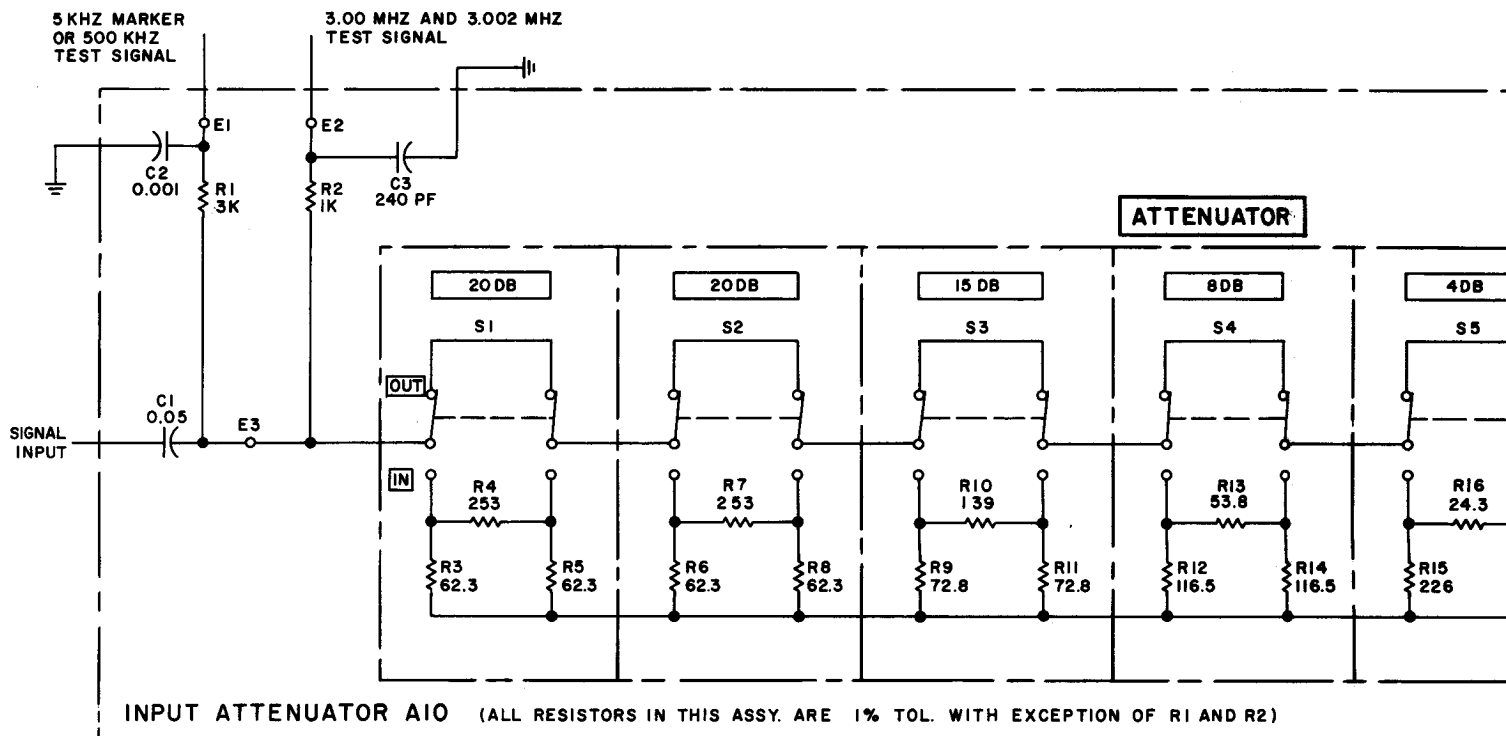
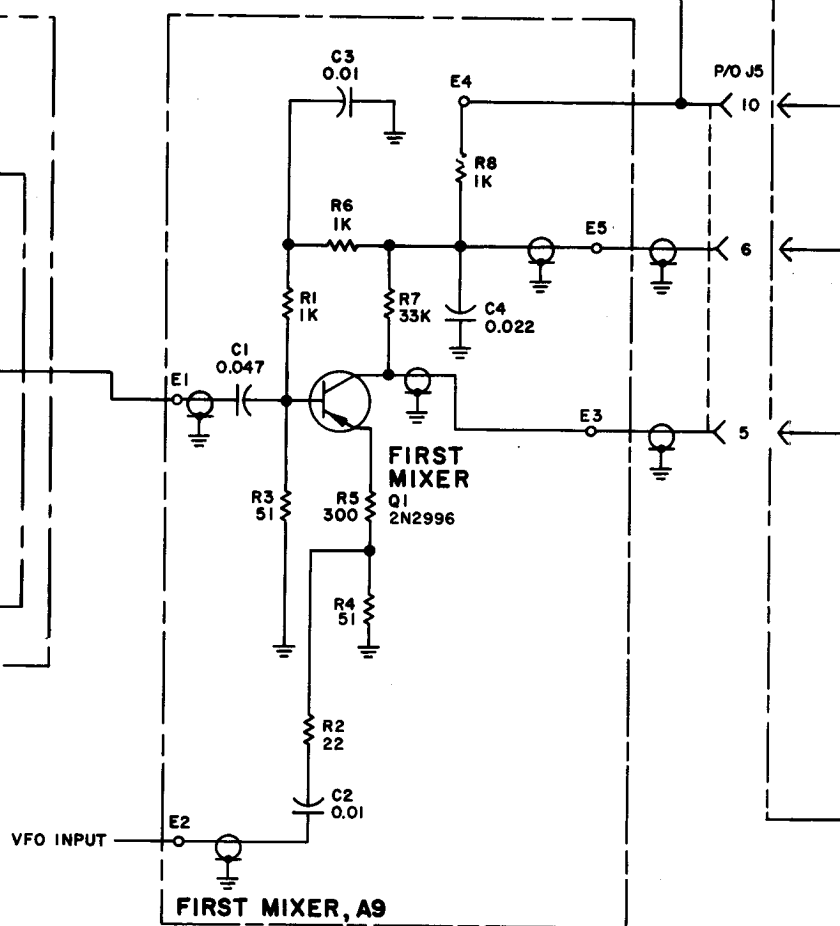
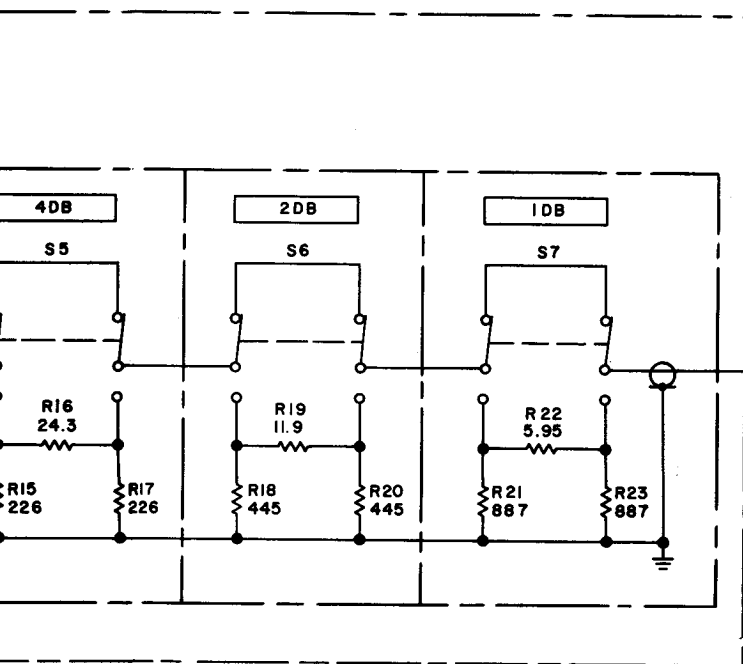


Figure 5-1. Panalyzer, Schematic of Interconnection



NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTOR VALUES ARE IN OHMS, 1/4 W $\pm 5\%$.
2. ALL CAPACITORS ARE IN MICROFARADS.
3. INDICATES FRONT PANEL MARKING.



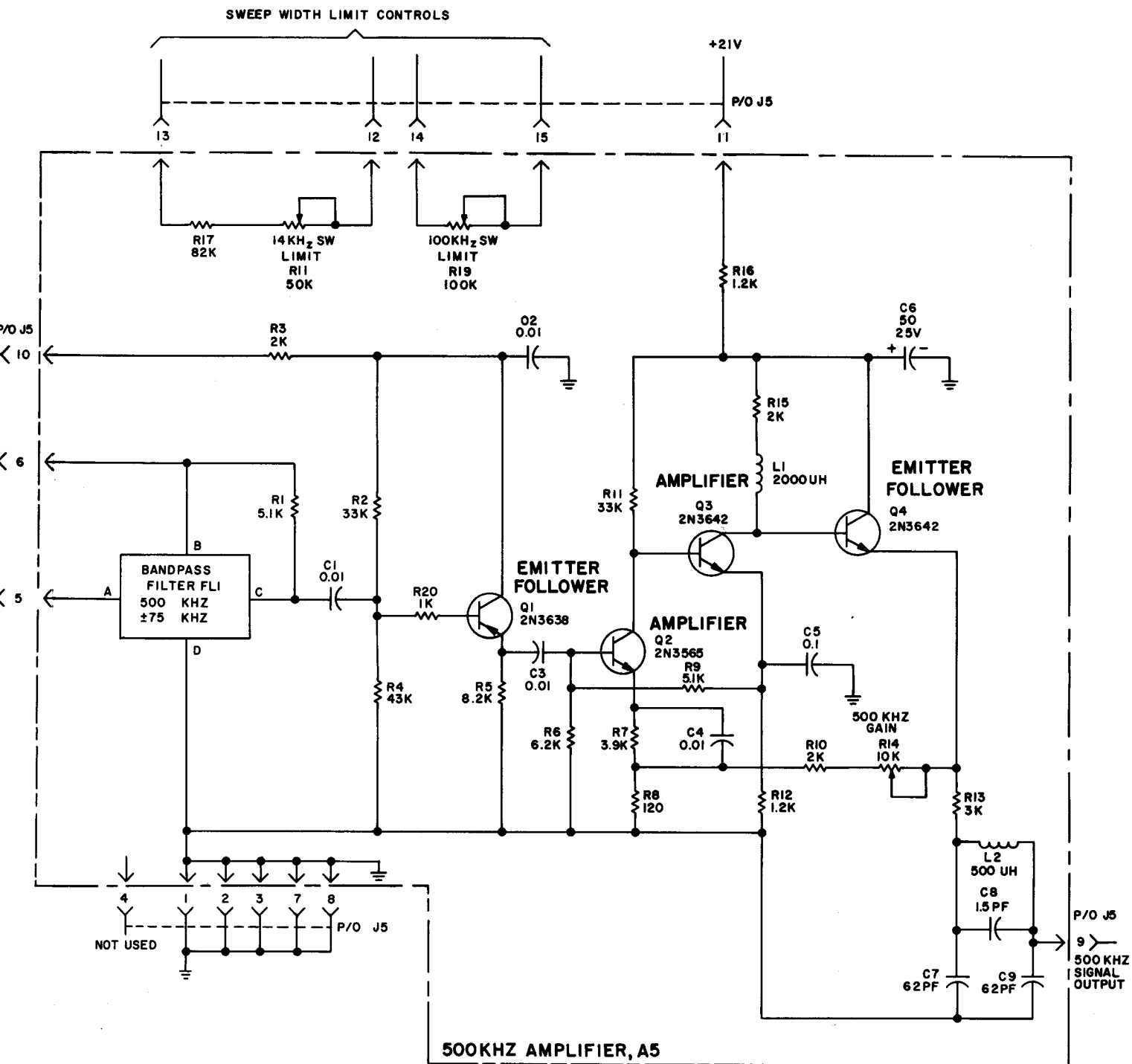
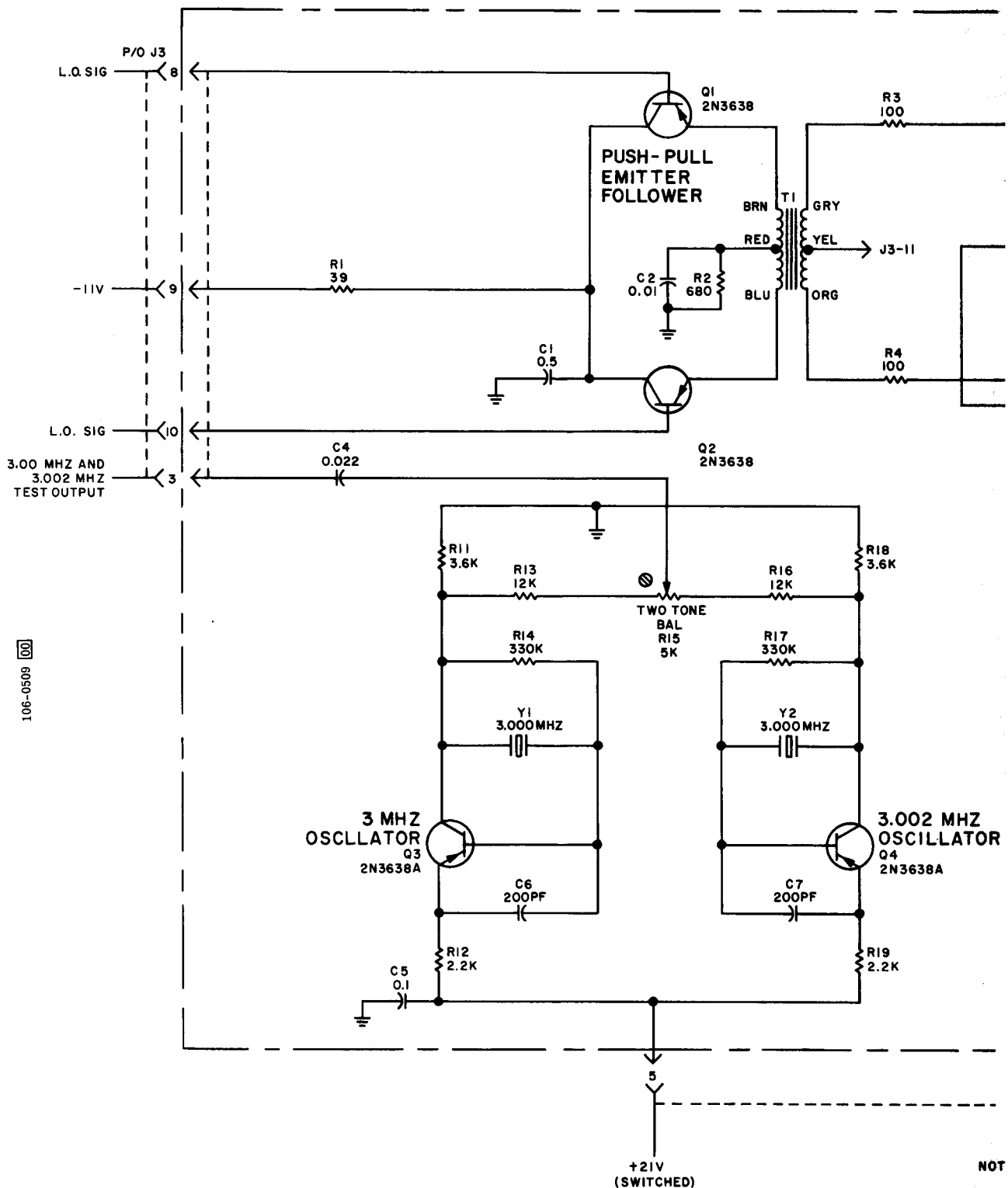


Figure 5-2. Input Attenuator Assembly A10, First Mixer Assembly A9, and 500-kHz I-F Amplifier Assembly A5, Schematic Diagram

106-0509 00



NOT

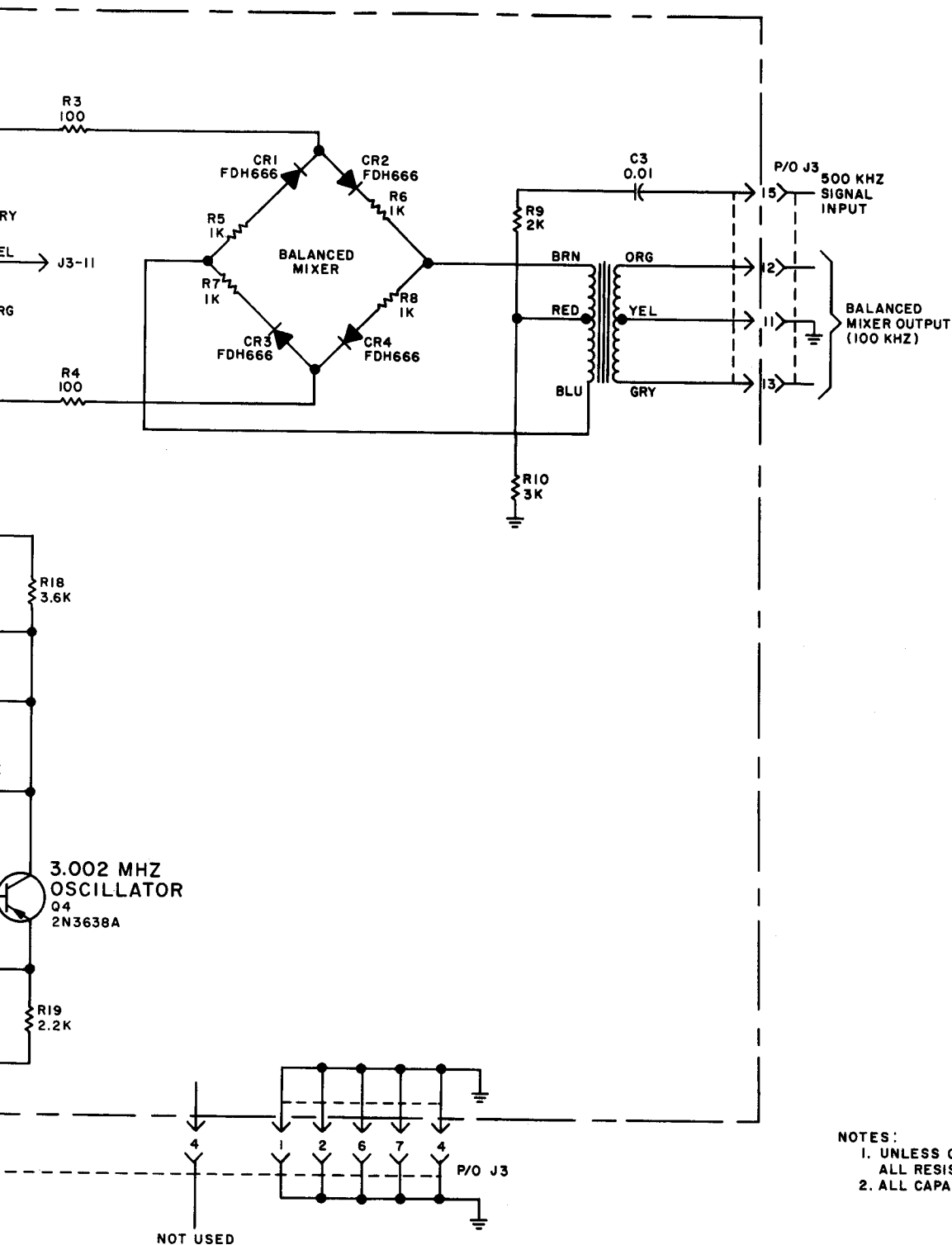
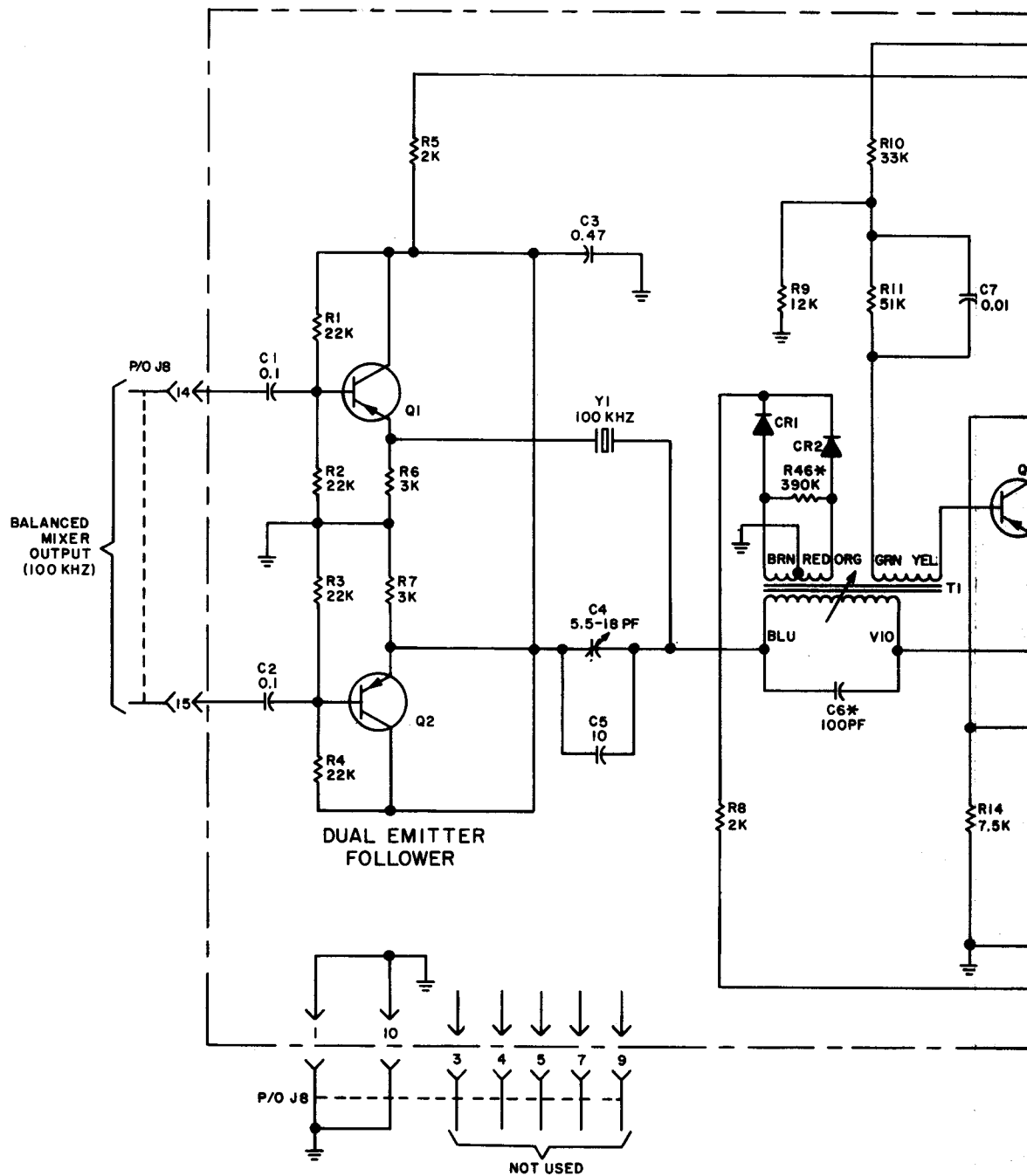
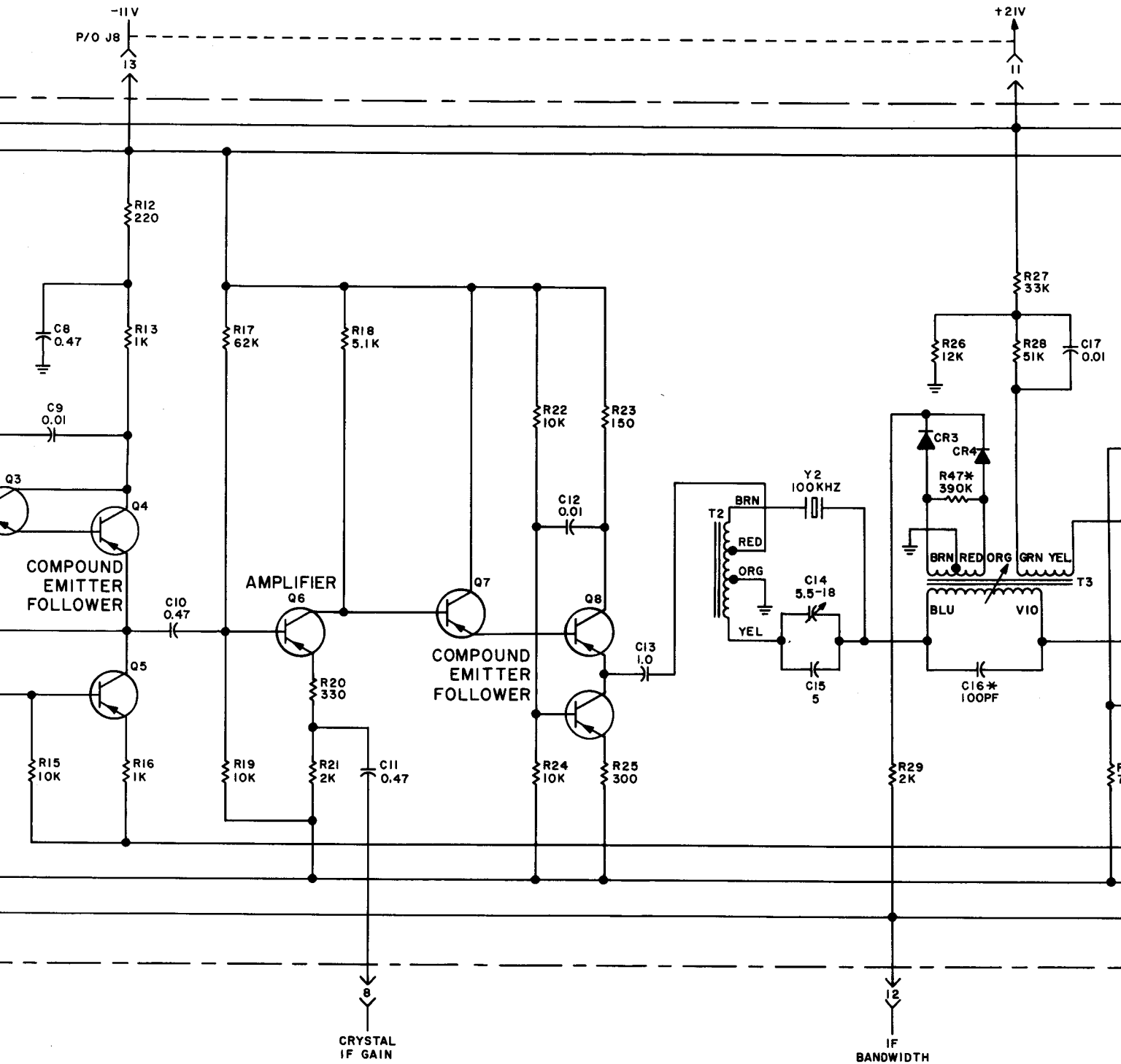
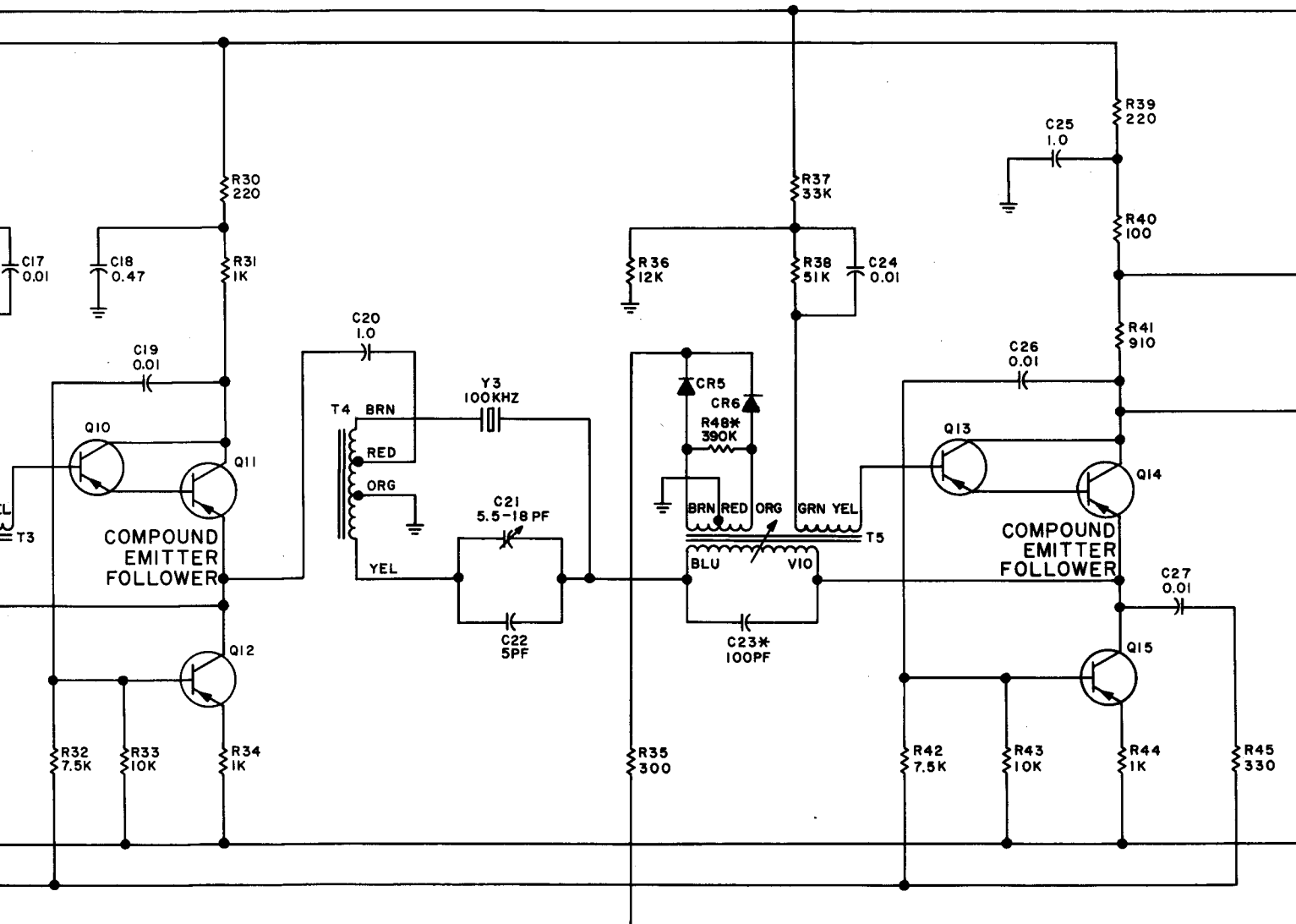
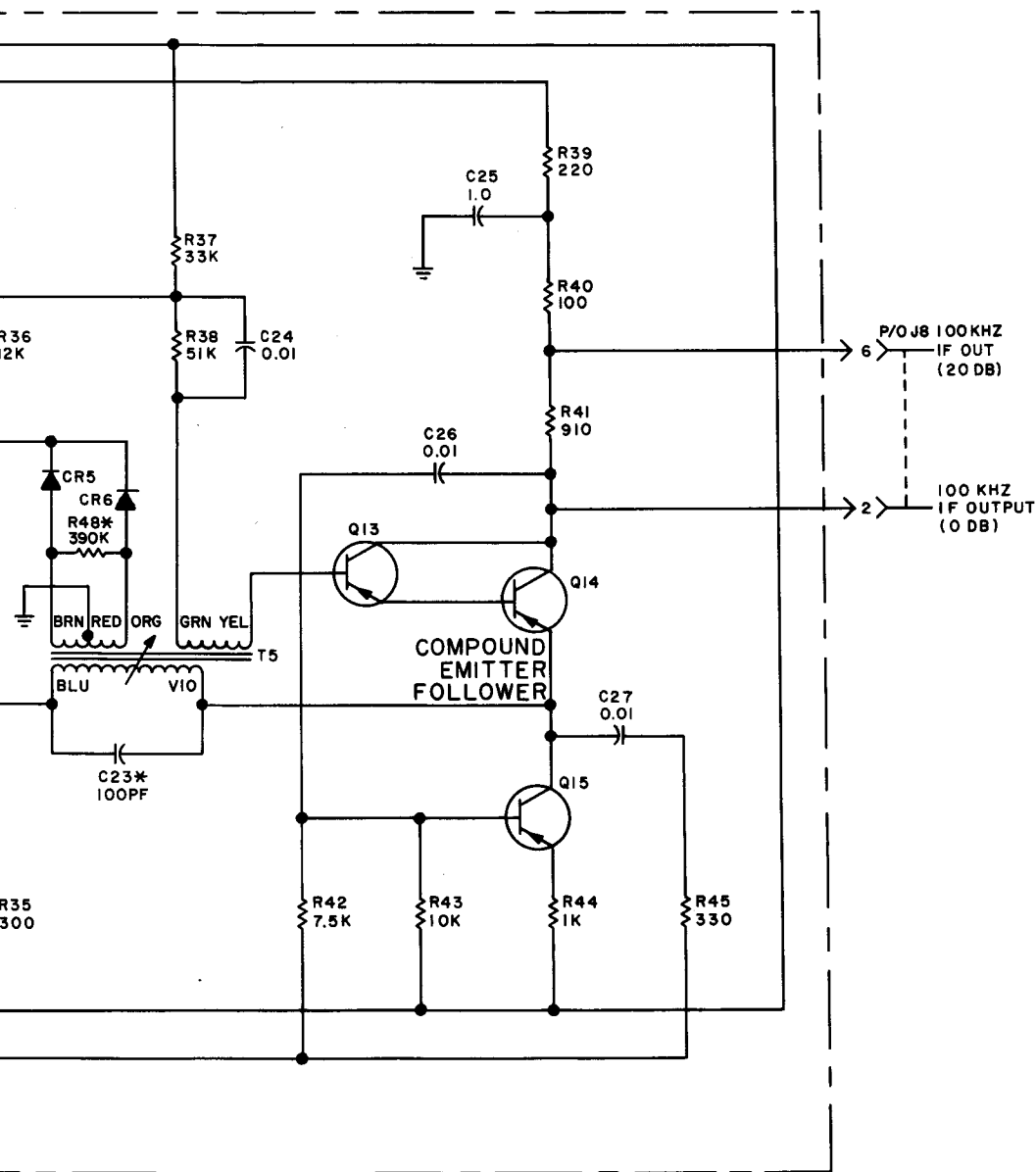


Figure 5-3. Two-tone Generator and
2nd Mixer Assembly A3,
Schematic Diagram









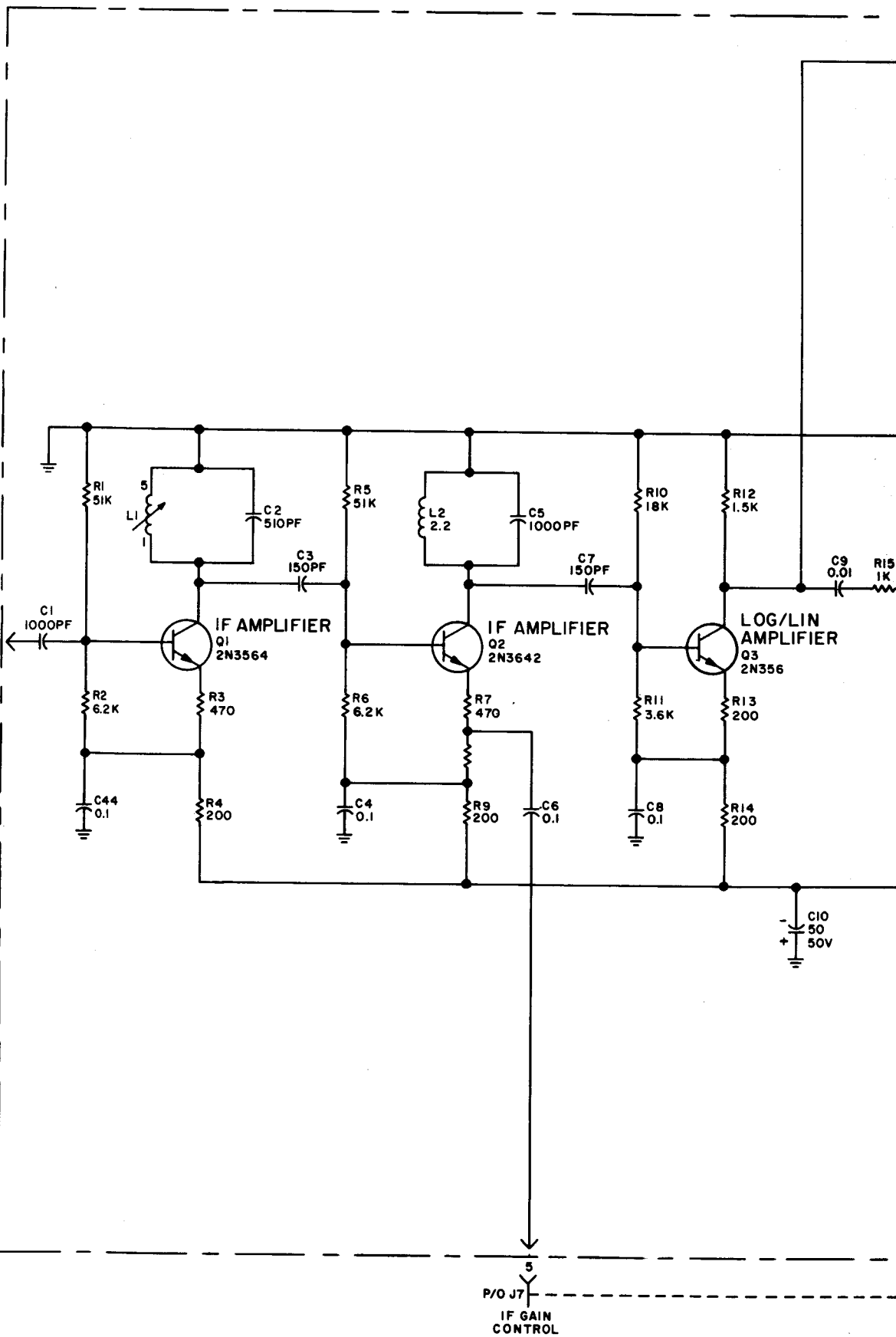
- NOTES:
- UNLESS OTHERWISE SPECIFIED:
 - 1. ALL RESISTORS ARE IN OHMS, 1/4W, $\pm 5\%$.
 - 2. ALL CAPACITORS ARE MICROFARADS.
 - 3. ALL TRANSISTORS ARE TYPE 2N3638.
 - 4. * FACTORY SELECTED VALUE (NOMINAL VALUE SHOWN).
 - 5. ALL DIODES ARE TYPE 1N251.

Figure 5-4. 100-kHz Crystal I-F Amplifier
Assembly A8, Schematic Diagram

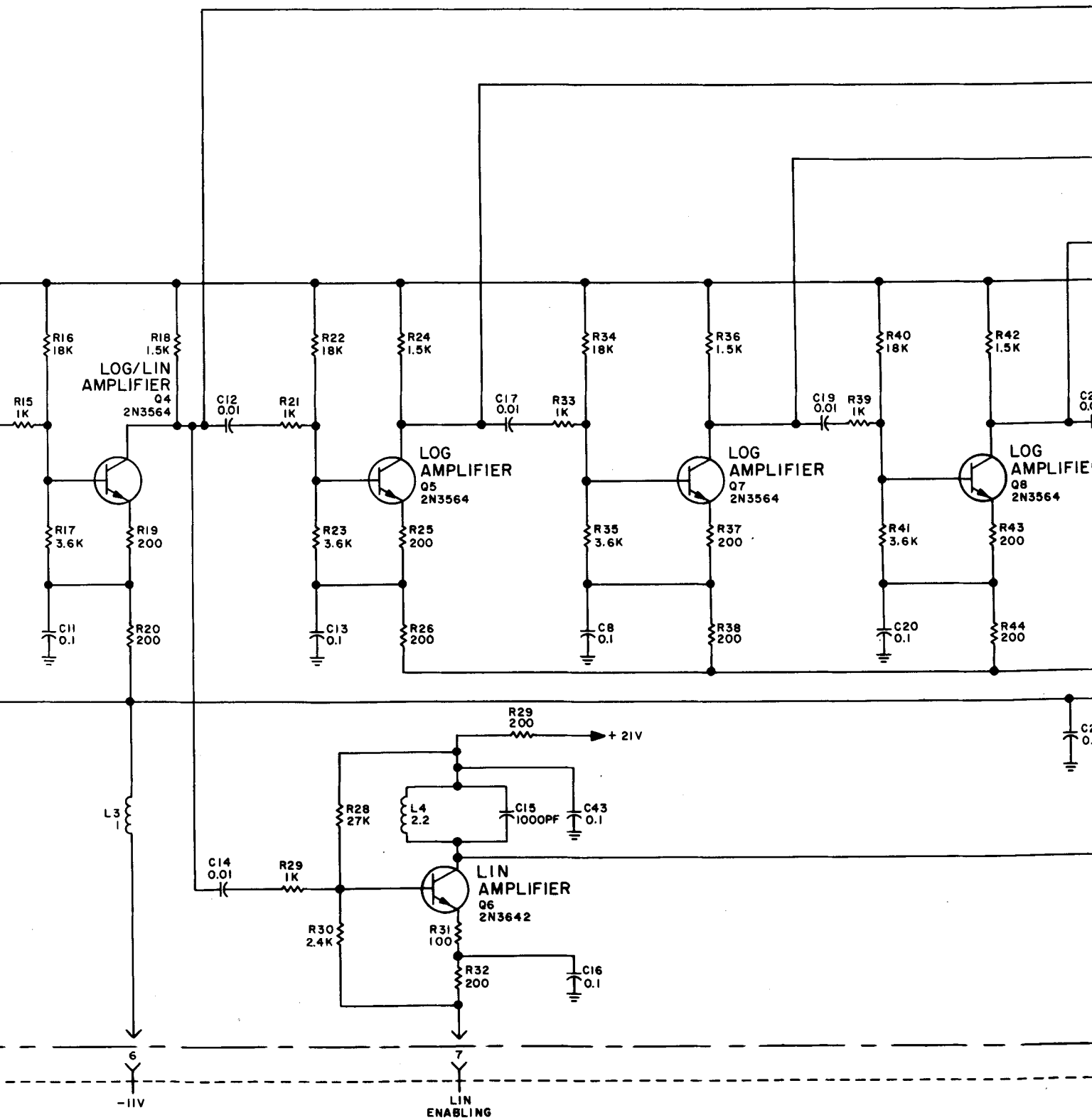
100 KHZ
IF SIG
INPUT

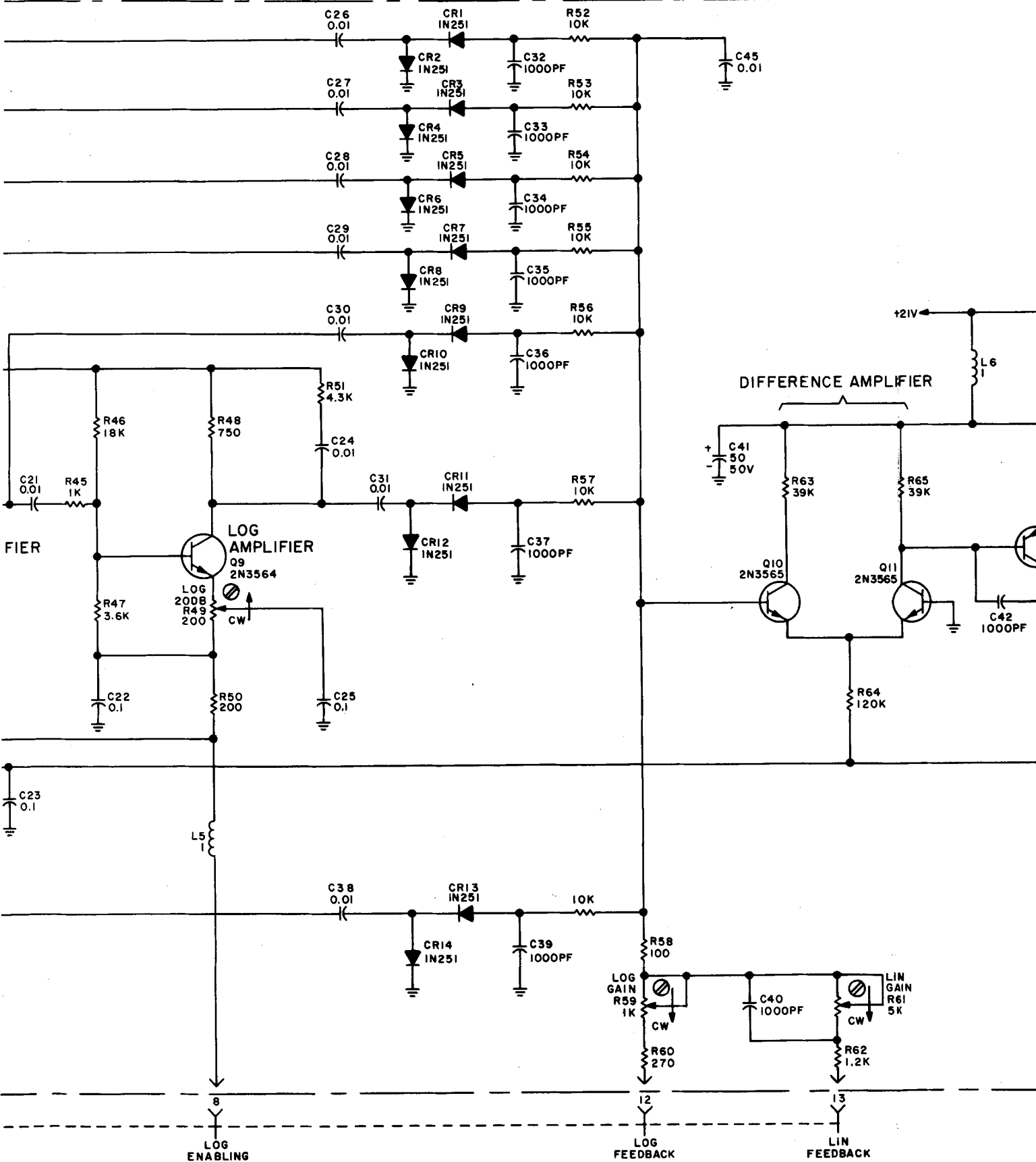
P/O J7

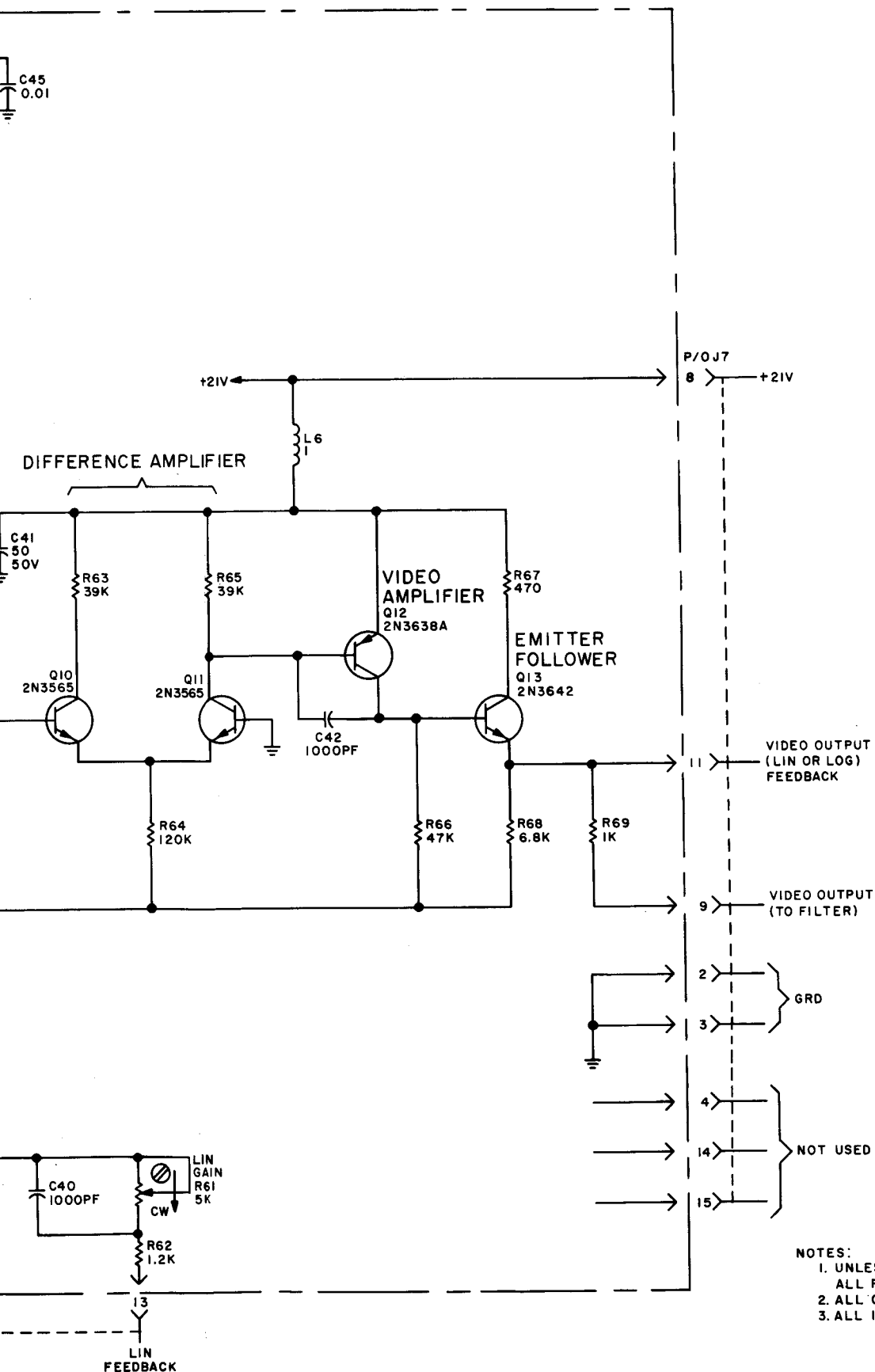
106-0509



5
P/O J7
IF GAIN
CONTROL

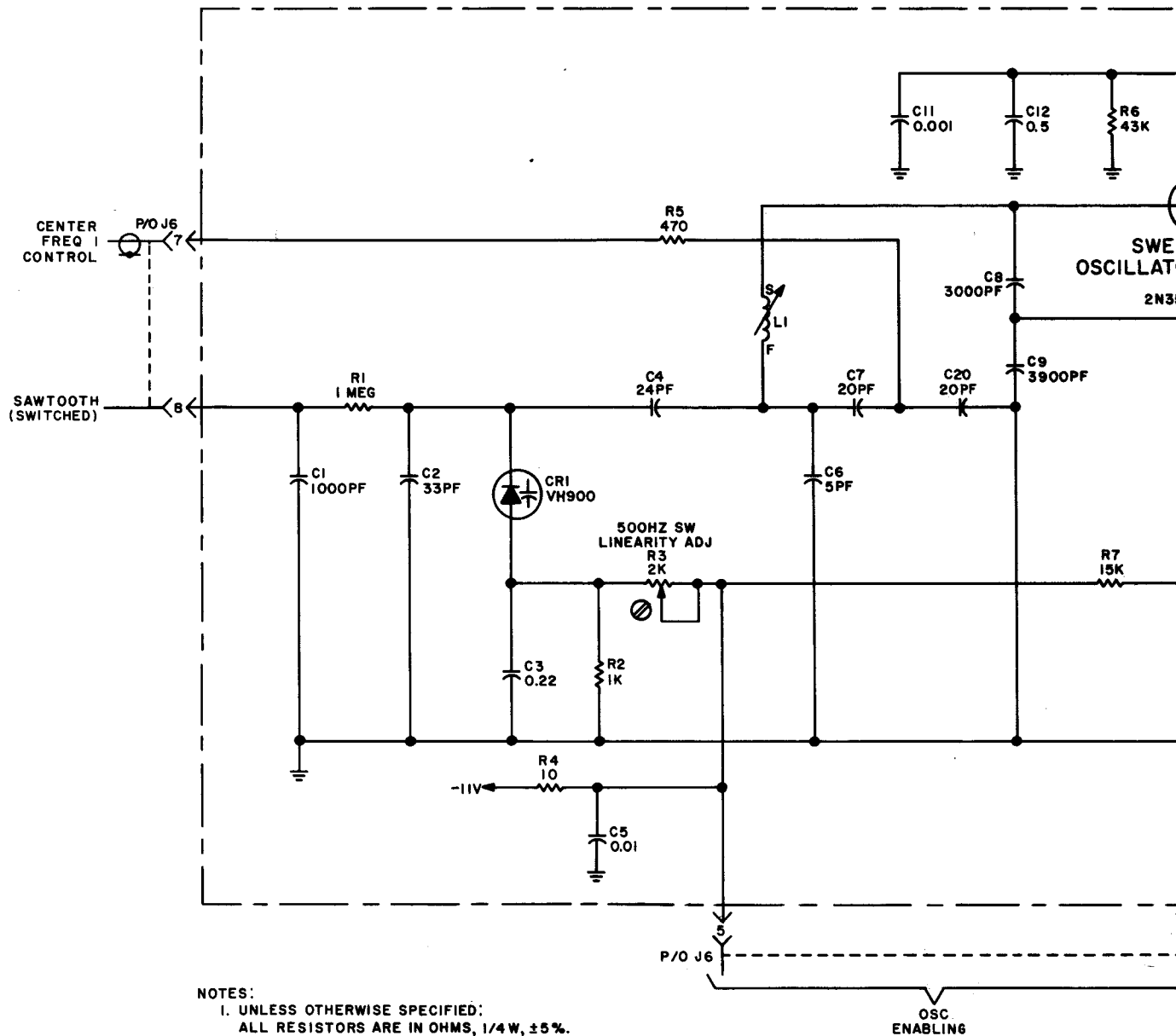






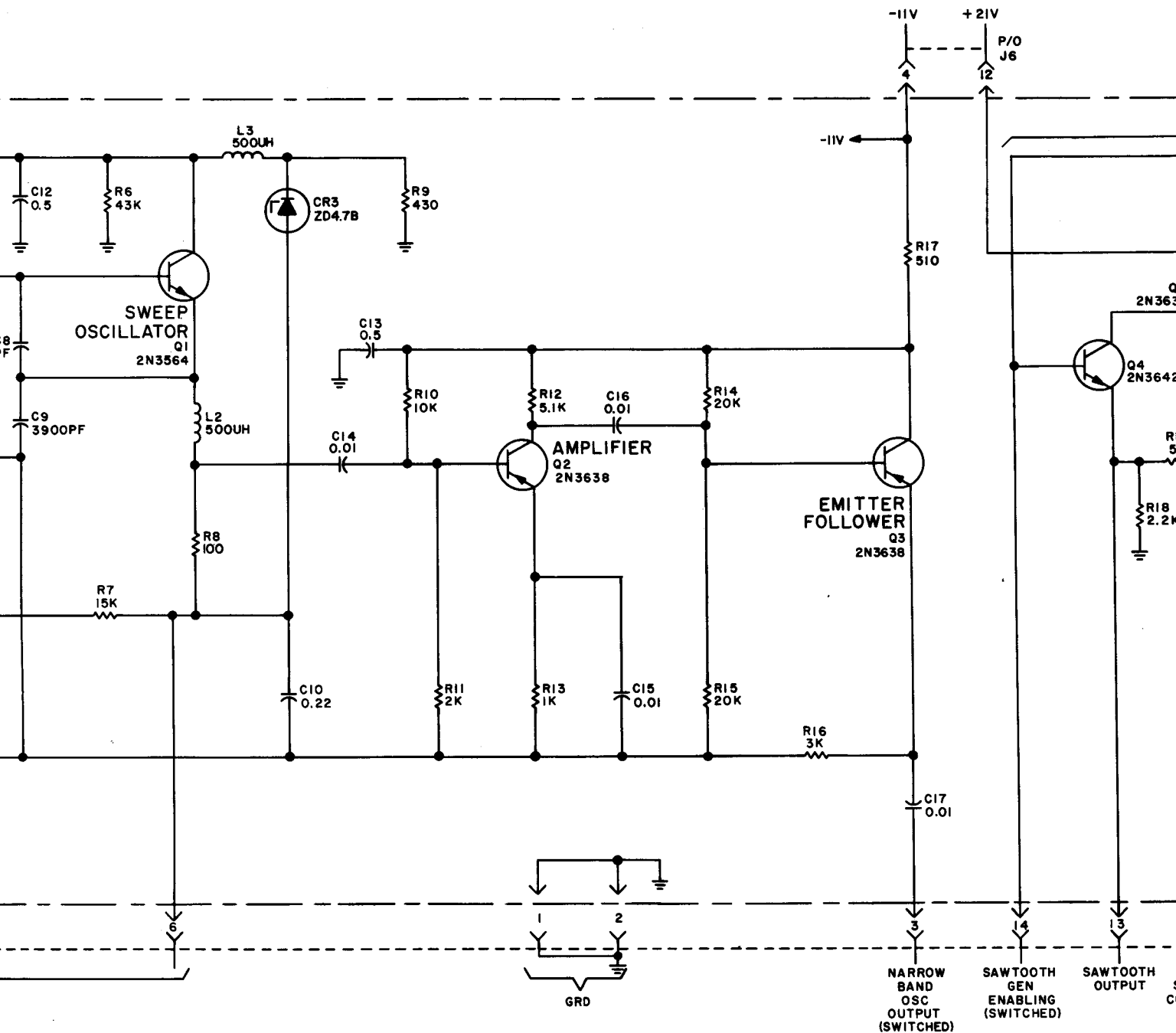
- NOTES:
1. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE IN OHMS, 1/4, $\pm 5\%$
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. ALL INDUCTORS ARE IN MILLIHENRIES.

Figure 5-5. Log/Lin Amplifier Assembly A7,
Schematic Diagram



NOTES:

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



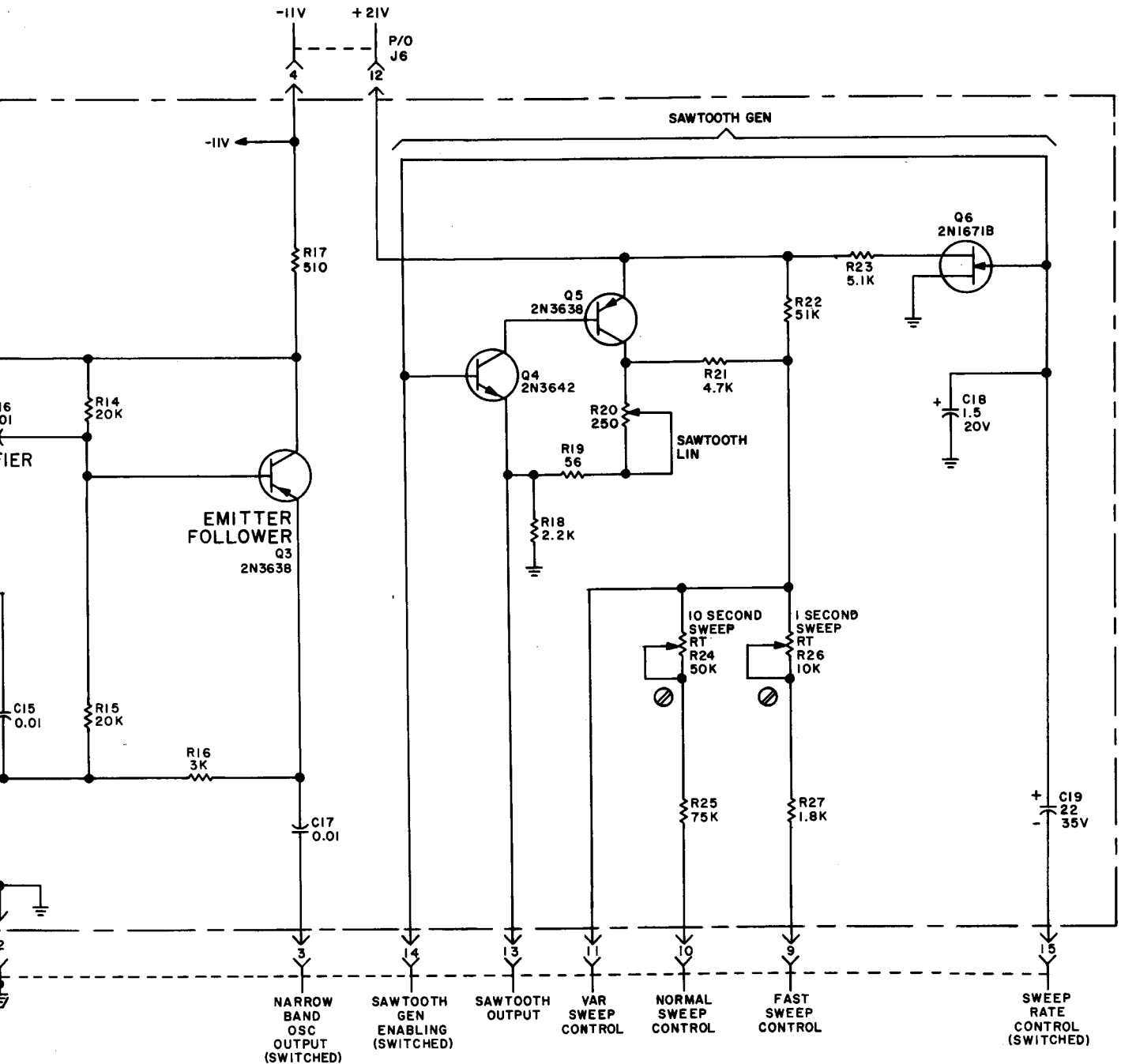
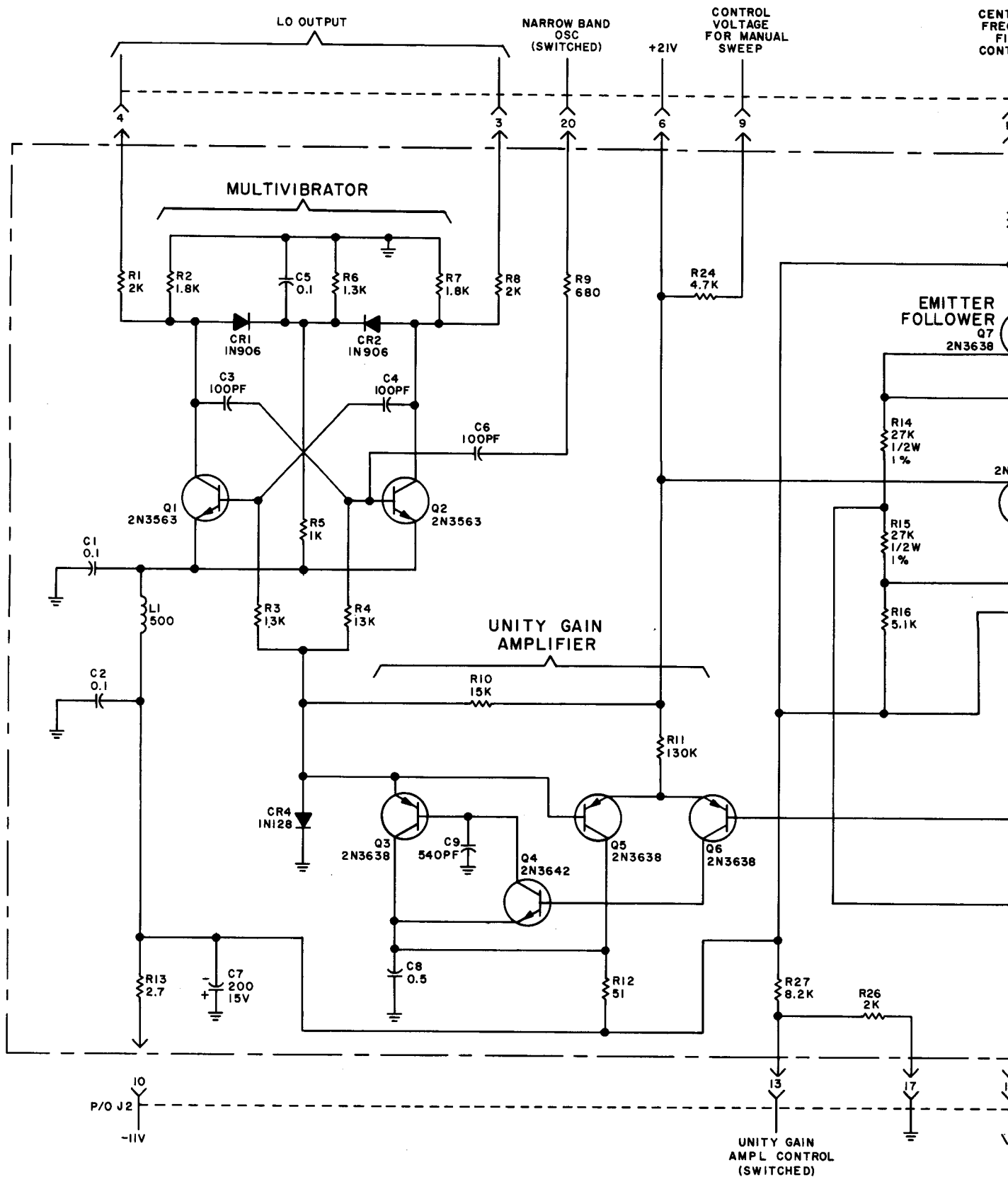
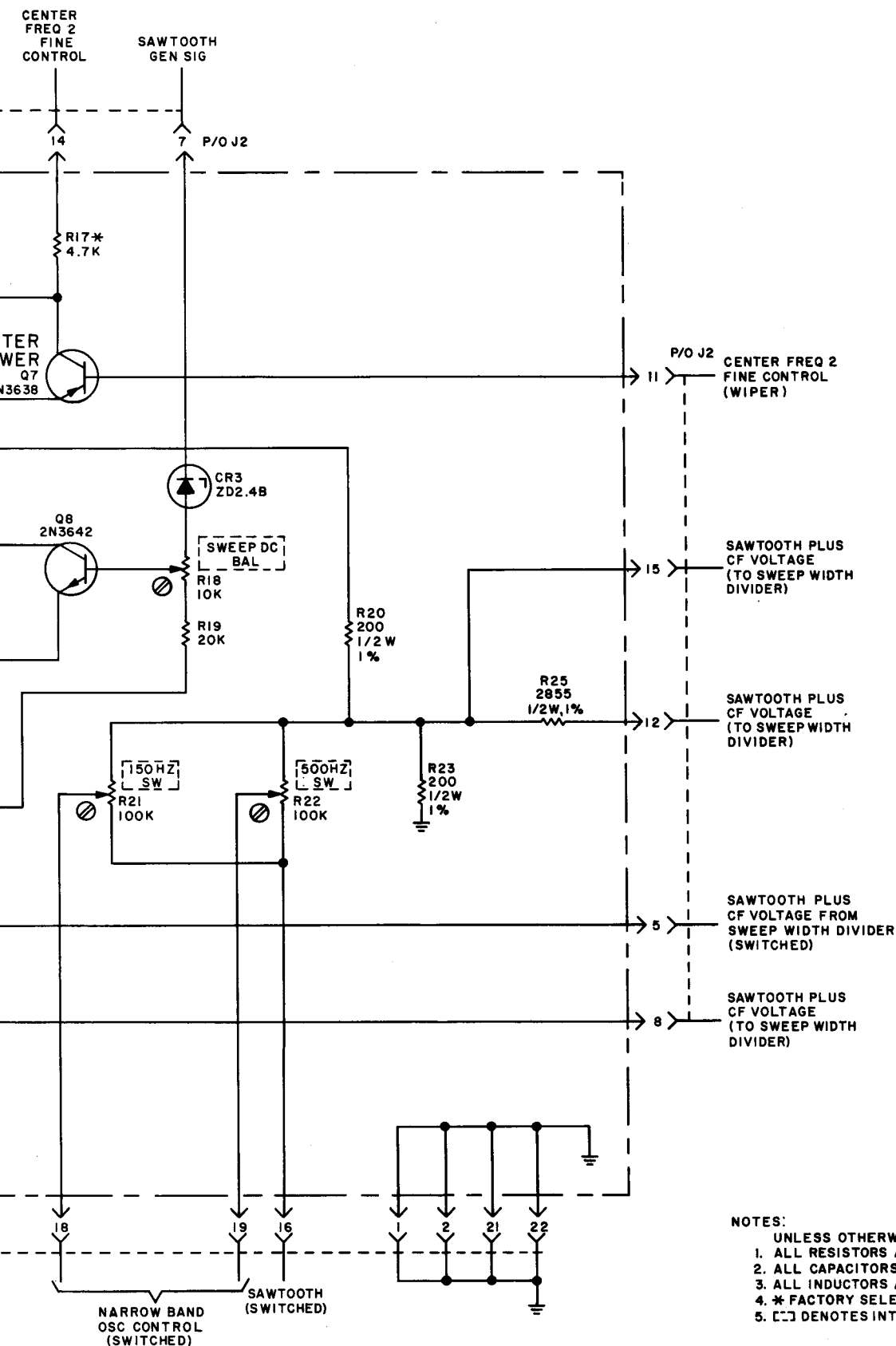


Figure 5-6. Narrow Band Oscillator and Sawtooth Generator Assembly A6, Schematic Diagram

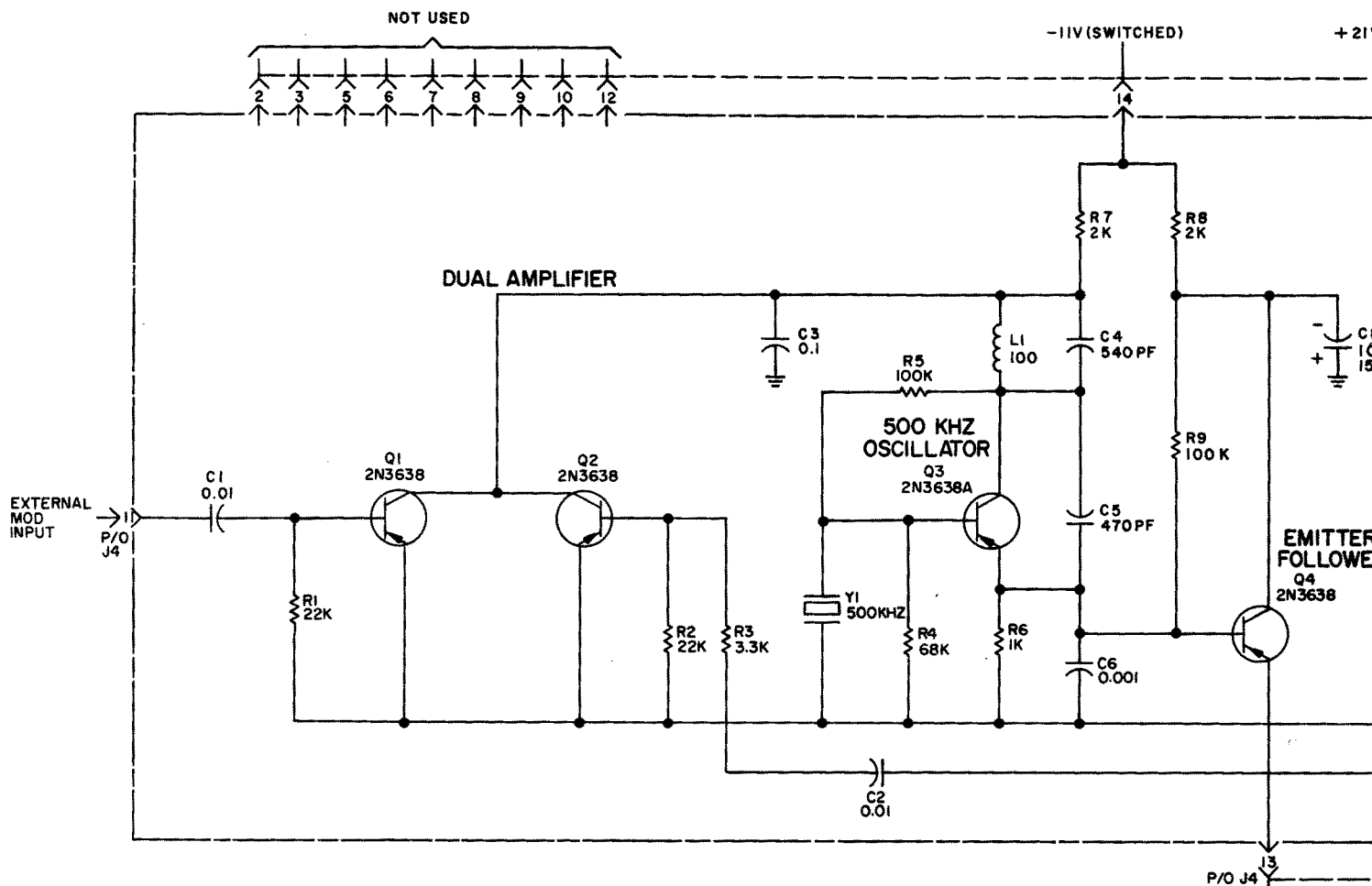




NOTES:

1. ALL RESISTORS ARE IN OHMS, 1/4 W, $\pm 5\%$.
2. ALL CAPACITORS ARE IN MICROFARADS.
3. ALL INDUCTORS ARE IN MICROHENRIES.
4. * FACTORY SELECTED COMPONENT. (NOMINAL VALUE SHOWN)
5. [] DENOTES INTERNAL MARKING.

Figure 5-7. Local Oscillator and Control Assembly A2, Schematic Diagram



NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTOR VALUES ARE IN OHMS, 1/4 W 5%
2. ALL CAPACITORS ARE IN MICROFARADS
3. □□□□ DENOTES INTERNAL MARKING

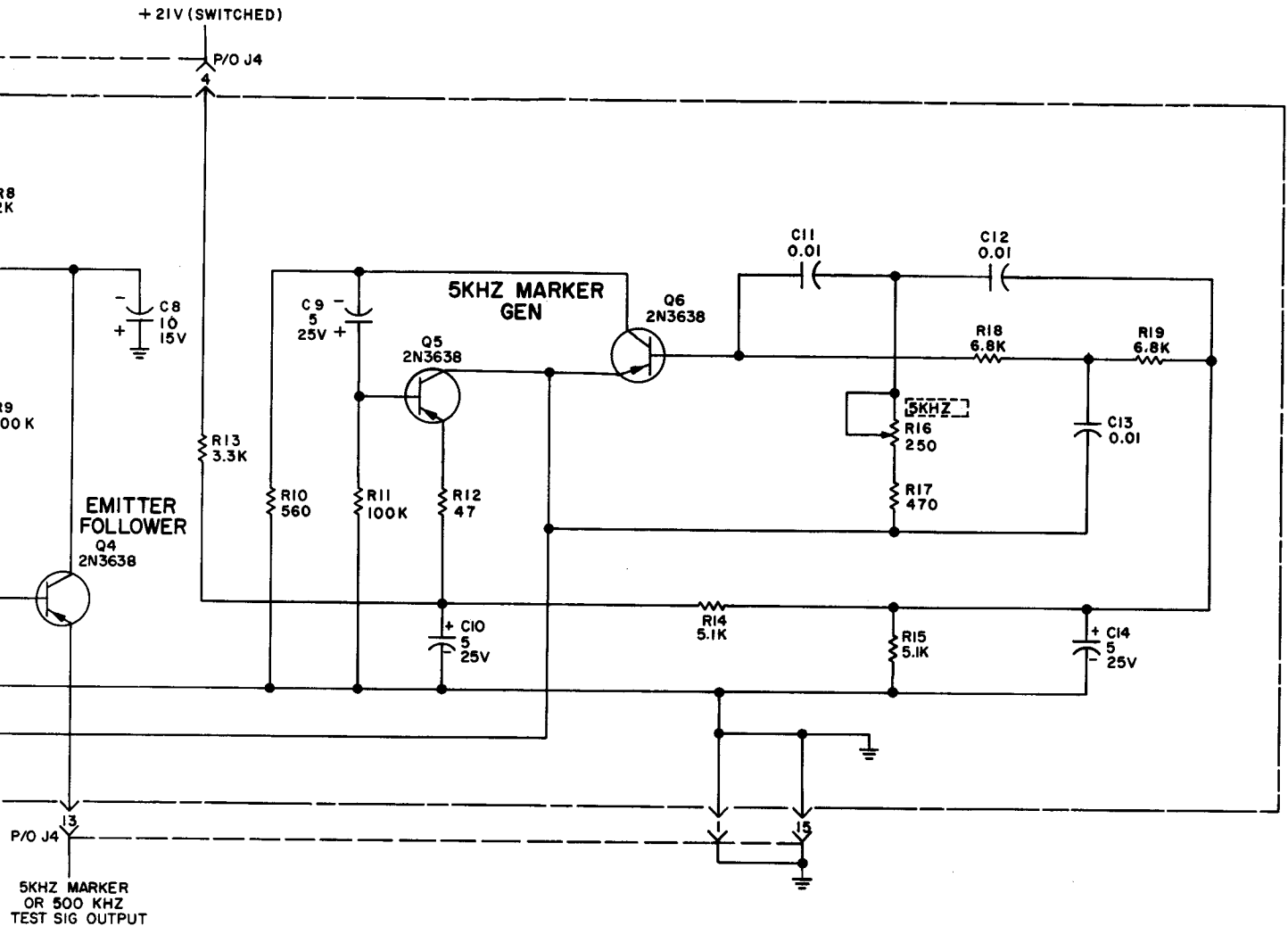


Figure 5-8. Calibration Oscillator and 5-kHz
Marker Generator Assembly A4,
Schematic Diagram