

Figure 3.1. SC130D(E) In Transmit Mode

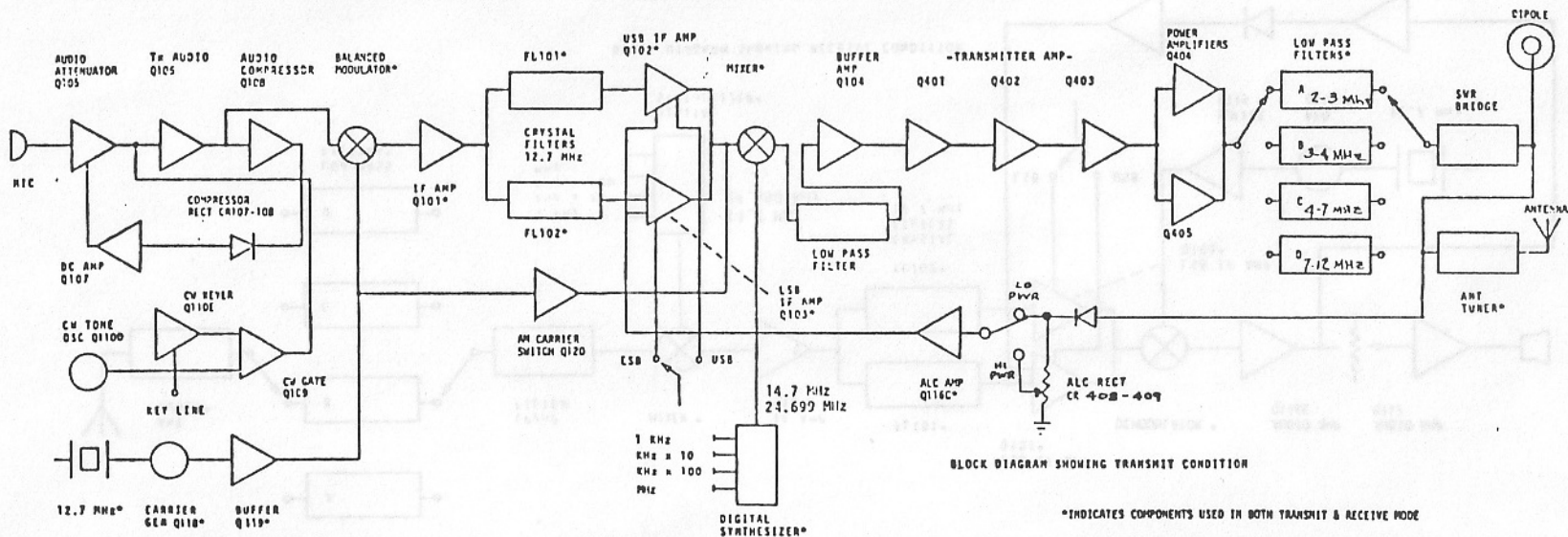
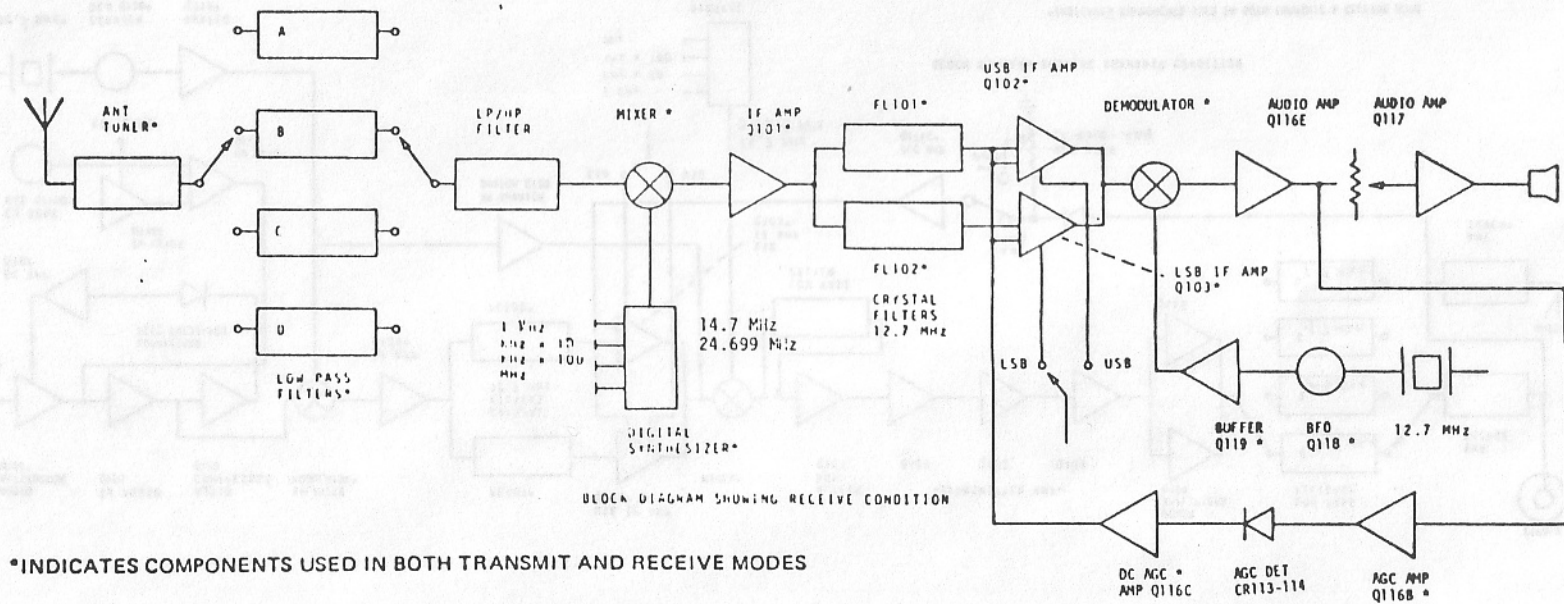
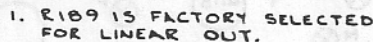


Figure 3.2. SC130D(E) In Receive Mode





The diagram is a hand-drawn electronic circuit for a radio receiver. It includes the following sections:

- Low Pass Filter:** At the top, a series of capacitors (C102-C110) and inductors (L102-L110) with values like 1.8, 2.2, 470, .33, .82, .82, .82, .620, .620, .470.
- 1st I.F. AMP:** Features a transformer (L112), a ferrite bead (Q101), and various resistors (R104-R110) and capacitors (C120-C128).
- 2nd I.F. AMPS:** Includes a transformer (L118), a diode (CR127), and resistors (R114-R122) and capacitors (C131-C145).
- MIC. AMP:** A small amplifier stage with a transformer (L114), a diode (CR102), and resistors (R137-R139) and capacitors (C169-C171).
- MOD DRIVE:** A modulation drive stage with a transformer (L115), a diode (CR101), and resistors (R104-R110) and capacitors (C120-C128).
- DPDT FET SWITCH:** A double-pole double-throw switch using two FETs (Q101, Q102) and various resistors (R104-R110) and capacitors (C120-C128).
- AGC FEED-BACK LOOP:** An automatic gain control feedback loop using a diode (CR113), a transformer (L118), and various resistors (R114-R122) and capacitors (C131-C145).
- CW LVL POWER:** A circuit for CW level power using a transformer (L112), a diode (CR102), and resistors (R104-R110) and capacitors (C120-C128).
- CW TONE OSC:** A CW tone oscillator using a transformer (L112), a diode (CR102), and resistors (R104-R110) and capacitors (C120-C128).

Parts List:

- 2101, Q115 B
- 2108, Q117
- 2109, Q120
- 2111, Q114
- 2112, Q119
- 2113, Q120
- 2114, Q120
- 2115, Q120
- 2116, Q120
- 2117, Q120
- 2118, Q120
- 2119, Q120
- 2120, Q120
- 2121, Q120
- 2122, Q120
- 2123, Q120
- 2124, Q120
- 2125, Q120
- 2126, Q120
- 2127, Q120
- 2128, Q120
- 2129, Q120
- 2130, Q120
- 2131, Q120
- 2132, Q120
- 2133, Q120
- 2134, Q120
- 2135, Q120
- 2136, Q120
- 2137, Q120
- 2138, Q120
- 2139, Q120
- 2140, Q120
- 2141, Q120
- 2142, Q120
- 2143, Q120
- 2144, Q120
- 2145, Q120
- 2146, Q120
- 2147, Q120
- 2148, Q120
- 2149, Q120
- 2150, Q120
- 2151, Q120
- 2152, Q120
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- 2156, Q120
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- 2189, Q120
- 2190, Q120
- 2191, Q120
- 2192, Q120
- 2193, Q120
- 2194, Q120
- 2195, Q120
- 2196, Q120
- 2197, Q120
- 2198, Q120
- 2199, Q120
- 2200, Q120

ECTED

ULN 2280 A/B

CA 3086

MC 1550

$Q101, Q115$
 B

 E
 $2N3567$
 $2N3866$

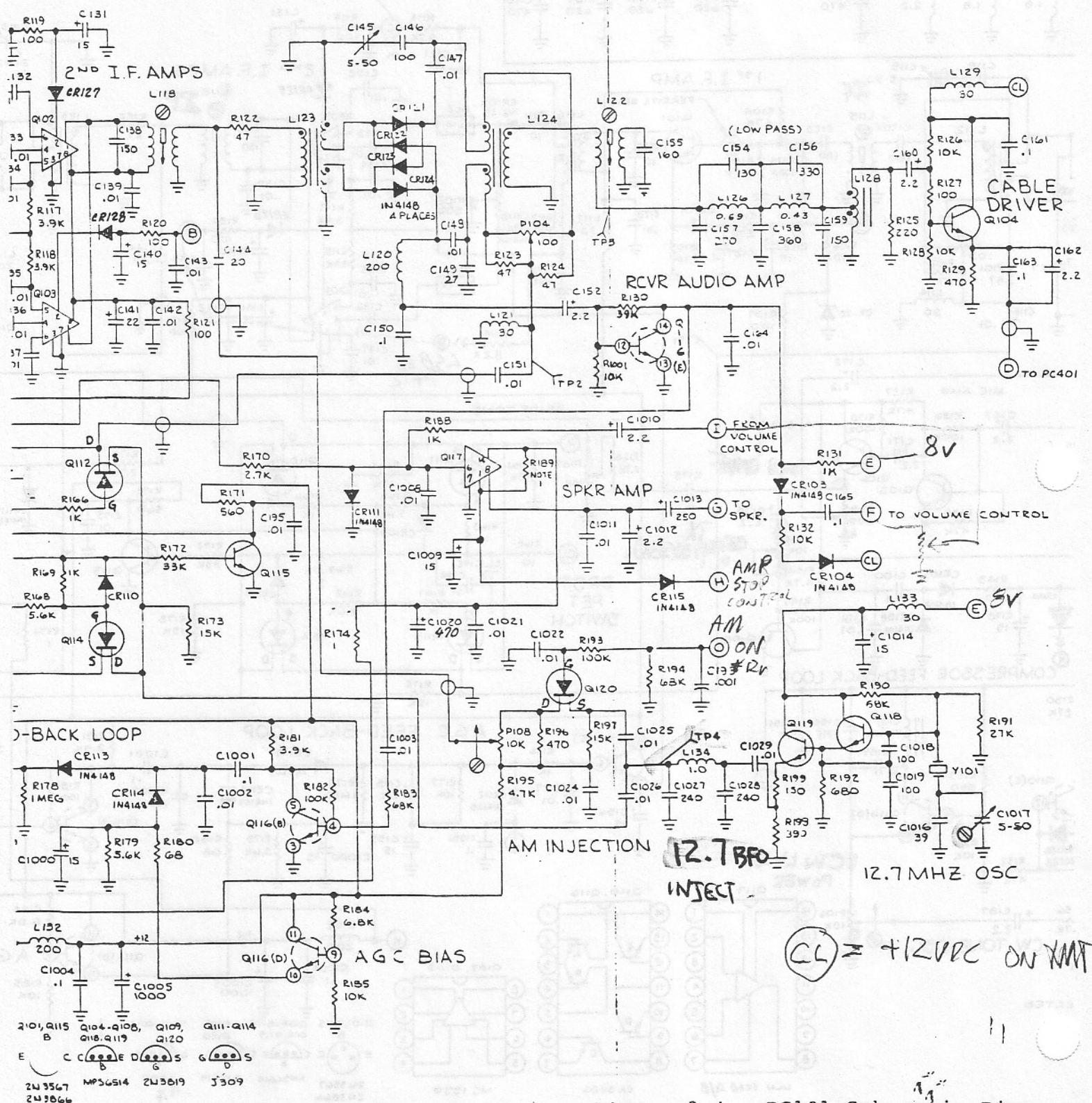
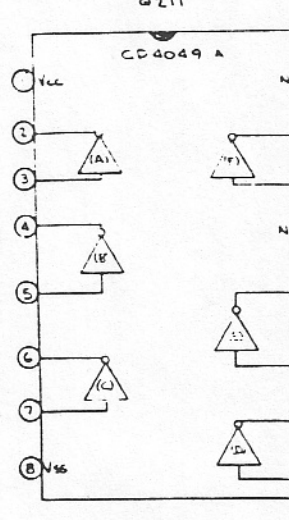
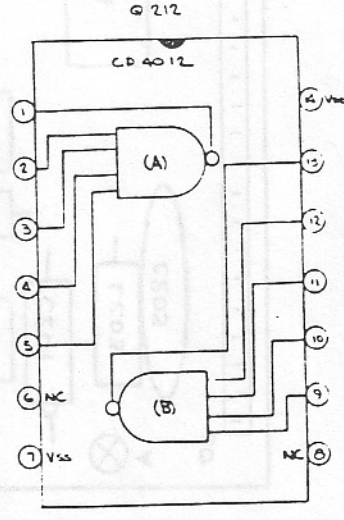
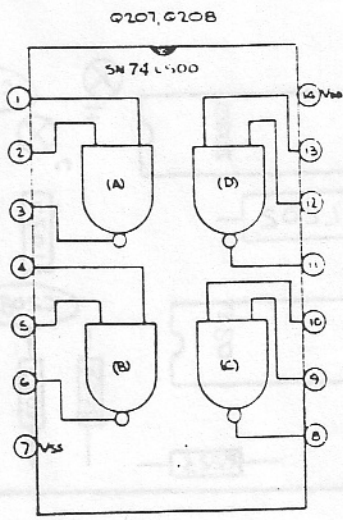
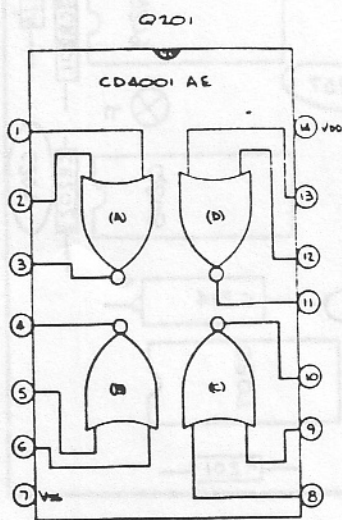
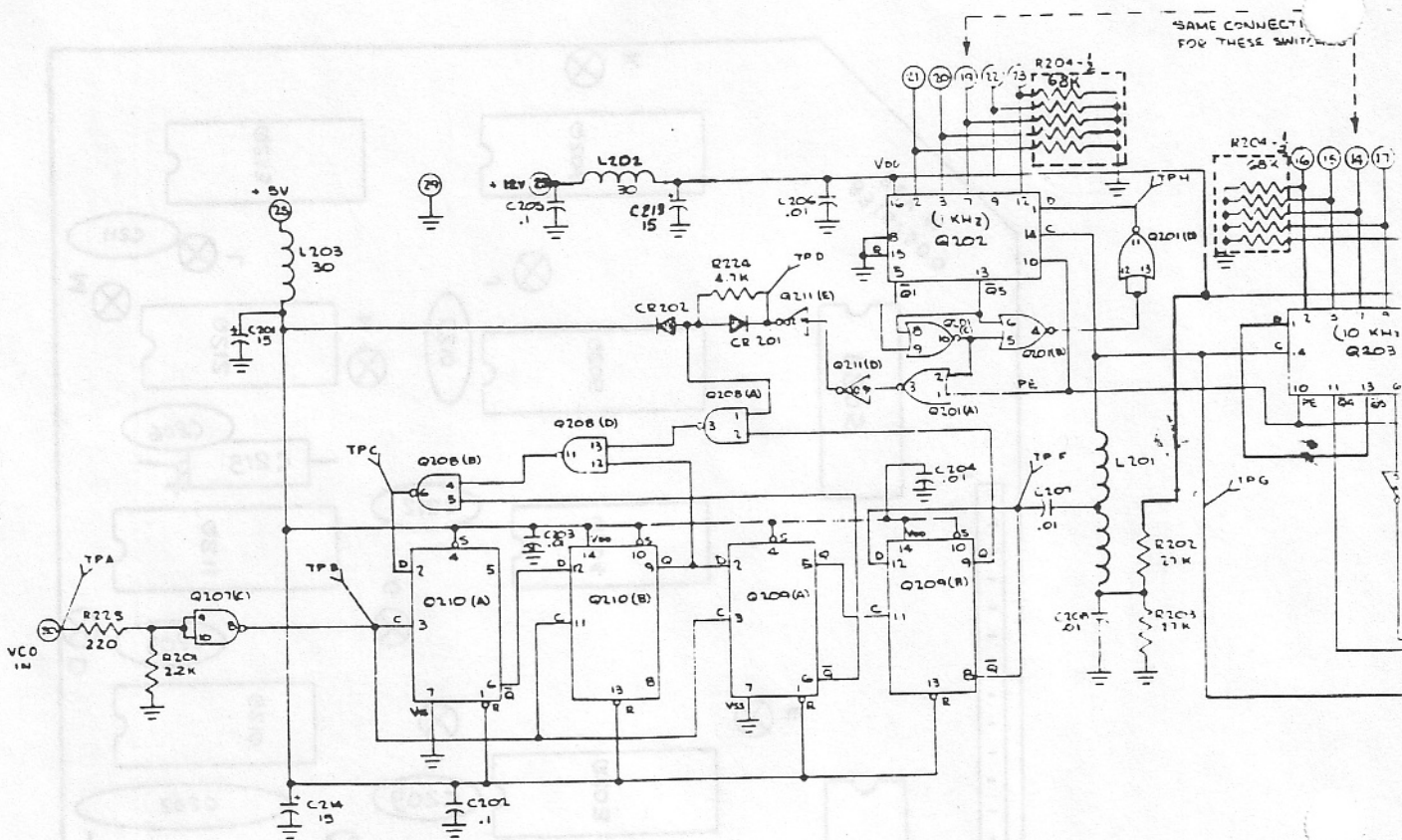
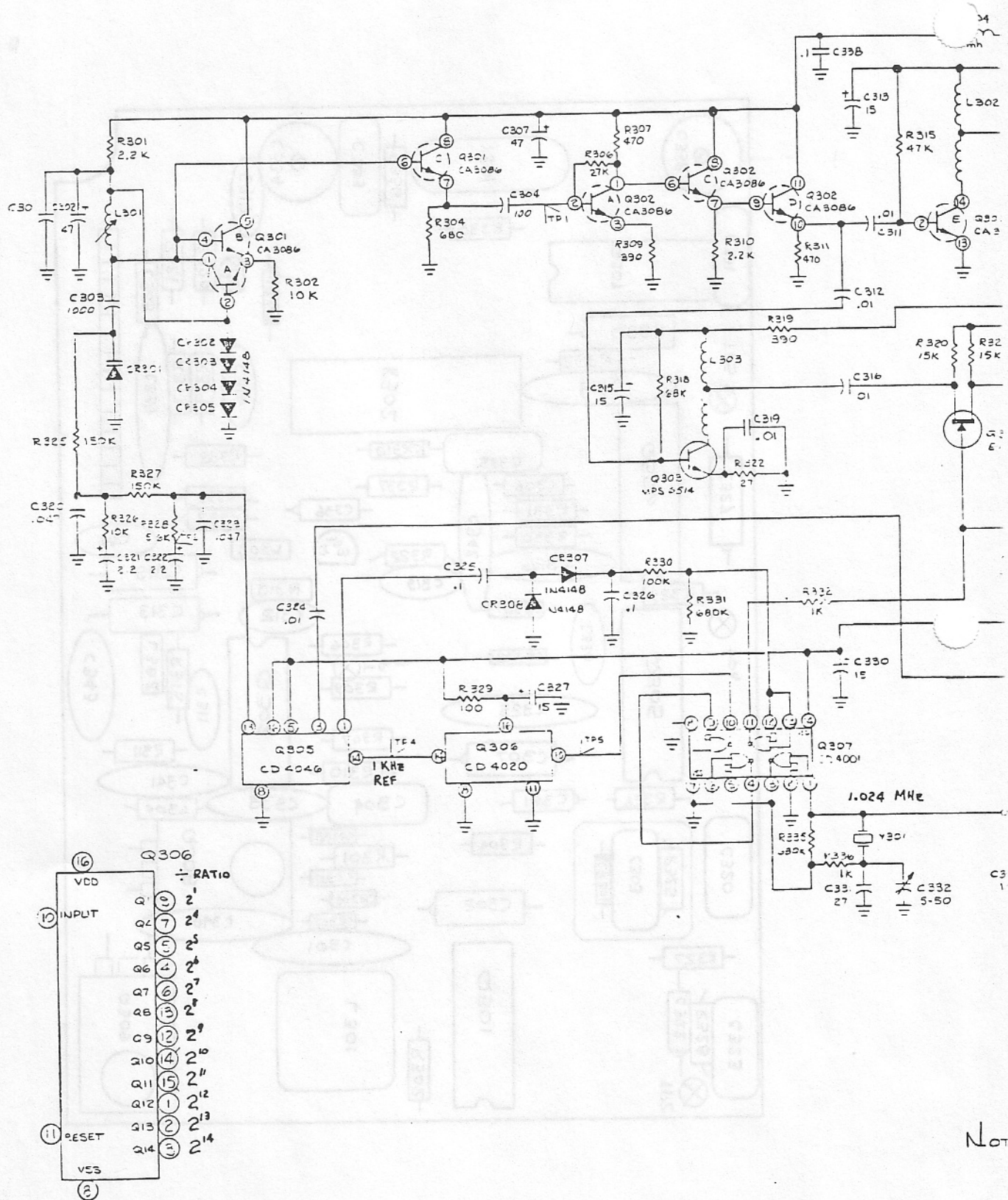
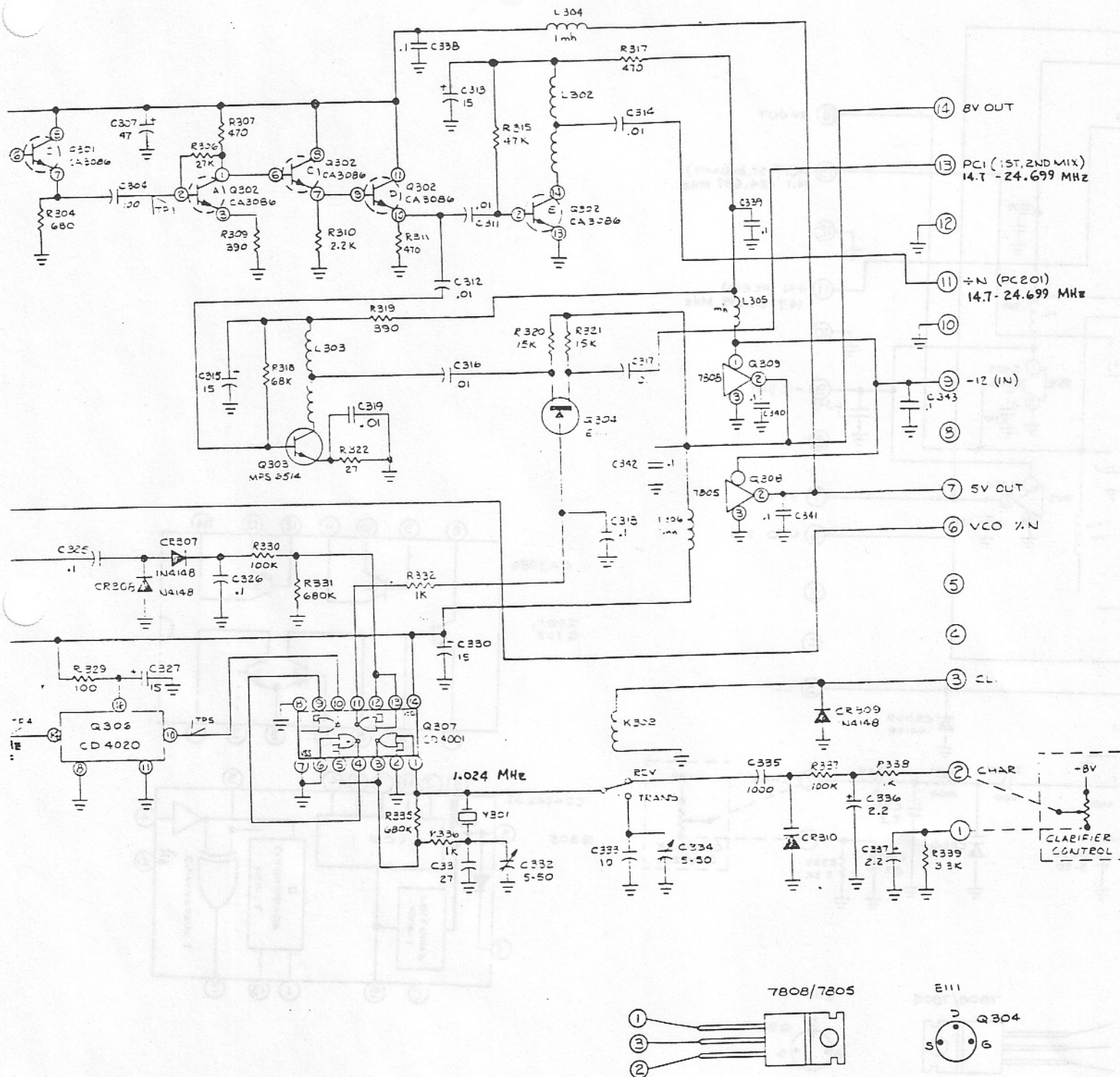


Figure 3.4. PC101 Schematic Diagram



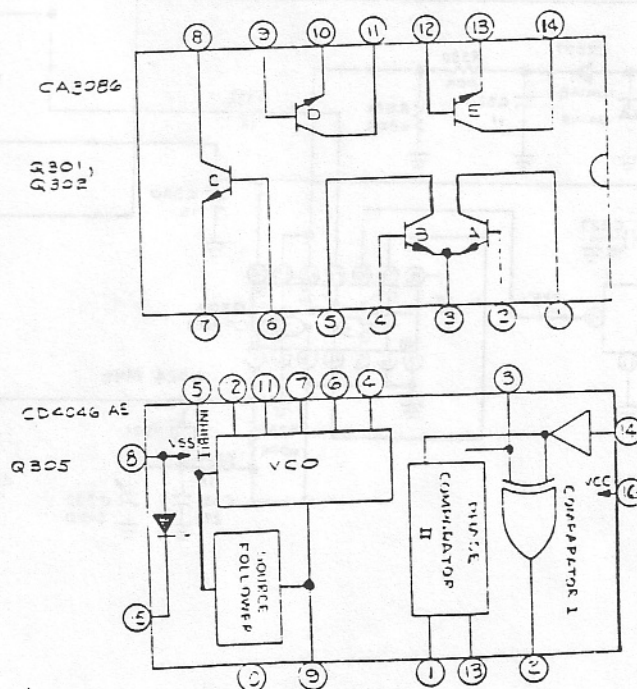


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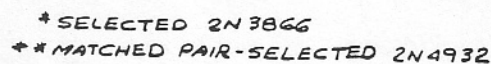


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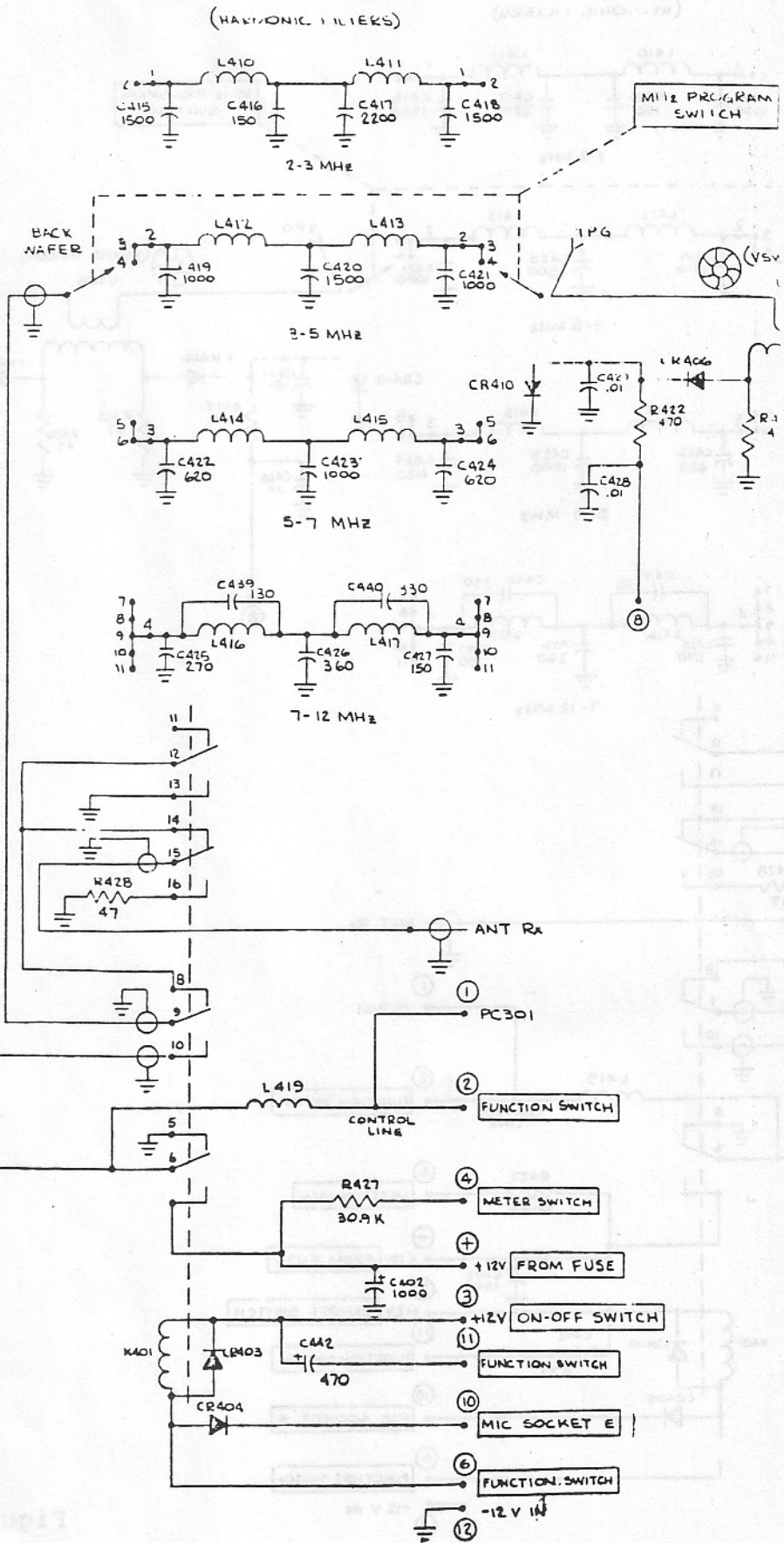
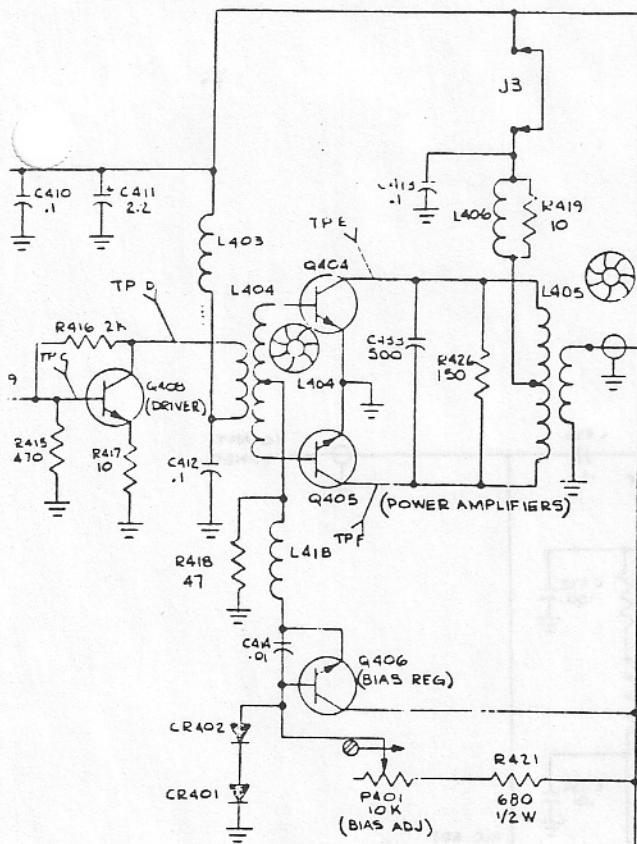
1. ALL POLARIZED & DECIMAL CAPACITORS ARE IN MFD, ALL OTHERS ARE IN PF.
2. ALL INDUCTORS ARE IN MICRO HENRIES UNLESS OTHERWISE SPECIFIED.



- Figure 3.9. PC301 Schematic Diagram

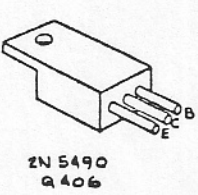


4



7400
25
OR
ED
E

B66
ELECTED 2N4932



ALL OTHERS ARE IN PF.

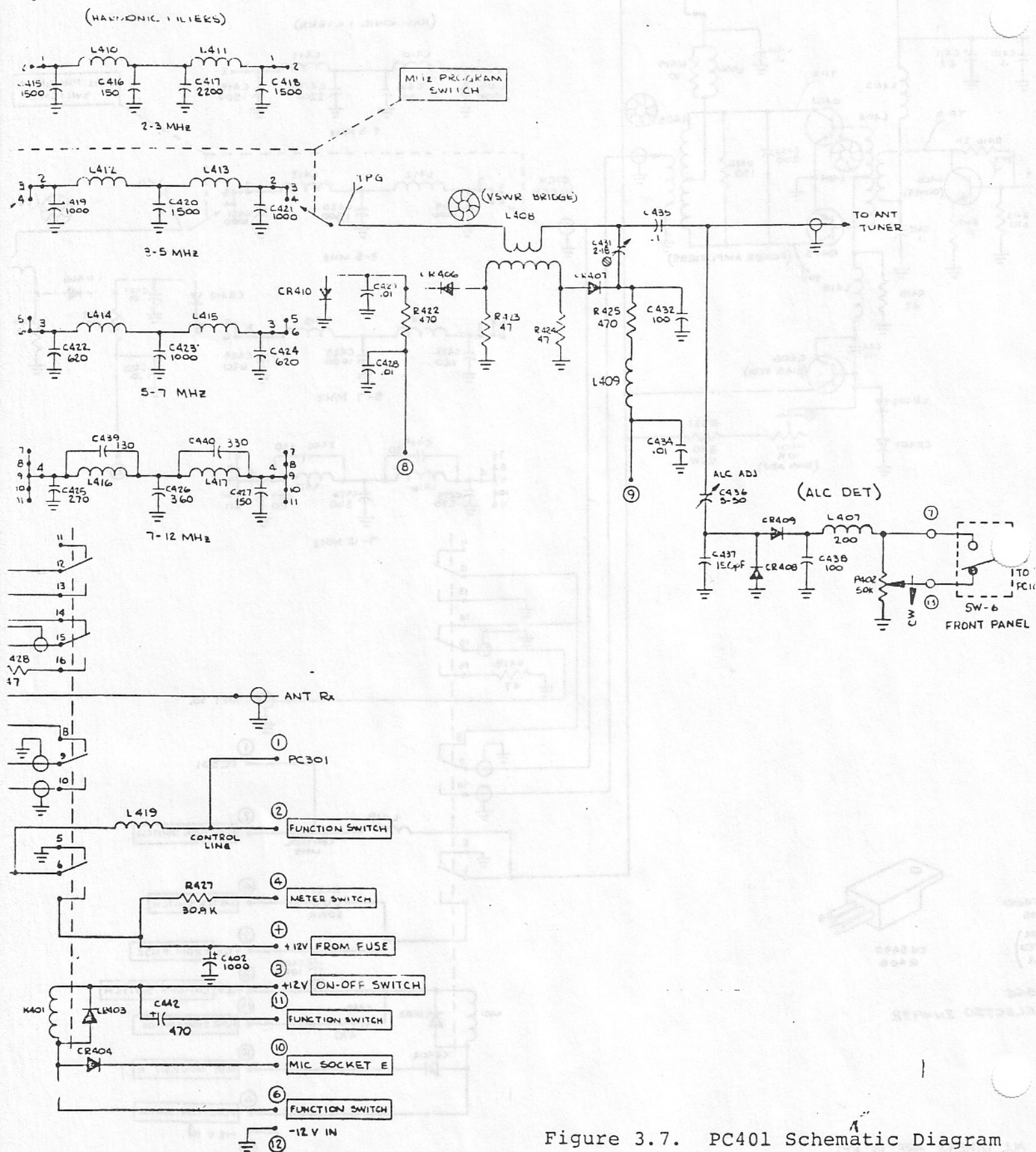


Figure 3.7. PC401 Schematic Diagram