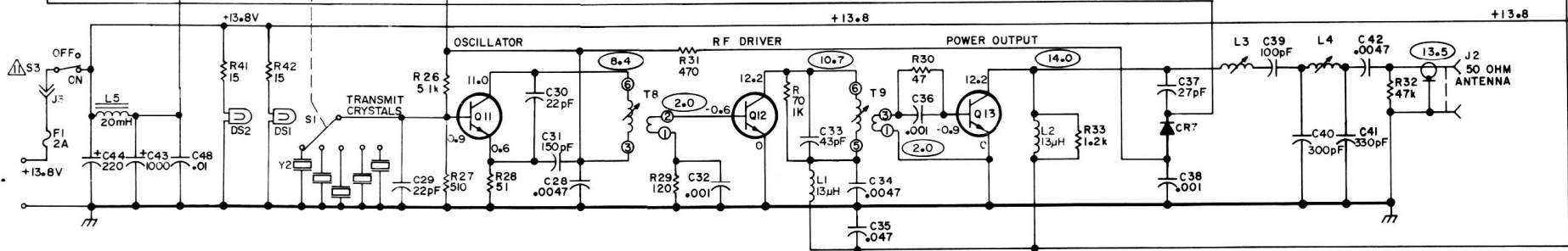


- NOTES:
- ALL RESISTOR VALUES ARE IN OHMS, ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 - VOLTAGE MEASUREMENTS TAKEN USING AN HP400C AND A 13.8V POWER SOURCE. RECEIVER - UNSQUELCHED (CONTROL FULL CCW) WITH NO SIGNAL. TRANSMITTER-KEYED WITH NO MODULATION AND A 50 OHM LOAD CONNECTED TO J2.
 - SWITCHES ARE SHOWN IN NORMAL "OPERATE" CONDITION. PUSH BUTTON SWITCHES SIA & B ARE SHOWN IN THE "OUT" POSITION. SWITCH S3 IS SHOWN IN THE "ON" POSITION.
 - C105 AND R107 VALUES CHOSEN FOR TONE FREQUENCY DESIRED.
 - "O" DENOTES VOLTAGES WITH SIA & B OUT FOR "OPERATE" CONDITION & NO SIGNAL.
 - "C" DENOTES VOLTAGES WITH SIA IN FOR "CALL" CONDITION & TRANSMITTING TONE.
 - "S" DENOTES VOLTAGES WITH SIB IN FOR "STANDBY" CONDITION WITH CALL LIGHT OFF, NO SIGNAL.
 - "L" DENOTES VOLTAGES WITH SIB IN FOR "STANDBY" CONDITION AND CALL LIGHT LATCHED ON, NO SIGNAL.
 - TONE ALERT WAVE FORMS WERE MEASURED WITH 15μV SIGNAL LEVEL AT ANTENNA TERMINAL USING TEKTRONIX SCOPE 561A.
 - = RF VOLTAGE READINGS TAKEN WITH BOONTON 91C RF VOLTMETER (100:1 PROBE).
 - △ S3 AND VOLUME CONTROL ARE GANGED TOGETHER.



MESSENGER 120A SCHEMATIC DIAGRAM
(FOR UNITS WITH "B" OR LATER MODEL DESIGNATOR
ON SERIAL NUMBER STICKER)

