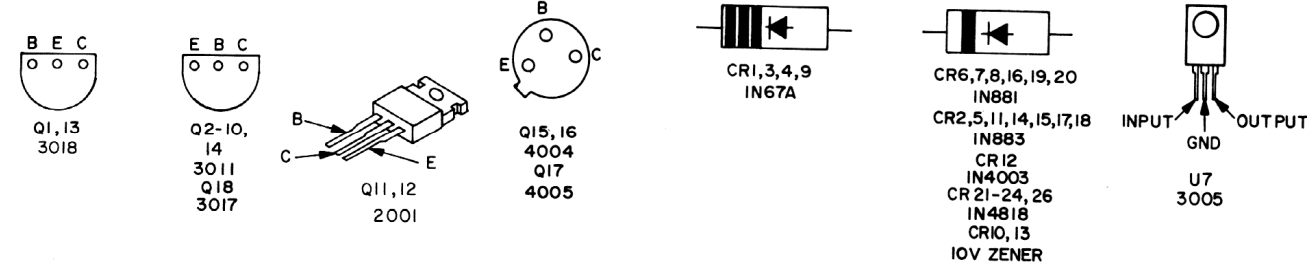


MESSENGER 132 SCHEMATIC DIAGRAM
(FOR UNITS WITH "A" OR LATER MODEL DESIGNATOR
ON SERIAL NUMBER STICKER)

- NOTES:
1. ALL RESISTOR VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.
 2. ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 3. VOLTAGES TAKEN USING 10 MA INPUT VTVM, MEASURED WITH RESPECT TO CHASSIS GROUND.
RECEIVER—NO SQUELCH (CONTROL FULL CCW). NO SIGNAL.
TRANSMITTER—50 OHM LOAD CONNECTED TO J2. KEYED. NO MODULATION.
 4. □ SQUELCHED CONDITION VOLTAGE READING.
 5. ○ = RF VOLTAGE READINGS TAKEN WITH BOONTON 91C
RF VOLT-METER (100:1 PROBE). UNMODULATED 3.7 WATT RF POWER OUTPUT.
 6. ALL VOLTAGES ON DIODES SHOWN IN RECEIVE CONDITION UNLESS OTHERWISE SPECIFIED.
 7. S2A AND B ARE SHOWN IN CHANNEL ONE POSITION AS VIEWED FROM THE KNOB END OF SHAFT.



CRYSTAL SYNTHESIZER SCHEME

| CHANNEL | HF CRYSTAL | RECEIVE LF CRYSTAL | RECEIVE OUTPUT | TRANSMIT LF CRYSTAL | TRANSMIT OUTPUT |
|---------|------------|--------------------|----------------|---------------------|-----------------|
| 1 | 32.700 | 6.1904 | 26.5096 | 5.735 | 26.965 |
| 2 | 32.700 | 6.1804 | 26.5196 | 5.725 | 26.975 |
| 3 | 32.700 | 6.1704 | 26.5296 | 5.715 | 26.985 |
| 4 | 32.700 | 6.1504 | 26.5496 | 5.695 | 27.005 |
| 5 | 32.750 | 6.1904 | 26.5596 | 5.735 | 27.015 |
| 6 | 32.750 | 6.1804 | 26.5696 | 5.725 | 27.025 |
| 7 | 32.750 | 6.1704 | 26.5796 | 5.715 | 27.035 |
| 8 | 32.750 | 6.1504 | 26.5996 | 5.695 | 27.055 |
| 9 | 32.800 | 6.1904 | 26.6096 | 5.735 | 27.065 |
| 10 | 32.800 | 6.1804 | 26.6196 | 5.725 | 27.075 |
| 11 | 32.800 | 6.1704 | 26.6296 | 5.715 | 27.085 |
| 12 | 32.800 | 6.1504 | 26.6496 | 5.695 | 27.105 |
| 13 | 32.850 | 6.1904 | 26.6596 | 5.735 | 27.115 |
| 14 | 32.850 | 6.1804 | 26.6696 | 5.725 | 27.125 |
| 15 | 32.850 | 6.1704 | 26.6796 | 5.715 | 27.135 |
| 16 | 32.850 | 6.1504 | 26.6996 | 5.695 | 27.155 |
| 17 | 32.900 | 6.1904 | 26.7096 | 5.735 | 27.165 |
| 18 | 32.900 | 6.1804 | 26.7196 | 5.725 | 27.175 |
| 19 | 32.900 | 6.1704 | 26.7296 | 5.715 | 27.185 |
| 20 | 32.900 | 6.1504 | 26.7496 | 5.695 | 27.205 |
| 21 | 32.950 | 6.1904 | 26.7596 | 5.735 | 27.215 |
| 22 | 32.950 | 6.1804 | 26.7696 | 5.725 | 27.225 |
| 23 | 32.950 | 6.1504 | 26.7896 | 5.695 | 27.255 |

NOTE: All frequencies are in MHz.