


**Notes**

- The symbol  denotes a physical connector pin. Solid black end is the male side of the connector. White end is the female side of the connector.
- Capacitance in microfarads unless otherwise indicated.
- Some unused board connections are not shown.
- This schematic is drawn such that signal flow is primarily left to right, and positive voltage potential increases as one moves upwards in the circuit.
- This drawings is based on a reverse engineering of unit with serial number 0858. Components in this unit are stamped with date codes in the range 6908 to 7008.
- 2007 Jun: Initial drawing / bhilpert.  
2017 Nov: Minor updates / bh.

**Measurements**

- Transmit Section:
 

TD = +TV	: 1073 Hz (SPACE)
TD = -TV	: 1278 Hz (MARK)
TD = OPEN	: 1073 Hz (SPACE)

 MARK-SPACE trip point is between +1.26 and +1.29 volts.
- Receive Section:
 

1730 Hz < MIKE <= 2111 Hz	: RD = +13V (SPACE)
MIKE > 2111 Hz	: RD = -7.5V (MARK)
MIKE = QUIET	: RD = -7.5V (MARK)
- The above frequencies are originate-mode Bell-103 compatible.