


**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.  
2023 Jul: M-S trip point polarity corrected / bh.

**Measurements**

- Transmit Section:
  - TD = OPEN : 1073 Hz (SPACE)
  - TD = +TV : 1073 Hz (SPACE)
  - TD = -TV : 1278 Hz (MARK)
 MARK-SPACE trip point is between -1.3 and -1.2 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.