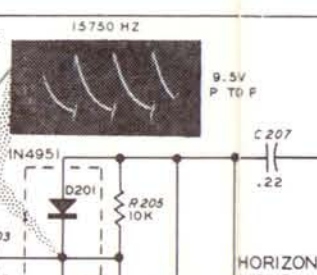
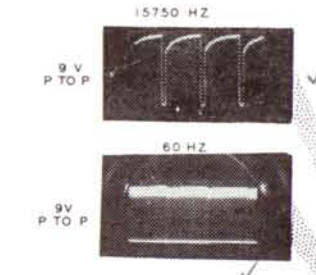


**SCHEMATIC OF THE HEATHKIT® PORTABLE TELEVISION SET MODEL GR-104**

- NOTES:**
- RESISTOR AND CAPACITOR NUMBERS ARE IN THE FOLLOWING GROUPS:
    - 0 - 49 PARTS IN THE VHF TUNER.
    - 50 - 99 PARTS IN THE UHF TUNER.
    - 100 - 199 PARTS ON THE AUDIO-VIDEO CIRCUIT BOARD.
    - 200 - 299 PARTS ON THE SYNC-SWEEP CIRCUIT BOARD.
    - 300 - 399 PARTS MOUNTED ON THE CHASSIS.
    - 400 - 499 PARTS OF INTEGRATED CIRCUIT Q108.
  - THIS SYMBOL AROUND A PART NUMBER MEANS THAT THIS PART IS MOUNTED ON THE CHASSIS, EVEN WHEN ITS POSITION ON THE SCHEMATIC SUGGESTS ANOTHER LOCATION.
  - ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (Ω), KILOHMS (K), OR MEGOHMS (M).
  - ALL CAPACITOR VALUES ARE IN μF UNLESS MARKED OTHERWISE.
  - Pf (picofarad) = 10<sup>-12</sup> F (micromicrofarad).
  - Hz (hertz) = cps (cycles per second).
  - KHz (kilohertz) = kc (kilocycles per second).
  - MHz (megahertz) = mc (megacycles per second).
  - THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASUREMENT TAKEN WITH AN 117 MEGOHM VTVM, FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY ± 10%.
  - THIS SYMBOL INDICATES A VOLTAGE THAT MAY VARY WITH ASSOCIATED CONTROL SETTING.
  - ALL VOLTAGES MEASURED WITH CONTROLS SET FOR NORMAL PICTURE ON 117 VOLT AC LINE VOLTAGE WITH NO SIGNAL INPUT.
  - REFER TO THE CHASSIS PHOTOGRAPHS AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.

*Handwritten notes:*

- any feedback to channelizer
- Remove IF carrier is a detector
- Low pass Tuner Filter to suppress 3 F.
- To Holo
- Hi 2
- Emitter bypass to 2



LINE CORD SWITCH (SHOWN IN 120 VOLT POSITION)