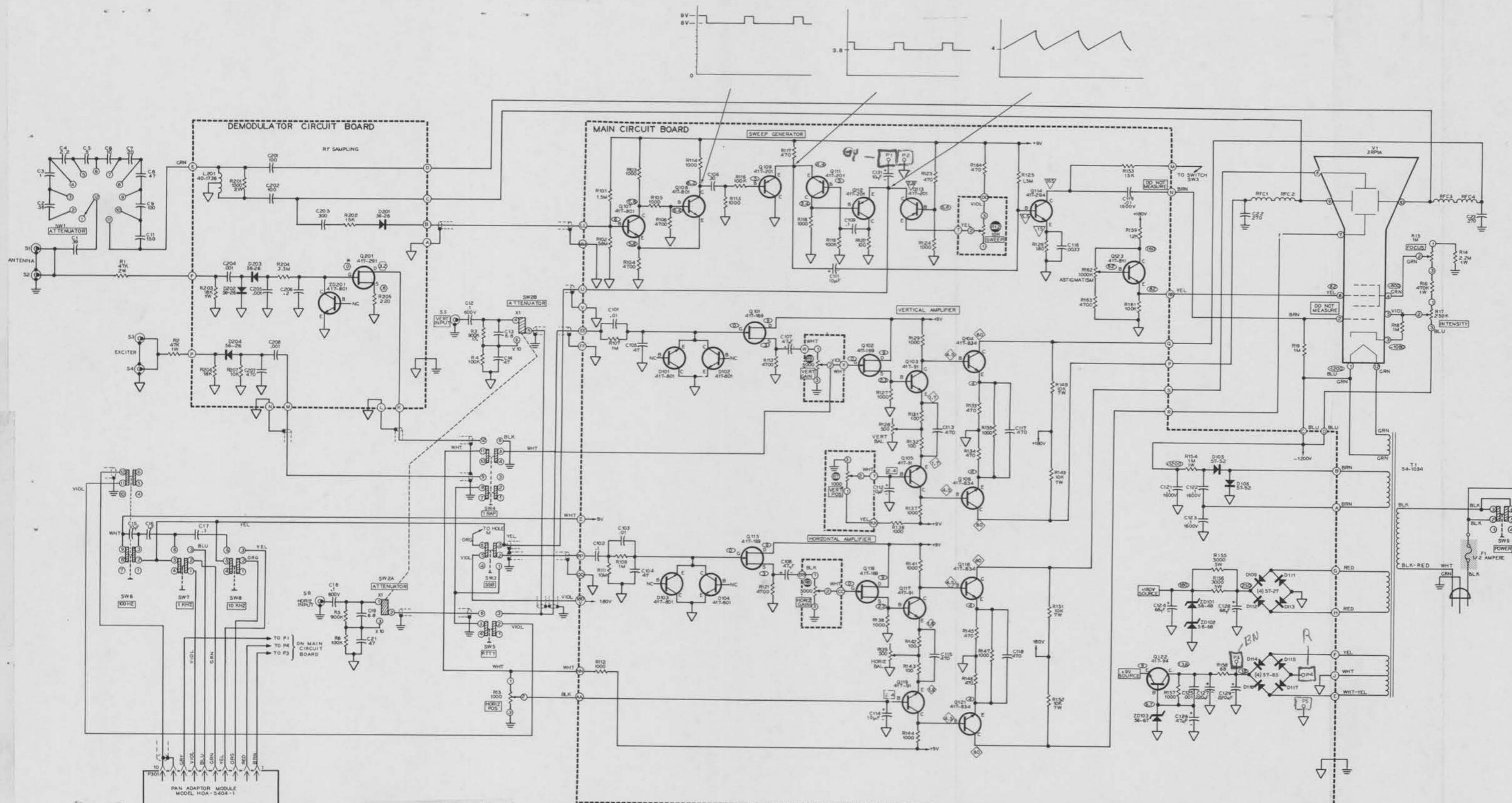


# SCHEMATIC OF THE HEATHKIT® STATION MONITOR MODEL HO-5404



- NOTES:
- Component numbers are arranged in the following groups:
    - 1 - 99 Parts mounted on the chassis.
    - 101 - 199 Parts mounted on the main circuit board.
    - 201 - 299 Parts mounted on the demodulator circuit board.
  - All resistors are rated at 1/4-watt and have a tolerance of 5% unless otherwise noted. Resistor values are in ohms (k = 1000; M = 1,000,000).
  - Capacitor values less than 1 are in  $\mu\text{F}$  (microfarads). All other capacitor values are in pF (picofarads) unless otherwise noted.
  - The following symbols indicate DC voltages measured under varying conditions; generally, the RTTY pushbutton is depressed, no signal input, spot is centered on the screen:
    - This symbol indicates a normal DC voltage.
    - This symbol indicates voltages that vary with the setting of the balance controls.
    - This symbol indicates voltages that vary with the settings of the position controls.
    - This symbol indicates voltages measured with the Trap pushbutton depressed, no RF signal input.
    - This symbol indicates voltages that vary with settings of the Sweep and range (100, 10 k, 100 k) pushbutton, SSB pushbutton depressed.
  - This symbol indicates a circuit board ground.
  - This symbol indicates chassis ground.
  - This symbol indicates a circuit board connection.
  - This symbol indicates a component that is shown within the circuit board outline that is actually located on the chassis.
  - \* (Q201) This voltage may vary from 0 to -9 VDC, depending upon the RF level present at the Antenna input sockets.
  - Switches SW3, SW6, and SW9 are shown in their depressed (in) positions. Switches SW4, SW5, SW7, and SW8 are shown in their released (out) positions.
  - Pins P1 through P5 are for connection of the optional Pan Adaptor Module, Model HOA-5404-1.
  - The part within the shaded area is critical to product safety. Replace it only with the proper Heath part or the exact equivalent.
  - Waveforms were taken with the SSB and 1 kHz pushbutton depressed, and the SWEEP control fully clockwise. The oscilloscope was set for 2 ms/DIV (pulse spacing varies with the setting of the SWEEP control).