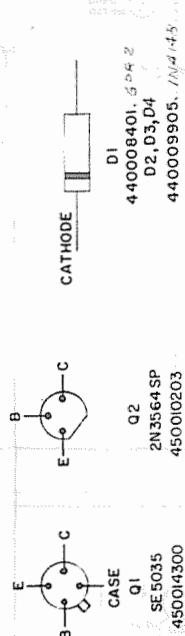


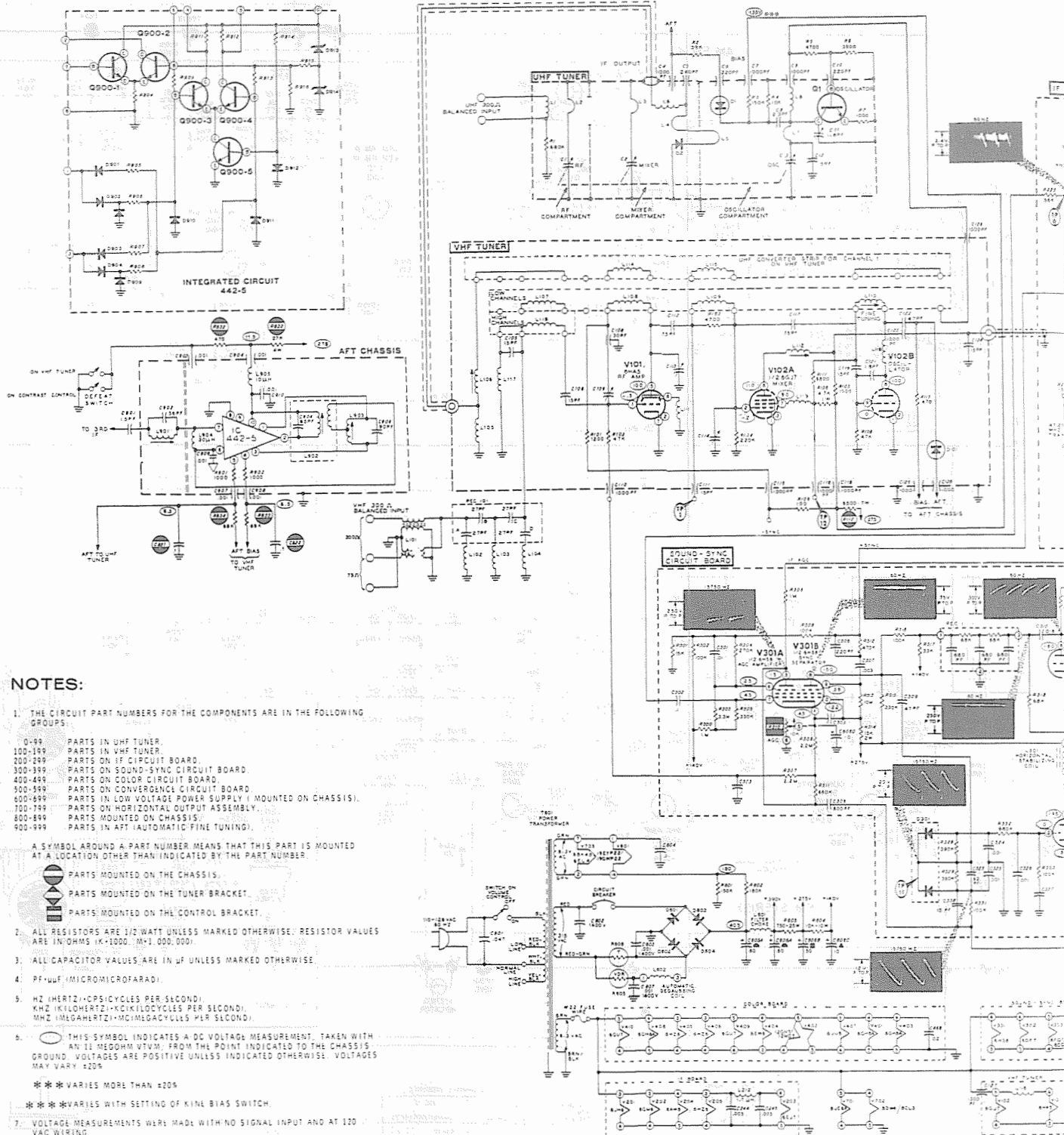
NOTES:  
 1- ALL RESISTORS CARBON COMPOSITION,  $\pm 10\%$ , 1/4W UNLESS NOTED.  
 2- ALL CAPACITORS CERAMIC,  $\pm 10\%$ , UNLESS NOTED. (H=ELECTROLYTIC)  
 3- ALL VOLTAGES MEASURED TO REFERENCE GROUND  
 (CASE OF Q1) WITH 20,000 OHMS/VOLT VOM.  
 4- BIASING:



BLONDER-TONGUE MODEL HORIZON 4640  
 TV DISTRIBUTION AMP  
 COURTESY OF BLONDER-TONGUE LABS, INC.

# NOTES:

- THE CIRCUIT PART NUMBERS FOR THE COMPONENTS ARE IN THE FOLLOWING GROUPS:  
 0-99 PARTS IN UHF TUNER.  
 100-199 PARTS IN VHF TUNER.  
 200-299 PARTS ON IF CIRCUIT BOARD.  
 300-399 PARTS ON SOUND-SYNC CIRCUIT BOARD.  
 400-499 PARTS ON COLOR CIRCUIT BOARD.  
 500-599 PARTS ON CONVERGENCE CIRCUIT BOARD.  
 600-699 PARTS IN LOW VOLTAGE POWER SUPPLY (MOUNTED ON CHASSIS).  
 700-799 PARTS ON HORIZONTAL OUTPUT ASSEMBLY.  
 800-899 PARTS MOUNTED ON CHASSIS.  
 900-999 PARTS IN AFT (AUTOMATIC FINE TUNING).
- A SYMBOL AROUND A PART NUMBER MEANS THAT THIS PART IS MOUNTED AT A LOCATION OTHER THAN INDICATED BY THE PART NUMBER.  
 PARTS MOUNTED ON THE CHASSIS.  
 PARTS MOUNTED ON THE TUNER BRACKET.  
 PARTS MOUNTED ON THE CONTROL BRACKET.
- ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE; RESISTOR VALUES ARE IN OHMS (K=1000, M=1,000,000).
- ALL CAPACITOR VALUES ARE IN  $\mu F$  UNLESS MARKED OTHERWISE.
- PF= $\mu F$  (MICROMICROFARAD).
- HZ (HERTZ)=CPS (CYCLES PER SECOND)  
 KHZ (KILOHERTZ)=K (KILOCYCLES PER SECOND)  
 MHZ (MEGAHERTZ)=M (MEGACYCLES PER SECOND).
- THIS SYMBOL INDICATES A DC VOLTAGE MEASUREMENT TAKEN WITH AN  $\Omega$  MEGOHM VTVM FROM THE POINT INDICATED TO THE CHASSIS. GROUND VOLTAGES ARE POSITIVE UNLESS INDICATED OTHERWISE. VOLTAGES MAY VARY  $\pm 20\%$ .
- \*\*\* VARIES MORE THAN  $\pm 20\%$ .
- \*\*\* VARIES WITH SETTING OF KINE BIAS SWITCH.
- VOLTAGE MEASUREMENTS WERE MADE WITH NO SIGNAL INPUT AND AT 120 VAC WIRING VAC LINE VOLTAGE.
- ARROW  $\rightarrow$  INDICATES COUNTERCLOCKWISE ROTATION OF CONTROLS.
- THE 2.2 MEGOHM RESISTORS R444, R445, R446 AND R447 ARE MATCHED LOW-NOISE RESISTORS.
- THE 1 MEGOHM RESISTORS R448 AND R449 ARE MATCHED LOW-NOISE RESISTORS.
- WAVEFORMS WERE TAKEN USING HEATH COLOR BAR AND DOT GENERATOR.
- ALTERNATE WIRING OF SOCKET V101 TO REDUCE BARKHAUSEN INTERFERENCE. REFER TO TROUBLESHOOTING CHART, FIGURE 3-27, ON PAGE 118.
- REFER TO CHASSIS PHOTOGRAPHS AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.



COURTESY OF HEATH CO.

