



# **SCHEMATIC OF THE HEATH MODEL IM/SM-1210 DIGITAL MULTIMETER**

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## **NOTES:**

1. FUNCTION SWITCH SW1 IS SHOWN IN OFF POSITION. RANGE SWITCH SW2 IS SHOWN IN 200Ω POSITION.
2. ALL RESISTOR VALUES ARE IN OHMS: K=1,000; M=1,000,000.
3. ALL RESISTORS ARE 1/2 WATT, 10% UNLESS OTHERWISE INDICATED.
4. ALL CAPACITORS ARE IN μF UNLESS OTHERWISE INDICATED.
5.  INDICATES LOW-NOISE GROUND.
6.  INDICATES POWER GROUND.

7.  INDICATES PARTS FROM 100-1686.

8. ALL VOLTAGES ARE DC AND MEASURED FROM "—" INPUT AT A LINE VOLTAGE OF 120 VAC (OR 240 VAC). VOLTAGES MAY VARY ±20%. RANGE SWITCH SW1 IN DCV; FUNCTION SWITCH SW2 IN 2.

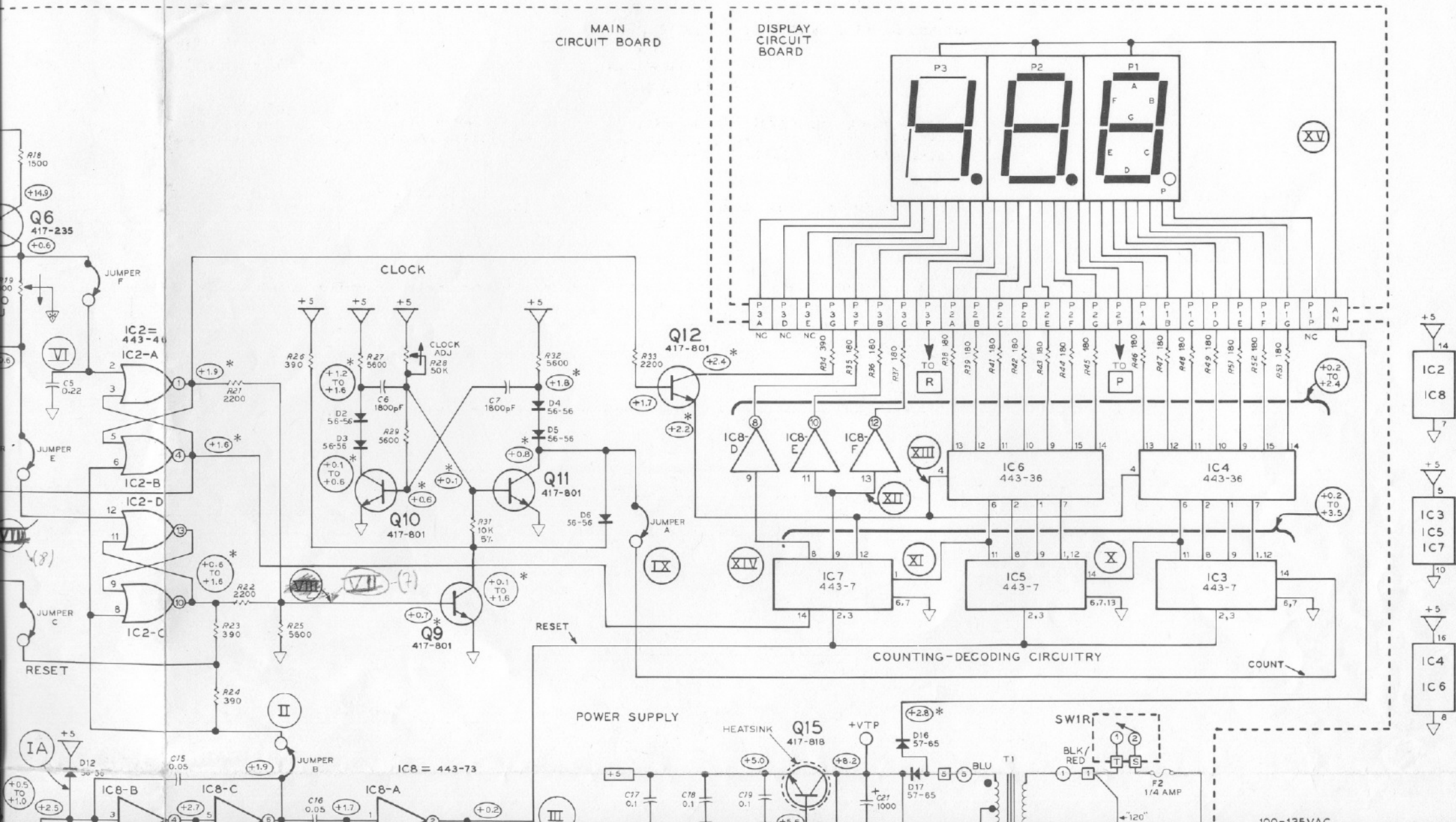
 INDICATES MEASUREMENT FOR ANY DISPLAY USING METER OF 20,000Ω/VOLT OR GREATER.

 \* INDICATES MEASUREMENT MAY VARY DEPENDING ON DISPLAY. MAY USE METER OF 20,000Ω/VOLT OR GREATER.

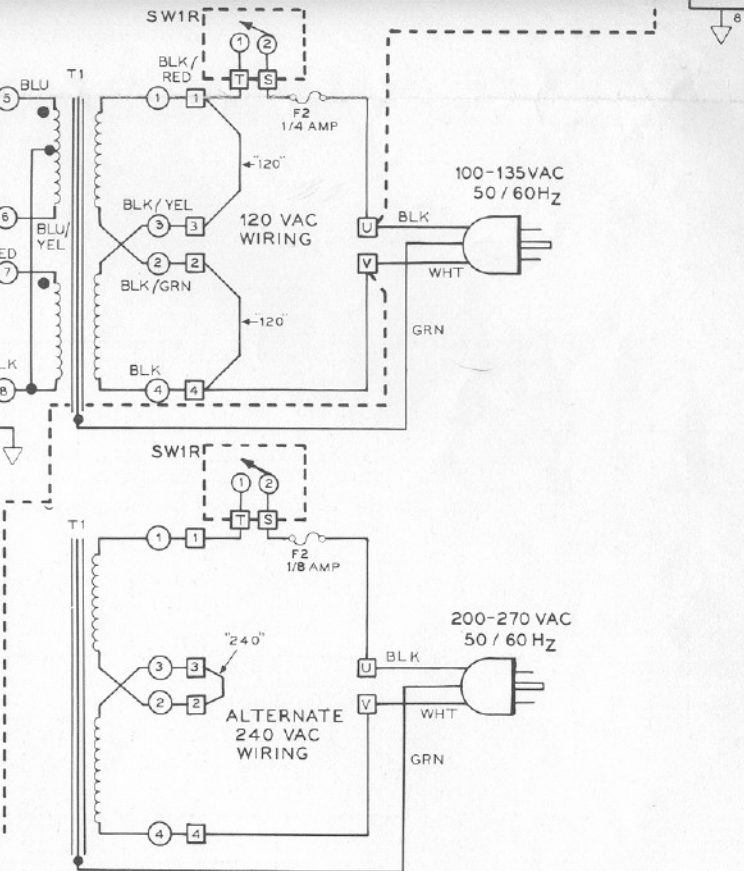
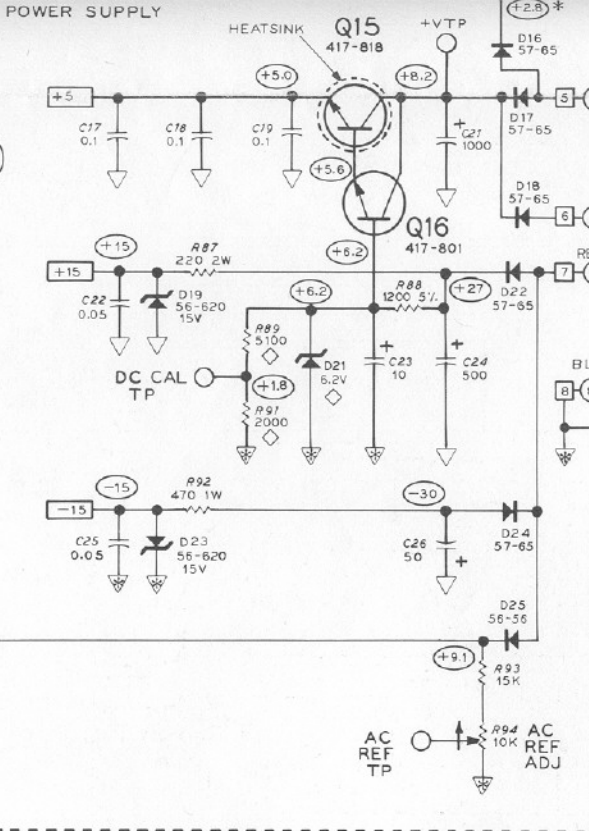
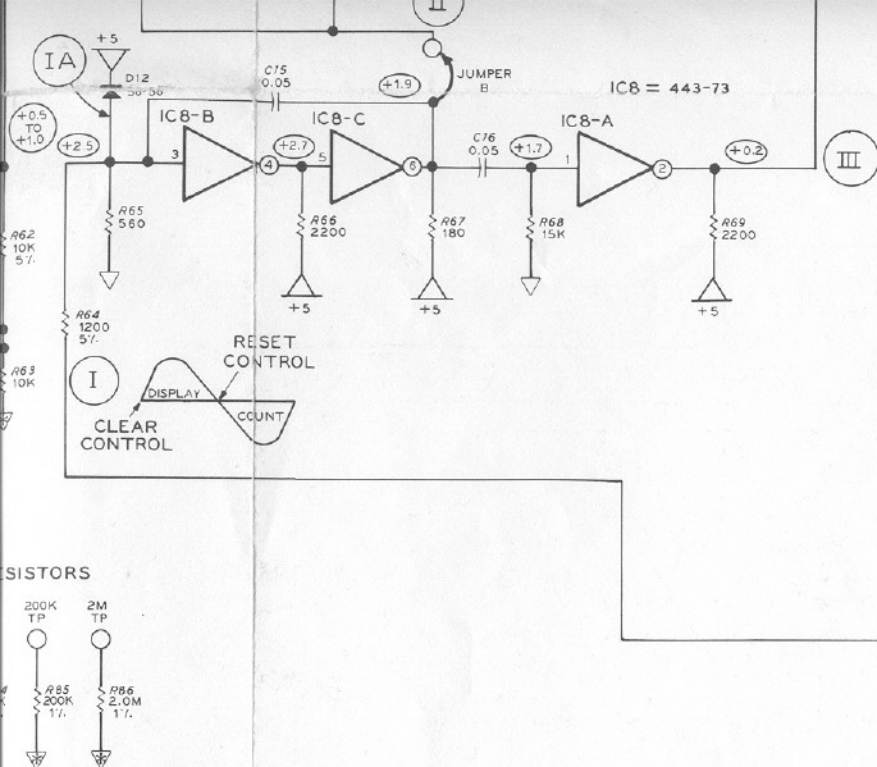
\*\* INDICATES MEASUREMENT ONLY A METER OF 1 OR HIGHER.

\*\*\* INDICATES MEASUREMENT ON DISPLAY. USE IMPEDANCE OR HIGH

9.  DIGIT (P1, P2, OR P3)  
 DIGIT SEGMENT (A-G)







\*\* INDICATES MEASUREMENT FOR ANY DISPLAY. USE ONLY A METER OF 10MΩ INPUT IMPEDANCE OR HIGHER.

\*\*\* INDICATES MEASUREMENT MAY VARY DEPENDING ON DISPLAY. USE ONLY A METER OF 10MΩ IMPEDANCE OR HIGHER.

9. 

P
2
B

 DIGIT (P1, P2, OR P3)

A
B
C
D
E
F
G

 DIGIT SEGMENT (A-G)

10. 

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 INDICATES WIRE CONNECTION POINT TO CIRCUIT BOARD.
11. 

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 WAVEFORMS CORRESPOND TO 60Hz OPERATION AND THUS REPEAT EVERY 16.7 MILLISECONDS. ALSO SEE "WAVEFORMS" IN "IN CASE OF DIFFICULTY".
12. NC DENOTES NO CONNECTION.
13. TP DENOTES TEST POINT.
14. 

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 INDICATES CLOCKWISE ROTATION OF CONTROL.